L&T Switchgear* Business

IS NOW

Lauritz Knudsen#

Electrical & Automation

Maximum Retail Prices For Electrical Standard Products

Effective from 01-02-2025

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FROM THE COO'S DESK.

L&T Switchgear* IS NOW Business

Lauritz Knudsen#
Electrical & Automation

Dear Stakeholder,

We are pleased to announce the launch of our new brand "Lauritz Knudsen Electrical & Automation" on 29th May 2024 which will replace the existing brand, L&T Switchgear.

We sincerely thank you for your patronage & support over the last seven decades. We eagerly anticipate continuing this journey under the new name.

During this transition, the specific product names shall remain unchanged, such as ACBs - OMEGA & C-POWER, MCCB-DSine, Final Distribution Products (MCBs, RCCB, RCBO) – AU / Exora, Contactors -MNX/MO/MCX, Drives, PLCs, Metering products etc. Our products now feature a refreshed look that reflects our brand image and brings more consistency across our product line. However, please note that this change will not affect the ordering CAT numbers, technical parameters, and dimensions of our product range. Once the old brand material is exhausted, we will exclusively supply products under our new brand identity.

We assure you that this brand transition will be seamless, ensuring continuous availability of the products, including spares and after-sales support throughout the product's life cycle, whether under the L&T Switchgear or Lauritz Knudsen brand. Product warranties, as per our standard terms, will be honoured for products in both brands.

We kindly request you to update our new brand, Lauritz Knudsen Electrical & Automation, in your list of approved makes.

Thank you for your continued support and cooperation.

Best regards,
Naresh Kumar,
COO & Sr, VP, Electrical Standard Products
Lauritz Knudsen Electrical & Automation

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Note:
[Black colour : HSN code]
Current GST 18%, subject to changes as per Govt. notification

Please contact the nearest branch office for Prices of the following products :

- Final Distribution Products - 6kA MCBs
- Servo & Motion Control Solutions
- Wires, Cables and Flat Cables
- Busbar Trunking Systems
- Rotary Switches
- Modular Remote Control Units & Indicating Units
- Timing Devices & Supply Monitors
- Cable Ducts & Load Break Switches
- Modular Switches and Sockets
- Medium Voltage AIS upto 36kV
- Agricultural Electrical Products

Note: Product photographs shown, are for representative purposes only.

Solar Switchgear

With the high-tech edge

Designed for plants up to 800 V AC

Lauritz Knudsen Electrical & Automation India's leading supplier of low-voltage switchgear presents a comprehensive, technically superior range of electrical products for solar power installations up to 800 V AC.

Competitively priced, Lauritz Knudsen's advanced product range comprises MCCBs, ACBs, AC-Load Break Switches, Outdoor VCBs, ABTs, Tariff Meters, Fuses, and SPDs. All designed to maximize the efficiency of your installation.

Give your solar power installation the high-tech, high-productivity edge. **Contact us today**.

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

Lauritz Knudsen
Electrical & Automation

Efficient DC Solutions up to 1500V DC

Applications:

› Battery Energy Storage System
› Central Inverter Application
› EV System

MCCB

› Range: 100A to 800A
› DC Operational Voltages of 1500V, 1000V, 750V, 500V & 250V
› Ambient Temperature Compensated DC Releases
› Internal Accessory Compatibility for all DC Applications
› Service Breaking Capacity Ics upto 50kA

ACB - SD

› Disconnector versions up to 6300A*
› DC Voltage ratings 1500V#, 1000V, 750V, 500V & 250V
› Service Breaking Capacity Ics upto 100kA

*6300A in two pole series connection for voltage up to 500V DC
#Upcoming version

SWITCH DISCONNECTOR

› Range: 125A to 630A
› Voltage: 1000/1500V DC

MCB

› Conforms to IEC 60947-2
› Current rating upto 63A
› Available in SP/DP and FP versions
› Voltage rating available from 130V DC to 1000V DC

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Power Contactors

1 Pole
- MR

2 Pole
- MNX
- MU-2P

3 Pole
- MO
- MNX
- MI
- MX Power
- ML
- MDX (DC Control/Electronic coil Control)

4 Pole
- MCX

Control Relays (Auxiliary Contactors)

- MX0 (Mini) AC/DC
- MO0 AC/DC

Capacitor Duty Contactors

- MO C

MI Contactors
6-150A, AC-3 Rating

Understanding customer requirements, we make sure that our range of contactors caters to their evolving needs. Considering the changing expectations of customers and a need for an optimum and reliable solution, we introduce MI range of contactors for applications upto 150 A AC3 rating.

Features
- Finger proof terminals upto 40A
- Can be used with existing MN Range of thermal overload relays
- Top mounting add-on blocks possible upto 80A
- Spares available for entire range
- Optimised for AC1/AC3 applications

Applications
- Street lighting
- VFD, Soft Starters applications
- UPS
- Solar and Wind inverters
- Resistive loads
- Battery charging
- Motor Starters

* For accessories and more details please contact nearest branch.

Type	Cat. No.	M.R.P. (₹) Per Unit
MI 6 (With 1 NO aux contact)	CS90401	Price on request*
MI 9 (With 1 NO aux contact)	CS90402	
MI 12 (With 1 NO aux contact)	CS90403	
MI 18 (With 1 NO aux contact)	CS90404	
MI 22 (With 1 NO aux contact)	CS90405	
MI 25	CS90406	
MI 32	CS90407	
MI 40	CS90408	
MI 45	CS90704	
MI 50	CS90705	
MI 70	CS90706	
MI 80	CS90707	
MI 95	CS90724	
MI 120	CS90725	
MI 150	CS90726	

Notes:
1) Standard coil voltage: 110V, 220V, 240V and 415V, 50Hz
2) For ordering Suffix, please refer page No. 10

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

3 Pole Power Contactors - Type MNX

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 9A – 650A AC-3
- Click fit type construction up to 40A
- Coil on top design in 95A and above
- Spares available for entire range

MNX 22

MNX 40

MNX 80

MNX 140

MNX 250

MNX 650

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	9	25	MNX 9	1 NO	**CS94106**	**1050**	20
				1 NC	**CS94107**	**1050**	20
	12	30	MNX 12	1 NO	**CS94108**	**1210**	20
				1 NC	**CS94109**	**1210**	20
	18	30	MNX 18	1 NO	**CS94100**	**1440**	20
				1 NC	**CS94101**	**1440**	20
	22	32	MNX 22	1 NO	**CS94980**	**1640**	20
				1 NC	**CS94981**	**1640**	20
Fr 2	25	45	MNX 25	#	**CS94110**	**1670**	20
	32	55	MNX 32	#	**CS94111**	**3550**	20
	40	55	MNX 40	#	**CS94190**	**5510**	20
Fr 3	50	85	MNX 50	#	**CS97075**	**7640**	1
	70	100	MNX 70	#	**CS97076**	**10660**	1
	80	100	MNX 80	#	**CS97077**	**13310**	1
Fr 4	95	160	MNX 95	2 NO + 2 NC	**CS94136**	**20150**	1
	110	160	MNX 110	2 NO + 2 NC	**CS94137**	**24480**	1
	140	160	MNX 140	2 NO + 2 NC	**CS94138**	**31230**	1
Fr 5	185	250	MNX 185	2 NO + 2 NC	**CS94139**	**37130**	1
	225	300	MNX 225	2 NO + 2 NC	**CS94140**	**40870**	1
	250	300	MNX 250	2 NO + 2 NC	**CS94141**	**46070**	1
Fr 6	300	400	MNX 300	2 NO + 2 NC	**CS90280**	**55640**	1
	400	425	MNX 400	2 NO + 2 NC	**CS94144**	**79610**	1
	550	650	MNX 550	2 NO + 2 NC	**CS94145**	**116920**	1
	650	800	MNX 650	2 NO + 2 NC	**CS96327**	**178290**	1

3 Pole Power Contactors - Type MO

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 9A - 300A AC-3
- Range 140A-300A available with conventional / universal AC/DC electronic coil version
- Common coil for 50 & 60Hz application
- Low pick-up VA consumption
- Standardized accessories for 9A-110A and 140A-300A range
- Compact dimensions saving panel space
- Suitable for Lug as well as Lugless termination
- **RoHS** compliant

MO 18

MO 45

MO 70

MO 110

MO 140

MO 250

Size	AC 4 Rating (A)	AC 3e Rating (A)	AC 1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 0	9	9	30	MO 9	1 NO + 1 NC	**CS94833**	**1800**	10
	12	12	32	MO 12	1 NO + 1 NC	**CS94834**	**2010**	10
	18	18	32	MO 18	1 NO + 1 NC	**CS94835**	**2280**	10
Fr 1	25	25	45	MO 25	#	**CS94567**	**2530**	10
	32	32	50	MO 32	#	**CS94568**	**5310**	10
	40	40	50	MO 40	#	**CS94569**	**7990**	10
	45	45	50	MO 45 ▲	#	**CS94570**	**10250**	10
Fr 2	50	50	100	MO 50	#	**CS94572**	**11030**	1
	60	60	100	MO 60	#	**CS94573**	**12200**	1
	70	70	100	MO 70	#	**CS94574**	**14950**	1
Fr 3	80	80	125	MO 80	#	**CS94576**	**18940**	1
	95	95	125	MO 95	#	**CS94577**	**21510**	1
	110	110	140	MO 110	#	**CS94578**	**25850**	1
Fr 4	140	140	250	MO 140	2 NO + 2 NC	**CS95000**	**35600**	1
	185	185	275	MO 185	2 NO + 2 NC	**CS95001**	**41570**	1
	225	225	275	MO 225	2 NO + 2 NC	**CS95002**	**46330**	1
Fr 4*	140	140	250	MO 140	2 NO + 2 NC	**CS95042**	**48510**	1
	185	185	275	MO 185	2 NO + 2 NC	**CS95047**	**60180**	1
	225	225	275	MO 225	2 NO + 2 NC	**CS95052**	**64130**	1
Fr 5	250	250	400	MO 250	2 NO + 2 NC	**CS94441**	**52220**	1
	300	300	500	MO 300	2 NO + 2 NC	**CS94440**	**62920**	1
Fr 5*	250	250	400	MO 250	2 NO + 2 NC	**CS94456**	**70300**	1
	300	300	500	MO 300	2 NO + 2 NC	**CS94464**	**81390**	1

Notes:

1) # Add-on blocks can be ordered separately
2) For ordering MNX/MO add-on aux contact blocks, please refer page No.8
3) For ordering MNX/MO surge suppressor and MNX/MO MIL kit, please refer page No.9
4) For ordering Suffix, please refer page No.10
5) Standard coil voltage: MNX/MO - 110V, 220V, 240V and 415V, 50Hz.

- If using 16 sq mm cable for MO 45 use of spreader link kit is mandatory
- For ordering spreader link kit for MO 45, Please refer page No.9

* Universal AC/DC electronic coil version

Switching solution for all Utilization Categories from MO platform

2 Pole Power Contactors [8536]

2 Pole Power Contactors - Type MNX

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 9A - 650A AC-3
- DC ratings available
- Click fit type construction up to 40A
- Coil on top design in 95A and above
- Common spares and accessories as MNX 3P

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	9	25	MNX 9-2P	1 NO	**CS90232**	**895**	10
	12	30	MNX 12-2P	1 NO	**CS90234**	**1030**	10
	18	30	MNX 18-2P	1 NO	**CS90236**	**1220**	10
	22	32	MNX 22-2P	1 NO	**CS90238**	**1390**	10
Fr 2	25	45	MNX 25-2P	#	**CS90240**	**1420**	10
	32	55	MNX 32-2P	#	**CS90241**	**3020**	10
	40	55	MNX 40-2P	#	**CS90242**	**4680**	10
Fr 3	50	85	MNX 50-2P	#	**CS94061**	**6490**	1
	70	100	MNX 70-2P	#	**CS94062**	**9060**	1
	80	100	MNX 80-2P	#	**CS94063**	**11300**	1
Fr 4	95	160	MNX 95-2P	#	**CS94064**	**17100**	1
	110	160	MNX 110-2P	#	**CS94065**	**20800**	1
	140	160	MNX 140-2P	#	**CS94066**	**26500**	1
Fr 5	185	250	MNX 185-2P	2 NO + 2 NC	**CS94978**	**31600**	1
	225	300	MNX 225-2P	2 NO + 2 NC	**CS94979**	**34700**	1
	250	300	MNX 250-2P	2 NO + 2 NC	**CS90301**	**39200**	1
Fr 6	300	400	MNX 300-2P	2 NO + 2 NC	**CS90346**	**47300**	1
	400	425	MNX 400-2P	2 NO + 2 NC	**CS94069**	**67700**	1
	550	650	MNX 550-2P	2 NO + 2 NC	**CS90243**	**99400**	1
	650	800	MNX 650-2P	2 NO + 2 NC	**CS90578**	**151500**	1

3 Pole Power Contactors [8536]

3 Pole Power Contactors - Type MDX

Features

- Conforms to IS/IEC 60947-4-1 & IEC 60947-4-1
- Range from 9 - 110A AC-3
- Built in surge suppressor for MDX 9 - 110

MDX 25

MDX 38

MDX 110

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1 (DC Control Coil)	9	25	MDX 9	1 NO	**CS96564**	**2170**	1
	12	28	MDX 12	1 NO	**CS96565**	**2550**	1
	18	32	MDX 18	1 NO	**CS96566**	**3070**	1
	25	32	MDX 25	1 NO	**CS96567**	**4040**	1
Fr 2 (DC Control Coil)	32	56	MDX 32	#	**CS96552**	**7800**	1
	38	56	MDX 38	#	**CS96553**	**10970**	1
Fr 3 (Electronic Coil-AC/DC)	50	90	MDX 50	#	**CS91584**	**15930**	1
	65	110	MDX 65	#	**CS91585**	**18040**	1
	80	125	MDX 80	#	**CS91586**	**22370**	1
	95	125	MDX 95	#	**CS91857**	**26800**	1
	115	125	MDX 115	#	**CS91858**	**29860**	1

Notes:
1) # Add-on blocks can be ordered separately.
2) For ordering MDX/MNX add-on aux contact blocks, please refer page No.8
3) For ordering MNX surge suppressor and MIL kit, please refer page No.9
4) For ordering Suffix, please refer page No.10
5) Standard coil voltage: MDX - 24V, 48V, 110V and 220V DC
6) Standard coil voltage: MNX 2P - 240V, 50Hz
7) For DC power ratings refer catalogue
8) For MDX side add-on and top add-on can not be mounted together

3 Pole Power Contactors [8536]

3 Pole Power Contactors - Type MX Mini

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- AC/DC Contactor in 45mm width
- Base as well as DIN Rail mounting facility
- Built-in Surge Suppressor in MX DC

MX 06

AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contact	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For AC control (Std. Coil Voltage - 24, 110, 240, 415V, 50Hz)						
6A	20A	MX 06	1 NO	**CS94012**	**1260**	10
6A	20A	MX 06	1 NC	**CS94013**	**1260**	10
9A	20A	MX 09	1 NO	**CS94014**	**1300**	10
9A	20A	MX 09	1 NC	**CS94015**	**1300**	10
12A	20A	MX 12	1 NO	**CS94016**	**1430**	10
12A	20A	MX 12	1 NC	**CS94017**	**1430**	10
For DC control (Std. Coil Voltage - 24, 110, 220V)						
6A	20A	MX 06	1 NO	**CS94021**	**1960**	10
6A	20A	MX 06	1 NC	**CS94022**	**1960**	10
9A	20A	MX 09	1 NO	**CS94023**	**2080**	10
9A	20A	MX 09	1 NC	**CS94024**	**2080**	10
12A	20A	MX 12	1 NO	**CS94025**	**2330**	10
12A	20A	MX 12	1 NC	**CS94026**	**2330**	10

3 Pole Power Contactors - Type ML

Features

- Conforms to IS/IEC 60947-4-1 & IEC 60947-4-1
- Range from 25 - 300A AC-3
- Robust and suitable for hostile applications

ML 1.5

ML 3

Size	AC3 Rating (A)	AC1 Rating (A)	Type	Aux. Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	25	25	ML 1.5	2 NO + 2 NC	**SS91851**	**4940**	1
Fr 2	32	40	ML 2	2 NO + 2 NC	**SS90701**	**9170**	1
	40	45	ML 3	2 NO + 2 NC	**SS90721**	**13530**	1
Fr 3	70	100	ML 4	2 NO + 2 NC	**SS90910**	**22110**	1
	110	125	ML 6	2 NO + 2 NC	**SS90921**	**34980**	1
Fr 4	300	400	ML 12	2 NO + 2 NC	**SS91010**	**79200**	1

Notes:
1) For ordering MX add-on aux contact blocks, please refer page No.8
2) For ordering ML add-on aux contact blocks, please refer page No.9
3) For ordering MX surge suppressor and MIL kit, please refer page No.9
4) For Ordering Suffix, please refer page No.10
5) Standard Coil Voltage : ML 1.5/2/3 - 110V, 240V and 440V, 50 Hz
   ML 4/6/12 - 110V, 240V and 415V, 50 Hz

4 Pole Power Contactors [8536]

4 Pole Power Contactors - Type MCX

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Range from 18A - 900A
- Wide operating band up to 130A AC-1

MCX 22

MCX 34

MCX 47

Size	AC-1 Rating (A)	Type	Aux Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	18	MCX 01	#	CS97009	1270	10
	25	MCX 02	#	CS97010	1320	10
	32	MCX 03	#	CS97011	1430	10
	40	MCX 04	#	CS97012	2010	10
Fr 2	55	MCX 11	#	CS97013	2660	1
	63	MCX 12	#	CS97014	5320	1
	80	MCX 13	#	CS97015	8220	1
Fr 3	105	MCX 22	#	CS97017	11070	1
	130	MCX 23	#	CS97018	13120	1
Fr 4	160	MCX 32	2 NO + 2 NC	CS97020	21630	1
	200	MCX 33	2 NO + 2 NC	CS97021	26440	1
	255	MCX 34	2 NO + 2 NC	CS97022	32490	1
Fr 5	325	MCX 41	2 NO + 2 NC	CS97023	52780	1
	360	MCX 42	2 NO + 2 NC	CS97024	57680	1
	400	MCX 43	2 NO + 2 NC	CS97025	66950	1
	560	MCX 44	2 NO + 2 NC	CS97026	84770	1
	600	MCX 45	2 NO + 2 NC	CS97027	100320	1
	700	MCX 46	2 NO + 2 NC	CS97028	112580	1
	900	MCX 47	2 NO + 2 NC	CS94291	158400	1

AST System Components [9032]

Automatic Transfer Controllers (ATC)

AuXC-2000 Controller

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-2000 Controller	ATC20000000	33200	1
AuXC-2100 Controller** with Optional RS485	ATC21000000	66200	1
RS485 Module for AuXC-2100 Controller**	ETACONRS485	13200	1

Can be used along with ACB, Motorised MCCBs, MCX contactors & Motorised Changeover switches

** **Note:** RS485 expansion module needs to be ordered with AuXC-2100 for communication

For AuXC 2000/2100 programming videos and more details please scan the QR code or click here

Notes for MCX:

1) # Add on blocks can be ordered separately.
2) For ordering MCX add-on aux contact blocks, please refer page No.8
3) For ordering MCX surge suppressor and MIL kit, please refer page No.9
4) For Ordering Suffix, please refer page No.10
5) Standard Coil Voltage: MCX - 220V, 240V and 415V 50Hz
6) Mounting of side add-on aux. contact block is not recommended for mechanically interlocked MCX 11/12/13 contactors
7) MCX 01-04 and MCX 11-13 available in 48V DC coil. Contact nearest branch for more details.
8) MCX 01-04 available with 2NO+2NC power contacts. Contact nearest branch for more details.

To avoid coil failure due to neutral floating, it is recommended to use 415V coil

Control Relays (Auxiliary Contactors) [8536]

Type MX0 AC

MX0 22E

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Available with AC or DC control in same dimension
- Inbuilt Surge Suppressor in MX DC

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For AC control std. Coil Voltage - 24, 110, 240, 415V, 50Hz				
AC-15 4A at 415V	MX0 40E (4 NO)	CS94018	1500	10
	MX0 31E (3 NO + 1 NC)	CS94019	1500	10
	MX0 22E (2 NO + 2 NC)	CS94020	1500	10
	MX0 13E (1 NO + 3 NC)	CS94041	1500	10
	MX0 04E (4 NC)	CS94042	1500	10

Type MX0 DC

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For DC control std. Coil Voltage - 24, 110, 220V				
AC-15 4A at 415V	MX0 40E (4 NO)	CS94027	1970	10
	MX0 31E (3 NO + 1 NC)	CS94028	1970	10
	MX0 22E (2 NO + 2 NC)	CS94029	1970	10
	MX0 13E (1 NO + 3 NC)	CS94043	1970	10
	MX0 04E (4 NC)	CS94044	1970	10

Notes: 1) For Ordering Suffix, please refer page No.10
2) 5 NC & above combinations are not recommended for MX0 DC Control Contactors
3) 1 NO + 3 NC, 4 NC add on block combinations are not recommended for MX0 DC Control Contactors.

Type MO0 AC

MO0 AC

Features

- Same add-on aux. contact block in MO0 as of MO power contactors
- Common coil for 50 & 60Hz application

Rated Current	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
For AC control std. Coil Voltage - 24, 110, 240, 415V, 50Hz				
AC-15 4A at 415V	MO0 40E (4NO)	CS91623	955	10
	MO0 31E (3NO + 1NC)	CS91624	955	10
	MO0 22E (2NO + 2NC)	CS91625	955	10

Note: 6NC & above combination is not recommended for MO0 AC
For ordering add-on contact blocks of MX0, MO0, please refer page no.8

Type MO0 DC

MO0 DC

Features

- Same add-on aux. contact block in MO0 as of MO power contactors
- Inbuilt Surge Suppressor in MO0 DC

Rated Current	Description	Cat. No.	M.R.P. (`) Per Unit	Std. Pkg. (Nos.)
For DC control std. Coil Voltage - 24, 48, 110, 220				
AC-15 4A at 415 V	MO0 40E (4NO)	CS90045	2130	10
	MO0 31E (3NO + 1NC)	CS90046	2130	10
	MO0 22E (2NO + 2NC)	CS90047	2130	10

Note: 5NC & above combination is not recommended for MO0 DC
For ordering add-on contact blocks of MX0, MO0, please refer page no.8

Capacitor Duty Contactors [8536]

Capacitor Duty Contactors - Type MO C

MO C50

MO C100

Size	kVAr Rating @ 440V, 3Ph, 50Hz	Type	Built-in Auxiliary Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	3	MO C3	1NO	**CS96146**	**2240**	1
	5	MO C5	1NO	**CS96127**	**2340**	1
	8.5	MO C8.5	1NO	**CS96320**	**2660**	1
	10	MO C10	1NO	**CS96156**	**2840**	1
	12.5	MO C12.5	1NO	**CS96321**	**3030**	1
	15	MO C15	1NO	**CS90019**	**3940**	1
	20	MO C20	1NO	**CS90021**	**4580**	1
	25	MO C25▲	1NO	**CS96322**	**5180**	1
	30	MO C30$	1NO	**CS96148**	**7990**	1
Fr 2	40	MO C40	1NO	**CS96147**	**13420**	1
	50	MO C50	1NO	**CS96324**	**14340**	1
	60	MO C60$	1NO	**CS96149**	**16190**	1
Fr 3	75	MO C75	1NO	**CS96150**	**19050**	1
	85	MO C85	1NO	**CS96157**	**19200**	1
	100	MO C100$	1NO	**CS96158**	**19800**	1

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- MO C Range available from 3 -100 kVAr, AC-6b
- Delatching type early make contacts
- Separate termination for damping resistors
- Encapsulated damping resistor assembly
- Common coil for 50 & 60Hz application
- Low pick-up VA consumption
- Standard accessories throughout the range in line with MO contactor
- Suitable for Lug as well as Lugless termination
- **RoHS** compliant

For Power Quality Solutions, please refer page No. 84-92

Note:

1) For ordering add-on aux. contact block, please refer page No.8
2) For ordering suffix, please refer page No.10
3) For ordering spare coils, please refer page No.11
4) Standard coil voltage : 240V, 50/60 Hz
5) For ordering MO C surge suppressor, please refer page No.9

▲ If using 16 sq mm cable use of spreader link kit is mandatory
▲ For ordering spreader link kit, Please refer page No.9
$ Spreader link along with phase barrier included in packing

Definite Purpose Contactors [8536]

Single Pole Contactors - Type MR

Features

- Wide and chatter free operating band
- High AC-1 rating for single phase applications

MR 11W
(Wide band coil)

MR 13

MR 11NW
SPN (Wide band coil)

AC3 Rating (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
25A	MR 11W	**CS94176**	**1320**	10
25A	MR 11NW	**CS94178**	**1410**	10
40A	MR 13	**CS94992**	**1440**	40

Note:

1) Ordering Suffix BOOO - 240V, 50Hz
2) For ordering add-on aux. contact block, please refer page No.9

Two Pole Contactors - Type MU-2P

Features

- Wide band potted coil
- Neutral isolation

MU 16-2P

AC3 Rating (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
16A	MU16-2P	**CS90117**	**1050**	10
25A	MU25-2P	**CS90118**	**1280**	10
40A	MU40-2P	**CS90119**	**1630**	10

Note:

1) Coil voltages available for MU-2P are 220V, 240V, wide band coil 160-220V
2) Ordering suffix for wide band coil of MU-2P is NOOO
3) For ordering add-on aux. contact block, please refer page No.8

Accessories - Add-on Auxiliary Contact Blocks [8538]

	MNX 9-80	MNX 95-650	MO 9-110	MO 140-300	ML	MX	MDX 9-110	MCX 01-23	MCX 32-47	MX0	MO0	MO C	MR	MU-2P
Front add-on possible	Yes	No	Yes	No	No	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes
Side add-on possible	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No	No	Yes	No	No

Note: 1) Mounting of side add-on aux. contact block is not recommended for mechanically interlocked MCX 11/12/13 contactors
2) Accessories are common for MNX 2P & MNX 3P contactors

Front Mounting
Add-on aux. Contact Block

MNX / MCX Front Add-on aux. contact Block

MO / MO0 Front Add-on aux. contact Block

MDX Front Add-on aux. contact Block

MX Front Add-on aux. contact Block

MU-2P Front Add-on aux. contact Block

Front Mounting	Suitable for									
	MNX 9-80 / MCX 01-23	M.R.P. (₹) Per Unit	MO 9-110 / MO0	M.R.P. (₹) Per Unit	MDX# 9-110	M.R.P. (₹) Per Unit	MX 0/6/9/12	M.R.P. (₹) Per Unit	MU-2P	M.R.P. (₹) Per Unit
4 NO	CS94112^	655	CS94594^	655	-	-	Cs94033^	620	-	-
3 NO + 1 NC	CS94113^	655	CS94595^	655	-	-	CS94034^	620	-	-
2 NO + 2 NC	CS94114^	655	CS94596^	655	CS96569~	860	CS94035^	620	-	-
1 NO + 3 NC	CS94115^	655	CS94597^	655	CS90906~	860	CS94036^	620	-	-
4 NC	CS94116^	655	CS94598^	655	-	-	CS94037^	620	-	-
2 NO	CS94117^	435	CS94591^^	435	-	-	CS94030^	400	CS90692^	435
1 NO + 1 NC	CS94118^	435	CS94592^^	435	CS96568~	505	CS94031^	400	CS90693^	435
2 NC	CS94119^	435	CS94593^^	435	-	-	CS94032^	400	CS90694^	435
1 NO	CS94120^	225	Cs94585^^	225	CS96586~	280	-	-	CS90695^	225
1 NC	CS94121^	225	CS94586^^	225			-	-	CS90696^	225

#For MDX Side add-on and top add-on can not be mounted together

Side Mounting
Add-on aux. Contact Block

MNX/MCX Side Add-on aux. contact Block

MO/MO C Left Add-on aux. contact Block

Side Mounting	Suitable for								
	Aux Contact	MNX 9-40/ MCX 01-04	M.R.P. (₹) Per Unit	MCX 11-13	M.R.P. (₹) Per Unit	MNX 50-80/ MCX 22-23	M.R.P. (₹) Per Unit	MO 9-110/ MO C 3-100	M.R.P. (₹) Per Unit
First left	1 NO+1 NC	CS94220^	700	CS94201^	750	CS94201^	750	CS94580^	700
First Right	1 NO+1 NC	CS94221^	700	CS94202^	750	CS94202^	750	CS94581^	700
Second Left	1 NO+1 NC	-	-	-	-	CS94203^	750	CS94582^	700
Second right	1 NO+1 NC	-	-	-	-	CS94204^	750	CS94583^	700

Note: Mounting of side add-on aux. contact block is not recommended for mechanically interlocked MCX 11/12/13 contactors
For MO 9-18, only First left and Second left side add-on is allowed.

Side Mounting
Add-on aux. Contact Block

MDX Side Add-on aux. contact Block

Side Mounting	Suitable for						
	Aux Contact	MNX 95-650/ MCX 32-47	M.R.P. (₹) Per Unit	MO 140-300	M.R.P. (₹) Per Unit	MDX# 9-110	M.R.P. (₹) Per Unit
First left	1 NO+1 NC	CS94205^	855	CS95033^	855	ST94985^	1030
First Right	1 NO+1 NC	CS94206^	855	CS95034^	855		
Second Left	1 NO+1 NC	CS94207^	855	CS95035^	855	-	-
Second right	1 NO+1 NC	CS94208^	855	CS95036^	855	-	-

For MDX Side add-on and top add-on can not be mounted together
-Standard Packing is 1 ^Standard Packing is 10 ^^Standard Packing is 20

Accessories - Add-on Auxiliary Contact Blocks [8538]

Side Mounting Add-on aux. Contact Block - ML

ML Add-on aux. contact Block

Side Mounting	Suitable for				
	Aux Contact	ML 4/6	M.R.P. (₹) Per Unit	ML 12	M.R.P. (₹) Per Unit
Left	1 NO + 1 NC	SS91494^	1060	-	-
Right	1 NO + 1 NC	-	-	SS91474^	1060

Note: Ordering Suffix for Add-on aux. contact blocks : OOOO

Add-on aux. Contact Block - MR

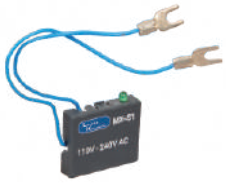
MR 1NO

Description	For Contactor	Contacts Type	Cat. No.	M.R.P. (₹) Per Unit
Top add-on single pole	MR	1 NO	CS94179^	330

~ Standard Packing is 1 ^Standard Packing is 10 ^^Standard Packing is 20

Accessories - Surge Suppressors [8538]

For MX, MNX, MCX, MO & MO C



MX - S1

Ordering Suffix * 110-240V: BOOO, 415V: DOOO
110V: AOOO, 220-240V: BOOO, 360-525V: DOOO
^ 110V: AOOO, 220-320V: BOOO, 360-415V: DOOO

MDX 9-110, MNX 550-650, MCX 45-47, MX DC, MX0 DC & MO0 DC have built in surge suppressor

For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX 06 to MX 12 / MX 0 AC (S1)	CS94039*	555	10
MNX 9 - 40 / MCX 01 - 04 (S1)	CS94166*	560	10
MNX 50 - 80 / MCX 11 - 23 (S3)	CS94163*	625	10
MNX 95 - 250 / MCX 32 - 34 (S4)	CS94164#	2060	10
MNX 300 - 400 / MCX 41 - 44 (S6)	CS94165#	2780	10
MO Frame 0/1, MO C Frame 1, MO0 Control	CS91706^	560	10
MO/MO C - Frame 2	CS91707^	625	10
MO/MO C - Frame 3	CS91708^	2060	10
MO Frame - 4/5	CS91854^	2780	10

Accessories - Mechanical Interlock Kits & Spreader Link Kit [8538]

Mechanical Interlock Kit for MX, MO, MDX, MNX & MCX

MCX M3 (MCX 22)

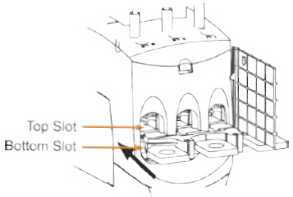
For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MX 06 to MX 12 / MX 0	CS94038	555	10
MO 9 - 110*	CS94584	790	10
MDX 9 - 38	CS96572	655	1
MDX 50 - 110	CS96573	2000	1
MNX 9 - 40	CS94126	450	10
MNX 50 - 80	CS94197	3180	1
MNX 95 - 140	CS94198	4950	1
MNX 185 - 250	CS94199	5640	1
MNX 300 - 650	CS94200	6380	1
MCX 01 - 04	CS94126	450	10
MCX 11 - 13	ST50540	895	10
MCX 22 - 23	CS93095	4200	1
MCX 32 - 34	SS94992	4340	1
MCX 41 - 47	CS94301	7160	1

Note:
1) Ordering Suffix for Mechanical Interlock Kits : OOOO
2) *MO MIL Kit contains inbuilt 2 NC Contacts
3) Mounting of side add-on aux. contact block is not recommended for mechanically interlocked MCX 11/12/13 contactors
4) MIL kit for MNX 50-80 comes with 2 left & 2 right side add-on aux. contact blocks i.e. 4 NO + 4 NC
5) MIL kit for MCX 22/23 comes with 2 left & 2 right side add-on aux. contact blocks i.e. 4 NO + 4 NC

MO / MO C Spreader Link Kit

For Contactor	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MO 9 - 45 / MOC 3 - 30	CS94274	525	10
MO 50 - 70 / MOC 40 - 60	CS94093	830	10
MO 80 - 110 / MOC 75 - 100	CS94094	1200	1
MO 140 - 225	CS91057	3360	1
MO 250 - 300	CS90940	5240	1

Note:
1) If using 16 sq mm cable for MO 45/ MO C25 use of spreader link is mandatory
2) Spreader Link Kit consists of six terminals along with phase barrier (Not applicable for MO 250-300)
3) In MO C 30, MO C 60 & MO C 100 spreader link is included in packing
4) Ordering Suffix: OOOO
⚠ **5) Insert spreader link in top slot only**



Accessories - Connecting Links [8538]

DOL Starter - Link

Contactor MMS Link

Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	**CS90396 #**	**435**	10
MOG H1/S1 with MO 25-45	**CS90391 #**	**435**	10

Reversing DOL Starter - Link

Reversing Starter

Paralleling Link

Contactor MMS Link

Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	**CS90548 #**	**1090**	10
MOG H1/S1 with MO 25-45	**CS90546 #**	**1090**	10

Star Delta Starter - Link

Reversing / star delta Link

Paralleling Link

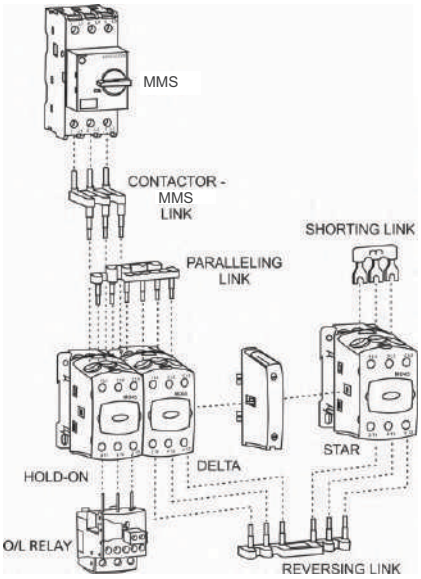
Contactor MMS Link

Shorting Link

Suitable For	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MOG H1/S1 with MO 9-18	**CS90549 #**	**1310**	10
MOG H1/S1 with MO 25-45	**CS90547 #**	**1310**	10

#Ordering Suffix OOOO

Example of Star Delta Starter Connection with Link



Accessories - Mechanical Latch [8538]

Mechanical Latch

Features

- Keeps contactor in closed condition even after removal of coil supply
- Ideal for logical operations
- Suitable for sites where voltage fluctuation is frequent
- Saves energy as coil supply can be removed once contactor is picked up

Suitable For	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MO 9-70A, MO 0 control	Mechanical Latch	**CS90136**	**2920**	10

For Ordering Suffix refer below table

Standard Coil Voltage of Mechanical Latch is 24V AC, 110V AC & 240V AC

Ordering Suffix for Standard Coil Voltages

Ordering Suffix for Standard Coil Voltages			
AC Control		**DC Control***	
Voltage (V)	Suffix	Voltage (V)	Suffix
24	GOOO	24	4OOO
110	AOOO	48	5OOO
220	KOOO	110	1OOO
240	BOOO	220	2OOO
415	DOOO		
440	POOO		

Ordering suffix for Electronic coil Contactor		
AC / DC control		
Voltage (V)	**Suffix**	**Contactor**
20-48	JOOO	MDX 50-110
60-110	AOOO	MDX 50-110
110-240	BOOO	MDX 50-110 & MO 140-300
240-415	DOOO	MO 140-300

Note:

1) * For MX DC, MDX 9-38, MX0 DC, MO0 DC

2) For other coil voltages please contact nearest branch office

Spare Contact Kit and Spare Coil

ML Spare Kits

ML Spare Coils

Type	Spare Contact kit		Spare Coil	
	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
ML 1.5	SS95305^	2435	SS90873 ^	970
ML 2	SS95307^	4450	SS90545 ^	1790
ML 3	SS95309^	7865		
ML 4	SS95311^	11655	SS91258 ~	3510
ML 6	SS95313^	21560		
ML 10	SS95315~	42000	SS91011 ~	7480
ML 12	SS95317~	45255		
MR	-	-	CS94102 ^	735
MU16-2P	CS90217^	320		
MU25-2P	CS90218^	420	CS90793 ^	405
MU40-2P	CS90219^	605		
MO 0 AC	-	-	CS94841 ^	540

Note:
1) Coil voltages available for MU-2P are 220V, 240V, wide band coil 160-220V
2) Ordering suffix for wide band coil of MU-2P is NOOO

MO C Spare Coils		
Type	Cat. No.	M.R.P. (₹) Per Unit
MO C3 - 30	CS96317^	670
MO C40 - 60	CS96318^	2060
MO C75 - 100	CS96319^	3560

Front housing & Moving bridge kit and Combination coil with timer for ML contactor

Front housing and moving bridge kit		
Type	Cat. No.	M.R.P. (₹) Per Unit
ML 1.5	ST28734~	925
ML 2/ ML 3	ST23866~	1270
ML 4/ ML 6	ST28735~	2300
Combination coil with timer		
Type	Cat. No.	M.R.P. (₹) Per Unit
ML 2	SS90650~	4150

Note:
1) Ordering Suffix for Spare Contact kit - OOOO
2) For Spare Coil Ordering Suffix refer page No. 10

~ Standard Packing is 1
^~ Standard Packing is 5
^ Standard Packing is 10
~~ Standard Packing is 50

Spare Contact Kit and Spare Coil

MNX Spare Coils

MCX Spare Kits

	Type	Spare Contact kit		Spare Coil	
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
MO Contactors	MO 9 (1 NO + 1 NC)	CS94843^	600	CS94841^	540
	MO 12 (1 NO + 1 NC)	CS94844^	780		
	MO 18 (1 NO + 1 NC)	CS94845^	855		
	MO 9	CS96380^~	600	CS96317^	670
	MO 12	CS96381^~	780		
	MO 18	CS96382^~	855		
	MO 25	CS96383^~	975		
	MO 32	CS96384^~	2215		
	MO 40	CS96385^~	3735		
	MO 45	CS96386^~	3780		
	MO 50	CS96387^~	3895	CS96318^	2060
	MO 60	CS96388^~	5040		
	MO 70	CS96389^~	5600		
	MO 80	CS96390^~	7700	CS96319^	3560
	MO 95	CS96391^~	9715		
	MO 110	CS96392^~	14190		
	MO 140	CS90357~	17050	CS90356~	8280
	MO 185	CS90358~	20460		
	MO 225	CS90359~	23430		
	MO 250	CS94444~	28160	CS94442~	12300
	MO 300	CS94443~	31790		
	MO 140 (electronic coil)	CS90357~	17050	CS90855~	15000
	MO 185 (electronic coil)	CS90358~	20460		
	MO 225 (electronic coil)	CS90359~	23430		
	MO 250 (electronic coil)	CS94444~	28160	CS90738~	15100
	MO 300 (electronic coil)	CS94443~	31790		
MVO	MVO	-	-	CS90174~	33600
MNX Contactors	MNX 9	CS94123^	555	CS94105^	525
	MNX 12	CS94124^	720		
	MNX 18	CS94125^	790		
	MNX 22	CS94269^	885		
	MNX 25	CS94127^	905		
	MNX 32	CS94128^	2110		
	MNX 40	CS94147^	3565		
	MNX 50	CS94150^	3645	CS94192^	1930
	MNX 70	CS94151^	5395		
	MNX 80	CS94152^	7420		
	MNX 95	CS94153~	9535	CS94196~	3400
	MNX 110	CS94154~	13930		
	MNX 140	CS94155~	16740		
	MNX 185	CS94156~	19345	CS94194~	7760
	MNX 225	CS94157~	22365		
	MNX 250	CS90310~	26625		
	MNX 300	CS90283~	29765	CS94195~	11550
	MNX 400	CS94161~	44520		
	MNX 550	CS94162~	59815	CS94193~	24300
	MNX 650	CS96336~	92555		
MCX Contactors	MCX 01-04	-	-	CS94105^	525
	MCX 11	CS94077^	1800	CS94009^	695
	MCX 12	CS94078^	3530		
	MCX 13	CS90307^	5465		
	MCX 22	CS94331~	6595	ST91291*~	1730
	MCX 23	CS90078~	8170		
	MCX 32	CS94082^	12485	CS94196~	3400
	MCX 33	CS94083^	16140		
	MCX 34	CS94084^	18900		
	MCX 41	CS94295~	28380	CS94195~	11550
	MCX 42	CS94296~	33000		
	MCX 43	CS94297~	39600		
	MCX 44	CS94298~	50060		
	MCX 45	CS94299~	52835	CS94193~	24300
	MCX 46	CS94300~	61405		
	MCX 47	CS90308~	85470		

* Ordering Suffix for 240V AC - FOOO, 415V AC - ROOO

Type MN - Suitable for MNX Contactor

Features

- Available in 3 frame sizes from 0.2-570 A
- Ambient temperature compensated up to 55°C
- Built-in Single Phasing protection
- Manual and auto reset mode
- Conforms IS/IEC 60947-4-1 & IEC 60947-4-1

MN 2

MN 5

MN 12

MN 12L

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MN 2 (Directly Operated)	Direct Mounting on MNX 9 - 40			
	0.2 - 0.33	SS94141OOEO	1740	10
	0.3 - 0.5	SS94141OOGO	1740	10
	0.45 - 0.75	SS94141OOJO	1740	10
	0.6 - 1	SS94141OOKO	1740	10
	0.9 - 1.5	SS94141OOMO	1750	10
	1.4 - 2.3	SS94141OOPO	1750	10
	2 - 3.3	SS94141OOQO	1750	10
	3 - 5	SS94141OOSO	1750	10
	4.5 - 7.5	SS94141OOUO	1750	10
	6 - 10	SS94142OOVO	1750	10
	9 - 15	SS94142OOBO	1810	10
	14 - 23	SS94144OODO	1960	10
	20 - 33	SS94145OOEO	2890	10
	24 - 40	SS94145OOFO	3040	10
MN 5 (Directly Operated)	Direct Mounting on MNX 50 - 80			
	9 - 15	SS94135OOBO	3600	10
	14 - 23	SS94135OODO	3600	10
	20 - 33	SS94136OOEO	3600	10
	30 - 50	SS94136OOGO	4490	10
	36 - 60	SS94136OOTO	4770	10
	45 - 75	SS94137OOJO	5140	10
	66 - 110	SS94137OOKO	5860	10
MN 12 (CT Operated)	Separate Mounting			
	28 - 46.5	SB94211OOGO	8540	1
	42 - 69	SS94138OOHO	8540	1
	60 - 100	SS94138OOKO	8540	1
	90 - 150	SS94138OOMO	8540	1
	135 - 225	SS94138OOPO	10300	1
	180 - 300	SS94139OOQO	11180	1
	270 - 450	SS94139OORO	14030	1
MN 12L # (CT Operated)	Separate Mounting			
	42 - 69	SS94127OOHO	27320	1
	60 - 100	SS94127OOKO	27320	1
	90 - 150	SS94127OOMO	27320	1
	135 - 225	SS94127OOPO	27320	1
	180 - 300	SS94127OOQO	27320	1
	340 - 570	SS94127OOSO	27320	1

For motors with longer starting time (Trip class 30)

Type RTO - Suitable for MO Contactor

Features

- Ambient temperature compensated upto 55°C
- Built-in Single Phasing protection
- Manual and auto reset mode
- Front access to START and STOP/RESET buttons
- Sealable in OFF condition
- Conforms IS/IEC 60947-4-1 & IEC 60947-4-1

RTO 1

RTO 2

RTO 3

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
RTO - 1 (Directly Operated)	Direct Mounting on MO 9 - 45			
	0.23 - 0.41	CS96355OOFO	2440	10
	0.31 - 0.55	CS96355OOGO	2440	10
	0.55 - 0.85	CS96355OOJO	2440	10
	0.78 - 1.2	CS96355OOLO	2440	10
	1.2 - 2.0	CS96355OONO	2440	10
	1.9 - 2.8	CS96355OOPO	2470	10
	2.4 - 3.6	CS96355OOQO	2470	10
	3.5 - 5.2	CS96355OOSO	2470	10
	4.6 - 6.7	CS96355OOTO	2470	10
	6.7 - 9.7	CS96355OOVO	2470	10
	8.5 - 12.5	CS96355OOAO	2510	10
	12.5 - 18.5	CS96356OOCO	2510	10
	17 - 25.5	CS96356OODO	2680	10
	25 - 37	CS96356OOEO	3940	10
	35 - 45	CS96356OOGO	4140	10
RTO - 2 (Directly Operated)	Direct Mounting on MO 50 - 70			
	5 - 7.5	CS96366OOUO	4760	1
	7 - 11	CS96366OOVO	4760	1
	10.5 - 16	CS96366OOBO	4760	1
	15 - 21	CS96366OOCO	4760	1
	20 - 31	CS96366OOEO	4960	1
	30 - 43	CS96366OOFO	5990	1
	40 - 57	CS96366OOSO	6550	1
	50 - 75	CS96367OOJO	6880	1
RTO - 3 (Directly Operated)	Direct Mounting on MO 80 - 110			
	23 - 30	CS90873OOEO	7780	1
	29 - 38	CS96303OOQO	8080	1
	37 - 49	CS96304OOGO	8330	1
	47 - 62	CS96312OOTO	8490	1
	60 - 78	CS96313OOJO	10000	1
	75 - 110	CS96314OOKO	10920	1
RTO - 4 (CT Operated)	Separate Mounting			
	23.4 - 36	CS97096OOGO	11770	1
	36 - 60	CS97096OOJO	11770	1
	57 - 84	CS97096OOKO	11770	1
	72 - 108	CS97096OOLO	11770	1
	105 - 156	CS97096OOMO	11770	1
	138 - 201	CS97096OONO	14450	1
	201 - 291	CS97096OOQO	15090	1
	255 - 375	CS97096OORO	18830	1

Thermal Overload Relays [8536]

Type RX

Features

- Direct mounting on MX contactor
- Built-in single phasing protection
- Front access to START and STOP/RESET buttons

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
RX (Directly Operated) Direct Mounting on MX Contactors	0.23-0.41	CS96357OOFO	1440	10
	0.45-0.78	CS96357OOJO	1440	10
	0.78-1.2	CS96357OOLO	1440	10
	1.2-1.9	CS96357OONO	1440	10
	1.8-2.8	CS96357OOPO	1440	10
	2.6-3.6	CS96357OOQO	1440	10
	3.6-5.2	CS96357OOSO	1440	10
	4.8-7	CS96357OOTO	1440	10
	6.4-9.7	CS96357OOVO	1440	10
	8.2-12.1	CS96357OOAO	1440	10

Type ML

ML

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
	Direct Mounting on ML 1.5 Contactors			
ML 1 (Directly Operated)	0.15 - 0.25	SS91858OODO	3420	10
	0.25 - 0.4	SS91858OOFO	3420	10
	0.4 - 0.65	SS91858OOHO	3420	10
	0.6 - 1	SS91858OOKO	3420	10
	1 - 1.6	SS91858OOMO	3420	10
	1.5 - 2.5	SS91858OOPO	3420	10
	2.5 - 4	SS91858OORO	3420	10
	4 - 6.5	SS91858OOTO	3420	10
	6 - 10	SS91858OOVO	3420	10
	10 - 16	SS91858OOBO	3420	10
	11 - 18	SS91858OOCO	3420	10
	Direct Mounting on ML 2/3 Contactors			
ML 2 / ML 3 (Directly Operated)	9 - 14	SS91859OOAO	5050	10
	13 - 21	SS91859OOCO	5050	10
	20 - 32	SS91859OOEO	5050	10
	28 - 42	SS91859OOFO	5050	10

Type MU-2P (2 Pole)

MU-2P

Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
	MU 2P (2 Pole)			
Direct Mounting on MU-2P Contactor	1 - 1.6A	CS90207OOMO	760	1
	1.5 - 2.5A	CS90207OOPO	760	1
	2.5 - 4A	CS90207OORO	760	1
	4 - 6.5A	CS90207OOTO	760	1
	6 - 10A	CS90207OOVO	760	1
	9 - 14A	CS90207OOAO	760	1

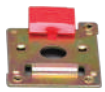
Type of Mounting (Operation)	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
	MU 2P (2 Pole)			
Direct Mounting on MU-2P Contactor	11 - 18A	CS90207OOCO	850	1
	13 - 22A	CS90207OODO	850	1
	16 - 26A	CS90207OOBO	850	1
	20 - 32A	CS90207OOEO	1060	1
	26 - 40A	CS90207OOFO	1060	1

Accessories for Thermal Overload Relays [8538]

Accessories for Thermal Overload Relays

Relay Mounting Kit

Kit for Mounting MN5 Relay



Din Rail Mounting Kit MN2 Relay

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Push button extn. unit for MN 2 Relays	SS949680OOO	70	100
Kit for Mounting MN 2 Relay on ML 1.5 contactor	SS947010OOO	235	50
Kit for Mounting MN 2 Relay separately (Direct Mounting Type)	SS947000OOO	235	50
Kit for Mounting MN 5 Relay on MNX 95 / 110 / 140 contactor	SS946380OOO	380	20
Kit for Mounting MN 5 Relay on ML 2 / ML 3 contactor	SS941510OOO	245	20
Kit for Mounting MN5 Relay on ML 4 / ML 6 contactor	SS941520OOO	335	20
DIN Rail Mounting Kit Relay on MN 2 Relay	SS918870OOO	185	50

Separate Mounting Kit for RTO Relay

Relay Reset Cord for MN & RTO relay

400 mm

650 mm

900 mm

1200 mm

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
MN Relay reset cord - 400mm	SB942070OOO	860	1
MN Relay reset cord - 650mm	SB942080OOO	895	1
MN Relay reset cord - 900mm	SB942090OOO	920	1
MN Relay reset cord - 1200mm	SB942100OOO	1030	1
RTO Relay reset cord - 400mm	CS909410OOO	860	1
RTO Relay reset cord - 650mm	CS909420OOO	895	1
RTO Relay reset cord - 900mm	CS909430OOO	920	1
RTO Relay reset cord - 1200mm	CS909440OOO	1030	1

Description	Cat. No.	M.R.P.(₹) Per Unit	Std. Pkg. (Nos.)
RTO-1 Relay Separate Mounting Kit	CS963350OOO	320	1
RTO-2 Relay Separate Mounting Kit	CS963060OOO	760	1
RTO-3 Relay Separate Mounting Kit	CS963070OOO	1080	1

Type REO - Electronic Overload Relay

To Experience the Benefits of REO Electronic Overload Relay

Click or Scan

Features

- Protections:
  - » Overload
  - » Single Phasing, Phase unbalance
  - » Locked Rotor
  - » Earth Fault in REO 1.1G & REO 4G
- Trip indication
- Selectable Trip class - 10A, 10, 20, 30 as per IEC 60947-4-1
- Conforms IS/IEC 60947-4-1 & IEC 60947-4-1

Model	Type of Mounting	Relay Range (A)	Without earth fault protection		Model	With in-built earth fault protection		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit		Cat. No.	M.R.P. (₹) Per Unit	
REO 1.1	Direct Mounting on MO 9-45	0.15 - 0.75	CS90418OOJO	5790	REO 1.1G	CS90423OOJO	9660	10
		0.6 - 3	CS90418OOQO	5790		CS90423OOQO	9660	10
		2.4 - 12	CS90418OOLO	5790		CS90423OOLO	9660	10
		9 - 45	CS90418OOGO	6510		CS90423OOGO	9990	10
REO 4	Separate Mounting	18-90	CS90418OOUO	17170	REO 4G	CS90423OOUO	16560	1
		72-360	CS90418OORO	23530		CS90423OORO	23620	1

Type REO - Electronic Over Current Relay

Electronic Overcurrent Relay (EOCR) is a type of Electronic relay that has tripping based on Definite mean time characteristics. The tripping of relay is decided by trip time selected by user.

Features

- Protections:
  - » Overload
  - » Single Phasing, Phase unbalance
  - » Locked Rotor
- Settable start time (5s, 10s, 20s, 40s) and trip time (2s, 4s, 8s, 16s)
- Trip indication
- Conforms IS/IEC 60947-4-1 & IEC 60947-4-1

Model	Type of Mounting	Relay Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
REO 1.1c	Direct Mounting on MO 9-45	0.15 - 0.75	CS91911OOJO	7450	1
		0.6 - 3	CS91911OOQO	7450	1
		2.4 - 12	CS91911OOLO	7450	1
		9 - 45	CS91911OOGO	7450	1

Accessories for REO - Electronic Overload Relay

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
REO Relay Reset Cord - 400mm	CS904250OOO	860	1
Separate Mounting Kit for REO 1.1/1.1G/1.1c Relay	CS963350OOO	320	1

MPR200nX
Electronic Motor Protection Relay

- Protections
  - » Overload
  - » Locked Rotor
  - » Single Phasing, Current Unbalance, Phase Sequence Reversal
  - » Under Current
- Inbuilt CT's (1 A to 88 A)
- Trip indication
- Test facility
- Selectable trip class - 10A, 10, 20 and 30 as per IEC 60947-4-1

Model	Aux. supply	Thermal O/L Range (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MPR200nX	240V AC	1 - 2.75	49, 51LR, 37, 46,	MPR200BE010	3600
		2 - 5.5		MPR201BE020	4200
		4 - 11		MPR202BE040	4800
		8 - 22		MPR203BE080	5400
		16 - 44		MPR204BE160	6000
		32 - 88		MPR205BE320	6600
	110V AC	1 - 2.75		MPR200BB010	3600
		2 - 5.5		MPR201BB020	4200
		4 - 11		MPR202BB040	4800
		8 - 22		MPR203BB080	5400
		16 - 44		MPR204BB160	6000
		32 - 88		MPR205BB320	6600

MPR300
Electronic Motor Protection Relay
With in-built Earth Fault Protection

- Protections
  - » Overload
  - » Earth Fault
  - » Locked Rotor
  - » Single Phasing, Current Unbalance, Phase Sequence Reversal
  - » Under Current
- Inbuilt CT's (1 A to 88 A)
- Trip indication
- Test facility
- Selectable trip class - 10A, 10, 20 and 30 as per IEC 60947-4-1

Model	Aux. supply	Thermal O/L Range (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MPR300*	240V AC	1 - 2.75	49, 51LR, 64, 37, 46,	MPR300BE010	7900
		2 - 5.5		MPR301BE020	8500
		4 - 11		MPR302BE040	9100
		8 - 22		MPR303BE080	9700
		16 - 44		MPR304BE160	10300
		32 - 88		MPR305BE320	10900
	110V AC	1 - 2.75		MPR300BB010	7900
		2 - 5.5		MPR301BB020	8500
		4 - 11		MPR302BB040	9100
		8 - 22		MPR303BB080	9700
		16 - 44		MPR304BB160	10300
		32 - 88		MPR305BB320	10900

Note: MPR200nX / MPR300 must sense Line current in case of Star-Delta Starter.

* Available till stock lasts

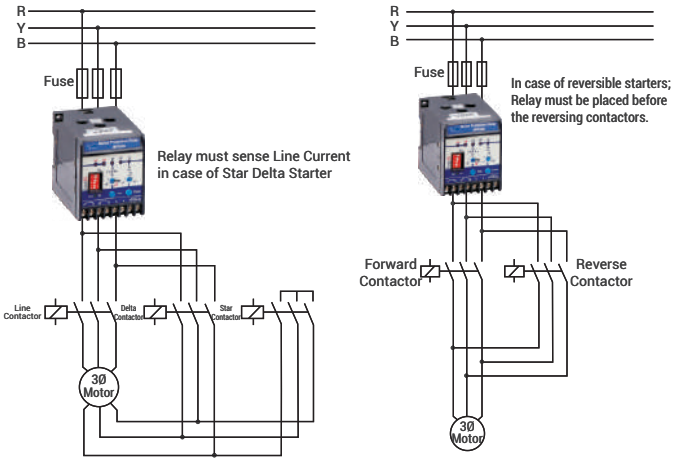
MPR300 with Fail safe logic

MPR300 with Fail safe logic will trip the Motor in case of Aux. supply failure

Model	Aux. Supply	Thermal Over load range	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MPR300*	240 VAC	1 - 2.75	49, 51LR, 64, 37, 46	**MPR300BF010**	**7900**
		2 - 5.5		**MPR301BF020**	**8500**
		4 - 11		**MPR302BF040**	**9100**
		8 - 22		**MPR303BF080**	**9700**
		16 - 44		**MPR304BF160**	**10300**
		32 - 88		**MPR305BF320**	**10900**

Note: MPR300 must sense line current in case of Star-Delta Starter.
* Available till stock lasts

MPR200nX / MPR300 Application Diagram



MPR200nX / MPR300 Trip Time Characteristics

Trip class	Trip time delay		
	I = 120% of Im	I = 150% of Im	I = 720% of Im
10A	< 2 hours	< 2 min	2 - 10 secs
10	< 2 hours	< 4 min	4 - 10 secs
20	< 2 hours	< 6 min	6 - 20 secs
30	< 2 hours	< 12 min	9 - 30 secs

Im - Motor Full Load Current
I - Actual current drawn by the Motor

Compact Motor Protection Relay - MM10

Features

- Flush Mounting with display
- Last trip data recording
- Protections:
  - » Thermal Overload with pre-alarm
  - » Short Circuit
  - » Earth fault
  - » Phase loss, Unbalance, Phase reversal
  - » Under Current
  - » Prolong starting, Locked Rotor

Model	Aux. Supply	CT# secondary	Device code	Cat. No.	M.R.P. (₹) Per Unit
MM10	110 - 240 V AC / DC	5 Amp	37, 46, 49, 50 / 51, 51LR, 64	**MM10240E005**	**32800**

Protection Class CT

MC2 - 30M / MC2 - 30MW

Comprehensive Motor Protection Relay for Medium and Large Sized Induction Motors

- Modbus RTU / IEC870-5-103 Communication Protocol
- MC2-30M offers Current based protections whereas, MC2-30MW offers Current + Voltage based protections

Product	Aux. Supply	CT# Secondary	Cat. No.	M.R.P. (₹) Per Unit
**MC2-30M	24 to 110VAC/DC	1 / 5 Ampere Site selectable	**MC230MAOOO**	**160000**
	80 to 220VAC/DC		**MC230MBOOO**	**160000**
**MC2-30MW	24 to 110VAC/DC		**MC230MWAOO**	**180000**
	80 to 220VAC/DC		**MC230MWBOO**	**180000**

** MC2-30M & MC2-30MW are long lead items. Contact nearest branch for delivery schedule & technical specs before ordering.

** Available till stock lasts

Protection Class CT

Lauritz Knudsen
Electrical & Automation

eMPR150 and eMPR300

Microcontroller based Motor Protection relay with inbuilt CTs

Protect Your Motors, Enhance Plant Performance !!

eMPR150 | eMPR300

- Electronic Overload Protection
- Current rating 1 to 88 Amp
- Site selectable - Fail-safe / Non Fail-safe mode

Customer Interaction Center (CIC)
Phone no: 022 6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

Microcontroller based Motor Protection Relay [8536] New

eMPR150 – Electronic Motor Protection Relay

- **Protections**
  - ›› Overload
  - ›› Locked Rotor
  - ›› Single Phasing, Current Unbalance,
  - ›› Under Current
- **Inbuilt CT's (1 A to 88 A)**
- **Trip indication**
- **Test facility**
- **Site Selectable – Fail-safe / Non Fail-safe mode**
- **Selectable trip class - 10A, 10, 20 and 30 as per IEC 60947-4-1**

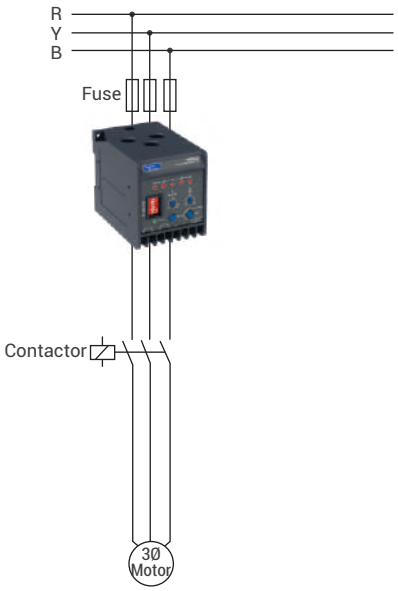
eMPR300 – Electronic Motor Protection Relay with Built-in Earth Fault Protection

- **Protections**
  - ›› Overload
  - ›› Locked Rotor
  - ›› Single Phasing, Current Unbalance,
  - ›› Under Current
  - ›› Earth Fault
  - ›› Phase Sequence Reversal
- **Inbuilt CT's (1 A to 88 A)**
- **Trip indication**
- **Test facility**
- **Site Selectable Phase Sequence - RYB/ RBY**
- **Site Selectable – Fail-safe / Non Fail-safe mode**
- **Selectable trip class - 10A, 10, 20 and 30 as per IEC 60947-4-1**

Model	Aux.Supply	Thermal O/L Range (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
eMPR150	110V AC	1-5.5	49, 51LR, 37, 46	EMPR150XAAO	3300
		4-22		EMPR150XABO	4800
		16-88		EMPR150XACO	6300
	230V AC	1-5.5		EMPR150XBAO	3300
		4-22		EMPR150XBBO	4800
		16-88		EMPR150XBCO	6300

Model	Aux.Supply	Thermal O/L Range (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
eMPR300	110V AC	1-5.5	49, 51LR, 64, 37, 46	EMPR300XAAO	8500
		4-22		EMPR300XABO	10000
		16-88		EMPR300XACO	11900
	230V AC	1-5.5		EMPR300XBAO	8500
		4-22		EMPR300XBBO	10000
		16-88		EMPR300XBCO	11900

eMPR150 & eMPR300 – Application Schemes



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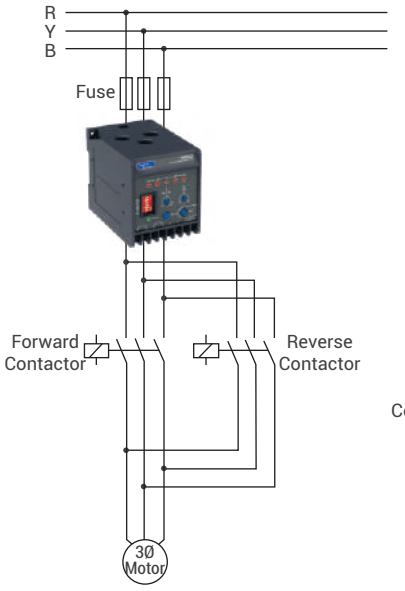

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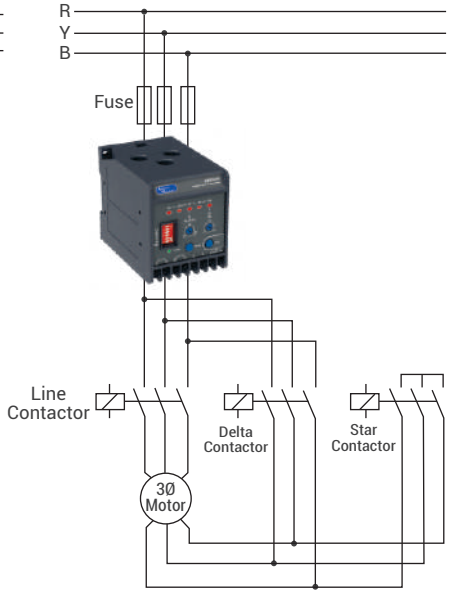
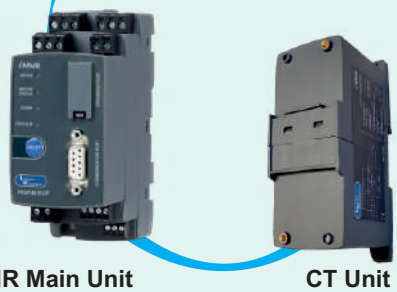


Star - Delta

Your partner in digital transformation

iMMR - Intelligent Motor Management Relay

"Besides control, protection and diagnostics, iMMR provides accurate real time data for analytics and insights into the performance of plant and process"



Intelligent MCC's for enhanced plant efficiency and safety

Ti - Motor Control Center

- Modular MCC's designed as per IEC 61439-1 & 2
- Internal arc resistance design of 70kA - 500msec.

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

iMMR - Intelligent Motor Management Relay [8536]

iMMR is a comprehensive Motor protection, control and monitoring relay for intelligent MCC's

"Besides control, protection and diagnostics, iMMR provides accurate real time data for analytics and insights into the performance of plant and process"

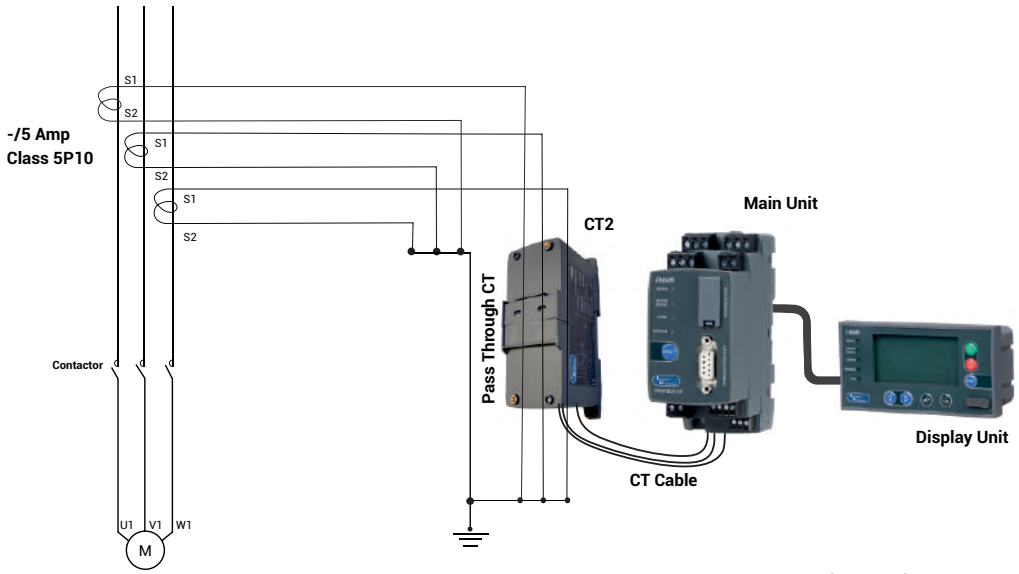
Features

- Comprehensive Current & Voltage based Protections
- 20 nos. of last trip records, 100 event records and 20 IRF Records are available
- Preprogrammed Starter logics reduces manufacturing and commissioning time
- Software iMMR Suite is available for Easy and effective configuration and monitoring
- Modbus RTU, Modbus TCP/IP and Profibus-DP protocols available for seamless integration with DCS/PLC

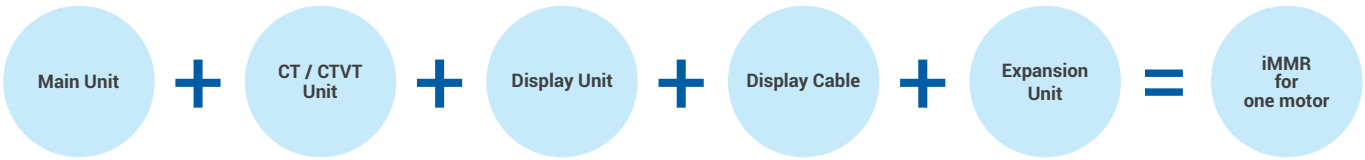
Product	Description	Cat. No.	M.R.P. (₹) Per Unit
Main Unit	iMMR MODBUS RTU 85-265 VAC/DC	CS912440000	19500
	iMMR PROFIBUS-DP 85-265 VAC/DC	*Available On Request	
	iMMR MODBUS TCP/IP 85-265 VAC/DC	*Available On Request	
CT Unit	CT1 (0.3-3A) with 15 cm cable	CS912450000	5200
	CT2 (2.5-25A) with 15 cm cable	CS912460000	6900
	CT3 (7-70A) with 15 cm cable	CS912470000	11000
CTVT Unit	CT1 (0.3-3A) + VT with 15 cm cable	CS912490000	12000
	CT2 (2.5-25A) + VT with 15 cm cable	CS912500000	14300
	CT3 (7-70A) + VT with 15 cm cable	CS912510000	18700
Display Unit	iMMR Display unit without cable	CS912530000	11000
Display Cable	iMMR Display Cable - 1 meter	XK131280000	1100
	iMMR Display Cable - 2 meter	XK131290000	1600
Expansion Unit	4DI + 2DO with 10 cm cable	*Available On Request	
	Earth Leakage + 2DI + 2DO with 10 cm cable	*Available On Request	
	2AI + 1AO with 10 cm cable	*Available On Request	

* Please contact our nearest branch for details

iMMR with external CT's for Motors >37kW



iMMR selection guide



Select **Main Unit** based on required communication protocol.

For Current based protection select **CT Unit**. For Current & Voltage based protection select **CTVT Unit**.

Select a panel mounted **Display Unit & Cable** for monitoring and parametrization.

Add up to 5 **Expansion Unit** based on DI/DO & AI/AO requirement.

Complete package selection of **iMMR**.

Cat.no. selection guide

Modbus RTU communication and **Current** based protection and metering

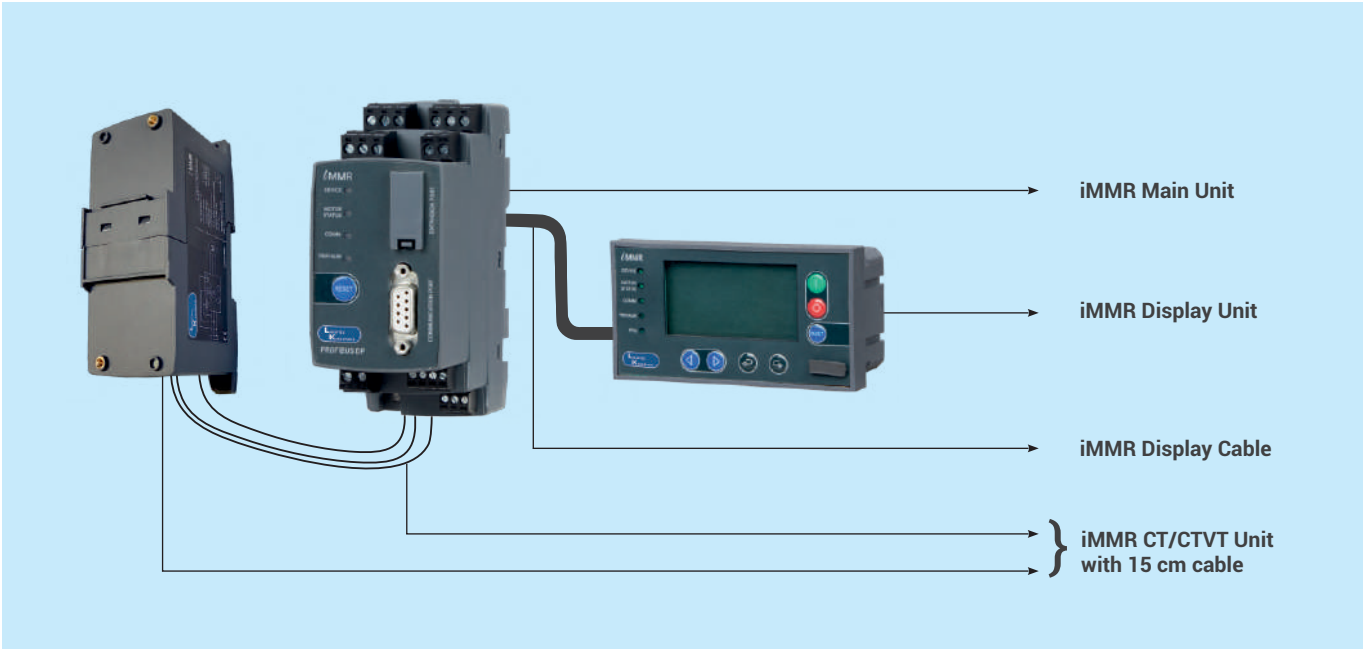
Motor Rating	Total MRP	Main Unit - Modbus RTU	CT Unit	Display Unit	Display Cable - 2 meter
<1.1 KW	37300	CS912440000	CS912450000	CS912530000	XK131290000
1.1 KW to 11 KW	39000	CS912440000	CS912460000	CS912530000	XK131290000
11 KW to 37 KW	43100	CS912440000	CS912470000	CS912530000	XK131290000
>37 KW	39000	CS912440000	CS912460000*	CS912530000	XK131290000

* with External Protection class CT's of -/5Amp

Modbus RTU communication and **Current + Voltage** based protection and metering

Motor Rating	Total MRP	Main Unit - Modbus RTU	CTVT Unit	Display Unit	Display Cable - 2 meter
<1.1 KW	44100	CS912440000	CS912490000	CS912530000	XK131290000
1.1 KW to 11 KW	46400	CS912440000	CS912500000	CS912530000	XK131290000
11 KW to 37 KW	50800	CS912440000	CS912510000	CS912530000	XK131290000
>37 KW	46400	CS912440000	CS912500000*	CS912530000	XK131290000

* with External Protection class CT's of -/5Amp



Manual Motor Starters [8536]

Rocker Type

- MOG-S1: upto 32A
- Short circuit + Overload protection

Rotary Type

- MOG-H1M: upto32A
- MOG-H2M: 32A-63A
- Short circuit protection

Rotary Type

- MOG-H1: upto 32A
- MOG-H2: 32A-63A
- Short circuit + Overload protection

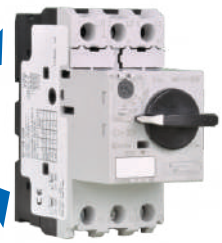
Rocker type and Rotary Type Manual Motor Starters conforms to IEC 60947-4-1

- Short circuit protection
- Over current protection

Circuit Breaker

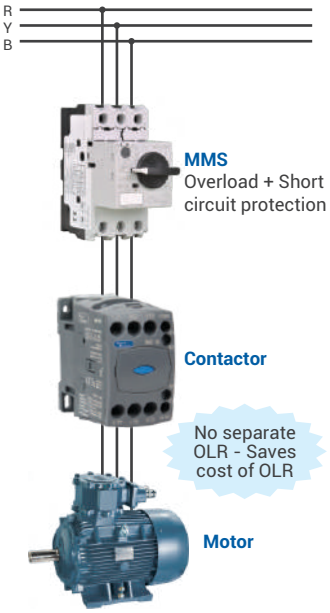
- Overload protection
- Phase loss protection
- Wide range of current adjustment dial
- Ambient temperature compensation

Thermal Overload Relay



MMS

- Compact
- High breaking capacity
- Short circuit protective coordination
- Reduction in wiring work
- High switching durability
- Padlocking feature available even without extended rotary handle
- Stand alone motor protection
- Common accessories



Type MOG-S1 (Rocker Type)

With short circuit & overload protection

Rating (A)	Recommended Motor Rating at 415V, 3-Ph, 50Hz (KW)	Thermal Release range (A)	Instantaneous Trip Current (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
0.16	-	0.1 - 0.16	2.1	**ST418890000**	**3270**	**1**
0.25	0.06	0.16 - 0.25	3.3	**ST418900000**	**3270**	**1**
0.40	0.09	0.25 - 0.40	5.2	**ST418910000**	**3270**	**1**
0.63	0.12	0.40 - 0.63	8.2	**ST418920000**	**3720**	**1**
1.00	0.25	0.63 - 1.00	13	**ST418930000**	**3720**	**1**
1.60	0.55	1.00 - 1.60	20.8	**ST418940000**	**3740**	**1**
2.50	0.75	1.60 - 2.50	32.5	**ST418950000**	**3740**	**1**
4.00	1.50	2.50 - 4.00	52	**ST418960000**	**3880**	**1**
6.30	2.20	4.00 - 6.30	81.9	**ST418970000**	**3880**	**1**
10.00	4.00	6.30 - 10.00	130	**ST418980000**	**4140**	**1**
13.00	5.40	9.00 - 13.00	169	**ST418990000**	**4660**	**1**
16.00	7.50	11.00 - 16.00	208	**ST419000000**	**5100**	**1**
20.00	9.00	14.00 - 20.00	260	**ST419010000**	**5360**	**1**
25.00	12.50	19.00 - 25.00	325	**ST419020000**	**5630**	**1**
32.00	15.00	24.00 - 32.00	416	**ST419030000**	**10000**	**1**

Note: Extended rotary handle cannot be fitted with MOG - S1

Type MOG-H1 (Rotary Type) - Frame1

With short circuit & overload protection

Rating (A)	Recommended Motor Rating at 415V, 3-Ph, 50Hz (KW)	Thermal Release range (A)	Instantaneous Trip Current	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
0.16	-	0.1 - 0.16	2.1	**ST419040000**	**4160**	**1**
0.25	0.06	0.16 - 0.25	3.3	**ST419050000**	**4160**	**1**
0.40	0.09	0.25 - 0.40	5.2	**ST419060000**	**4160**	**1**
0.63	0.12	0.40 - 0.63	8.2	**ST419070000**	**4650**	**1**
1.00	0.25	0.63 - 1.00	13	**ST419080000**	**4650**	**1**
1.60	0.55	1.00 - 1.60	20.8	**ST419090000**	**4800**	**1**
2.50	0.75	1.60 - 2.50	32.5	**ST419100000**	**4800**	**1**
4.00	1.50	2.50 - 4.00	52	**ST419110000**	**4890**	**1**
6.30	2.20	4.00 - 6.30	81.9	**ST419120000**	**4940**	**1**
10.00	4.00	6.30 - 10.00	130	**ST419130000**	**5260**	**1**
13.00	5.40	9.00 - 13.00	169	**ST419140000**	**5830**	**1**
16.00	7.50	11.00 - 16.00	208	**ST419150000**	**6270**	**1**
20.00	9.00	14.00 - 20.00	260	**ST419160000**	**6760**	**1**
25.00	12.50	19.00 - 25.00	325	**ST419170000**	**7030**	**1**
32.00	15.00	24.00 - 32.00	416	**ST419180000**	**11400**	**1**

Manual Motor Starters [8536]

Type MOG-H1M (Rotary Type) - Frame 1

With short circuit protection only

Rating (A)	Recommended Motor Rating at 415V, 3-Ph, 50Hz (KW)	Instantaneous Trip Current	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
0.16	-	2.1	**ST419230000**	**3740**	1
0.25	0.06	3.3	**ST419240000**	**3740**	1
0.40	0.09	5.2	**ST419250000**	**3740**	1
0.63	0.12	8.2	**ST419260000**	**4230**	1
1.00	0.25	13	**ST419270000**	**4310**	1
1.60	0.55	20.8	**ST419280000**	**4310**	1
2.50	0.75	32.5	**ST419290000**	**4340**	1
4.00	1.50	52	**ST419300000**	**4390**	1
6.30	2.20	81.9	**ST419310000**	**4390**	1
10.00	4.00	130	**ST419320000**	**4530**	1
13.00	5.40	169	**ST419330000**	**4730**	1
16.00	7.50	208	**ST419340000**	**4730**	1
20.00	9.00	260	**ST419350000**	**4970**	1
25.00	12.50	325	**ST419360000**	**5120**	1
32.00	15.00	416	**ST419370000**	**8420**	1

Type MOG-H2 (Rotary Type) - Frame 2

With short circuit & overload protection

Rating (A)	Recommended Motor Rating at 415V, 3-Ph, 50Hz (KW)	Thermal Release range (A)	Instantaneous Trip Current	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32.00	15.00	24.00 - 32.00	416	**ST419190000**	**14600**	1
40.00	20.00	28.00 - 40.00	520	**ST419200000**	**16100**	1
50.00	25.00	35.00 - 50.00	650	**ST419210000**	**20100**	1
63.00	34.00	45.00 - 63.00	819	**ST419220000**	**20400**	1

Type MOG-H2M (Rotary Type) - Frame 2

With short circuit protection only

Rating (A)	Recommended Motor Rating at 415V, 3-Ph, 50Hz (KW)	Instantaneous Trip Current	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
32.00	15.00	416	**ST419380000**	**14000**	1
40.00	20.00	520	**ST419390000**	**14100**	1
50.00	25.00	650	**ST419400000**	**14500**	1
63.00	34.00	819	**ST419410000**	**14800**	1

Accessories for MOG [8538]

Short Circuit Alarm

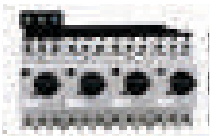
Auxiliary + Alarm

Extended Rotary Handle

Shunt Trip

Mounting Position *	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
F1/F2	Auxiliary Contact Front mtg. 1NO	**ST419420000**	**645**	10
F1/F2	Auxiliary Contact Front mtg. 1NC	**ST419430000**	**645**	10
L	Auxiliary Contact Left side mtg. 2NO	**ST419440000**	**890**	1
L	Auxiliary Contact Left side mtg. 1NO + 1NC	**ST419450000**	**890**	1
L	Auxiliary Contact Left side mtg. 2NC	**ST419460000**	**890**	1
F2	Trip Alarm Contact Front mtg. 1NO	**ST419470000**	**1150**	10
F2	Trip Alarm Contact Front mtg. 1NC	**ST419480000**	**1150**	10
L	Auxiliary + Alarm Left side mtg. 2NO	**ST419490000**	**1220**	1
L	Short circuit alarm Left side mtg. 1NO + 1NC	**ST419500000**	**1220**	1
R	Shunt trip 24V DC	**ST419510000**	**2350**	1
R	Shunt trip 110V, 50Hz	**ST419520000**	**2475**	1
R	Shunt trip 230V, 50Hz	**ST429520000**	**2475**	1
R	Under Voltage release, 110V, 50Hz	**ST419530000**	**2475**	1
R	Under Voltage release, 415V, 50Hz	**ST419540000**	**2475**	1
-	External operating handle, (Black) Frame 1	**ST419550000**	**1425**	1
-	External operating handle, (Black) Frame 2	**ST419560000**	**1425**	1

* F1- Front left slot F2- Front right slot L- Left side R- Right side



MMSs with bus bar connection

Connecting Busbar link

3 Phase Feed in terminal

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Connecting Busbar link			
2 MMS 45 mm width w/o acc	**ST419570000**	**745**	5
3 MMS 45 mm width w/o acc	**ST419580000**	**820**	5
4 MMS 45 mm width w/o acc	**ST419590000**	**885**	5
5 MMS 45 mm width w/o acc	**ST419600000**	**1130**	5
2 MMS 45 mm width with one acc 9 mm	**ST419610000**	**870**	5
3 MMS 45 mm width with one acc 9 mm	**ST419620000**	**940**	5
4 MMS 45 mm width with one acc 9 mm	**ST419630000**	**1010**	5
5 MMS 45 mm width with one acc 9 mm	**ST419640000**	**1080**	5
2 MMS 55 mm width w/o acc	**ST419660000**	**1360**	1
3 MMS 55 mm width w/o acc	**ST419670000**	**1550**	1
4 MMS 55 mm width w/o acc	**ST419680000**	**1860**	1
2 MMS 55 mm width with one acc 9 mm	**ST419690000**	**1480**	1
3 MMS 55 mm width with one acc 9 mm	**ST419700000**	**1680**	1
4 MMS 55 mm width with one acc 9 mm	**ST419710000**	**1980**	1
2 MMS 55 mm width with two acc 18 mm	**ST419720000**	**1730**	1
4 MMS 55 mm width with two acc 18 mm	**ST419730000**	**1930**	1
Feed in terminal for 45 mm width Busbar	**ST419650000**	**870**	1
Feed in terminal for 55 mm width Busbar	**ST419740000**	**1500**	1
Bus bar safety cover 45 mm width Busbar	**ST419750000**	**375**	10
Bus bar safety cover 55 mm width Busbar	**ST419760000**	**405**	10

acc: Accessories

Motor Starters [8536]

Direct-on-Line Starters

in Sheet-Steel Enclosure Type MN / ML
(Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)

MN 16

ML 1.5

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
10.0	7.5	9 - 15	MN 16 DOL	**SS94351**	**5240**	1
15.0	11.0	14 - 23	MN 25 DOL	**SS94352**	**7990**	1
20.0	15.0	20 - 33	MN 32 DOL	**SS94353**	**12900**	1
30.0	22.5	30 - 50	MN 45 DOL	**SS94017**	**22000**	1
45.0	33.5	45 - 75	MN 65 DOL	**SS94018**	**30200**	1
30.0	22.5	28 - 42	ML 3 DOL	**SS90722**	**27100**	1

Fully Automatic Star-Delta Starters [8536]

in Sheet-Steel Enclosure Type MN / ML
(Motor Rating AC-3 Duty, 415V, 50Hz, 3-Ph)

Max. Motor Output at 415V, 3-Ph		Relay Max. Range (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HP	kW					
17.5	13.0	9 - 15	MN 16 FASD	**SS94362**	**17600**	1
30.0	22.5	14 - 23	MN 25 FASD	**SS94364**	**19700**	1
40.0	30.0	20 - 33	MN 32 FASD	**SS94366**	**32400**	1
50.0	37.5	30 - 50	MN 45 FASD	**SS94021**	**52000**	1
75.0	55.0	45 - 75	MN 65 FASD	**SS94022**	**86300**	1
90.0	67.5	45 - 75	MN 80 FASD	**SS94705**	**94200**	1
150.0	110.0	66 - 110	MN 110 FASD	**SS94706**	**123400**	1
180.0	132.0	90 - 150	MN 140 FASD	**SS94707**	**129200**	1
50.0	37.5	28 - 42	ML3 FASD	**SS90730**	**65400**	1
75.0	55.0	45 - 75	ML4 FASD	**SS90913**	**112000**	1
125.0	90.0	66 - 110	ML6 FASD	**SS90923**	**183700**	1

Spares for MN Starters [8538]

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Bracket for Mounting cont. MNX 25 - 32	**SS940300000**	**165**	20
MN DOL/FASD Push Button	**SS939410000**	**280**	10

Timers

Electronic Timers Type ST 100 [9107]

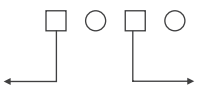
ST 100

Description	Cat. No.	M.R.P. (₹) Per Unit	Std Pkg. (Nos.)
240 / 360 / 415V, 50Hz for			
3 - 30 secs.	**ST803280000**	**2020**	1
12 - 120 secs.	**ST803290000**	**2020**	1

Note:
ST 100 supplied with Mounting Kit, suitable for ET 100 replacement.
For Complete range of Timing Devices, please refer the Panel Accessories Price List.

Ordering Suffix for ML & MN Starters

Coil Voltages
B - 240 V
C - 360 V
D - 415 V
P - 440 V



Relay Range (A)	
ML	MN
A : 9 - 14	B : 9 - 15
B : 10 - 16	D : 14 - 23
C : 13 - 21	E : 20 - 33
E : 20 - 32	G : 30 - 50
F : 28 - 42	J : 45 - 75
G : 30 - 50	K : 66 - 110
J : 45 - 75	Q : 2 - 3.3
K : 66 - 110	S : 3 - 5
M : 90 - 150	T : 36 - 60
P : 135 - 225	U : 4.5 - 7.5
Q : 180 - 310	V : 6 - 10
R : 2.5 - 4	M : 90 - 150
T : 13 - 21	

All our Type 2 charts are available on **Knowledge Portal**

Access E&A's Knowledge Portal from
www.LK-EA.com/kp

Following combination of Type 2 Charts available

Fuse Based Charts		Fuseless Charts			
IE2/IE3	IE2/IE3	IE2	IE2	IE3	IE3
DOL	SD	DOL	SD	DOL	SD
FN	FN	MMS/MCCB	MMS/MCCB	MMS/MCCB	MMS/MCCB
MNX/MO	MNX/MO	MNX/MO	MNX/MO	MNX/MO	MNX/MO

Charts available at Iq of
- 50kA
- 65kA
- 80kA
- 100kA

MCCB charts are available with Microprocessor Releases too

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UV/OV Protection
Current, Voltage Metering
Start & Run Capacitor
Bypass Mode
Off Timer
Digital Display
Capacitor cut-off
Automatic Current Setting

AUTO VERSION

All features of Manual Version
Inbuilt Water Level Controller
WLC bypass feature
Auto start capacitor switching
Power on delay
Dry Run auto reset timer
Auto & Manual mode
RTC based daily ON/OFF timer
Timer count down display
Cyclic timer
Time Compensation

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For Cam operated Rotary switches, Cable ducts, Load break switches, Timers, Time switches, Supply monitors, Ø22.5 mm range of Modular remote control & Indicating units please refer Industrial Signaling Products Price List.

For Digital Panel Meter details please refer Page 102

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- Cyclic Event Logger: Logs 100 Events

Flexibility

- Priority Source Selection
- Adjustable Time Delay (0.1sec to 3 hours)
- Suitable for 3-Phase as well as 1-Phase Sources

Performance

- Wide range: 125A to 630A, 415V ac.
- Double-Break Contact System offering High Short-time Withstand (Icw)
- High Mechanical and Electrical Life: Double than requirement of IS/IEC standard
- Suitable for Aluminum Termination

Safety

- Protections: UV/OV, Phase Sequence, Single Phasing, Frequency
- Authorized Access Control through Password Protection
- Terminal Shrouds, Phase Barriers & Source Separator

Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Enclosed ATS, Frame 2, 125A	125A	**CK90161BSOO**	**85410**	1
Enclosed ATS, Frame 2, 160A	160A	**CK90162BSOO**	**94250**	1
Enclosed ATS, Frame 2, 200A	200A	**CK90163BSOO**	**102130**	1
Enclosed ATS, Frame 3, 250A	250A	**CK90164BSOO**	**116720**	1
Enclosed ATS, Frame 3, 315A	315A	**CK90165BSOO**	**124820**	1
Enclosed ATS, Frame 4, 400A	400A	**CK90166BSOO**	**138340**	1
Enclosed ATS, Frame 4, 630A	630A	**CK90167BSOO**	**168060**	1

Chapter ID [8537]

For AuXC 2000 programming videos and more details please scan the QR code or click here

Customer Interaction Center (CIC)
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Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

Changeover Switch-Disconnector (Conforms to IEC 60947-3, IS/IEC 60947-3)

Features offered by Manual Changeover

- Range 63A to 2000A, 415V, AC 23A, 4P
- Enclosure version does not require separate cable gland box
- Terminal Shrouds, Source Separator and Phase Barriers included
- Staggered Terminals make cable termination easy
- Suitable for horizontal as well as vertical mounting

Open execution

SS enclosure

Motorised Changeover

Features offered by Motorised Changeover

- Range 40 A to 2000A, 415V, AC 23A, 4P (Control Voltage 240 Vac)
- No change in HxWxD dimension of motorised and manual changeover switch
- Padlocking in OFF position
- Option for selection between manual and auto mode

Size	Rated Current (A)	Type	Manual Changeover Open Execution		Manual Changeover In Sheet Steel Enclosure#		Motorised Changeover Open Execution		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	40	CO1-40	-	-	-	-	New CK90944BOOO	25520	1
	63	CO1-63	CO106300OOO	5660	CO10630OSOO	9070	New CK90945BOOO	27090	1
	63	CO1-63	CO10630OOOD ▲	5510					
	100	CO1-100	CO110000OOO	7530	CO11000OSOO	11450	New CK90946BOOO	33080	1
	100	CO1-100	CO11000OOOD ▲	7360					
	125	CO1-125	CO112500OOO	10130	CO11250OSOO	14610	New CK90947BOOO	35180	1
Fr 2	125	CO2-125	CO212500OOO	12210	CO21250OSOO	16850	CK90161BOOO	43760	1
	160	CO2-160	CO216000OOO	13310	CO21600OSOO	18510	CK90162BOOO	53500	1
	200	CO2-200	CO22000OOOA	16170	CO22000OSOO	21290	CK90163BOOO	58320	1
Fr 3	250	CO3-250	CO325000OOO	21530	CO32500OSOO	29430	CK90164BOOO	70560	1
	315	CO3-315	CO331500OOO	22570	CO33150OSOO	30960	CK90165BOOO	73820	1
Fr 4	400	CO4-400	CO440000OOO	33230	CO44000OSOO	45130	CK90166BOOO	87260	1
	630	CO4-630	CO463000OOO	38580	CO46300OSOO	52320	CK90167BOOO	104160	1
Fr 5	630	CO5-630 α	CO563000OOO α	47190	-	-	CK90168BOOO	113100	1
	800	CO5-800	CO580000OOO	55810	CO58000OSOO	84690	CK90169BOOO	151260	1
	1000	CO5-1000	CO510000OOO	99590	CO51000OSOO	137120	CK90170BOOO	198330	1
Fr 6	1250	CO6-1250	CO612500OOO	132930	-	-	CK90081BOOO	245070	1
	1600	CO6-1600	CO616000OOO	157190	-	-	CK90082BOOO	300830	1
	2000	CO6-2000	CO620000OOO	241820	-	-	CK90083BOOO	358810	1

▲ Direct handle version # Sheet Steel Enclosure version is with CO with extended handle ⋆ Fuse mounting kit to be purchased separately. Refer below table

α Fuse mounting kit CX56300OODO is suitable for mounting on CO5-630 Changeover Switch

Spares & Accessories for Changeover S-D [8538]

Auxiliary Contact

Operating Handle (63A to 200A)

Flip-able Handle (250A to 2000A)

Castell Type Lock

Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact Kit (2 sets of C/O contact)	CO1-(63-125A)	CX100020OOO	500	1
	CO2-(125-200A)	CX200020OOO	950	1
	CO3-(250-315A)	CX300020OOO	1360	1
	CO4-(400-630A)	CX400020OOO	1440	1
	CO5-(630-1000A)	CX500020OOO	1640	1
	CO6-(1250-2000A)	CX600020OOO	1820	1
Operating Handle Kit (handle + shaft + center bush + bush clip)	CO1-(63-125A)	CX100010OOO	830	1
	CO2-(125-200A)	CX300010OOO	1760	1
	CO3-(250-315A)	CK903920OOO	1810	1
	CO4-(400-630A)	CX400010OOO	1850	1
	CO5-(630-1000A)	CX500010OOO	1990	1
Operating Handle Castell Type Lock$	CO6-(1250-2000A)	CX600010OOO	2260	1
	CO-(125-1000A)	CX400040OOO	2990	1
	CO6-(1250-2000A)	CX600040OOO	2990	1
Output shorting link	CO1-(63-125A) Top Side	CX10005OOOT	880	1
	CO1-(63-125A) Bottom Side	CX10005OOOB	880	1
Operating Handle for Motorised Changeover	C/O Frame 2 & 3 (125-315A)	CK903740OOO	1580	1
	C/O Frame 4 & 5 (400-1000A)	CK903780OOO	1990	1
	C/O Frame 6 (1250-2000A	CK906450OOO	4940	1

$ Chapter ID [8301]

Automatic Transfer Controllers (ATC) for Motorised Changeover [8538]

AST Controller with wire harness

AuXC-2000 Controller with wire harness

Illuminated Push Button assembly

Description	Type		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Automatic Transfer Controllers	AST Controller with wire harness		CK901920OOO	21190	1
	AuXC-2000 Controller** with wire harness	AuXC-2000 β wire harness	ATC200OOOOO	33200	1
			CK900990OOO	4320	1
Control Accessories	Illuminated Push Button assembly with Wire harness		CK901950OOO	4310	1

β Chapter ID [9032]

** Note: For communication version of AuXC controller refer page no-6

Fuse Mounting Kit [8538]

Description	Suitable fuse-link	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fuse Mounting Kit	HF 14x51	CO1-63	CX10630OOCO	2780	1
	HN Size 000	CO2-125	CX21250OODO	5420	1
	HN Size 00	CO2-160	CX21600OODO	7690	1
	HN Size 1	CO3-250	CX32500OODO	10520	1
	HN Size 1	CO3-315	CX33150OODO	11010	1
	HN Size 2	CO4-400	CX44000OODO	15760	1
	HN Size 3	CO5-630	CX56300OODO	31860	1
	HN Size 3	CO5-800	CX58000OODO	36190	1

CZ Bypass Switches

125A to 630A

Bypass Switches are meant for special application and help to maintain continuity of power supply to the load by simply 'bypassing' UPS or Servo stabilizer. Removal of the UPS or Servo, for maintenance or repair is safe, as it is isolated from both input and output sides in the 'bypass' mode.

Time-Saving Convenient solution
No hassle of operating multiple devices for safe and positive isolation on both sides of Servo/UPS

Phase Barriers
Easy to fit and long phase barriers for complete isolation between phases

Suitable for Aluminum Termination
Entire range is suitable for Aluminum cable/link termination as per the size prescribed by the standards

Safety interlock and padlocking
Door interlock is provided in ON position with defeat feature Also, Bypass Switch can be padlocked in OFF position; upto 3 padlocks can be fitted

Mounting flexibility
Suitable for mounting in horizontal as well as vertical orientation. Also, the shaft is 'cut-able' and can be adjusted to suit different panel depth requirements.

Finger proof protection (IP30)
Terminal Shrouds provide protection against accidental contact with live terminals.
As it is swivellable, there is no need to remove during termination/inspection

4P, Open Execution with extended handle

Frame	Rating 440Vac, AC 23A	Cat No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1	125A	**CK908130OOO**	**19090**	1
CZ1	160A	**CK908140OOO**	**21530**	1
CZ1	200A	**CK908150OOO**	**22760**	1
CZ1	250A	**CK908160OOO**	**32410**	1
CZ1	315A	**CK908170OOO**	**36960**	1
CZ2	315A	**CK908750OOO**	**40850**	1
CZ2	400A	**CK908760OOO**	**49840**	1
CZ2	630A	**CK908770OOO**	**59390**	1

Chapter ID [8536]

Accessories for CZ Bypass switch

Frame	Description	Cat No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1/ CZ2	Auxiliary Contact Kit* (1 C/O contact)	**CK90805OOOO**	**550**	1

Chapter ID [8538]

* Upto 2 C/O contacts can be installed for status / indication

Customer Interaction Center (CIC)
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Multiple Applications, One Solution

CZ Switch Disconnectors

- Compact 2P, 3P & 4P configurations
- 1250Vac Insulation Voltage
- AC-23A @ 690Vac without derating
- Suitable for 50°C ambient temperature
- Direct termination without the need of any extended links
- Extra assurance with visible contact system
- High electrical and mechanical life (double than requirement in IS/IEC standards)
- Terminal shrouds and phase barriers are provided as standard offering along with the product
- Higher ground clearance ensure safety at all times

Versions: 690V/800Vac | 1000Vdc | 1500Vdc

Typical Applications

Switching of feeders in power distribution network

Switching of Machinery/ Motors

VFD panels for switching and isolation of VFD (AC as well DC)

Isolation in String Inverter as well as Central Inverter Solar Systems

Battery Charging

4P AC Switch Disconnector

Frame	Rating 690V, AC 23A	Handle Type	CAT No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1	125A	Extended	CK907690000	7920	1
CZ1	160A	Extended	CK907700000	10000	1
CZ1	200A	Extended	CK907710000	11650	1
CZ1	250A	Extended	CK907720000	13740	1
CZ1	315A	Extended	CK907730000	14550	1
CZ2	315A	Extended	CK908570000	16150	1
CZ2	400A	Extended	CK908580000	20660	1
CZ2	630A	Extended	CK908590000	25890	1
CZ1	125A	Direct	CK907990000	7600	1
CZ1	160A	Direct	CK908000000	9560	1
CZ1	200A	Direct	CK908010000	11070	1
CZ1	250A	Direct	CK908020000	13050	1
CZ1	315A	Direct	CK908030000	13820	1
CZ2	315A	Direct	CK908720000	15340	1
CZ2	400A	Direct	CK908730000	19620	1
CZ2	630A	Direct	CK908740000	24600	1

Chapter ID [8536]

4P AC Switch Disconnector in SS enclosure (with extended handle)

Frame	Rating 690V, AC 23A	CAT No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1	125A	CK908190000	14250	1
CZ1	160A	CK908200000	16510	1
CZ1	200A	CK908210000	18640	1
CZ1	250A	CK908220000	21290	1
CZ1	315A	CK908230000	22560	1
CZ2	315A	CK908780000	26640	1
CZ2	400A	CK908790000	31200	1
CZ2	630A	CK908800000	36510	1

Chapter ID [8536]

Accessories for CZ Switch Disconnector

Frame	Description	CAT No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CZ1/CZ2	Auxiliary Contact Kit (1 C/O contact)	CK908050000	550	1

Chapter ID [8538]

Notes:

- 2P and 3P versions are also available. Please contact our nearest branch office for further details
- Separate versions suitable for DC applications (1000Vdc and 1500Vdc) also available. Please contact our nearest branch office for further details
- Please refer next page for details on offerings for Solar applications

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Dawn of a New Era...

CZ Switch Disconnectors

- Designed for tough conditions at **solar sites**
- Separate versions for **800Vac** string inverter systems and upto **1500Vdc** for central inverter systems
- Suitable for Aluminum termination of double the size recommended by IEC standards
- **1250Vac** Rated Insulation Voltage
- **Direct termination** without the need of any extended links
- Terminal shrouds and phase barriers are provided as standard offering along with the product

AC SD

- Operational Voltage upto 800Vac

800Vac, 3P Switch Disconnectors

Frame	Rating	Handle Type	Cat. No.	M.R.P. (₹) Per Unit
CZ1	125A	Direct	**CK907570000**	*
CZ1	160A	Direct	**CK907580000**	*
CZ1	200A	Direct	**CK907590000**	*
CZ1	250A	Direct	**CK907600000**	*
CZ1	315A	Direct	**CK907610000**	*
CZ2	315A	Direct	**CK908510000**	*
CZ2	400A	Direct	**CK908520000**	*
CZ2	630A	Direct	**CK908530000**	*
CZ1	125A	Extended	**CK907630000**	*
CZ1	160A	Extended	**CK907640000**	*
CZ1	200A	Extended	**CK907650000**	*
CZ1	250A	Extended	**CK907660000**	*
CZ1	315A	Extended	**CK907670000**	*
CZ2	315A	Extended	**CK908540000**	*
CZ2	400A	Extended	**CK908550000**	*
CZ2	630A	Extended	**CK908560000**	*

Chapter ID [8536]

DC SD

- Operational Voltage 1000Vdc & 1500Vdc

DC Switch Disconnectors

Frame	Rating	Voltage	No. of Poles	Handle Type	Cat. No.	M.R.P. (₹) Per Unit
CZ1	125A	1000Vdc	2	Direct	**CK907930000**	*
CZ1	160A	1000Vdc	2	Direct	**CK907940000**	*
CZ1	200A	1000Vdc	2	Direct	**CK907950000**	*
CZ1	250A	1000Vdc	2	Direct	**CK907960000**	*
CZ1	315A	1000Vdc	2	Direct	**CK907970000**	*
CZ2	315A	1000Vdc	2	Direct	**CK908690000**	*
CZ2	400A	1000Vdc	2	Direct	**CK908700000**	*
CZ2	630A	1000Vdc	2	Direct	**CK908710000**	*
CZ1	125A	1500Vdc	2	Direct	**CK907870000**	*
CZ1	160A	1500Vdc	2	Direct	**CK907880000**	*
CZ1	200A	1500Vdc	2	Direct	**CK907890000**	*
CZ1	250A	1500Vdc	2	Direct	**CK907900000**	*
CZ1	315A	1500Vdc	2	Direct	**CK907910000**	*
CZ2	315A	1500Vdc	3	Direct	**CK908660000**	*
CZ2	400A	1500Vdc	3	Direct	**CK908670000**	*
CZ2	630A	1500Vdc	3	Direct	**CK908680000**	*

Chapter ID [8536]

*Available on Request

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

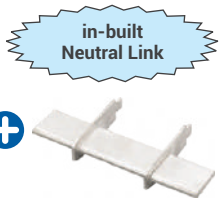
Type TPN S-D-F suitable for DIN fuse-link (TPN & FP) in open execution

Features offered by FN S-D-F

- Range 32A to 800A, 415V, **AC 23A**
- Conforms to IEC 60947-3, IS/IEC 60947-3
- **Terminal Shrouds on both sides and Phase Barriers included**
- **Telescopic shaft for depth adjustment**
- **TPN SDF has isolable neutral**
- **4P SDF has Switched Neutral Pole and is 100% rated**
- Door interlock & padlock facility

FN - TPN S-D-F
(Open Execution)

FN - 4P S-D-F
(Open Execution)



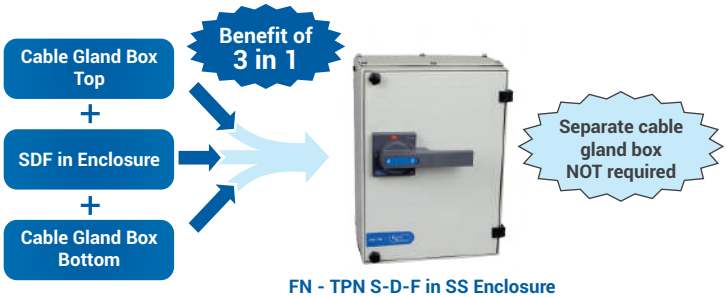
Size	Rated Current (A)	Suitable HRC fuse-link		Open Execution Type FN (TPN) S-D-F suitable for DIN fuse-link			Std. Pkg. (Nos.)	Open Execution Type FN S-D-F suitable for DIN fuse-link (4P)			Std. Pkg. (Nos.)
		Type	Range (A)	Type	Cat. No.	M.R.P. (₹) Per Unit		Type	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	32	HF Size 14x51	2 to 32	FN 32 TPN / FP	**SK95518**	**3030**	1	FN 32 TPN/FP	**SK95518**	**3030**	1
	32	HF Size 14x51	2 to 32	FN 32 TPN / FP CE*	**SK95703***	**2630**	1	FN 32 TPN/FP CE*	**SK95703***	**2630**	1
	63	HF Size 14x51	2 to 63	FN 63 TPN / FP	**SK95421**	**3990**	1	FN 63 TPN/FP	**SK95421**	**3990**	1
	63	HF Size 14x51	2 to 63	FN 63 TPN / FP CE*	**SK95704***	**3560**	1	FN 63 TPN/FP CE*	**SK95704***	**3560**	1
Fr 2	100	HN Size 000/00	63 to 100	FN 100 TPN	**SK95568**	**7420**	1	FN 100 FP	**SK90496**	**8680**	1
	125	HN Size 000/00	63 to 125	FN 125 TPN	**SK95001**	**9620**	1	FN 125 FP	**SK90497**	**10800**	1
	160	HN Size 000/00	63 to 160	FN 160 TPN	**SK95713**	**10350**	1	FN 160 FP	**SK90498**	**12100**	1
Fr 3	200	HN Size 0	80 to 200	FN 200 TPN	**SK95418**	**13970**	1	FN 200 FP	**SK90471**	**17280**	1
	250	HN Size 1	125 to 250	FN 250 TPN	**SK95642**	**16260**	1	FN 250 FP	**SK90472**	**19580**	1
Fr 4	315	HN Size 1	125 to 315	FN 315 TPN	**SK95461**	**19470**	1	FN 315 FP	**SK90473**	**23760**	1
	400	HN Size 2	200 to 400	FN 400 TPN	**SK95481**	**23760**	1	FN 400 FP	**SK90480**	**26950**	1
Fr 5	630	HN Size 3	315 to 630	FN 630 TPN	**SK95521**	**39740**	1	FN 630 FP	**SK90481**	**45430**	1
	800	HN Size 3	315 to 800	FN 800 TPN	**SK95679**	**42770**	1	FN 800 FP	**SK90482**	**51620**	1

* 'CE' handle has door interlock facility without defeat feature

FN- TPN S-D-F in SS Enclosure

Features offered by FN S-D-F in SS Enclosure:

- Range 32A to 800A, 415V, **AC 23A**
- Spacious Sheet Steel Enclosure
- **Separate cable gland box not required**
- **Terminal Shrouds on both sides and Phase Barriers included**
- Conforms to IEC 60947-3, IS/IEC 60947-3
- Suitable for Cylindrical/DIN fuse-link
- Door interlock & padlock facility



FN - TPN S-D-F in SS Enclosure

Size	Rated Current (A)	Suitable HRC fuse-link		In Sheet Steel Enclosure Type FN (TPN) S-D-F suitable for DIN fuse-link			Std. Pkg. (Nos.)
		Type	Range (A)	Type	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	32	HF Size 14x51	2 to 32	FN 32 TPN / FP CE*	**SK90483***	**7120**	1
	63	HF Size 14x51	2 to 63	FN 63 TPN / FP CE*	**SK90484***	**8510**	1
Fr 2	100	HN Size 000/00	63 to 100	FN 100 TPN	**SK90485**	**13710**	1
	125	HN Size 000/00	63 to 125	FN 125 TPN	**SK90486**	**15550**	1
	160	HN Size 000/00	63 to 160	FN 160 TPN	**SK90487**	**16300**	1
Fr 3	200	HN Size 0	80 to 200	FN 200 TPN	**SK90488**	**23540**	1
	250	HN Size 1	125 to 250	FN 250 TPN	**SK90489**	**25940**	1
Fr 4	315	HN Size 1	125 to 315	FN 315 TPN	**SK90490**	**30120**	1
	400	HN Size 2	200 to 400	FN 400 TPN	**SK90491**	**33830**	1
Fr 5	630	HN Size 3	315 to 630	FN 630 TPN	**SK90492**	**52800**	1
	800	HN Size 3	315 to 800	FN 800 TPN	**SK90493**	**56100**	1

* 'CE' handle has door interlock facility without defeat feature

Notes:

1) Type FN S-D-F range (Bolted fuse-link) suitable for harsh environment is also available. Please contact nearest branch office for further details
2) For 690V AC application, please contact nearest branch office
3) The prices for S-D-F range are without HRC fuses
4) The SDF units in SS enclosure version can be replaced with FN TPN SDF open execution units. Please refer point 5 for replacement of 250A unit
5) For replacement of FN 250 SDF unit in sheet steel enclosure version (Cat. No. SK90489OOOO & SK95681OOOO), order Cat. No. ST97895OOOO
6) Please refer Page 37 for Switch-Disconnectors
7) Add suffix "OOOO" to all cat nos.

Features offered by HRC fuse link

- Conforms to IEC 60269-2, IS 13703 part 2
- Range: 2A to 800A, 415V, AC 50Hz
- Type: Cylindrical (2A to 63A), DIN (63A to 800A) & Bolted (2A to 630A)
- High breaking capacity: 100kA for type HN and 80kA for type HF/HG/HQ

Cylindrical fuse links Type HF

HF

Size	Rated Current (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
14 X 51	2	Suitable for Type FN 32 / 63 / FNX 32 / 63 S-D-F & for HCO 32 Fuse base	**SF90144**	**158**	30
	4		**SF90145**	**158**	30
	6		**SF90146**	**158**	30
	8		**SF90147**	**158**	30
	10		**SF90148**	**158**	30
	16		**SF90150**	**158**	30
	20		**SF90151**	**158**	30
	25		**SF90152**	**158**	30
	32		**SF90142**	**158**	30
	40	Suitable for Type FN 63 / FNX 63 S-D-F & for HC 63 Fuse base	**SF90143**	**170**	30
	50		**SF90158**	**380**	30
	63		**SF90159**	**440**	30

DIN Type Fuse Links Type HN

000

00

0

1

2

3

Size	Rated Current (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
000	63	Suitable for Type FN 100/125/160 / FNX 100/125/160 S-D-F & for HB 160 Fuse base	**SF94940**	**490**	3
	80		**SF94941**	**510**	3
	100		**SF94942**	**520**	3
	125		**SF94946**	**580**	3
00	63	Suitable for Type FN 100/125/160 / FNX 125/160 S-D-F & for HB 160 Fuse base	**SF94027**	**630**	3
	80		**SF94028**	**630**	3
	100		**SF94029**	**630**	3
	125		**SF94030**	**640**	3
	160		**SF94939**	**660**	3
0	80	Suitable for Type FN 200 / FNX 200 S-D-F & for HB 250 Fuse base	**SF94128**	**800**	3
	100		**SF94129**	**800**	3
	125		**SF94130**	**800**	3
	160		**SF94131**	**810**	3
	200		**SF94132**	**850**	3
1	125	Suitable for Type FN 250/315 / FNX 250/315 S-D-F & for HB 250 Fuse base	**SF94230**	**830**	3
	160		**SF94231**	**890**	3
	200		**SF94232**	**890**	3
	250		**SF94233**	**990**	3
	315		**SF94234**	**1200**	3
2	200	Suitable for Type FN 400 / FNX 400 S-D-F & for HB 800 Fuse base	**SF94332**	**1250**	3
	250		**SF94333**	**1290**	3
	315		**SF94334**	**1320**	3
	400		**SF94335**	**1340**	3
3	315	Suitable for Type FN 630/800 / FNX 630/800 S-D-F & for HB 800 Fuse base	**SF94434**	**1870**	1
	400		**SF94435**	**1970**	1
	500		**SF94436**	**2030**	1
	630		**SF94437**	**2130**	1
	800		**SF94938**	**2640**	1

Fuse holders & Fuse bases suitable for Cylindrical / DIN fuse-links

HB

HC

Rated Current (A)	Type	Description	Suitable fuse-link		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
			Type	Range (A)			
32	HCO 32	Fuse holder	HF	2-32	**SK91314**	**310**	10
63	HC 63	Fuse holder	HF	2-63	**SK91043**	**350**	10
160	HB 160	Fuse base	HN-Size 000 & 00	63-160	**SK90405**	**470**	12
250	HB 250	Fuse base	HN-Size 0 & 1	80-250	**SK90406**	**1030**	3
800	HB 800	Fuse base	HN-Size 2 & 3	200-800	**SK91051**	**2020**	3

Notes : 1) Add suffix "OOOO" to all cat nos.

Type FN S-D-F suitable for DIN fuse-link (2P) in open execution

Also for 220Vdc & 240Vac application

Features offered by FN S-D-F

- Range 32A to 630A, 415V, **AC 23A**
- Conforms to IEC 60947-3, IS/IEC 60947-3
- **Terminal Shrouds on both sides and Phase Barriers included**
- **Telescopic shaft for depth adjustment**
- Door interlock & padlock facility

FN 2P S-D-F

Size	Rated Current (A)	Suitable fuse-link type	Type FN (2P) S-D-F suitable for DIN fuse-link			Std. Pkg (Nos.)
			Open Execution			
			Type	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	32	HF Size 14x51	FN 32 2P	**SK95594**	**2360**	1
	63	HF Size 14x51	FN 63 2P	**SK95595**	**3160**	1
Fr 2	100	HN Size 000/00	FN 100 2P	**ST35086**	**5960**	1
	125	HN Size 000/00	FN 125 2P	**ST35087**	**8040**	1
	160	HN Size 000/00	FN 160 2P	**ST35088**	**8380**	1
Fr 3	200	HN Size 0	FN 200 2P	**ST35089**	**10910**	1
	250	HN Size 1	FN 250 2P	**ST31674**	**12680**	1
Fr 4	315	HN Size 1	FN 315 2P	**ST38930**	**15700**	1
	400	HN Size 2	FN 400 2P	**ST31676**	**17680**	1
Fr 5	630	HN Size 3	FN 630 2P	**ST35090**	**30490**	1

Type FN S-D-F suitable for BS fuse-link (TPN) in open execution

For BOLTED fuse-link

Features offered by FN S-D-F

- Range 32A to 630A, 415V, **AC 23A**
- Conforms to IEC 60947-3, IS/IEC 60947-3
- **Terminal Shrouds on both sides and Phase Barriers included**
- **Telescopic shaft for depth adjustment**
- Door interlock & padlock facility

FN - TPN S-D-F

Size	Rated Current (A)	Suitable fuse-link type	Type FN (TPN) S-D-F suitable for BOLTED fuse-link			Std. Pkg (Nos.)
			Open Execution			
			Type	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	32	A1L	FN 32 TPN	**SK95653**	**2780**	1
	63	A1L	FN 63 TPN	**SK95651**	**3710**	1
Fr 2	100	A4	FN 100 TPN	**SK95570**	**7280**	1
	125	A4	FN 125 TPN	**SK95009**	**9190**	1
	160	A4	FN 160 TPN	**SK95714**	**9910**	1
Fr 3	200	B1 / B2	FN 200 TPN	**SK95588**	**13490**	1
	250	B2 / B3	FN 250 TPN	**SK95682**	**16230**	1
Fr 4	315	B3	FN 315 TPN	**SK95590**	**19400**	1
	400	B4	FN 400 TPN	**SK95591**	**23330**	1
Fr 5	630	C2	FN 630 TPN	**SK95592**	**39350**	1

*Add suffix "OOOO" to all cat nos.

Type FNX S-D-F suitable for DIN fuse-link in open execution

Features offered by FNX S-D-F

- Range 32A to 800A, 415V, **AC 23A**
- TPN and 4P version
- Suitable for Cylindrical / DIN fuse-link
- Telescopic shaft for depth adjustment
- DIN rail mounting up to 100A
- Conforms to IEC 60947-3, IS/IEC 60947-3
- Door interlock & padlock facility
- FNX 4-Pole with in-built Neutral Link

FNX TPN S-D-F

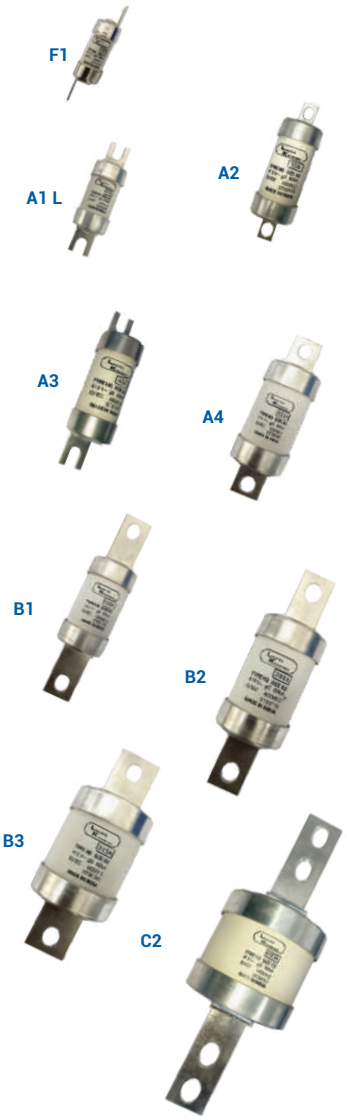
Size	Rated Current (A)	Suitable fuse-link type	Range (A)	Open Execution Type FNX (TPN) S-D-F suitable for DIN fuse-link				Open Execution Type FNX (4P) S-D-F suitable for DIN fuse-link			Std. Pkg. (Nos.)
				Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	32	HF Size 14x51	2 to 32	FNX 32 TPN / FP	**SK96903**	*	1	FNX 32 TPN / FP	**SK96903**	*	1
	63	HF Size 14x51	2 to 63	FNX 63 TPN / FP	**SK96904**	*	1	FNX 63 TPN / FP	**SK96904**	*	1
Fr 2	100	HN Size 000	63 to 100	FNX 100 TPN / FP	**SK96906**	*	1	FNX 100 TPN / FP	**SK96906**	*	1
Fr 3	125	HN Size 000/00	63 to 125	FNX 125 TPN	**SK95806**	*	1	FNX 125 FP	**SK95814**	*	1
	160	HN Size 000/00	63 to 160	FNX 160 TPN	**SK95807**	*	1	FNX 160 FP	**SK95815**	*	1
Fr 4	200	HN Size 0	80 to 200	FNX 200 TPN	**SK95808**	*	1	FNX 200 FP	**SK95816**	*	1
	250	HN Size 1	125 to 250	FNX 250 TPN	**SK95809**	*	1	FNX 250 FP	**SK95817**	*	1
Fr 5	315	HN Size 1	125 to 315	FNX 315 TPN	**SK95810**	*	1	FNX 315 FP	**SK95818**	*	1
	400	HN Size 2	200 to 400	FNX 400 TPN	**SK95811**	*	1	FNX 400 FP	**SK95819**	*	1
Fr 6	630	HN Size 3	315 to 630	FNX 630 TPN	**SK95812**	*	1	FNX 630 FP	**SK95820**	*	1
	800	HN Size 3	315 to 800	FNX 800 TPN	**SK95813**	*	1	FNX 800 FP	**SK95821**	*	1

* Available on request

Notes:

1) For 690V AC application, please contact nearest branch office.
2) The prices for S-D-F range are without HRC fuses
3) Add suffix "OOOO" to all cat nos.

Bolted fuse links: Type HG and HQ



Type	Fixing Method	Size	Rating (A)	Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
HG	Offset, staggered	F1	2	Suitable for type HD 20H/20P/20B, HD 32H/32P/32B fuse base	**ST30725**	**68**	24
			4		**ST30726**	**68**	24
			6		**ST30727**	**68**	24
			10		**ST30728**	**68**	24
			16		**ST30729**	**78**	24
			20		**ST30730**	**78**	24
			25		**ST30731**	**80**	24
			32		**ST30732**	**80**	24
HQ	Offset	A1L	20	Suitable for type FN 32/63 S-D-F	**ST34527**	**130**	15
			25		**ST34528**	**130**	15
			32		**ST34529**	**130**	15
			50		**ST35827**	**160**	15
			63		**ST35828**	**160**	15
		A2	4	Suitable for type HK 32H/32B fuse base	**ST30747**	**110**	12
			6		**ST30748**	**110**	12
			10		**ST30749**	**110**	12
			16		**ST30750**	**110**	12
			20		**ST30751**	**110**	12
			25		**ST30752**	**110**	12
			32		**ST30753**	**110**	12
		A3	35	Suitable for type HK 63B/63H Fuse base	**ST30759**	**170**	12
			50		**ST30760**	**180**	12
			63		**ST30761**	**190**	12
		A4	80	Suitable for type FN 100/125/160 S-D-F & for HK 125H/125B Fuse base	**ST30767**	**360**	12
			100		**ST30768**	**360**	12
			125		**ST30769**	**410**	12
			160		**ST35829**	**470**	12
	Centre Tag, 2 holes	B1	80	Suitable for type FN 200 S-D-F	**ST30774**	**410**	12
			100		**ST30775**	**410**	12
			125		**ST30776**	**490**	12
		B2	125	Suitable for type FN 200/250 S-D-F	**ST30777**	**510**	3
			160		**ST30778**	**520**	3
			200		**ST30779**	**560**	3
		B3	250	Suitable for type FN 250/315 S-D-F	**ST30781**	**830**	3
			315		**ST30782**	**860**	3
		B4	355	Suitable for type FN 400 S-D-F	**ST30783**	**1210**	3
			400		**ST30784**	**1250**	3
	Centre Tag, 4 holes	C2	400	Suitable for type FN 630 S-D-F	**ST30785**	**2360**	1
			500		**ST30786**	**2490**	1
			630		**ST30787**	**2840**	1

Fuse holders suitable for Bolted fuse-links

Rear View

Rated Current (A)	Type	Connection Method	Fuse Type	Suitable Fuse Range (A)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
20	HD 20H	Both side cable (Front)	F1	2-20	**ST30772**	**180**	12
	HD 20P	Both side busbar (Back)	F1	2-20	**ST30773**	**270**	12
	HD 20B	Top busbar & bottom cable	F1	2-20	**ST30766**	**250**	12
32	HD 32H	Both side cable (Front)	F1	2-32	**ST30733**	**200**	12
	HD 32P	Both side busbar (Back)	F1	2-32	**ST30734**	**270**	12
	HD 32B	Top busbar & bottom cable	F1	2-32	**ST30735**	**260**	12
	HK 32H	Both side cable (Front)	A2	4-32	**ST30754**	**330**	12
	HK 32B	Top busbar & bottom cable	A2	4-32	**ST30755**	**400**	12
63	HK 63H	Both side cable (Front)	A3	35-63	**ST30762**	**430**	6
	HK 63B	Top busbar & bottom cable	A3	35-63	**ST30763**	**510**	6
125	HK 125H	Both side cable (Front)	A4	80-125	**ST30770**	**1220**	3
	HK 125B	Top busbar & bottom cable	A4	80-125	**ST30771**	**1410**	3

Notes: 1) Add suffix "OOOO" to all cat nos.

Switch-Disconnector Units [8536]

Type FN & C-Line Switch Disconnector (2P/TPN/4P)

FN 2P S-D

FN TPN S-D

Features offered by S-D

- Range 32A to 2000A, 415V, AC 23A
- Conforms to IEC 60947-3, IS/IEC 60947-3
- Door interlock & padlock facility
- **Telescopic shaft for depth adjustment**
- Flip-able handle 1000A and above
- **Terminal shrouds on both sides**

Size	Rated Current (A)	Open Execution 2P S-D			Std. Pkg. (Nos.)	Open Execution TPN S-D*			Std. Pkg. (Nos.)
		Type	Cat. No.	M.R.P. (₹) Per Unit		Type	Cat. No.	M.R.P. (₹) Per Unit	
Fr 1	32	FN 32 2P	SK904180000	2260	1	FN 32 TPN / 4P	SK955410000	2960	1
	63	FN 63 2P	SK904190000	2670	1	FN 63 TPN / 4P	SK955400000	3470	1
Fr 2	100	FN 100 2P	SK904200000	4810	1	FN 100 TPN	SK955710000	6260	1
	125	FN 125 2P	SK904210000	6020	1	FN 125 TPN	SK954050000	7900	1
Fr 3	200	FN 200 2P	SK904500000	9870	1	FN 200 TPN	SK956070000	12180	1
	250	FN 250 2P	SK904540000	10820	1	FN 250 TPN	SK956830000	13890	1
Fr 4	315	FN 315 2P	SK904650000	14940	1	FN 315 TPN	SK956090000	16890	1
	400	FN 400 2P	SK904660000	15450	1	FN 400 TPN	SK956100000	19580	1
Fr 5	630	FN 630 2P	SK904670000	25240	1	FN 630 TPN	SK956110000	30740	1
	800	FN 800 2P	SK904680000	27090	1	FN 800 TPN	SK955510000	32960	1
	1000	FN 1000 2P	SK904690000	34910	1	FN 1000 TPN	SK957100000	50780	1
Fr 6	1000	-	-	-	-	C-Line SD 1000 4P$	COS10000040	58560	1
	1250	-	-	-	-	C-Line SD 1250 4P$	COS12500040	73000	1
	1600	-	-	-	-	C-Line SD 1600 4P$	COS16000040	91940	1
	2000	-	-	-	-	C-Line SD 2000 4P$	COS20000040	118240	1

$ For C-Line SD 3P (1000A to 2000A), please contact nearest branch office
* For Switched Neutral Pole in FN TPN S-D, order Switched Neutral Kit separately. Refer 'Spares & Accessories for type FN' table

Spares & Accessories for type FNX [8538]

Castell Type Lock

DIN Rail Assembly

Auxiliary Contact Kit

Handle Assembly

Description	Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact Kit (1NO + 1 NC)	FNX 32 / 63	SK91537	*	1
	FNX 100	SK91538	*	1
	FNX 125 / 160	SK91539	*	1
	FNX 200 / 250	SK91540	*	1
Handle Assembly	FNX 315 / 400 / 630 / 800	SK91541	*	1
	FNX 32 / 63 / 100	SK91524	*	1
	FNX 125 / 160 / 200 / 250	SK91525	*	1
	FNX 315 / 400 / 630 / 800	SK91526	*	1
Castell Type Lock$	FNX 32 / 63 / 100	SK91530	*	1
	FNX 125 / 160 / 200 / 250	SK91531	*	1
	FNX 315 / 400 / 630 / 800	SK91531	*	1
DIN Rail Assembly	FNX 32 / 63 / 100	SK91617	*	1

* Available on request

Fuse pulling handle [8538]

For Type HN fuse-link

For Type HF fuse-link

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fuse pulling handle for HF Fuse-link from 2A-63A	SK91185	250	1
Insulated fuse pulling handle for Type HN fuse-link from 63A-800A	SF90126	880	1

Spares & Accessories for type COS Switch-Disconnector [8538]

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact Kit (1 sets of C/O contact)	CXS6002	1060	1
Operating Handle	CXS6001	2270	1
Castell Type Lock$	CX60004	3000	1

$ Chapter ID [8301]

Also suitable for Switch-Disconnector FN 1000

Notes: 1) Add suffix "OOOO" to all cat nos. of Spares and Accessories.

Spares & Accessories for type FN [8538]

Handle Assembly

Earthing Link

Switched Neutral Kit

Auxiliary Contact Kit

Castell Type Lock

Description	Type		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact Kit (1NO + 1 NC)	FN 32 / 63		SK91302	630	1
	FN 100 / 125 / 160		SK91328	760	1
	FN 200 / 250		SK91329	1020	1
	FN 315 / 400 / 630		SK91330	1080	1
	FN 800		CK91034#	1080	1
2nd Aux. Contact (1NO + 1NC)	FN 32 / 63		SK90670	690	1
	FN 100 to FN 1000		SK90696	790	1
Earthing Link	FN 32 to FN 1000@		CK90396	610	1
Terminal Shroud Kit	FN 32 / 63		SK91190	220	1
	FN 100 / 125 / 160		SK91137	270	1
	FN 200 / 250		SK91335	770	1
	FN 315 / 400		SK91346	790	1
	FN 630 / 800		SK91347#	830	1
Handle Assembly - A	FN 32 / 63		SK91257	600	1
	FN 100 to FN 250		SK91258	1280	1
	FN 315 / 400 / 630 / 800		SK91259#	1410	1
Handle Assembly - B	FN 32 / 63		SK91277	600	1
	FN 100 to FN 250		SK91278	1280	1
	FN 315 / 400 / 630 / 800		SK91279#	1410	1
Handle Assembly - CE	FN 32 / 63		SK91337	350	1
Interphase Barrier Kit	FN 200		SK91343	540	1
	FN 315 / 400		SK91344	560	1
	FN 630 / 800		SK91345#	580	1
Castell Type Lock$	FN 100 / 125 / 160 / 200 / 250	A	SK00333	3000	1
		B	SK00334	3000	1
		C	SK00335	3000	1
		D	SK00336	3000	1
	FN 315 / 400 / 630 / 800	A	SK00345#	3000	1
		B	SK00346#	3000	1
		C	SK00347#	3000	1
		D	SK00348#	3000	1
Switched Neutral Kit	FN 100 / 125 / 160		SK95233	5770	1
	FN 200 / 250		SK95516	6150	1
	FN 315 / 400		SK95517	6650	1
	FN 630 / 800		SK95546#	9240	1

@For terminating earth busbar upto 25mm width. Order Qty 1 for 10 earthing links

d sine DZ MCCB Range [8536]

FEATURES TO MEET EVERY APPLICATION

Contact System
- **Double Break** with **low let-through** energy
- High Breaking Capacity up to **200kA @ 415V AC**
- **100kA @690V AC** at 100% Ics
- **50kA @ 800V AC** offering for Solar PV String inverters
- **1000V/1500V PV DC**

Thermal - Magnetic Release
- **Extended Overload Setting of 67%**
- **16A to 800A Offering**
- **Ambient Temperature Compensation**
- Suitable for wide temperature range

Mechanism
- **Class II Front Facia**
- Double Insulation
- Positive Isolation
- **High Electrical and Mechanical Life**

Microprocessor Release
- **Extended Overload Setting of 25%**
- **Individual Fault Indication** LEDs
- Battery Operated **In-built Display**
- **Advanced** Metering and Protection
- **Motor Protection Variant with effective Type 2 Coordination**

Modular Architecture
- **Compact Size**
- Late Personalization
- Interchangeability of Releases
- **Reduced Inventory** for internal accessories

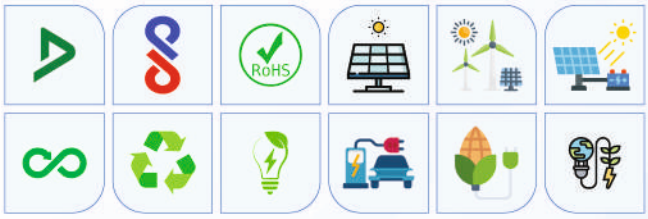
Modules
- **Temperature Monitoring** & Protection
- **Zone Selective Interlocking** for effective Selectivity
- **Communication Module** for metering & control
- Remote Operation for **Motorized MCCB**
- Breaker Status, Alarm & Trip with Records

CONNECTED TO DRIVE ENERGY EFFICIENCY

Data Analytics | **Trend Analysis** | **Real Time Monitoring**

Status & Control | **Metering & Protection** | **Data Acquisition**

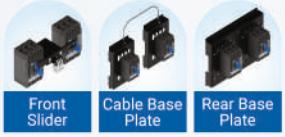
FUTURE READY FOR COMPLIANCE AND NEW APPLICATIONS



RESILIENT FOR BETTER SAFETY AND MAINTENANCE

Inventory & Application friendly Internal Accessories

Reduced Downtime with Plug-in & Drawout Modules



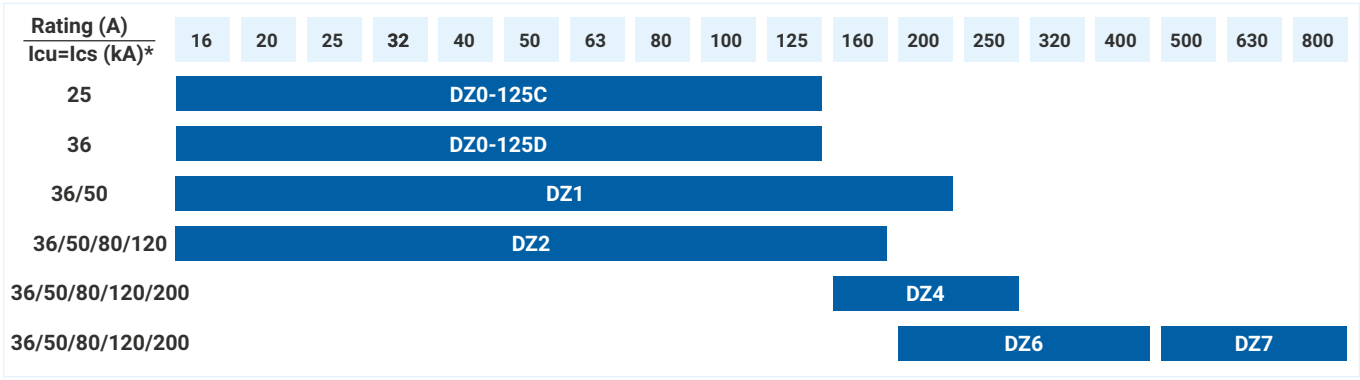
Multiple options for Mechanical Interlocking

Robust Rotary & Electrically Operated Mechanisms

Shrouds for increased personnel safety

Versatile Range of Terminations

New d sine DZ With Thermal - Magnetic Release



dsine-DZ0 TM

- Conforms to IS/IEC 60947-2
- 16A to 125A, 3P & 4P
- 25kA & 36kA breaking capacities
- Ics= 100% of Icu*
- Adjustable overload settings: 0.8 - 1.0 x In
- Fixed short-circuit settings: 10 x In
- Compact size
- Manual and Rotary versions available
- Wide range of accessories

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ0-125D*	13-16	36kA	DZ0T0016D5C1AOOOO	10500	DZ0F0016D5C1AOOOO	14600	1
	16-20		DZ0T0020D5C1AOOOO	10500	DZ0F0020D5C1AOOOO	14600	1
	20-25		DZ0T0025D5C1AOOOO	10500	DZ0F0025D5C1AOOOO	14600	1
	26-32		DZ0T0032D5C1AOOOO	10500	DZ0F0032D5C1AOOOO	14600	1
	32-40		DZ0T0040D5C1AOOOO	10500	DZ0F0040D5C1AOOOO	14600	1
	40-50		DZ0T0050D5C1AOOOO	10500	DZ0F0050D5C1AOOOO	14600	1
	50-63		DZ0T0063D5C1AOOOO	10200	DZ0F0063D5C1AOOOO	14200	1
	64-80		DZ0T0080D5C1AOOOO	10200	DZ0F0080D5C1AOOOO	14200	1
	80-100		DZ0T0100D5C1AOOOO	10200	DZ0F0100D5C1AOOOO	14200	1
	100-125		DZ0T0125D5C1AOOOO▲	13200	DZ0F0125D5C1AOOOO▲	17700	1
DZ0-125C	13-16	25kA	DZ0T0016CXC1AOOOO	10800	DZ0F0016CXC1AOOOO	15200	1
	16-20		DZ0T0020CXC1AOOOO	10800	DZ0F0020CXC1AOOOO	15200	1
	20-25		DZ0T0025CXC1AOOOO	10800	DZ0F0025CXC1AOOOO	15200	1
	26-32		DZ0T0032CXC1AOOOO	10800	DZ0F0032CXC1AOOOO	15200	1
	32-40		DZ0T0040CXC1AOOOO	10800	DZ0F0040CXC1AOOOO	15200	1
	40-50		DZ0T0050CXC1AOOOO	10800	DZ0F0050CXC1AOOOO	15200	1
	50-63		DZ0T0063CXC1AOOOO	10500	DZ0F0063CXC1AOOOO	14700	1
	64-80		DZ0T0080CXC1AOOOO	10500	DZ0F0080CXC1AOOOO	14700	1
	80-100		DZ0T0100CXC1AOOOO	10500	DZ0F0100CXC1AOOOO	14700	1
	100-125		DZ0T0125CXC1AOOOO▲	14500	DZ0F0125CXC1AOOOO▲	18300	1

▲- Spreader Terminals are included

Note:

Breaking Capacity: C = 25kA, D = 36kA

* DZ0-125D : Ics= 50% Icu

Phase barriers are supplied with all MCCBs

New d sine DZ With Thermal - Magnetic Release

dsine-DZ1 TM

- Conforms to IS/IEC 60947-2
- 16A to 800A, 3P & 4P
- 36kA, 50kA, 80kA,120kA & 200kA breaking capacities
- Ics= 100% of Icu
- Adjustable overload settings: 0.67 - 1.0 x In
- Adjustable short-circuit settings: 6 - 12 x In*
- Transparent sealable release cover
- Compact size
- Fixed, Plug-in, Drawout, Rotary and Motorised versions available
- Wide range of accessories

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ1-160D/ DZ1-200D	11-16	36kA	DZ1T0016DXC1AOOOO	12700	DZ1F0016DXC1AOOOO	15800	1
	14-20		DZ1T0020DXC1AOOOO	12700	DZ1F0020DXC1AOOOO	15800	1
	17-25		DZ1T0025DXC1AOOOO	12700	DZ1F0025DXC1AOOOO	15800	1
	22-32		DZ1T0032DXC1AOOOO	12700	DZ1F0032DXC1AOOOO	15800	1
	27-40		DZ1T0040DXC1AOOOO	12700	DZ1F0040DXC1AOOOO	15800	1
	34-50		DZ1T0050DXC1AOOOO	12700	DZ1F0050DXC1AOOOO	15800	1
	43-63		DZ1T0063DXD1AOOOO	12300	DZ1F0063DXD1AOOOO	15300	1
	54-80		DZ1T0080DXD1AOOOO	12300	DZ1F0080DXD1AOOOO	15300	1
	67-100		DZ1T0100DXD1AOOOO	12300	DZ1F0100DXD1AOOOO	15300	1
	84-125		DZ1T0125DXD1AOOOO	13800	DZ1F0125DXD1AOOOO	17100	1
	108-160		DZ1T0160DXD1AOOOO	18100	DZ1F0160DXD1AOOOO	21600	1
	134-200		DZ1T0200DXD1AOOOO▲	34900	DZ1F0200DXD1AOOOO▲	42400	1
DZ2-160D	11-16		DZ2T0016DXC1AOOOO	15200	DZ2F0016DXC1AOOOO	19000	1
	14-20		DZ2T0020DXC1AOOOO	15200	DZ2F0020DXC1AOOOO	19000	1
	17-25		DZ2T0025DXC1AOOOO	15200	DZ2F0025DXC1AOOOO	19000	1
	22-32		DZ2T0032DXC1AOOOO	15200	DZ2F0032DXC1AOOOO	19000	1
	27-40		DZ2T0040DXC1AOOOO	15200	DZ2F0040DXC1AOOOO	19000	1
	34-50		DZ2T0050DXC1AOOOO	15200	DZ2F0050DXC1AOOOO	19000	1
	43-63		DZ2T0063DXD1AOOOO	14700	DZ2F0063DXD1AOOOO	18400	1
	54-80		DZ2T0080DXD1AOOOO	14700	DZ2F0080DXD1AOOOO	18400	1
	67-100		DZ2T0100DXD1AOOOO	14700	DZ2F0100DXD1AOOOO	18400	1
	84-125		DZ2T0125DXD1AOOOO	16600	DZ2F0125DXD1AOOOO	20500	1
	108-160		DZ2T0160DXD1AOOOO	21700	DZ2F0160DXD1AOOOO	25900	1
DZ4-250D	108-160		DZ4T0160DXD1AOOOO	29800	DZ4F0160DXD1AOOOO	36800	1
	134-200		DZ4T0200DXD1AOOOO	34200	DZ4F0200DXD1AOOOO	41100	1
	168-250		DZ4T0250DXD1AOOOO	36000	DZ4F0250DXD1AOOOO	43300	1
DZ6-400D	134-200		DZ6T0200DXD1AOOOO	44500	DZ6F0200DXD1AOOOO	54300	1
	168-250		DZ6T0250DXD1AOOOO	46800	DZ6F0250DXD1AOOOO	57200	1
	215-320		DZ6T0320DXD1AOOOO	49300	DZ6F0320DXD1AOOOO	60200	1
	268-400		DZ6T0400DXD1AOOOO	49300	DZ6F0400DXD1AOOOO	60200	1
DZ7-800D	335-500		DZ7T0500DXD1AOOOO	54300	DZ7F0500DXD1AOOOO	68400	1
	422-630		DZ7T0630DXD1AOOOO	54300	DZ7F0630DXD1AOOOO	68400	1
	536-800		DZ7T0800DXD1AOOOO	73500	DZ7F0800DXD1AOOOO	93600	1

▲- Spreader Terminals are included

Note:
Breaking Capacity: D = 36kA, N = 50kA, H = 80kA
dsine DZ 120kA & 200kA @415V (Ics=100% Icu) MCCBs are available on request.
It is recommended to use spreader terminals for enhancing termination capacity
For Motor back-up protection, use 'M' series of MCCBs such as DZ0-N, DZ1-N, DZ4-N, DZ6-N, DZ7-N
* For DZ1 & DZ2 - 16A to 50A, Fixed Magnetic setting (375A)
For DZ7 630A / 800A, Magnetic setting from 6 In to 10 In / 6 In to 8 In respectively

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P.(₹) Per Unit	Cat No	M.R.P.(₹) Per Unit	
DZ1-160N/ DZ1-200N	11-16	50kA	DZ1T0016NXC1AOOOO	17000	DZ1F0016NXC1AOOOO	20400	1
	14-20		DZ1T0020NXC1AOOOO	17000	DZ1F0020NXC1AOOOO	20400	1
	17-25		DZ1T0025NXC1AOOOO	17000	DZ1F0025NXC1AOOOO	20400	1
	22-32		DZ1T0032NXC1AOOOO	17000	DZ1F0032NXC1AOOOO	20400	1
	27-40		DZ1T0040NXC1AOOOO	17000	DZ1F0040NXC1AOOOO	20400	1
	34-50		DZ1T0050NXC1AOOOO	17000	DZ1F0050NXC1AOOOO	20400	1
	43-63		DZ1T0063NXD1AOOOO	16500	DZ1F0063NXD1AOOOO	19800	1
	54-80		DZ1T0080NXD1AOOOO	16500	DZ1F0080NXD1AOOOO	19800	1
	67-100		DZ1T0100NXD1AOOOO	16500	DZ1F0100NXD1AOOOO	19800	1
	84-125		DZ1T0125NXD1AOOOO	21700	DZ1F0125NXD1AOOOO	23900	1
	108-160		DZ1T0160NXD1AOOOO	23500	DZ1F0160NXD1AOOOO	28100	1
	134-200		DZ1T0200NXD1AOOOO▲	38200	DZ1F0200NXD1AOOOO▲	47900	1
DZ2-160N	11-16		DZ2T0016NXC1AOOOO	20400	DZ2F0016NXC1AOOOO	24500	1
	14-20		DZ2T0020NXC1AOOOO	20400	DZ2F0020NXC1AOOOO	24500	1
	17-25		DZ2T0025NXC1AOOOO	20400	DZ2F0025NXC1AOOOO	24500	1
	22-32		DZ2T0032NXC1AOOOO	20400	DZ2F0032NXC1AOOOO	24500	1
	27-40		DZ2T0040NXC1AOOOO	20400	DZ2F0040NXC1AOOOO	24500	1
	34-50		DZ2T0050NXC1AOOOO	20400	DZ2F0050NXC1AOOOO	24500	1
	43-63		DZ2T0063NXD1AOOOO	19800	DZ2F0063NXD1AOOOO	23800	1
	54-80		DZ2T0080NXD1AOOOO	19800	DZ2F0080NXD1AOOOO	23800	1
	67-100		DZ2T0100NXD1AOOOO	19800	DZ2F0100NXD1AOOOO	23800	1
	84-125		DZ2T0125NXD1AOOOO	26000	DZ2F0125NXD1AOOOO	28700	1
	108-160		DZ2T0160NXD1AOOOO	28200	DZ2F0160NXD1AOOOO	33700	1
DZ4-250N	108-160		DZ4T0160NXD1AOOOO	34300	DZ4F0160NXD1AOOOO	43300	1
	134-200		DZ4T0200NXD1AOOOO	37400	DZ4F0200NXD1AOOOO	46900	1
	168-250		DZ4T0250NXD1AOOOO	39400	DZ4F0250NXD1AOOOO	49400	1
DZ6-400N	134-200		DZ6T0200NXD1AOOOO	44700	DZ6F0200NXD1AOOOO	55300	1
	168-250		DZ6T0250NXD1AOOOO	47100	DZ6F0250NXD1AOOOO	58200	1
	215-320		DZ6T0320NXD1AOOOO	49600	DZ6F0320NXD1AOOOO	61300	1
	268-400		DZ6T0400NXD1AOOOO	49600	DZ6F0400NXD1AOOOO	61300	1
DZ7-800N	335-500		DZ7T0500NXD1AOOOO	58600	DZ7F0500NXD1AOOOO	75700	1
	422-630		DZ7T0630NXD1AOOOO	58600	DZ7F0630NXD1AOOOO	75700	1
	536-800		DZ7T0800NXD1AOOOO	77600	DZ7F0800NXD1AOOOO	98800	1
DZ2-160H	11-16	80kA	DZ2T0016HXC1AOOOO	25100	DZ2F0016HXC1AOOOO	31900	1
	14-20		DZ2T0020HXC1AOOOO	25100	DZ2F0020HXC1AOOOO	31900	1
	17-25		DZ2T0025HXC1AOOOO	25100	DZ2F0025HXC1AOOOO	31900	1
	22-32		DZ2T0032HXC1AOOOO	25100	DZ2F0032HXC1AOOOO	31900	1
	27-40		DZ2T0040HXC1AOOOO	25100	DZ2F0040HXC1AOOOO	31900	1
	34-50		DZ2T0050HXC1AOOOO	25100	DZ2F0050HXC1AOOOO	31900	1
	43-63		DZ2T0063HXD1AOOOO	24300	DZ2F0063HXD1AOOOO	31000	1
	54-80		DZ2T0080HXD1AOOOO	24300	DZ2F0080HXD1AOOOO	31000	1
	67-100		DZ2T0100HXD1AOOOO	24300	DZ2F0100HXD1AOOOO	31000	1
	84-125		DZ2T0125HXD1AOOOO	41700	DZ2F0125HXD1AOOOO	46100	1
	108-160		DZ2T0160HXD1AOOOO	44400	DZ2F0160HXD1AOOOO	49700	1
DZ4-250H	108-160		DZ4T0160HXD1AOOOO	46900	DZ4F0160HXD1AOOOO	52400	1
	134-200		DZ4T0200HXD1AOOOO	54500	DZ4F0200HXD1AOOOO	65600	1
	168-250		DZ4T0250HXD1AOOOO	56800	DZ4F0250HXD1AOOOO	68300	1
DZ6-400H	134-200		DZ6T0200HXD1AOOOO	60100	DZ6F0200HXD1AOOOO	71100	1
	168-250		DZ6T0250HXD1AOOOO	62000	DZ6F0250HXD1AOOOO	73300	1
	215-320		DZ6T0320HXD1AOOOO	63900	DZ6F0320HXD1AOOOO	75600	1
	268-400		DZ6T0400HXD1AOOOO	63900	DZ6F0400HXD1AOOOO	75600	1
DZ7-800H	335-500		DZ7T0500HXD1AOOOO	74600	DZ7F0500HXD1AOOOO	88900	1
	422-630		DZ7T0630HXD1AOOOO	74600	DZ7F0630HXD1AOOOO	88900	1
	536-800		DZ7T0800HXD1AOOOO	86800	DZ7F0800HXD1AOOOO	113400	1

New d sine DZ MCCB with Microprocessor Release

Rating (A) / Icu (kA)	40	63	100	160	200	250	400	630	800	1000
36/50	DZ1									
36/50/80/120	DZ2									
36/50/80/120/200				DZ4		DZ4				
36/50/80/120/200						DZ6		DZ7		

d sine DZ MCCB with Microprocessor Release iTRP1

dsine-DZ iTRP1

- Conforms to IS/IEC 60947-2
- 16A to 1000A, 3P & 4P
- 36kA, 50kA, 80kA, 120kA & 200kA breaking capacities
- Ics=100% Icu
- Adjustable overload setting from 0.25 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 12 x Ir*
- Switchable thermal memory
- Variable trip class
- Transparent sealable release cover
- Compact size
- Fixed, Plug-in, Drawout, Rotary and Motorised versions available
- Wide range of accessories

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ1-160D#/ DZ1-200D	10-40	36kA	DZ1T0040DXF1AOOOO	22800	DZ1F0040DXF1AOOOO	27800	1
	16-63		DZ1T0063DXF1AOOOO	22800	DZ1F0063DXF1AOOOO	27800	1
	25-100		DZ1T0100DXF1AOOOO	22800	DZ1F0100DXF1AOOOO	27800	1
	40-160		DZ1T0160DXF1AOOOO	26900	DZ1F0160DXF1AOOOO	37400	1
	50-200		DZ1T0200DXF1AOOOO ▲	39300	DZ1F0200DXF1AOOOO ▲	54400	1
DZ2-160D	10-40		DZ2T0040DXF1AOOOO	27400	DZ2F0040DXF1AOOOO	33400	1
	16-63		DZ2T0063DXF1AOOOO	27400	DZ2F0063DXF1AOOOO	33400	1
	25-100		DZ2T0100DXF1AOOOO	27400	DZ2F0100DXF1AOOOO	33400	1
	40-160		DZ2T0160DXF1AOOOO	32300	DZ2F0160DXF1AOOOO	44900	1
DZ4-250D	40-160		DZ4T0160DXF1AOOOO	38900	DZ4F0160DXF1AOOOO	54100	1
	63-250		DZ4T0250DXF1AOOOO	40500	DZ4F0250DXF1AOOOO	56100	1
DZ6-400D	63-250		DZ6T0250DXF1AOOOO	47300	DZ6F0250DXF1AOOOO	61300	1
	100-400		DZ6T0400DXF1AOOOO	49800	DZ6F0400DXF1AOOOO	64500	1
DZ7-800D/ DZ7-1000D	158-630		DZ7T0630DXF1AOOOO	59000	DZ7F0630DXF1AOOOO	72900	1
	200-800		DZ7T0800DXF1AOOOO	80000	DZ7F0800DXF1AOOOO	99000	1
	250-1000		DZ7T1000DXF1AOOOO ▲	126100	DZ7F1000DXF1AOOOO ▲	174900	1
DZ1-160N#/ DZ1-200N	10-40	50kA	DZ1T0040NXF1AOOOO	26400	DZ1F0040NXF1AOOOO	36500	1
	16-63		DZ1T0063NXF1AOOOO	26400	DZ1F0063NXF1AOOOO	36500	1
	25-100		DZ1T0100NXF1AOOOO	26400	DZ1F0100NXF1AOOOO	36500	1
	40-160		DZ1T0160NXF1AOOOO	33200	DZ1F0160NXF1AOOOO	43500	1
	50-200		DZ1T0200NXF1AOOOO ▲	46300	DZ1F0200NXF1AOOOO ▲	58700	1
DZ2-160N	10-40		DZ2T0040NXF1AOOOO	31700	DZ2F0040NXF1AOOOO	43800	1
	16-63		DZ2T0063NXF1AOOOO	31700	DZ2F0063NXF1AOOOO	43800	1
	25-100		DZ2T0100NXF1AOOOO	31700	DZ2F0100NXF1AOOOO	43800	1
	40-160		DZ2T0160NXF1AOOOO	39800	DZ2F0160NXF1AOOOO	52200	1

New d sine DZ MCCB with Microprocessor Release iTRP1

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ4-250N	40-160	50kA	DZ4T0160NXF1AOOOO	46300	DZ4F0160NXF1AOOOO	59200	1
	63-250		DZ4T0250NXF1AOOOO	47700	DZ4F0250NXF1AOOOO	60500	1
DZ6-400N	63-250		DZ6T0250NXF1AOOOO	51800	DZ6F0250NXF1AOOOO	67500	1
	100-400		DZ6T0400NXF1AOOOO	54500	DZ6F0400NXF1AOOOO	71000	1
DZ7-800N/ DZ7-1000N	158-630		DZ7T0630NXF1AOOOO	64000	DZ7F0630NXF1AOOOO	78000	1
	200-800		DZ7T0800NXF1AOOOO	89900	DZ7F0800NXF1AOOOO	114400	1
	250-1000		DZ7T1000NXF1AOOOO▲	154100	DZ7F1000NXF1AOOOO▲	213700	1
DZ2-160H	10-40	80kA	DZ2T0040HXF1AOOOO	37000	DZ2F0040HXF1AOOOO	46100	1
	16-63		DZ2T0063HXF1AOOOO	37000	DZ2F0063HXF1AOOOO	46100	1
	25-100		DZ2T0100HXF1AOOOO	37000	DZ2F0100HXF1AOOOO	46100	1
	40-160		DZ2T0160HXF1AOOOO	48400	DZ2F0160HXF1AOOOO	60600	1
DZ4-250H	40-160		DZ4T0160HXF1AOOOO	51000	DZ4F0160HXF1AOOOO	63900	1
	63-250		DZ4T0250HXF1AOOOO	57200	DZ4F0250HXF1AOOOO	78700	1
DZ6-400H	63-250		DZ6T0250HXF1AOOOO	66800	DZ6F0250HXF1AOOOO	88200	1
	100-400		DZ6T0400HXF1AOOOO	70300	DZ6F0400HXF1AOOOO	92800	1
DZ7-800H/ DZ7-1000H	158-630		DZ7T0630HXF1AOOOO	74900	DZ7F0630HXF1AOOOO	109000	1
	200-800		DZ7T0800HXF1AOOOO	106000	DZ7F0800HXF1AOOOO	138600	1
	250-1000		DZ7T1000HXF1AOOOO▲	173900	DZ7F1000HXF1AOOOO▲	251600	1

▲- Spreader Terminals are included
*** For DZ7 630A / 800A & 1000A: Magnetic setting from 1.5 In to 10 In / 1.5 In to 8 In respectively**
 # For 25A, please contact nearest branch office

Note:
Breaking Capacity: D = 36kA, N = 50kA, H = 80kA
dsine DZ 120kA & 200kA @415V (Ics=100% Icu) MCCBs are available on request.
It is recommended to use spreader terminals for enhancing termination capacity
dsine DZ Selectivity Version MCCBs are available on request.

New d sine DZ MCCB with Microprocessor Release iTRP3

dsine-DZ iTRP3

- Conforms to IS/IEC 60947-2
- 16A to 1000A, 3P & 4P
- 36kA, 50kA, 80kA, 120kA & 200kA breaking capacities
- Ics=100% Icu
- Adjustable overload setting from 0.25 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 12 x Ir*
- Adjustable Instantaneous setting, 6 In & 12 In
- Inbuilt ground fault protection from 20% to 70% of In
- Adjustable neutral overload protection from 50% to 200% of Ir
- Switchable thermal memory
- Provision for release testing
- Individual fault indication LEDs
- Transparent sealable release cover
- Compact size
- Fixed, Plug-in, Drawout, Rotary and Motorised versions available
- Wide range of accessories

New d sine DZ MCCB with Microprocessor Release iTRP3

Type	Overload Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ1-160D#/ DZ1-200D	10-40	36kA	DZ1T0040DXH1AOOOO	37900	DZ1F0040DXH1AOOOO	44200	1
	16-63		DZ1T0063DXH1AOOOO	37900	DZ1F0063DXH1AOOOO	44200	1
	25-100		DZ1T0100DXH1AOOOO	37900	DZ1F0100DXH1AOOOO	44200	1
	40-160		DZ1T0160DXH1AOOOO	43600	DZ1F0160DXH1AOOOO	53700	1
	50-200		DZ1T0200DXH1AOOOO ▲	56300	DZ1F0200DXH1AOOOO ▲	69100	1
DZ2-160D	10-40		DZ2T0040DXH1AOOOO	45500	DZ2F0040DXH1AOOOO	53000	1
	16-63		DZ2T0063DXH1AOOOO	45500	DZ2F0063DXH1AOOOO	53000	1
	25-100		DZ2T0100DXH1AOOOO	45500	DZ2F0100DXH1AOOOO	53000	1
	40-160		DZ2T0160DXH1AOOOO	52300	DZ2F0160DXH1AOOOO	64400	1
DZ4-250D	40-160		DZ4T0160DXH1AOOOO	57300	DZ4F0160DXH1AOOOO	70400	1
	63-250		DZ4T0250DXH1AOOOO	58000	DZ4F0250DXH1AOOOO	71200	1
DZ6-400D	63-250		DZ6T0250DXH1AOOOO	65200	DZ6F0250DXH1AOOOO	75500	1
	100-400		DZ6T0400DXH1AOOOO	68600	DZ6F0400DXH1AOOOO	79500	1
DZ7-800D/ DZ7-1000D	158-630		DZ7T0630DXH1AOOOO	75100	DZ7F0630DXH1AOOOO	91000	1
	200-800		DZ7T0800DXH1AOOOO	100800	DZ7F0800DXH1AOOOO	119700	1
	250-1000		DZ7T1000DXH1AOOOO ▲	146800	DZ7F1000DXH1AOOOO ▲	193800	1
DZ1-160N#/ DZ1-200N	10-40	50kA	DZ1T0040NXH1AOOOO	42000	DZ1F0040NXH1AOOOO	50100	1
	16-63		DZ1T0063NXH1AOOOO	42000	DZ1F0063NXH1AOOOO	50100	1
	25-100		DZ1T0100NXH1AOOOO	42000	DZ1F0100NXH1AOOOO	50100	1
	40-160		DZ1T0160NXH1AOOOO	49900	DZ1F0160NXH1AOOOO	59800	1
	50-200		DZ1T0200NXH1AOOOO ▲	63600	DZ1F0200NXH1AOOOO ▲	77300	1
DZ2-160N	10-40		DZ2T0040NXH1AOOOO	50400	DZ2F0040NXH1AOOOO	60100	1
	16-63		DZ2T0063NXH1AOOOO	50400	DZ2F0063NXH1AOOOO	60100	1
	25-100		DZ2T0100NXH1AOOOO	50400	DZ2F0100NXH1AOOOO	60100	1
	40-160		DZ2T0160NXH1AOOOO	59900	DZ2F0160NXH1AOOOO	71800	1
DZ4-250N	40-160		DZ4T0160NXH1AOOOO	63000	DZ4F0160NXH1AOOOO	76400	1
	63-250		DZ4T0250NXH1AOOOO	65600	DZ4F0250NXH1AOOOO	79700	1
DZ6-400N	63-250		DZ6T0250NXH1AOOOO	68600	DZ6F0250NXH1AOOOO	81700	1
	100-400		DZ6T0400NXH1AOOOO	72200	DZ6F0400NXH1AOOOO	86000	1
DZ7-800N/ DZ7-1000N	158-630		DZ7T0630NXH1AOOOO	79900	DZ7F0630NXH1AOOOO	102900	1
	200-800		DZ7T0800NXH1AOOOO	123200	DZ7F0800NXH1AOOOO	146300	1
	250-1000		DZ7T1000NXH1AOOOO ▲	179400	DZ7F1000NXH1AOOOO ▲	236800	1
DZ2-160H	10-40	80kA	DZ2T0040HXH1AOOOO	60000	DZ2F0040HXH1AOOOO	71300	1
	16-63		DZ2T0063HXH1AOOOO	60000	DZ2F0063HXH1AOOOO	71300	1
	25-100		DZ2T0100HXH1AOOOO	60000	DZ2F0100HXH1AOOOO	71300	1
	40-160		DZ2T0160HXH1AOOOO	71400	DZ2F0160HXH1AOOOO	79600	1
DZ4-250H	40-160		DZ4T0160HXH1AOOOO	75300	DZ4F0160HXH1AOOOO	86900	1
	63-250		DZ4T0250HXH1AOOOO	86200	DZ4F0250HXH1AOOOO	101500	1
DZ6-400H	63-250		DZ6T0250HXH1AOOOO	92700	DZ6F0250HXH1AOOOO	116000	1
	100-400		DZ6T0400HXH1AOOOO	97600	DZ6F0400HXH1AOOOO	122100	1
DZ7-800H/ DZ7-1000H	158-630		DZ7T0630HXH1AOOOO	105700	DZ7F0630HXH1AOOOO	145200	1
	200-800		DZ7T0800HXH1AOOOO	141900	DZ7F0800HXH1AOOOO	177100	1
	250-1000		DZ7T1000HXH1AOOOO ▲	219000	DZ7F1000HXH1AOOOO ▲	284100	1

▲- Spreader Terminals are included
*** For DZ7 630A / 800A & 1000A: Magnetic setting from 1.5 In to 10 In / 1.5 In to 8 In respectively**
 # For 25A, please contact nearest branch office

Note:
Breaking Capacity : D = 36kA, N = 50kA, H = 80kA
dsine DZ 120kA & 200kA @415V (Ics=100% Icu) MCCBs are available on request.
It is recommended to use spreader terminals for enhancing termination capacity
dsine DZ Selectivity Version MCCBs are available on request.

d sine DZ MCCB Range [8536]

New

Rating (A) / Icu (kA)	40	63	100	160	200	250	400	630	800	1000
	DZ1[$]									
36/50/80/120	DZ2									
36/50/80/120/200				DZ4		DZ4				
36/50/80/120/200						DZ6		DZ7		

[$] iTRP4 Only

d sine DZ MCCB with Microprocessor Releases iTRP4 & iTRP5

- Confirms to IS/IEC 60947-2
- 16A to 1000A, 3P & 4P
- 36kA, 50kA, 80kA, 120kA & 200kA breaking capacities
- Ics=100% Icu
- Adjustable Overload Settings from 0.25 to 1 In (in steps of 0.01)
- Adjustable Short Circuit Settings from 1.5 to 12 Ir (in steps of 0.1)
- Adjustable Instantaneous Settings from 1.5 to 12 Ir (in steps of 0.1)
- In-built Ground Fault Protection from 0.1 to 1 In (in steps of 0.05)
- Adjustable Neutral Overload Protection from 50% to 160% of Ir
- Local LCD Display Menu Navigation using Keypad
- Modbus RTU Communication Capable
- Switchable Thermal Memory
- Provision for Release Testing
- Variable trip class
- Transparent sealable release cover
- Compact size
- Wide range of accessories

Advance Metering Solution

Measurement & Diagnostics

- Advanced Current based protection function via iTRP4 Release
- Advanced Energy based protection function via iTRP5 Release
- I^2T, SI, LI-VI based over load curves
- Advanced Protections like Maximum Demand, Phase Sequence, THD etc
- Common Fault Indication and Diagnostic LED
- Self, Auxiliary and Battery Mode
- Trip & Event Records available
- Communication module for remote monitoring & control
- Temperature module with thermal sensors for online temperature monitoring
- Zone Selective Interlocking (ZSI) module for system level coordination of faults

Accessories for iTRP4 & iTRP5 [8538]

Modules	Details
Communication Module	*
Temperature Module (with Thermal Sensors)	
Zone Selective Interlocking Module	
Programmable Relay Module	

*** On request**

New d sine DZ MCCBs for Motor back-up Protection

- Range: 16A to 800A, 50kA
- Suitable for isolation
- Wide Range of snap fit Internal and External Accessories

3 Pole					
Type	Current Rating (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DZ0-125N	32	50kA	DZ0T0032N5M1AOOOO	7020	1
	40		DZ0T0040N5M1AOOOO	7020	1
	63		DZ0T0063N5M1AOOOO	7020	1
	80		DZ0T0080N5M1AOOOO	7020	1
	100		DZ0T0100N5M1AOOOO	7020	1
	125		DZ0T0125N5M1AOOOO▲	9100	1
DZ1-160N/ DZ1-200N	32		DZ1T0032NXM1AOOOO	9190	1
	40		DZ1T0040NXM1AOOOO	9190	1
	63		DZ1T0063NXM1AOOOO	9110	1
	80		DZ1T0080NXM1AOOOO	9110	1
	100		DZ1T0100NXM1AOOOO	9110	1
	125		DZ1T0125NXM1AOOOO	9260	1
	160		DZ1T0160NXM1AOOOO	11000	1
	200		DZ1T0200NXM1AOOOO▲	20400	1
DZ4-250N	250		DZ4T0250NXM1AOOOO	24200	1
DZ6-400N	320		DZ6T0320NXM1AOOOO	30600	1
	400		DZ6T0400NXM1AOOOO	32100	1
DZ7-800N	500		DZ7T0500NXM1AOOOO	35400	1
	630		DZ7T0630NXM1AOOOO	37600	1
	800		DZ7T0800NXM1AOOOO	39200	1

Representative Application Image

▲- Spreader Terminals are included

Note:
Please contact nearest branch office for Fuseless Type 2 Co-ordination selection charts.
For Microprocessor based Motor back-up Protection MCCBs, please contact nearest branch office.
For lower HP Motors, Please select MMS. Details are given on page no.21

DZ 800V MCCB Range [8536]

New

Rating (A) / Icu (kA) @ 800V	200	250	320	400	500	630
25/36/50	DZ6					
36/50					DZ7	

dsine-DZ TM

- Conforms to IS/IEC 60947-2
- 200A to 630A, 3P/4P
- 25kA, 36kA & 50kA @800V breaking capacities
- Rated insulation voltage: 1250V AC rms
- Adjustable overload settings: 0.67 - 1.0 x In
- Adjustable short-circuit settings: 6 - 12 x In**
- Transparent sealable release cover
- Ambient Temperature Compensation
- High Electrical & Mechanical life***
- Manual and Rotary versions available
- Wide range of accessories

DZ 800V with Thermal - Magnetic Release

Type	Overload Release Range (A)	Breaking Capacity Icu at 800V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ6-400W	134-200	25kA	DZ6T0200WXD1AOOOO	*	DZ6F0200WXD1AOOOO	*	1
	168-250		DZ6T0250WXD1AOOOO		DZ6F0250WXD1AOOOO		1
DZ6-400Y	134-200	36kA	DZ6T0200YXD1AOOOO	*	DZ6F0200YXD1AOOOO	*	1
	168-250		DZ6T0250YXD1AOOOO		DZ6F0250YXD1AOOOO		1
	214-320		DZ6T0320YXD1AOOOO		DZ6F0320YXD1AOOOO		1
	268-400		DZ6T0400YXD1AOOOO		DZ6F0400YXD1AOOOO		1
DZ7-800Y	335-500		DZ7T0500YXD1AOOOO		DZ7F0500YXD1AOOOO		1
	422-630		DZ7T0630YXD1AOOOO		DZ7F0630YXD1AOOOO		1
DZ6-400Z	134-200	50kA	DZ6T0200Z8D1AOOOO	*	DZ6F0200Z8D1AOOOO	*	1
	168-250		DZ6T0250Z8D1AOOOO		DZ6F0250Z8D1AOOOO		1
	214-320		DZ6T0320Z8D1AOOOO		DZ6F0320Z8D1AOOOO		1
	268-400		DZ6T0400Z8D1AOOOO		DZ6F0400Z8D1AOOOO		1
DZ7-800Z	335-500		DZ7T0500ZXD1AOOOO		DZ7F0500ZXD1AOOOO		1
	422-630		DZ7T0630ZXD1AOOOO		DZ7F0630ZXD1AOOOO		1

*** Price on request**
**** For DZ7 630A - Magnetic setting from 6 In to 10 In**
***** Mechanical Life - 20000 Operations; Electrical Life - 4000 Operations (DZ6) & 2500 Operations (DZ7)**

General Information
- Ambient temperature compensation in MCCBs helps prevent nuisance tripping by adjusting for temperature variations that affect the thermal elements. High ambient temperatures can cause premature tripping, while low temperatures may delay it. This is most suitable for Solar application.

DZ 800V MCCB Range [8536]

New

Rating (A) / Icu (kA) @ 800V	125	160	200	250	320	400	500	630	800
25/36/50	DZ6								
36/50							DZ7		

dsine-DZ iTRP1

- Conforms to IS/IEC 60947-2
- 125A to 800A, 3P/4P
- 25kA, 36kA & 50kA @800V breaking capacities
- Rated insulation voltage: 1250V AC rms
- Adjustable overload setting from 0.25 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 12 x Ir**
- Switchable thermal memory
- Variable trip class
- Transparent sealable release cover
- Ambient Temperature Compensation
- High Electrical & Mechanical life***
- Manual and Rotary versions available
- Wide range of accessories

DZ 800V with Microprocessor Release iTRP1

Type	Overload Release Range (A)	Breaking Capacity Icu at 800V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ6-400W	31-125	25kA	DZ6T0125WXF1AOOOO	*	DZ6F0125WXF1AOOOO	*	1
	40-160		DZ6T0160WXF1AOOOO		DZ6F0160WXF1AOOOO		1
	50-200		DZ6T0200WXF1AOOOO		DZ6F0200WXF1AOOOO		1
	63-250		DZ6T0250WXF1AOOOO		DZ6F0250WXF1AOOOO		1
	80-320		DZ6T0320WXF1AOOOO		DZ6F0320WXF1AOOOO		1
	100-400		DZ6T0400WXF1AOOOO		DZ6F0400WXF1AOOOO		1
DZ6-400Y	31-125	36kA	DZ6T0125YXF1AOOOO	*	DZ6F0125YXF1AOOOO	*	1
	40-160		DZ6T0160YXF1AOOOO		DZ6F0160YXF1AOOOO		1
	50-200		DZ6T0200YXF1AOOOO		DZ6F0200YXF1AOOOO		1
	63-250		DZ6T0250YXF1AOOOO		DZ6F0250YXF1AOOOO		1
	80-320		DZ6T0320YXF1AOOOO		DZ6F0320YXF1AOOOO		1
	100-400		DZ6T0400YXF1AOOOO		DZ6F0400YXF1AOOOO		1
DZ7-800Y	125-500		DZ7T0500YXF1AOOOO		DZ7F0500YXF1AOOOO		1
	156-630		DZ7T0630YXF1AOOOO		DZ7F0630YXF1AOOOO		1
	200-800		DZ7T0800YXF1AOOOO		DZ7F0800YXF1AOOOO		1
DZ6-400Z	31-125	50kA	DZ6T0125Z8F1AOOOO	*	DZ6F0125Z8F1AOOOO	*	1
	40-160		DZ6T0160Z8F1AOOOO		DZ6F0160Z8F1AOOOO		1
	50-200		DZ6T0200Z8F1AOOOO		DZ6F0200Z8F1AOOOO		1
	63-250		DZ6T0250Z8F1AOOOO		DZ6F0250Z8F1AOOOO		1
	80-320		DZ6T0320Z8F1AOOOO		DZ6F0320Z8F1AOOOO		1
	100-400		DZ6T0400Z8F1AOOOO		DZ6F0400Z8F1AOOOO		1
DZ7-800Z	125-500		DZ7T0500ZXF1AOOOO		DZ7F0500ZXF1AOOOO		1
	156-630		DZ7T0630ZXF1AOOOO		DZ7F0630ZXF1AOOOO		1
	200-800		DZ7T0800ZXF1AOOOO		DZ7F0800ZXF1AOOOO		1

*** Price on request**
**** For DZ7 630A / 800A, Magnetic setting from 1.5 In to 10 In / 1.5 In to 8 In respectively**
***** Mechanical Life - 20000 Operations; Electrical Life - 4000 Operations (DZ6) & 2500 Operations (DZ7)**

DZ 800V MCCB Range [8536]

New

Rating (A) / Icu (kA) @ 800V	125	160	200	250	320	400	500	630	800
25/36/50	DZ6								
36/50							DZ7		

dsine-DZ iTRP3

- Conforms to IS/IEC 60947-2
- 125A to 800A, 3P/4P
- 25kA, 36kA & 50kA @800V breaking capacities
- Rated insulation voltage: 1250V AC rms
- Adjustable overload setting from 0.25 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 12 x Ir**
- Adjustable Instantaneous setting, 6 In & 12 In
- Inbuilt ground fault protection from 20% to 70% of In
- Adjustable neutral overload protection from 50% to 200% of Ir
- Switchable thermal memory
- Variable trip class
- Individual fault indication LEDs
- Transparent sealable release cover
- Ambient Temperature Compensation
- High Electrical & Mechanical life***
- Manual and Rotary versions available
- Wide range of accessories

DZ 800V with Microprocessor Release iTRP3

Type	Overload Release Range (A)	Breaking Capacity Icu at 800V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat No	M.R.P. (₹) Per Unit	Cat No	M.R.P. (₹) Per Unit	
DZ6-400W	31-125	25kA	DZ6T0125WXH1AOOOO	*	DZ6F0125WXH1AOOOO	*	1
	40-160		DZ6T0160WXH1AOOOO		DZ6F0160WXH1AOOOO		1
	50-200		DZ6T0200WXH1AOOOO		DZ6F0200WXH1AOOOO		1
	63-250		DZ6T0250WXH1AOOOO		DZ6F0250WXH1AOOOO		1
	80-320		DZ6T0320WXH1AOOOO		DZ6F0320WXH1AOOOO		1
	100-400		DZ6T0400WXH1AOOOO		DZ6F0400WXH1AOOOO		1
DZ6-400Y	31-125	36kA	DZ6T0125YXH1AOOOO	*	DZ6F0125YXH1AOOOO	*	1
	40-160		DZ6T0160YXH1AOOOO		DZ6F0160YXH1AOOOO		1
	50-200		DZ6T0200YXH1AOOOO		DZ6F0200YXH1AOOOO		1
	63-250		DZ6T0250YXH1AOOOO		DZ6F0250YXH1AOOOO		1
	80-320		DZ6T0320YXH1AOOOO		DZ6F0320YXH1AOOOO		1
	100-400		DZ6T0400YXH1AOOOO		DZ6F0400YXH1AOOOO		1
DZ7-800Y	125-500		DZ7T0500YXH1AOOOO		DZ7F0500YXH1AOOOO		1
	156-630		DZ7T0630YXH1AOOOO		DZ7F0630YXH1AOOOO		1
	200-800		DZ7T0800YXH1AOOOO		DZ7F0800YXH1AOOOO		1
DZ6-400Z	31-125	50kA	DZ6T0125Z8H1AOOOO	*	DZ6F0125Z8H1AOOOO	*	1
	40-160		DZ6T0160Z8H1AOOOO		DZ6F0160Z8H1AOOOO		1
	50-200		DZ6T0200Z8H1AOOOO		DZ6F0200Z8H1AOOOO		1
	63-250		DZ6T0250Z8H1AOOOO		DZ6F0250Z8H1AOOOO		1
	80-320		DZ6T0320Z8H1AOOOO		DZ6F0320Z8H1AOOOO		1
	100-400		DZ6T0400Z8H1AOOOO		DZ6F0400Z8H1AOOOO		1
DZ7-800Z	125-500		DZ7T0500ZXH1AOOOO		DZ7F0500ZXH1AOOOO		1
	156-630		DZ7T0630ZXH1AOOOO		DZ7F0630ZXH1AOOOO		1
	200-800		DZ7T0800ZXH1AOOOO		DZ7F0800ZXH1AOOOO		1

*** Price on request**
**** For DZ7 630A / 800A, Magnetic setting from 1.5 In to 10 In / 1.5 In to 8 In respectively**
***** Mechanical Life - 20000 Operations; Electrical Life - 4000 Operations (DZ6) & 2500 Operations (DZ7)**

Accessories for d sine DZ MCCBs [8538]

New

Auxiliary Contact
Trip Alarm Contact

Shunt Release

UV Release

Internal Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxillary Contact/ Trip Alarm Contact [8538]			
DZ0 Aux/TAC 1 C/o	**EM90966OOOO**	**745**	1
DZ1/2/4 Aux/TAC 1 C/o	**EM901100OOO**	**1170**	1
DZ6/7 Aux/TAC 1 C/o	**EM901140OOO**	**1270**	1
Shunt Release [8538]			
DZ0 Shunt 110/240/415V AC	**EM90520OMOO**	**1005**	1
DZ1/2/4 Shunt 415V AC	**EM90032OPOO**	**3100**	1
DZ1/2/4 Shunt 240V AC	**EM90032OBOO**	**3100**	1
DZ1/2/4 Shunt 110V AC	**EM90032OAOO**	**3100**	1
DZ1/2/4 Shunt 48V AC	**EM90032OJOO**	**3100**	1
DZ1/2/4 Shunt 24V AC	**EM90032OGOO**	**3100**	1
DZ1/2/4 Shunt 220V DC	**EM90032O2OO**	**3100**	1
DZ1/2/4 Shunt 110V DC	**EM90032O1OO**	**3100**	1
DZ1/2/4 Shunt 48V DC	**EM90032O5OO**	**3100**	1
DZ1/2/4 Shunt 24V DC	**EM90032O4OO**	**3100**	1
DZ1/2/4 Shunt 12V DC	**EM90032O3OO**	**3100**	1
DZ6/7 Shunt 415V DC	**EM90034OPOO**	**3480**	1
DZ6/7 Shunt 240V DC	**EM90034OBOO**	**3480**	1
DZ6/7 Shunt 110V DC	**EM90034OEOO**	**3480**	1
DZ6/7 Shunt 48V DC	**EM90034OJOO**	**3480**	1
DZ6/7 Shunt 24V DC	**EM90034OGOO**	**3480**	1
DZ6/7 Shunt 220V DC	**EM90034O2OO**	**3480**	1
DZ6/7 Shunt 110V DC	**EM90034O1OO**	**3480**	1
DZ6/7 Shunt 48V DC	**EM90034O5OO**	**3480**	1
DZ6/7 Shunt 24V DC	**EM90034O4OO**	**3480**	1
DZ6/7 Shunt 12V DC	**EM90034O3OO**	**3480**	1

Internal Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Under Voltage Release [8538]			
DZ0 UVR 240V AC	**EM90518BOOO**	**3050**	1
DZ1/2/4 UVR 415V AC	**EM90031POOO**	**3900**	1
DZ1/2/4 UVR 240V AC	**EM90031BOOO**	**3900**	1
DZ1/2/4 UVR 110V AC	**EM90031EOOO**	**3900**	1
DZ1/2/4 UVR 48V AC	**EM90031JOOO**	**3900**	1
DZ1/2/4 UVR 24V AC	**EM90031GOOO**	**3900**	1
DZ1/2/4 UVR 220V DC	**EM900312OOO**	**3900**	1
DZ1/2/4 UVR 110V DC	**EM900311OOO**	**3900**	1
DZ1/2/4 UVR 48V DC	**EM900315OOO**	**3900**	1
DZ1/2/4 UVR 24V DC	**EM900314OOO**	**3900**	1
DZ1/2/4 UVR 12V DC	**EM900313OOO**	**3900**	1
DZ6/7 UVR 415V AC	**EM90033POOO**	**4340**	1
DZ6/7 UVR 240V AC	**EM90033BOOO**	**4340**	1
DZ6/7 UVR 110V AC	**EM90033EOOO**	**4340**	1
DZ6/7 UVR 48V AC	**EM90033JOOO**	**4340**	1
DZ6/7 UVR 24V AC	**EM90033GOOO**	**4340**	1
DZ6/7 UVR 220V DC	**EM900332OOO**	**4340**	1
DZ6/7 UVR 110V DC	**EM900331OOO**	**4340**	1
DZ6/7 UVR 48V DC	**EM900335OOO**	**4340**	1
DZ6/7 UVR 24V DC	**EM900334OOO**	**4340**	1
DZ6/7 UVR 12V DC	**EM900333OOO**	**4340**	1

Accessories for d sine DZ MCCBs [8538]

New

Direct ROM

Extended ROM

Key Lock

EOM

Spreaders Terminals

Rear Terminals

Box Clamp Terminals

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Rotary Mechanism (Direct/Extended) [8538]			
DZ0 Direct ROM	**EM909690OOO**	**1500**	1
DZ1 Direct ROM	**EM902070OOO**	**1630**	1
DZ2 Direct ROM	**EM902080OOO**	**1910**	1
DZ4 Direct ROM	**EM903860OOO**	**2220**	1
DZ6 Direct ROM	**EM902280OOO**	**2760**	1
DZ7 Direct ROM	**EM903500OOO**	**3820**	1
DZ0 Extended ROM	**EM909700OOO**	**2160**	1
DZ1 Extended ROM	**EM902090OOO**	**2200**	1
DZ2 Extended ROM	**EM902100OOO**	**2650**	1
DZ4 Extended ROM	**EM902930OOO**	**3370**	1
DZ6 Extended ROM	**EM902760OOO**	**4450**	1
DZ7 Extended ROM	**EM903810OOO**	**4660**	1
Panel Door mounted Key lock for Extended ROM [8301]			
DZ0/1/2/4 Key Lock Type 1	**EM990310OOO**	**6200**	1
DZ0/1/2/4 Key Lock Type 2	**EM99031OOOA**	**6200**	1
DZ0/1/2/4 Key Lock Type 3	**EM99031OOOB**	**6200**	1
DZ0/1/2/4 Key Lock Type 12	**EM99031OOOC**	**6200**	1
DZ0/1/2/4 Key Lock Type 23	**EM99031OOOD**	**6200**	1
DZ6/7 Key Lock Type 1	**EM991410OOO**	**7350**	1
DZ6/7 Key Lock Type 2	**EM99141OOOA**	**7350**	1
DZ6/7 Key Lock Type 3	**EM99141OOOB**	**7350**	1
DZ6/7 Key Lock Type 12	**EM99141OOOC**	**7350**	1
DZ6/7 Key Lock Type 23	**EM99141OOOD**	**7350**	1
Electrical Operating Mechanism [8538]			
DZ1 240V AC	**EM90490BOOO**	**37700**	1
DZ2 240V AC	**EM90545BOOO**	**41200**	1
DZ4 240V AC	*		
DZ6 240V AC	**EM90355BOOO**	**51600**	1
DZ7 240V AC	**EM90480BOOO**	**79500**	1

*** Price on request**

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals (Up to 690V AC #) [8538]			
DZ0-100 3 Pole	**CM977850OOO**	**470**	Set of 6
DZ0-100 4 Pole	**CM979210OOO**	**740**	Set of 8
DZ1, DZ2-160 3 Pole	**EM906090OOO**	**1900**	Set of 6
DZ1, DZ2-160 4 Pole	**EM906100OOO**	**2490**	Set of 8
DZ4-250 - 3 Pole	**EM940960OOO**	**2850**	Set of 6
DZ4-250 - 4 Pole	**EM940970OOO**	**3800**	Set of 8
DZ6-400 - 3 Pole	**EM906110OOO**	**4100**	Set of 6
DZ6-400 - 4 Pole	**EM906120OOO**	**5510**	Set of 8
DZ7-630 - 3 Pole	**EM970500OOO**	**9720**	Set of 6
DZ7-630 - 4 Pole	**EM970520OOO**	**12400**	Set of 8
DZ7-800 - 3 Pole	**EM970510OOO**	**12500**	Set of 6
DZ7-800 - 4 Pole	**EM970530OOO**	**15400**	Set of 8
Rear Terminals [8538]			
DZ1-160 3 Pole	**EM911760OOO**	**5190**	Set of 6
DZ1-160 4 Pole	**EM911770OOO**	**7410**	Set of 8
DZ2-160 3 Pole	**EM920880OOO**	**5750**	Set of 6
DZ2-160 4 Pole	**EM920890OOO**	**8160**	Set of 8
DZ4-250 - 3 Pole	**EM940580OOO**	**6960**	Set of 6
DZ4-250 - 4 Pole	**EM940590OOO**	**9980**	Set of 8
DZ6-400 - 3 Pole	**EM960450OOO**	**9460**	Set of 6
DZ6-400 - 4 Pole	**EM960460OOO**	**13600**	Set of 8
DZ7-800 - 3 Pole	**EM970450OOO**	**11800**	Set of 6
DZ7-800 - 4 Pole	**EM970460OOO**	**17100**	Set of 8
Box Clamp Termination [8538]			
DZ1, DZ2-160 3 Pole	**EM921760OOO**	**4670**	Set of 6
DZ1, DZ2-160 4 Pole	**EM921770OOO**	**6670**	Set of 8
DZ4-250 - 3 Pole	**EM940940OOO**	**6260**	Set of 6
DZ4-250 - 4 Pole	**EM940950OOO**	**8980**	Set of 8
DZ6-400 - 3 Pole	**EM969850OOO**	**8510**	Set of 6
DZ6-400 - 4 Pole	**EM963700OOO**	**12200**	Set of 8

Note:
Phase Barriers are supplied along with MCCBs
For 800V Application Spreaders, please contact nearest branch office

Accessories for d sine DZ MCCBs [8538]

New

	DZ1	DZ2	DZ4	DZ6	DZ7
Plug-in	Full Kit				Fixed Kit + Conversion Kit
Draw-out	-		Fixed Kit + Conversion Kit		

Plug-in

Draw-out

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Plug-in Module [8538]			
DZ1 3 Pole Full Kit	**EM902010000**	*	1
DZ1 4 Pole Full Kit	**EM902020000**	*	1
DZ2 3 Pole Full Kit	**EM902620000**	*	1
DZ2 4 Pole Full Kit	**EM902630000**	*	1
DZ4 3 Pole Full Kit	**EM902500000**	*	1
DZ4 4 Pole Full Kit	**EM902510000**	*	1
DZ6 3 Pole Full Kit	**EM902460000**	*	1
DZ6 4 Pole Full Kit	**EM902470000**	*	1
DZ7-630 3 Pole Fixed Kit	**EM992560000**	*	1
DZ7-630 3 Pole Conversion Kit	**EM992540000**	*	1
DZ7-630 4 Pole Fixed Kit	**EM992570000**	*	1
DZ7-630 4 Pole Conversion Kit	**EM992550000**	*	1
DZ7-800 3 Pole Fixed Kit	**EM990610000**	*	1
DZ7-800 3 Pole Conversion Kit	**EM990690000**	*	1
DZ7-800 4 Pole Fixed Kit	**EM990620000**	*	1
DZ7-800 4 Pole Conversion Kit	**EM990700000**	*	1

*** Price on request**

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Draw-out Module [8538]			
DZ4 3 Pole Fixed Kit	**EM902600000**	*	1
DZ4 3 Pole Conversion Kit	**EM902580000**	*	1
DZ4 4 Pole Fixed Kit	**EM902610000**	*	1
DZ4 4 Pole Conversion Kit	**EM902590000**	*	1
DZ6 3 Pole Fixed Kit	**EM902560000**	*	1
DZ6 3 Pole Conversion Kit	**EM902540000**	*	1
DZ6 4 Pole Fixed Kit	**EM902570000**	*	1
DZ6 4 Pole Conversion Kit	**EM902550000**	*	1
DZ7-630 3 Pole Fixed Kit	**EM991050000**	*	1
DZ7-630 3 Pole Conversion Kit	**EM991030000**	*	1
DZ7-630 4 Pole Fixed Kit	**EM991060000**	*	1
DZ7-630 4 Pole Conversion Kit	**EM991040000**	*	1
DZ7-800 3 Pole Fixed Kit	**EM904550000**	*	1
DZ7-800 3 Pole Conversion Kit	**EM904530000**	*	1
DZ7-800 4 Pole Fixed Kit	**EM904560000**	*	1
DZ7-800 4 Pole Conversion Kit	**EM904540000**	*	1

*** Price on request**

Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Short Terminal Shroud $ [8538]			
DZ1-160 3 Pole	**EM990810000**	**2660**	1
DZ1-160 4 Pole	**EM990820000**	**3210**	1
DZ2-160 3 Pole	**EM990850000**	**2660**	1
DZ2-160 4 Pole	**EM990870000**	**3210**	1
DZ4-250 - 3 Pole	**EM990890000**	**2800**	1
DZ4-250 - 4 Pole	**EM990910000**	**4080**	1
DZ6-400 - 3 Pole	**EM990930000**	**3720**	1
DZ6-400 - 4 Pole	**EM990940000**	**5060**	1
DZ7-630/800 - 3 Pole	**EM990970000**	**4060**	1
DZ7-630/800 - 4 Pole	**EM990990000**	**5590**	1

$ Long Terminal Shrouds available on request

Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
External Neutral CT [8504]			
DZ1, DZ2 - 40A, 63A, 80A	**EM905070000**	**2300**	1
DZ1, DZ2 - 100A, 160A	**EM905080000**	**2300**	1
DZ1 - 200A	**EM905090000**	**3400**	1
DZ4 - 160A, 250A	**EM905120000**	**4040**	1
DZ6 - 250A, 400A	**EM905150000**	**6210**	1
DZ7 - 630A, 800A	**EM905160000**	**9560**	1
DZ7 - 1000A	**EM973260000**	**10100**	1
Adaptor Kit for External Neutral CT [8538]			
DZ1, DZ2 & DZ4 - Up to 250A	**CM999940000**	**885**	Set of 2
DZ6 - Up to 400A	**CM999950000**	**1780**	Set of 2
DZ7 - Up to 1000A	**EM972270000**	**7040**	Set of 2

Accessories for d sine DZ MCCBs [8538]

New

Mechanical Interlocking Kit Range	DZ1	DZ2	DZ4	DZ6
Front Slider	✓	✓	✓	-
Rear Base Plate	-	-	✓	✓
Cable Base Plate	✓	✓	✓	✓

Front Slider

Cable Base Plate

Rear Base Plate

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Mechanical Interlocking Options [8538]			
1. Front Slider MIL #			
DZ1 Front Slider	**EM903960000**	**3990**	1
DZ2 Front Slider	**EM903970000**	**4200**	1
DZ2/DZ4 Front Slider	**EM903980000**	**5670**	1

Front Slider MIL Selection Table	DZ1	DZ2	DZ4
DZ1	✓		
DZ2		✓	✓
DZ4		✓	✓

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
2. Rear Base Plate MIL #			
DZ4 Mounting Plate ~	**EM904000000**	**4140**	1
DZ6 Mounting Plate ~	**EM903990000**	**5170**	1
DZ4 Rear Base Plate ~	**EM903540000**	**20500**	1
DZ4/DZ6 Rear Base Plate ~	**EM903530000**	**25600**	1

~ - 2 Nos of Mounting Plate and 1 No of Base Plate must be ordered together along with 2 Nos of MCCBs.

Rear Base Plate MIL Selection Table	Base Plate		Mounting Plate	
	EM90353	EM90354	EM90399	EM90400
DZ4-DZ4	X	1No.	X	2 Nos.
DZ4-DZ6	1No.	X	1No.	1No.
DZ6-DZ6	1No.	X	2 Nos.	X

External Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
3. Cable Base Plate MIL #			
a. Base Plate with Cable (for MCCBs without Rear Terminations)#			
DZ1/DZ2 Cable Base Plate $	**EM904040000**	**7150**	1
DZ4 Cable Base Plate $	**EM904050000**	**8600**	1
DZ6 Cable Base Plate $	**EM904060000**	**11200**	1
b. Base Plate with Cable (for MCCBs with Rear Terminations)			
DZ1/DZ2 Cable Base Plate RT $	**EM904010000**	**7880**	1
DZ4 Cable Base Plate RT $	**EM904020000**	**9460**	1
DZ6 Cable Base Plate RT $	**EM904030000**	**12300**	1
c. Cable Types and Lengths - For DZ1/ DZ2/ DZ4/ DZ6 MCCBs (for both MCCBs with and without Rear Terminations)			
L Cable (1 m Length) $	**EM004710000**	**1860**	1
L Cable (3 m Length) $	**EM004740000**	**2810**	1
L Cable (5 m Length) $	**EM004770000**	**3890**	1
M Cable (1 m Length) $	**EM004720000**	**1860**	1
M Cable (3 m Length) $	**EM004750000**	**2810**	1
M Cable (5 m Length) $	**EM004780000**	**3890**	1
H Cable (1 m Length) $	**EM004730000**	**1860**	1
H Cable (3 m Length) $	**EM004760000**	**2810**	1
H Cable (5 m Length) $	**EM004790000**	**3890**	1

$ - 2 Nos of Base Plate & 1 No of suitable length of Cable must be ordered together along with 2 Nos of MCCBs.

Cable Base Plate MIL Selection Table		DZ1		DZ2		DZ4		DZ6	
		EM90404	EM90401	EM90404	EM90401	EM90405	EM90402	EM90406	EM90403
DZ1	**EM90404**	L	L						
	EM90401		M						
DZ2	**EM90404**			L	L	L	M	L	M
	EM90401				M	L	M	M	H
DZ4	**EM90405**					L	M	L	M
	EM90402						H	M	H
DZ6	**EM90406**							M	H
	EM90403								H

 # Common for 3P & 4P MCCBs

d sine DN MCCB with Thermal - Magnetic Release

Rating (A) / Icu=Ics (kA)*	16	20	25	32	40	50	63	80	100	125	160	200	250	320	400	500	630
25	DN0-100C									DN1-C							
36	DN0-100D/125D													DN3B			
36/50/70				DN2										DN3			

dsine TM

- Conforms to IS/IEC 60947-2
- 20A to 630A, 3P & 4P
- 25kA, 36kA, 50kA & 70kA breaking capacities
- Ics= 100% of Icu*
- Adjustable overload settings: 0.8 - 1.0 x In
- Adjustable short-circuit settings: 6 - 10 x In**
- Manual & Rotary versions available
- Wide range of accessories

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN0-100D*	16-20	36	CM97893OOC2OG	9550	CM97919OOC2OG	13290	1
	20-25		CM97893OOD2OG	9550	CM97919OOD2OG	13290	1
	25-32		CM97893OOE2OG	9550	CM97919OOE2OG	13290	1
	32-40		CM97893OOF2OG	9550	CM97919OOF2OG	13290	1
	40-50		CM97893OOG2OG	9550	CM97919OOG2OG	13290	1
	50-63		CM97893OOH2OG	9270	CM97919OOH2OG	12900	1
	63-80		CM97893OOJ2OG	9270	CM97919OOJ2OG	12900	1
	80-100		CM97893OOK2OG	9270	CM97919OOK2OG	12900	1
DN0-125D*	100-125		CM90680OOLOOG	11400	CM90681OOLOOG	15200	1
DN0-100C	16-20	25	CM91612OOCOOG	9830	CM91712OOCOOG	13800	1
	20-25		CM91612OODOOG	9830	CM91712OODOOG	13800	1
	25-32		CM91612OOEOOG	9830	CM91712OOEOOG	13800	1
	32-40		CM91612OOFOOG	9830	CM91712OOFOOG	13800	1
	40-50		CM91612OOGOOG	9830	CM91712OOGOOG	13800	1
	50-63		CM91612OOHOOG	9540	CM91712OOHOOG	13400	1
	63-80		CM91612OOJOOG	9540	CM91712OOJOOG	13400	1
	80-100		CM91612OOKOOG	9540	CM91712OOKOOG	13400	1
DN1-250C	100-125		CM90638OOLO	13800	CM90642OOLO	16900	1
	125-160		CM90638OOMO	17900	CM90642OOMO	21700	1
	160-200		CM90638OONO	22900	CM90642OONO	27300	1
	200-250		CM90638OOPO	26900	CM90642OOPO	31100	1

Note:

Breaking Capacity : C = 25kA, D = 36kA, N = 50kA, S = 70kA

* DN0-100D/125D : Ics= 50% Icu

** For DN0, DN1, DN3B-Short Circuit Setting: 9In

For DN1-250N (50kA) please contact nearest branch office

*** From 16A to 50A, Fixed Magnetic setting (375A)

d sine DN MCCB with Thermal - Magnetic Release

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN2-250D	100-125	36	CM92008OOL1OG	20200	CM92108OOL1OG	25000	1
	125-160		CM92008OOM1OG	25700	CM92108OOM1OG	31700	1
	160-200		CM92009OON1OG	26700	CM92109OON1OG	34100	1
	200-250		CM92009OOP1OG	30000	CM92109OOP1OG	36100	1
DN3B-400D	250-320		CM98401OOQOOG	37900	CM98403OOQOOG	46200	1
	320-400		CM98401OOROOG	37900	CM98403OOROOG	46200	1
DN3-400D	250-320		CM94005OOQ1OG	*	CM94105OOQ1OG	*	1
	320-400		CM94005OOR1OG	*	CM94105OOR1OG	*	1
DN3-630D	400-500		CM94006OOS1OG	49400	CM94106OOS1OG	62200	1
	500-630		CM94006OOT1OG	49400	CM94106OOT1OG	62200	1
DN2-250N	100-125	50	CM92005OOL1OG	28000	CM92105OOL1OG	34100	1
	125-160		CM92005OOM1OG	29600	CM92105OOM1OG	37300	1
	160-200		CM92006OON1OG	30600	CM92106OON1OG	38400	1
	200-250		CM92006OOP1OG	32800	CM92106OOP1OG	41200	1
DN3-400N	250-320		CM94003OOQ1OG	41300	CM94103OOQ1OG	51100	1
	320-400		CM94003OOR1OG	41300	CM94103OOR1OG	51100	1
DN3-630N	400-500		CM94004OOS1OG	53300	CM94104OOS1OG	68800	1
	500-630		CM94004OOT1OG	53300	CM94104OOT1OG	68800	1
DN2-250S	100-125	70	CM92002OOL1OG	37900	CM92102OOL1OG	41900	1
	125-160		CM92002OOM1OG	40400	CM92102OOM1OG	45200	1
	160-200		CM92003OON1OG	45000	CM92103OON1OG	53400	1
	200-250		CM92003OOP1OG	47300	CM92103OOP1OG	56900	1
DN3-400S	250-320		CM94001OOQ1OG	51100	CM94101OOQ1OG	60500	1
	320-400		CM94001OOR1OG	51100	CM94101OOR1OG	60500	1
DN3-630S	400-500		CM94002OOS1OG	67800	CM94102OOS1OG	80800	1
	500-630		CM94002OOT1OG	67800	CM94102OOT1OG	80800	1

*** Price on request**

General Information

- Use of phase barriers is mandatory. These are supplied along with MCCBs
- **It is recommended to use spreader terminals for enhancing termination capacity**
- Spreader terminals are available as accessories, unless otherwise specified against cat. nos.

Special Applications

- dsine/DU/DY MCCBs with TM release can be used for DC application (2P/3P/4P)
- dsine/DU MCCBs can be used for Capacitor back-up protection
- For Motor back-up protection, use 'M' series of MCCBs such as DN0-M, DN1-M, DN2-M, DN3-M
- For isolator applications, use SD version (without protection release)

d sine DN MCCB with Microprocessor Release

Rating (A) / Icu (kA)	40	63	100	160	250	400	630	800	1000	1250
36/50/70/100	DN2					DN3				
50/70/100								DN4		

d sine DN MCCB with Microprocessor Release MTX1.0

dsine DN MTX1.0

- Conforms to IS/IEC 60947-2
- 40A to 1250A, 3P & 4P
- 36kA, 50kA, 70kA and 100kA breaking capacities
- Ics=100% Icu
- Adjustable overload setting from 0.4 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 8 x Ir
- Inbuilt instantaneous Protection
- Switchable thermal memory
- Variable trip class
- Front LED Indication
- Manual & Rotary versions available
- Wide range of accessories

Type	Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN2-250D	16-40	36	CM920630OOOX1	28000	CM921550OOOX1	35200	1
	25-63		CM920710OOOX1	28000	CM921540OOOX1	35200	1
	40-100		CM920510OOOX1	28000	CM921530OOOX1	35200	1
	63-160		CM920740OOOX1	35400	CM921520OOOX1	49200	1
	100-250		CM920540OOOX1	36800	CM921510OOOX1	51000	1
DN3-400D	160-400		CM930010OOOX1	45300	CM930030OOOX1	58600	1
DN3-630D	250-630		CM930050OOOX1	50000	CM930070OOOX1	66300	1
DN2-250N	16-40	50	CM920640OOOX1	32800	CM921600OOOX1	43500	1
	25-63		CM920720OOOX1	32800	CM921590OOOX1	43500	1
	40-100		CM920520OOOX1	32800	CM921580OOOX1	43500	1
	63-160		CM920750OOOX1	42100	CM921570OOOX1	53800	1
	100-250		CM920550OOOX1	43400	CM921560OOOX1	55000	1
DN3-400N	160-400		CM930020OOOX1	49500	CM930040OOOX1	64500	1
DN3-630N	250-630		CM930060OOOX1	54400	CM930080OOOX1	70900	1
DN4-1250N	320-800		CM960210OOOX1	81700	CM961110OOOX1	103900	1
	400-1000		CM960220OOOX1	120900	CM961120OOOX1	170200	1
	500-1250		CM960230OOOX1	150900	CM961130OOOX1	204100	1
DN2-250S	16-40	70	CM920650OOOX1	33600	CM921650OOOX1	41900	1
	25-63		CM920730OOOX1	33600	CM921640OOOX1	41900	1
	40-100		CM920590OOOX1	33600	CM921630OOOX1	41900	1
	63-160		CM920760OOOX1	44000	CM921620OOOX1	55100	1
	100-250		CM920560OOOX1	47700	CM921610OOOX1	68400	1
DN3-400S	160-400		CM940530OOOX1	63900	CM941530OOOX1	84400	1
DN3-630S	250-630		CM940790OOOX1	68100	CM941790OOOX1	99100	1
DN4-1250S	320-800		CM960250OOOX1	96400	CM961150OOOX1	126300	1
	400-1000		CM960260OOOX1	138800	CM961160OOOX1	204400	1
	500-1250		CM960270OOOX1	179700	CM961170OOOX1	244500	1

Note:
dsine DN-V Version (Icu=Ics=100kA) MCCBs are available on request.

d sine DN MCCB with Microprocessor Release MTX2.0

dsine DN MTX2.0

- Conforms to IS/IEC 60947-2
- 40A to 1250A, 3P & 4P
- 36kA, 50kA, 70kA and 100kA breaking capacities
- Ics=100% Icu
- Adjustable overload setting from 0.4 to 1.0 x In
- Adjustable short-circuit setting from 1.5 to 8 x Ir
- Inbuilt instantaneous Protection
- Inbuilt ground fault protection from 20%-50% of In
- Adjustable neutral overload protection from 50% to 150% of Ir
- Switchable thermal memory
- Variable trip class
- Front LED Indication
- Panel mounted display for current metering & trip record
- Manual & Rotary versions available
- Wide range of accessories

Type	Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN2-250D	16-40	36	CM920630OOOAG	47900	CM921550OOOAG	55100	1
	25-63		CM920710OOOAG	47900	CM921540OOOAG	55100	1
	40-100		CM920510OOOAG	47900	CM921530OOOAG	55100	1
	63-160		CM920740OOOAG	52100	CM921520OOOAG	63900	1
	100-250		CM920540OOOAG	52700	CM921510OOOAG	64700	1
DN3-400D	160-400		CM930010OOOAG	62400	CM930030OOOAG	72300	1
DN3-630D	250-630		CM930050OOOAG	68300	CM930070OOOAG	82700	1
DN2-250N	16-40	50	CM920640OOOAG	52100	CM921600OOOAG	62100	1
	25-63		CM920720OOOAG	52100	CM921590OOOAG	62100	1
	40-100		CM920520OOOAG	52100	CM921580OOOAG	62100	1
	63-160		CM920750OOOAG	54300	CM921570OOOAG	66000	1
	100-250		CM920550OOOAG	54700	CM921560OOOAG	66500	1
DN3-400N	160-400		CM930020OOOAG	65500	CM930040OOOAG	78200	1
DN3-630N	250-630		CM930060OOOAG	72500	CM930080OOOAG	93500	1
DN4-1250N	320-800		CM960210OOOAG	112000	CM961110OOOAG	132900	1
	400-1000		CM960220OOOAG	144200	CM961120OOOAG	191100	1
	500-1250		CM960230OOOAG	180400	CM961130OOOAG	233400	1
DN2-250S	16-40	70	CM920650OOOAG	54500	CM921650OOOAG	64900	1
	25-63		CM920730OOOAG	54500	CM921640OOOAG	64900	1
	40-100		CM920590OOOAG	54500	CM921630OOOAG	64900	1
	63-160		CM920760OOOAG	64800	CM921620OOOAG	72500	1
	100-250		CM920560OOOAG	71900	CM921610OOOAG	84600	1
DN3-400S	160-400		CM940530OOOAG	88700	CM941530OOOAG	111100	1
DN3-630S	250-630		CM940790OOOAG	96000	CM941790OOOAG	132000	1
DN4-1250S	320-800		CM960250OOOAG	128900	CM961150OOOAG	161200	1
	400-1000		CM960260OOOAG	180000	CM961160OOOAG	234400	1
	500-1250		CM960270OOOAG	221700	CM961170OOOAG	290800	1

Note:
dsine DN-V Version (Icu=Ics=100kA) MCCBs are available on request.

Accessories for MTX2.0 [8538]

Modules for MTX2.0 release	Cat. No.	M.R.P. (₹) Per Unit
Current Metering Module (Display & Metering Module)	CM956980OOO	35700
Cable (2m length)	CM011960OOO	1830
Power Supply Module	CL907220OOO	*
UNCO Module for Status Indication & Control through communication	CL908520OOO	14600

*** Price on request**

d sine DN MCCB with Microprocessor Release MTX3.0

dsine DN MTX3.0

- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Range: 40A to 1250A, 3P & 4P
- Choice of 36kA / 50kA / 70kA / 100kA breaking capacities
- Ics = 100% Icu
- Suitable for Isolation
- Adjustable Over Load from 0.4 - 1.0 x In
- Adjustable Short Circuit from 1.5 - 8 x Ir with selectable time delay
- Instantaneous protection with fine settings
- Inbuilt ground fault protection from 10% - 50% of In
- Adjustable neutral overload protection available : 50% to 150% of Ir
- Advanced Current, Voltage, Frequency & Power based protections
- Other Protections like Maximum Demand, Phase Sequence, THD etc.
- Comprehensive Current, Power, Energy, PF, MD, THD metering
- Provision of Thermal Memory : ON/OFF
- Variable trip class at 1.5 Ir,6 Ir & 7.2 Ir
- Front LED indication of Over Load, short circuit & earth fault
- Panel mounted display available for advanced protections & metering
- Communication capable release
- Manual & Rotary versions available
- For 3 phase 4 wire system, External neutral CTs available for 3P MCCBs
- Wide Range of snap fit Internal and External Accessories

Type	Release Range (A)	Breaking Capacity Icu at 415V AC, 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN2-250D	16 - 40	36	CM920630000BG	*	CM921550000BG	*	1
	25 - 63		CM920710000BG		CM921540000BG		1
	40 - 100		CM920510000BG		CM921530000BG		1
	63 - 160		CM920740000BG		CM921520000BG		1
	100 - 250		CM920540000BG		CM921510000BG		1
DN3-400D	160 - 400		CM930010000BG		CM930030000BG		1
DN3-630D	250 - 630		CM930050000BG		CM930070000BG		1
DN2-250N	16 - 40	50	CM920640000BG	*	CM921600000BG	*	1
	25 - 63		CM920720000BG		CM921590000BG		1
	40 - 100		CM920520000BG		CM921580000BG		1
	63 - 160		CM920750000BG		CM921570000BG		1
	100 - 250		CM920550000BG		CM921560000BG		1
DN3-400N	160 - 400		CM930020000BG		CM930040000BG		1
DN3-630N	250 - 630		CM930060000BG		CM930080000BG		1
DN4-1250N	320 - 800		CM960210000BG		CM961110000BG		1
	400 - 1000		CM960220000BG		CM961120000BG		1
	500 - 1250		CM960230000BG		CM961130000BG		1
DN2-250S	16 - 40	70	CM920650000BG	*	CM921650000BG	*	1
	25 - 63		CM920730000BG		CM921640000BG		1
	40 - 100		CM920590000BG		CM921630000BG		1
	63 - 160		CM920760000BG		CM921620000BG		1
	100 - 250		CM920560000BG		CM921610000BG		1
DN3-400S	160 - 400		CM940530000BG		CM941530000BG		1
DN3-630S	250 - 630		CM940790000BG		CM941790000BG		1
DN4-1250S	320 - 800		CM960250000BG		CM961150000BG		1
	400 - 1000		CM960260000BG		CM961160000BG		1
	500 - 1250		CM960270000BG		CM961170000BG		1

Note:
dsine DN-V Version (Icu=Ics=100kA) MCCBs are available on request.

Accessories for MTX3.0 [8538]

Modules for MTX3.0 release	Cat. No.	M.R.P. (₹) Per Unit
Communication Module	CM956800000	*
Voltage Module	CM956850000	
Display Module	CM956760000	
Power Supply Module	CL907220000	*
UNCO Module for Status Indication & Control through communication	CL908520000	14600

*** Price on request**

d sine DN MCCBs for Motor back-up Protection

- Range: 32A to 630A, 50kA
- Suitable for isolation
- Wide Range of snap fit Internal and External Accessories

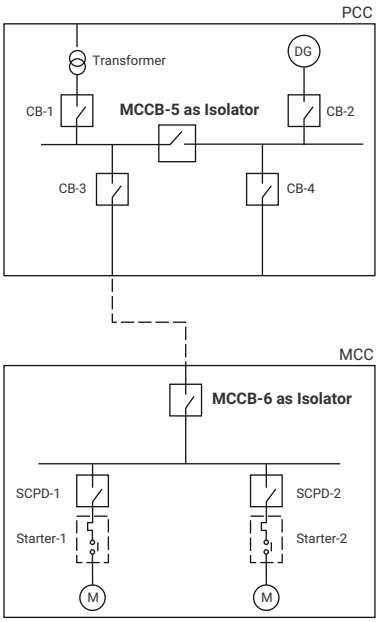
3 Pole					
Type	Current Rating (A)	Breaking Capacity Icu at 415V. AC, 50Hz. (kA)	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
DN0-100M	32	50	CM98944OOEO	6380	1
	40		CM98944OOFO	6380	1
	50		CM98944OOGO	6380	1
	63		CM98944OOHO	6380	1
	80		CM98944OOJO	6380	1
	100		CM98944OOKO	6380	1
DN1-160M	100		CM90345OOKO	10600	1
	125		CM90345OOLO	10800	1
	160		CM90345OOMO	12900	1
DN2-250M	200		CM92171OONOOG	16500	1
	250		CM92171OOPOOG	22000	1
DN3-400M	320		CM94516OOQOOG	27800	1
	400		CM94516OOROOG	29200	1
DN3-630M	500		CM94515OOSOOG	32200	1
	630		CM94515OOTOOG	32700	1

Note:
Please contact nearest branch office for fuseless type 2 co-ordination selection chart
For lower HP Motors, Please select MMS. Details are given on page no.21

Representative Application Image

d sine DN Switch Disconnector - SD (MCCBs without protection release)

- Used as switching devices for isolation
- Range: 32A to 1250A, 3P & 4P
- Suitable for isolation
- Wide Range of snap fit Internal and External Accessories

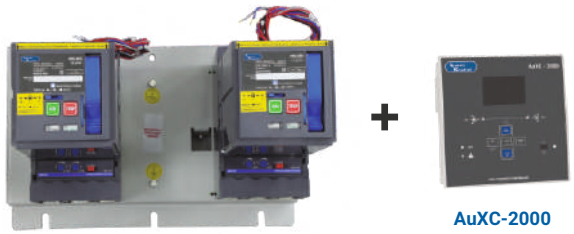


Representative Application Image

Type	Current Rating (A)	3 Pole		4 Pole		Std. Pkg. (Nos.)
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN0-160SD	32	CM90716OOEO	7430	CM90717OOEO	9900	1
	63	CM90716OOHO	7430	CM90717OOHO	9900	1
	100	CM90716OOKO	8870	CM90717OOKO	11600	1
	125	CM90716OOLO	9810	CM90717OOLO	12900	1
	160	CM90716OOMO	10600	CM90717OOMO	13700	1
DN2-250SD	200	CM96814OONOOG	21100	CM96815OONOOG	28100	1
	250	CM96802OOPOOG	22700	CM96803OOPOOG	30100	1
DN3B-400SD	320	CM98410OOQOOG	33600	CM98412OOQOOG	43600	1
	400	CM98410OOROOG	33600	CM98412OOROOG	43600	1
DN3-630SD	500	CM96806OOSOOG	38100	CM96807OOSOOG	52000	1
	630	CM96806OOTOOG	38100	CM96807OOTOOG	52000	1
DN4-1250SD	800	CM93041OOUO	75900	CM93042OOUO	93700	1
	1000	CM93041OOVO	101000	CM93042OOVO	129000	1
	1250	CM93041OOAO	134000	CM93042OOAO	166000	1

Automatic Source Transfer System (ASTS)

- 128x80 pixel, backlit LCD screen with 4 grey levels
- Advanced programmable I/O function
- Management of automatic generator start/stop
- Controls of UV, OV, phase loss, asymmetry, minimum frequency, maximum frequency, with independent enabling and time delay



AuXC-2000

Automatic Transfer Controllers (ATC) [9032]

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-2000 controller**	ATC20000OOO	33200	1

Can be used along with ACB, Motorised MCCBs, MCX contactors & Motorised Changeover switches

Note:
** For communication version of AuXC controller refer page no-6

2 d sine MCCBs + 2 SE-EOM + 2 ATAC + 1 MIL kit

For AuXC 2000/2100 programming videos and more details please scan the QR code or click here

Frame	Accessories	Total Set M.R.P. (₹)	Remarks
DN2	2 Nos : SEOMs with Aux + Trip Alarm Contact + 1 No. : MIL + 1 No. : AuXC2000	118840	Add MRPs of Similar 2 MCCBs of DN2 of desired no. of Poles, Breaking Cap. & Release to arrive at ASTS Solution.
DN3-400		141360	Add MRPs of Similar 2 MCCBs of DN3 of desired no. of Poles, Breaking Cap. & Release to arrive at ASTS Solution.
DN3-630		142360	

Note:
Picture shown is for representation purpose only, MCCB + EOM + ATAC combination, MIL kit & AuXC-2000 to be purchased separately & assembled at site.

Accessories for dsine DN MCCBs [8538]

Auxiliary Contact

TAC

Shunt Release

UV Release

Neutral CT

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact [8538]			
DN0, DN1 - 1 C/O - Right	CM978860000	1170	1
DN0, DN1 - 2 C/O - Right	CM978870000	2070	1
DN2, DN3B, DN3, DN4 - 1 C/O	CM998010000	1360	1
DN2, DN3B, DN3, DN4 - 2 C/O	CM998020000	2630	1
Trip Alarm Contact [8538]			
DN0, DN1 - 1 C/O - Right	CM978880000	1170	1
DN0, DN1 - 2 C/O - Right	CM978890000	2070	1
DN2, DN3B, DN3, DN4 - 1 C/O - Right	CM998030000	1430	1
Auxiliary 1 C/O + TAC 1 C/O [8538]			
DN0, DN1 - Right	CM978900000	1990	1
DN2, DN3B, DN3, DN4 - Right	CM998040000	2630	1
Shunt Release [8538]			
DN0, DN1 - 24V DC - Left	CM914020400	2310	1
DN0, DN1 - 110V AC - Left	CM978830A00	2310	1
DN0, DN1 - 240/415V AC - Left	CM978830M00	2310	1
DN2, DN3 - 110V DC - Left	CM998070000	4090	1
DN2, DN3B, DN3, DN4 - 110/240/415V AC,220V DC	CM998050000	3410@	1
DN2, DN3B, DN3 - 24V DC	CM989760400	3410@	1
Under Voltage Release [8538]			
DN0, DN1 - 240V AC - Left	CM97892B000	3840	1
DN2, DN3B, DN3 - 240V AC - Left	CM99986B000	4740**	1
DN4 - 240V AC - Left	CM999060000	5410**	1

@ - 'NO' of control contactor to be connected in series for DC control supply
** Use these UV Cat. Nos. with Grey look MCCBs only

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
External Neutral CT [8504]			
DN2 - 40A	CM999460000	2060	1
DN2 - 63A	CM999470000	2060	1
DN2 - 100A	CM999480000	2060	1
DN2 - 160A	CM999490000	2950	1
DN2 - 250A	CM999500000	2950	1
DN3 - 400A	CM999540000	6030	1
DN3 - 630A	CM999550000	6030	1
DN4 - 800A	CM998890000	9240	1
DN4 - 1000A	CM998900000	9640	1
DN4 - 1250A	CM998910000	10700	1
Adaptor kit for External Neutral CT [8538]			
DN2 - 250	CM999940000	885	Set of 2
DN3 - 400	CM999950000	1780	Set of 2
DN3 - 630	CM999970000	1790	Set of 2
DN4 - 800	CM999960000	3090	Set of 2
DN4 - 1000	CM909660000	6530	Set of 4
DN4 - 1250	CM999980000	11100	Set of 2

Direct ROM

Extended ROM

Key Lock

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Rotary Handle [8538]			
DN0 Direct ROM	CM978950000	1490	1
DN1 Direct ROM	CM980400000	1600	1
DN2 Direct ROM	CM998290000	1650	1
DN3B, DN3 Direct ROM	CM998600000	2470	1
DN0 Extended ROM	CM978960000	1930	1
DN1 Extended ROM	CM980410000	2060	1
DN2 Extended ROM	CM998300000	2490	1
DN3B, DN3 Extended ROM	CM998610000	4060	1
DN4 Extended ROM	CM998840000	5150	1
Panel door mounted Key lock for Extended ROM # [8301]			
Type 1	CM99958T0000	6870	1
Type 2	CM99958T000A	6870	1
Type 3	CM99958T000B	6870	1
Type 12	CM99958T000C	6870	1
Type 23	CM99958T000D	6870	1

- Can be used with dsine DN & DU new look extended ROM

Spreader Terminals

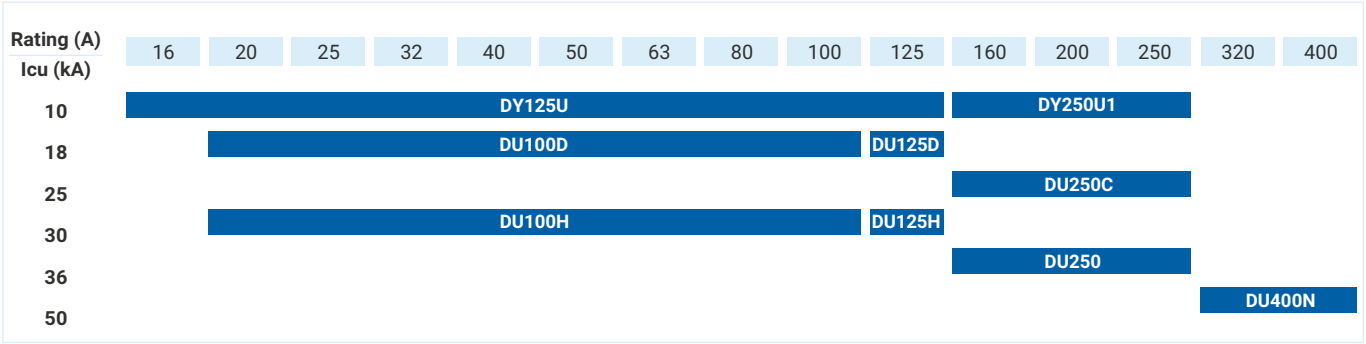
MIL Kit - Base Mounted

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals [8538]			
DN0-100 - 3 Pole	CM977850000	470	Set of 6
DN0-125D - 3 Pole	CM906870OLO	610	Set of 6
DN1, DN2 - 250 - 3 Pole	ST980530000	2020	Set of 6
DN3B/DN3 - 400 - 3 Pole	ST980650000	3910	Set of 6
DN3-630 - 3 Pole	ST980540000	4530	Set of 6
DN4-800 - 3 Pole	CM91161O0U0	9540	Set of 6
DN4-1000 - 3 Pole	CM91161O0V0	19100	Set of 12
DN4-1250 - 3 Pole	CM91161O0A0	37700	Set of 6
DN0-100 - 4 Pole	CM979210000	740	Set of 8
DN0-125D - 4 Pole	CM906880OLO	880	Set of 8
DN1, DN2 - 250 - 4 Pole	CM920070000	2680	Set of 8
DN3B/DN3-400 - 4 Pole	ST980660000	5620	Set of 8
DN3-630 - 4 Pole	CM920040000	5750	Set of 8
DN4-800 - 4 Pole	ST903620000	12200	Set of 8
DN4-1000 - 4 Pole	CM900640OV0	24300	Set of 16
DN4-1250 - 4 Pole	ST980580000	48300	Set of 8
Mechanical Interlock Kit - Base Plate [8538]			
DN2-250	CM997310000	7780	1
DN3-400	CM997320000	11900	1
DN3-630	CM998540000	12900	1
DIN rail kit [8538]			
DN0	CM909440000	175	1

Note:
Phase Barriers are supplied along with MCCBs

DU/DY MCCB Range [8536]

DU/DY with Thermal - Magnetic Release :



DY125U MCCBs

- Conforms to IS/IEC 60947-2, IEC 60947-2 & EN 60947-2
- Range: 16A to 125A, 2P/3P/4P
- Ics=100% of Icu
- High Electrical & Mechanical life
- Thermal Magnetic Release
- No Load-Line Bias
- ON-TRIP-OFF indication
- Suitable for Isolation
- Common SS Enclosure for 3P & 4P

Type	Current Rating (A)	Breaking Capacity Icu (kA)	2 Pole		Breaking Capacity Icu (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DY125U	16	AC : 25kA @ 240V AC, 50 Hz/60 Hz DC : 10kA @ 250V DC (2P in series)	EM90982OOBO	2000	AC : 10kA @ 415V AC, 50 Hz/60 Hz DC : 10kA @ 250V DC (3P in series)	EM90983OOBO	2450	EM90984OOBO	3290	1
	20		EM90982OOCO	2000		EM90983OOCO	2450	EM90984OOCO	3290	1
	25		EM90982OODO	2000		EM90983OODO	2450	EM90984OODO	3290	1
	32		EM90982OOEO	2000		EM90983OOEO	2450	EM90984OOEO	3290	1
	40		EM90982OOFO	2000		EM90983OOFO	2450	EM90984OOFO	3290	1
	50		EM90982OOGO	2000		EM90983OOGO	2450	EM90984OOGO	3290	1
	63		EM90982OOHO	1940		EM90983OOHO	2380	EM90984OOHO	3190	1
	80		EM90982OOJO▲	2140		EM90983OOJO▲	2680	EM90984OOJO ▲	3690	1
			EM90812OOJO	1940		EM90813OOJO	2380	EM90814OOJO	3190	1
	100		EM90982OOKO▲	2140		EM90983OOKO▲	2680	EM90984OOKO ▲	3690	1
			EM90812OOKO	1940		EM90813OOKO	2380	EM90814OOKO	3190	1
	125		EM90982OOLO▲	3000		EM90983OOLO▲	3930	EM90984OOLO ▲	4820	1

▲- Spreader Terminals are included
Note: 2 Pole in 3 Pole frame size
Phase barriers are supplied with all MCCBs

Accessories for DY125U MCCBs [8538]

Auxiliary/Trip Alarm Contact

Shunt Release

Spreader Terminals

Direct ROM

Extended ROM

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary/Trip Alarm Contact			
1C/O	EM909660OOO	745	1
Shunt Release			
Short Rated 110/240/415V AC	EM905200MOO	1005	1
Under Voltage Release			
240V AC	EM90518BOOO	3050	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
2 Pole (upto 100A)	CM977850002	310	Set of 4
3 Pole (upto 100A)	CM977850OOO	470	Set of 6
4 Pole (upto 100A)	CM979210OOO	740	Set of 8
Rotary Handle			
Direct ROM	EM909690OOO	1500	1
Extended ROM	EM909700OOO	2160	1
SS Enclosure			
Size I Enclosure for 3P & 4P	CM909960OOO	2450	1

3 Pole / 4 Pole MCCBs
DU100D/DU125D MCCBs

- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Range: 20A to 125A, 3P & 4P
- Ics=100% of Icu
- Compact size
- Common SS Enclosure for 3P & 4P
- Wide Range of snap fit Internal and External Accessories
- Adjustable Overload Setting: 0.8 - 1.0 x In

Type	Thermal Release Range (A)	Breaking Capacity Icu at 415V AC 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DU100D	16-20	18	CM90517OOCO	5240	CM90518OOCO	6790	1
	20-25		CM90517OODO	5240	CM90518OODO	6790	1
	25-32		CM90517OOEO	5240	CM90518OOEO	6790	1
	32-40		CM90517OOFO	5240	CM90518OOFO	6790	1
	40-50		CM90517OOGO	5240	CM90518OOGO	6790	1
	50-63		CM90517OOHO	5090	CM90518OOHO	6590	1
	63-80		CM90517OOJO	5090	CM90518OOJO	6590	1
	80-100		CM90517OOKO	5090	CM90518OOKO	6590	1
DU125D	100-125		CM90676OOLO	6170	CM90677OOLO	8160	1

Note:
DIN rail kit available as an accessory. Please refer DU100D/DU125D accessories table.

2 Pole / 3 Pole / 4 Pole MCCBs
DU100H/DU125H MCCBs

- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Range: 20A to 125A, 2P, 3P & 4P
- Compact size
- Common SS Enclosure for 2P, 3P & 4P
- Wide Range of snap fit Internal and External Accessories
- Adjustable Overload Setting: 0.8 - 1.0 x In

Type	Thermal Release Range (A)	Breaking Capacity Icu (kA)	2 Pole		Breaking Capacity Icu at 415V AC 50Hz. (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DU100H	16-20	AC : 65kA @ 240V AC, 50Hz DC : 15kA @ 250V DC, (2P in Series) L/R < 15 msec.	CM97898OOC2	4130	30	CM97894OOC2	5880	CM97933OOC2	7840	1
	20-25		CM97898OOD2	4130		CM97894OOD2	5880	CM97933OOD2	7840	1
	25-32		CM97898OOE2	4130		CM97894OOE2	5880	CM97933OOE2	7840	1
	32-40		CM97898OOF2	4130		CM97894OOF2	5880	CM97933OOF2	7840	1
	40-50		CM97898OOG2	4130		CM97894OOG2	5880	CM97933OOG2	7840	1
	50-63		CM97898OOH2	4010		CM97894OOH2	5710	CM97933OOH2	7610	1
	63-80		CM97898OOJ2	4010		CM97894OOJ2	5710	CM97933OOJ2	7610	1
	80-100		CM97898OOK2	4010		CM97894OOK2	5710	CM97933OOK2	7610	1
DU125H	100-125		CM91198OOLO	6230		CM90678OOLO	6650	CM90679OOLO	8690	1

Note: 2 Pole in 3 pole frame size

DIN rail kit available as an accessory. Please refer DU100H/DU125H accessories table.

Accessories for DU100D/DU125D/DU100H/DU125H MCCBs [8538]

Auxiliary Contact

ATAC

Shunt Release

UV Release

Spreader Terminals

Direct ROM

Extended ROM

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact			
1 C/O - Right	CM97886OOOO	1170	1
2 C/O - Right	CM97887OOOO	2070	1
Trip Alarm Contact			
1 C/O - Right	CM97888OOOO	1170	1
2 C/O - Right	CM97889OOOO	2070	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	CM97890OOOO	1990	1
Shunt Release			
24V DC - Left	CM914020400	2310	1
110V AC - Left	CM97883OA00	2310	1
240/415V AC - Left	CM97883OM00	2310	1
Under Voltage Release			
240V AC - Left	CM97892BOOO	3840	1

Description		External		
		Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals				
DU100H - 2 Pole		CM97785OOO2	310	Set of 4
DU125H - 2 Pole		CM91199OOLO	395	Set of 4
DU100D/DU100H - 3 Pole		CM97785OOOO	470	Set of 6
DU125D/DU125H - 3 Pole		CM90687OOLO	610	Set of 6
DU100D/DU100H - 4 Pole		CM97921OOOO	740	Set of 8
DU125D/DU125H - 4 Pole		CM90688OOLO	880	Set of 8
Rotary Handle				
DU100D/DU125D/ DU100H/DU125H	Direct ROM	CM97895OOOO	1490	1
	Extended ROM	CM97896OOOO	1930	1
DIN rail kit				
DU100D/DU125D/DU100H/DU125H		CM90944OOOO	175	1
SS Enclosure				
Size I Enclosure		CM90996OOOO	2450	1

Note: Phase Barriers are supplied along with all MCCBs

2 Pole / 3 Pole / 4 Pole MCCBs
DY250U1/DU250C/DU250/DU400N MCCBs

- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Range: 160A to 400A, 2P, 3P & 4P
- Common SS Enclosure for 2P, 3P & 4P*
- Compact size
- Wide Range of snap fit Internal and External Accessories
- Adjustable Overload Setting: 0.8 - 1.0 x In

Type	Thermal Release Range (A)	Breaking Capacity Icu (kA)	2 Pole		Breaking Capacity Icu (kA)	3 Pole		4 Pole		Std. Pkg. (Nos.)
			Cat. No.	M.R.P. (₹) Per Unit		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DY250U1	125-160	–	–	–	10	CM98195OOMO▲	7060	CM98196OOMO▲	9530	1
	160-200					CM98195OONO▲	8220	CM98196OONO▲	10700	1
	200-250					CM98195OOPO▲	10700	CM98196OOPO▲	14400	1
DU250C	125-160	–	–	–	25	CM90631OOMO	8930	CM90634OOMO	11400	1
	160-200					CM90631OONO	10800	CM90634OONO	13700	1
	200-250					CM90631OOPO	11900	CM90634OOPO	15700	1
DU250	125-160	AC : 65kA @ 240V AC, 50Hz DC : 15kA for DU250 @250V DC & 25kA for DU400N @ 250V DC, (2P in Series) L/R < 15 msec.	CM90905OOMO	7620	36	CM98062OOOO	10400	CM98065OOMO	12800	1
	160-200		CM90905OONO	8810		CM98061OOOO	12700	CM98065OONO	17200	1
	200-250		CM90905OOPO	9860		CM98060OOOO	14200	CM98065OOPO	18800	1
DU400N	250-320		CM90886OOQO	17800	50	CM98402OOQO	21300	CM98404OOQO	26100	1
	320-400		CM90886OORO	17800		CM98402OORO	21300	CM98404OORO	26100	1

▲- Spreader Terminals are included
Note: 2 Pole in 3 Pole frame size * For DU250/DU250C

Accessories for DY250U1/DU250/DU250C MCCBs [8538]

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact			
1 C/O - Right	CM97886OOOO	1100	1
2 C/O - Right	CM97887OOOO	1950	1
Trip Alarm Contact			
1 C/O - Right	CM97888OOOO	1100	1
2 C/O - Right	CM97889OOOO	1950	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	CM97890OOOO	1880	1
Shunt Release			
24V DC - Left	CM914020400	2180	1
110V AC - Left	CM97883OA00	2180	1
240/415V AC - Left	CM97883OM00	2180	1
Under Voltage Release			
240V AC - Left	CM97892BOOO	3620	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
DU250 - 2 Pole	CM909600OOO	1460	Set of 4
DU250C/DU250 - 3 Pole	ST980530OOO	1870	Set of 6
DU250C/DU250 - 4 Pole	CM920070OOO	2480	Set of 8
Rotary Handle			
Direct ROM	CM980400OOO	1510	1
Extended ROM	CM980410OOO	1940	1
SS Enclosure			
Size II Enclosure	CM910030OOO	5510	1

Note: Phase Barriers are supplied along with all MCCBs

Accessories for DU400N MCCBs [8538]

Auxiliary Contact

TAC

Shunt Release

UV Release

Spreader Terminals

Direct ROM

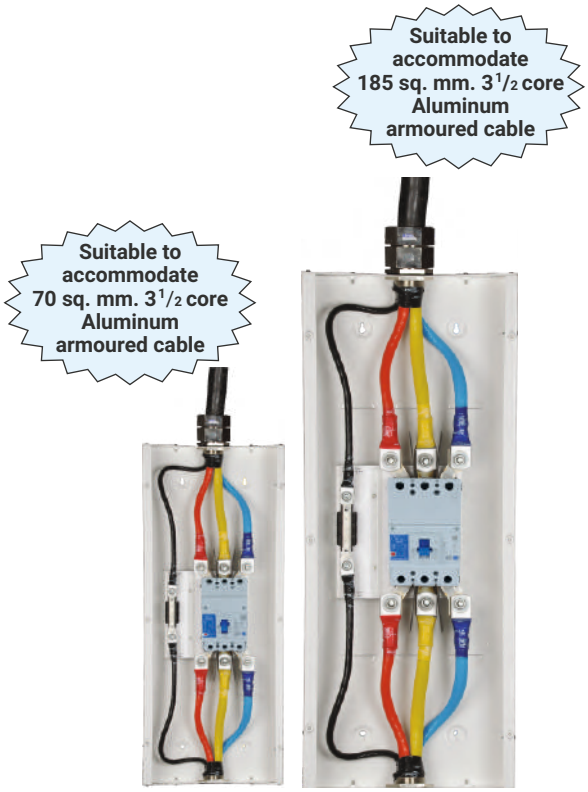
Extended ROM

Description	Internal		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact			
1 C/O	CM998010OOO	1360	1
2 C/O	CM998020OOO	2360	1
Trip Alarm Contact			
1 C/O - Right	CM998030OOO	1430	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	CM998040OOO	2630	1
Shunt Release			
110/240/415V AC, 220V DC	CM998050OOO	3410@	1
24V DC	CM989760400	3410@	1
Under Voltage Release			
240V AC - Left	CM99986BOOO	4740	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
2 Pole	CM909640OOO	2460	Set of 4
3 Pole	ST980650OOO	3910	Set of 6
4 Pole	ST980660OOO	5620	Set of 8
Rotary Handle			
Direct ROM	CM998600OOO	2470	1
Extended ROM	CM998610OOO	4060	1

Note:
Phase Barriers are supplied along with all MCCBs
All internal accessories & ROMs are common for 2P MCCBs
@ - 'NO' of control contactor to be connected in series for DC control supply

SS Enclosure for MCCBs [8538]



Size I & Size II Enclosures

Note:
Pictorial is for representation purpose only.
Does not include cabling. MCCB to be purchased separately.

Perfect home for your MCCB

- Superior Aesthetics
- Common Enclosure for 3P and 4P MCCBs
- Generous space for cable termination
- In-built neutral Link for TPN system
- IK08 and IP30 Protection
- Mounting holes for easy wall mounting
- Louvers for better heat dissipation
- Effortless Installation
- Size I suitable up to 125A MCCBs, 36kA
- Size II suitable from 160A to 250A MCCBs, 50kA

Separate cable gland box NOT required

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Size I Enclosure for DU100H/DU125H/ DU100D/DU125D/DN0/DY125U	**CM909960000**	**2450**	1
Size II Enclosure for DY250U1/DU250C/DU250/DN1	**CM910030000**	**5620**	1

Easy wall Mounting

In-built Neutral Link

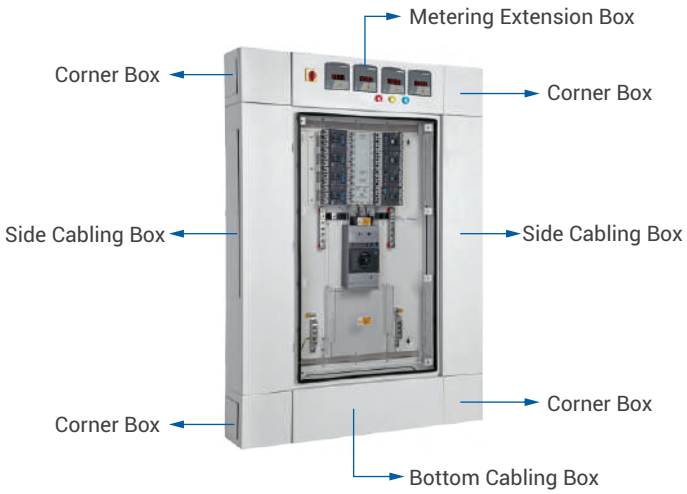
Better Heat Dissipation

Ground Fault Module [8538]

- Provides protection against ground fault
- GF Module for ground fault protection can be used with all Thermal Magnetic MCCBs
- Adjustable ground fault sensitivity selection: 10% - 50% of In
- Adjustable time delay: 100ms / 200ms
- Test facility to check healthiness of ground fault protection system without tripping MCCB
- Suitable for 3 phase 3 wire & 3 phase 4 wire electrical distribution network with cable termination
- LED for earth fault indication

Ground Fault Protection					
Type	Range (A)	Cat. No.	M.R.P. (₹) Per Unit	CT	Std. Pkg. (Nos.)
GF1	100 - 200A	**ST277450000**	**11300**	Built in CBCT	1
GF2	200 - 400A	**ST277460000**	**17300**	Built in CBCT	1
GF11	up to 800A	**ST285940000**	**10500 #**	External CT required	1

 # External CTs of 5P10 class with secondary rating of 1A or 5A



Range Highlights

- Sub Main Distribution Board (SMDB) with MCCB as incomer and MCCBs as outgoing devices
- Conforms to IEC 61439-2
- DEKRA and ASTA certified
- Rating up to 630 A
- Short-time withstand current
  - 250A & 400A SMDB - 36 kA 1s
  - 630A SMDB - 50 kA 1s
- Ingress protection - IP 43
- Choice in number of outgoing ways - 4, 8, 12 and 16
- Ready to use, off the shelf solution
- Suitable for d sine range of MCCBs
- Metering & cabling extensions are available as accessories

ENERSYS-S SMDB

Description	Cat. No.	No of ways		M.R.P. (₹) Per Unit	Height (H) (mm)	Width (W) (mm)	Depth (D) (mm)
		250A	100A				
SMDB - TN250D, O/G 100A 4 ways	**DA20D1044CZZ0**	-	4	**53760**	637	670	208.5
SMDB - TN250D, O/G 100A 8 ways	**DA20D1084CZZ0**	-	8	**65385**	787	670	208.5
SMDB - TN250D, O/G 100A 12 ways	**DA20D1124CZZ0**	-	12	**82245**	937	670	208.5
SMDB - TN250D, O/G 100A 16 ways	**DA20D1164CZZ0**	-	16	**96655**	1087	670	208.5
SMDB - TN400D, O/G 100A 4 ways	**DA40D1044CZZ0**	-	4	**60240**	937	670	208.5
SMDB - TN400D, O/G 100A 8 ways	**DA40D1084CZZ0**	-	8	**68640**	1087	670	208.5
SMDB - TN400D, O/G 100A 12 ways	**DA40D1124CZZ0**	-	12	**88255**	1237	670	208.5
SMDB - TN400D, O/G 100A 16 ways	**DA40D1164CZZ0**	-	16	**104025**	1387	670	208.5
SMDB - TN630D, O/G 100A 8 ways	**DA60D1084CZZ0**	-	8	**113810**	1287	870	208.5
SMDB - TN630D, O/G 100A 12 ways	**DA60D1124CZZ0**	-	12	**153700**	1507	870	208.5
SMDB - TN630D, O/G 100A 16 ways	**DA60D1164CZZ0**	-	16	**168475**	1507	870	208.5
SMDB - TN630D, O/G 250A 4 ways	**DA62D1044CZZ0**	4	-	**110840**	1067	870	208.5
SMDB - TN630D, O/G 250A 8 ways	**DA62D1084CZZ0**	8	-	**124140**	1287	870	208.5
SMDB - TN630D, O/G 250A 12 ways	**DA62D1124CZZ0**	12	-	**159610**	1507	870	208.5
SMDB - TN630D, O/G 250A 16 ways	**DA62D1164CZZ0**	16	-	**178825**	1727	870	208.5
SMDB - TN630D, O/G COMBI 4 ways	**DA6AD1044CZZ0**	2	2	**108625**	1067	870	208.5
SMDB - TN630D, O/G COMBI 8 ways	**DA6AD1084CZZ0**	2	6	**118230**	1287	870	208.5
SMDB - TN630D, O/G COMBI 12 ways	**DA6AD1124CZZ0**	2	10	**156650**	1507	870	208.5
SMDB - TN630D, O/G COMBI 16 ways	**DA6AD1164CZZ0**	2	14	**172905**	1507	870	208.5

Incoming Device [8536]

SMDB Type	Description	Cat. No.	M.R.P. (₹) Per Unit
TN250D*	DN1-250C 3 Pole MCCB - 160A	**CM90638OOMO**	**17900**
	DN1-250C 3 Pole MCCB - 200A	**CM90638OONO**	**22900**
	DN1-250C 3 Pole MCCB - 250A	**CM90638OOPO**	**26900**
TN400D	DN3-400D 3 Pole MCCB - 320A	**CM94005OOQ1OG**	**41100**
	DN3-400D 3 Pole MCCB - 400A	**CM94005OOR1OG**	**41100**
TN630D	DN3-630D 3 Pole MCCB - 500A	**CM94006OOS1OG**	**49400**
	DN3-630D 3 Pole MCCB - 630A	**CM94006OOT1OG**	**49400**

Note:

- While ordering SMDB, incoming and outgoing MCCBs have to be ordered separately.
- Prices of MCCBs are not included in SMDB prices.

* TN250D - Suitable for DN1-250N, DU250 & DU250C MCCB as incomer.

Outgoing Device [8536]

SMDB Type	Description	Cat. No.	M.R.P. (₹) Per Unit
TN250D, TN400D & TN630D	DN0-100C 3 Pole MCCB - 20A	**CM91612OOCOOG**	**9830**
	DN0-100C 3 Pole MCCB - 25A	**CM91612OODOOG**	**9830**
	DN0-100C 3 Pole MCCB - 32A	**CM91612OOEOOG**	**9830**
	DN0-100C 3 Pole MCCB - 40A	**CM91612OOFOOG**	**9830**
	DN0-100C 3 Pole MCCB - 50A	**CM91612OOGOOG**	**9830**
	DN0-100C 3 Pole MCCB - 63A	**CM91612OOHOOG**	**9540**
	DN0-100C 3 Pole MCCB - 80A	**CM91612OOJOOG**	**9540**
	DN0-100C 3 Pole MCCB - 100A	**CM91612OOKOOG**	**9540**
TN630D	DN1-250C 3 Pole MCCB - 160A	**CM90638OOMO**	**17900**
	DN1-250C 3 Pole MCCB - 200A	**CM90638OONO**	**22900**
	DN1-250C 3 Pole MCCB - 250A	**CM90638OOPO**	**26900**

Dn0, DU100D & DU100H MCCBs are suitable as outgoing devices up to 100 A
DN1-250N, DU250 & DU250C MCCBs are suitable as outgoing devices up to 250 A

Metering, Bottom Cabling & Corner Box

› Provision of 3 nos of 1-phase ammeter (96*96), 1 nos of 1-phase voltmeter (96*96) with selector switch and indicating lamps.

SMDB Type	Description	Cat. No.	M.R.P. (₹) Per Unit
TN250D & TN400D	Metering Extension Box	CM90439OOPO	8300
	Bottom Cabling Box	CM90437OOOO	7780
TN630D	Metering Extension Box	CM91064OOTO	8750
	Bottom Cabling Box	CM91062OOOO	8230
TN250D, TN400D & TN630D	Corner Box	CM91089OOOO	2890
	Mounting base	CM70260OOOO	3900

Note:

› Ammeter, voltmeter, selector switch and indicating lights have to be ordered separately.

› Mounting base to be used without bottom cabling box.

Side Cabling Box

SMDB Type	No. of Ways		Left		Right	
	250A	100A	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
TN250D	-	4	CM91085ODOO	7960	CM91086ODOO	7960
	-	8	CM91085OFOO	10280	CM91086OFOO	10280
	-	12	CM91085OHOO	12320	CM91086OHOO	12320
	-	16	CM91085OKOO	14380	CM91086OKOO	14380
TN400D	-	4	CM91087ODOO	12320	CM91088ODOO	12320
	-	8	CM91087OFOO	14380	CM91088OFOO	14380
	-	12	CM91087OHOO	15750	CM91088OHOO	15750
	-	16	CM91087OKOO	17800	CM91088OKOO	17800
TN630D	-	8	CM91120OOFO	14920	CM91121OOFO	14920
	-	12	CM91120OOHO	17380	CM91121OOHO	17380
	-	16				
	4	-	CM91120OODO	13370	CM91121OODO	13370
	8	-	CM91120OOFO	14920	CM91121OOFO	14920
	12	-	CM91120OOHO	17380	CM91121OOHO	17380
	16	-	CM91120OOKO	18940	CM91121OOKO	18940
	2	2	CM91120OODO	13370	CM91121OODO	13370
	2	6	CM91120OOFO	14920	CM91121OOFO	14920
	2	10	CM91120OOHO	17380	CM91121OOHO	17380
	2	14				

Lauritz Knudsen
Electrical & Automation

Introducing Lauritz Knudsen's

FIRST SERVE PROGRAM

Peace of Mind with Priority Service for our Air Circuit Breaker

Avail Exclusive Benefits Under "FIRST SERVE" Program for Our Air Circuit Breakers in India

Benefits

- **Priority Service:** Enjoy expedited service for our ACB.
- **Expert Support:** Receive guidance and technical assistance from our team.
- **Peace of Mind:** Rest assured knowing our ACB is in good hands.

Eligibility

- **ACB should be within the warranty period.**

To learn more about the First Serve Program or to schedule our ACB's first service visit, please contact

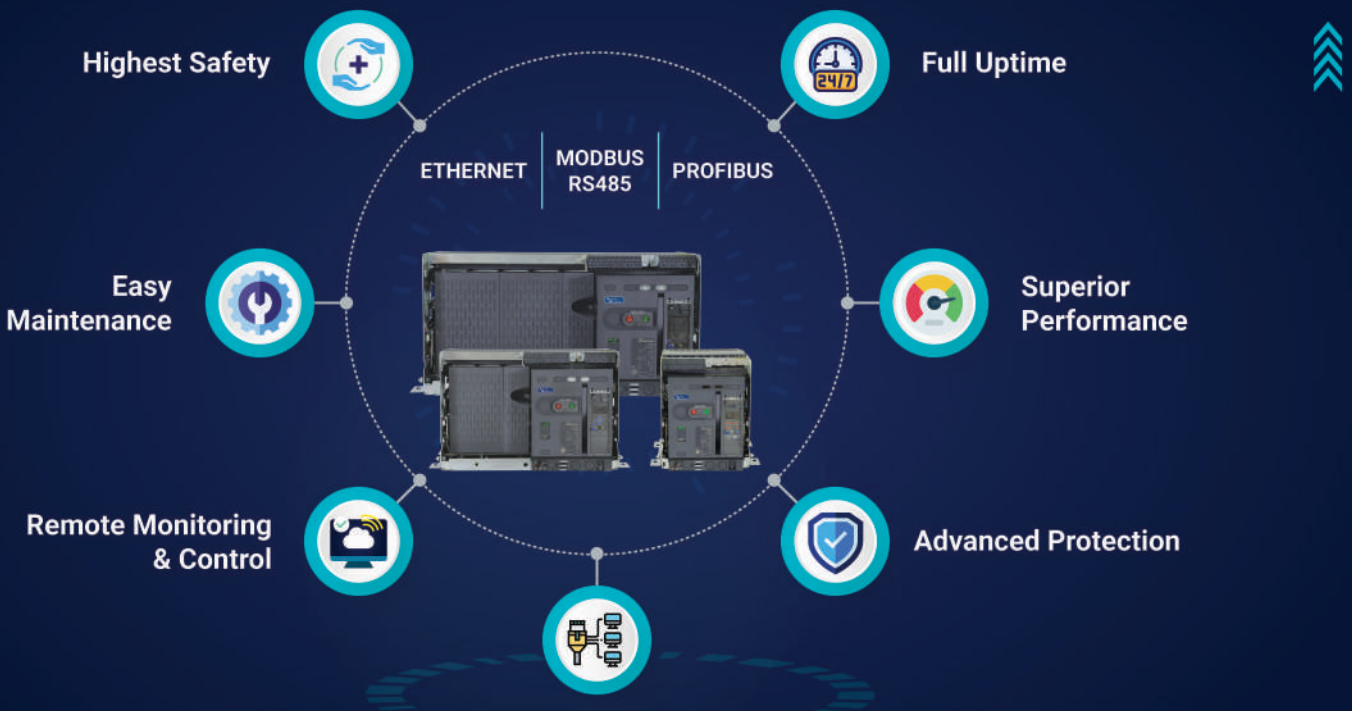
Customer Connect Hub at +91-22-6932-7800

TRUSTED PARTNER FOR SUSTAINABLE AND EMERGING SOLUTIONS

Lauritz Knudsen
Electrical & Automation

U-POWER
OMEGA
Air Circuit Breakers

DIGITAL READY SOLUTION TO ENHANCE ENERGY EFFICIENCY



U-POWER OMEGA Air Circuit Breakers Range of Air Circuit Breakers

- Complete range conforms to IS/IEC 60947-2 & IEC 60947-2
- Current Rating from **400A to 6300A in 3 Frame sizes** for application voltages **upto 690V AC**
- Special ACB range available for Voltage Applications **upto 800V AC and 1000V AC#**
- Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed/Draw-out version
- Common Height & Depth across the range
- High short time fault withstand capacity, Icu = Ics = Icw for 1 sec for total selectivity
- High mechanical and electrical operating life
- Neutral pole is 100% rated, option of 50% & 200% rated neutral also available
- Available in standard NRYB & RYBN/NBYR/BYRN configurations in 4 Pole ACBs **with on-site change facility**
- In-built Electrical & Mechanical Anti-Pumping
- Modular & snap-fit accessories
- Ease of on-site conversion from Fixed to Draw-out version
- Pollution Degree 4 suitability
- Best in Class Overlap with Bus bars
- Break Time of 25msec
- RoHS Compliant

Matrix Protection & Control Units:

- Available in versions - MTX1.0/1G/1Gi/1.5G/1.5Gi, MTX3.5/3.5EC/3.5H & MTX4.5
- Unique O-LED display for metering
- Touch screen technology in UW-MTX4.5
- Unique withdrawable Communication & Power metering modules
- Dual protection curve settings & Password protection
- Soft-rating plug for precise protection at lower load currents
- Provision for on-load self-diagnosis of Releases & modules
- Data communication on Modbus, Profibus & wireless Zigbee protocols
- Power & Harmonics measurement
- Temperature rise monitoring & protection
- Easy to integrate with HMI & PLC
- Add-on modules for advance protections
- Protection Releases conform to EMI/EMC standard

UW-MTX1G/1Gi

UW-MTX1.5G/1.5Gi

UW-MTX3.5/3.5EC/3.5H

For on-board Ethernet connectivity
Please contact the nearest branch office

Breaking Capacities Offered:

at 415V/440V AC (Please refer Catalogue for Breaking Capacities above 440V AC)

Icu = Ics = Icw for 1 sec

	Rated current	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A	5000A	6300A
Frame-1	N : 50kA										
	S : 65kA										
	H : 80kA										
		UW1-08	UW1-10	UW1-12	UW1-16	UW1-20	UW1-25				
Frame-2	N : 50kA								New		
	S : 65kA										
	H : 80kA										
		UW2-08	UW2-10	UW2-12	UW2-16	UW2-20	UW2-25	UW2-32	UW2-40		
Frame-3	H : 80kA										
	V : 100kA										
		UW3-08	UW3-10	UW3-12	UW3-16	UW3-20	UW3-25	UW3-32	UW3-40	UW3-50	UW3-63

Note: 400A & 630A ACBs are also available on request. # Please contact the nearest branch office for more details of 1000V AC ACBs

U-POWER OMEGA Air Circuit Breakers ACB ordering information:

UW	1	08	N	X	D	1	2	9	0	0#	UW1 800N 3P ED 1.5G BotV

Selection for Termination **(For Drawout ACBs Only)**	
Standard Termination	0
For Top Horizontal (Long), Bottom Vertical for Fr2 & Fr3	X
For Top & Bottom Horizontal (Long) for Fr3	Y

Note: X is applicable for 4000A (Fr2 & Fr3) and 5000A (Fr3).
Y is applicable for 4000A (Fr3) & 5000A (Fr3).
X & Y recommended for Buscoupler only.

Temperature Rise Monitoring[3]	
Not Required	***0***
Required	1

Selection for P&C Units	
B/C (w/o protection)	0
UW - MTX1.0	7
UW - MTX1G	8
UW - MTX1Gi	B
UW - MTX1.5G	***9***
UW - MTX1.5Gi	C
UW-MTX3.5	3
UW-MTX3.5EC[5]	4
UW-MTX4.5	5
UW-MTX3.5H	6

Frame Size	
Frame - I	***1***
Frame - II	2
Frame - III	3

Current Ratings	
400A	04
630A	06
800A	***08***
1000A	10
1250A	12
1600A	16
2000A	20
2500A[4]	25
3200A	32
4000A	40
5000A	50
6300A	63

Type	
Manually Operated	1
Electrically Operated	***2***

Selection for control voltage[2]	
For Manually Operated	0
240V AC/DC ECD & CR + 240V AC/DC SR	***1***
240V AC/DC ECD & CR + 24V DC SR	2
110V AC/DC ECD & CR + 110V AC/DC SR	3
240V AC/DC ECD & CR + 110V AC/DC SR	4

Selection for Breaking Capacity (Icu=Ics)[1]	
50kA (Fr-I upto 2000A & Fr-II upto 3200A)	***N***
65kA (Fr-I & Fr-II)	S
80kA (Fr-I, Fr-II & Fr-III)	H
100kA (Fr-III)	V

Version	
Draw-out	***D***
Fixed	F

Selection for No. of Poles	
3 Pole	***X***
4 Pole 100% N	F
4 Pole 50% N (in Fr-III only)	H
4 Pole 200% N (upto 2500A)	D

Please Note :

[1] For Icw values please refer product catalogue
[2] Other options of control voltage are available as accessory
[3] Temperature protection is available in UW-MTX3.5/3.5EC/3.5H/4.5
[4] For Fr-1, 2500A selection, please contact the nearest branch office
[5] For system requiring 690V metering, kindly order separate Power Metering module with MTX 3.5 **(refer page 76)**

U-POWER OMEGA Air Circuit Breakers ACBs are offered with following standard features:

Draw-out Version: Omega ACBs with UW-MTX release will have inbuilt-
Current Metering (MTX 1.5G/1.5Gi/3.5/3.5EC/3.5H/4.5), Common Fault Indication microswitch, 4NO+4NC Aux. contacts, Smart-racking shutter, Safety shutter assembly, Racking Handle, Door sealing frame, Pad-locking arrangement for ON/OFF button, Rating Error Preventer, Arc shield.
A) For ratings upto 1600A, one side vertical terminal adaptors (Bottom) for Frame 1, 2 & 3.
B) For ratings 2000A & above, both side vertical terminal adaptors (Top & Bottom) for Frames 1, 2 & 3.
C) For rating 4000A and above operation counter inbuilt for Frames 2 & 3 both.

Fixed Version: Omega ACBs with UW-MTX release will have inbuilt-
Current Metering (1.5G/1.5Gi/3.5/3.5EC/3.5H/4.5), Common Fault Indication microswitch, 4NO+4NC Aux. contacts, Door sealing frame & Pad-locking arrangement for ON/OFF push button.
A) For ratings upto 1600A, one side vertical terminal adaptors (Bottom) for Frames 1, 2 & 3.
B) For ratings 2000A & above, both side vertical terminal adaptors (Top & Bottom) for Frames 1, 2 & 3.
C) For ratings 4000A & above, operation counter inbuilt for Frames 2 & 3 both.
Electrically operated ACB includes ECD, CR & SR as per selection of above mentioned control voltage options.

Please contact the nearest branch office for more details of 1000V AC ACBs

3 Pole ACBs upto 690V AC with UW-MTX1G (LSING - BCD Switches) [8536]

Current Rating	Version	3 Pole Manual Draw-out ACB with UW-MTX1G							
		N (50kA @ 415V AC)		S (65kA @ 415V AC)		H (80kA @ 415V AC)		V (100kA @ 415V AC)	
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	MDO	UW108NXD01800	*	UW108SXD01800	*	UW108HXD01800	*	UW308VXD01800	*
1000A		UW110NXD01800		UW110SXD01800		UW110HXD01800		UW310VXD01800	
1250A		UW112NXD01800		UW112SXD01800		UW112HXD01800		UW312VXD01800	
1600A		UW116NXD01800		UW116SXD01800		UW116HXD01800		UW316VXD01800	
2000A		UW120NXD01800		UW120SXD01800		UW120HXD01800		UW320VXD01800	
2500A		UW225NXD01800		UW225SXD01800		UW225HXD01800		UW325VXD01800	
3200A		UW232NXD01800		UW232SXD01800		UW232HXD01800		UW332VXD01800	
4000A		New UW240NXD01800		UW240SXD01800		UW240HXD01800		UW340VXD01800	
4000A		-	-	-	-	UW340HXD01800		UW340VXD01800	
5000A		-	-	-	-	UW350HXD01800		UW350VXD01800	
6300A		-	-	-	-	UW363HXD01800		UW363VXD01800	

3 Pole Manual Fixed ACB with UW-MTX1G									
800A	MF	UW108NXF01800	*	UW108SXF01800	*	UW108HXF01800	*	UW308VXF01800	*
1000A		UW110NXF01800		UW110SXF01800		UW110HXF01800		UW310VXF01800	
1250A		UW112NXF01800		UW112SXF01800		UW112HXF01800		UW312VXF01800	
1600A		UW116NXF01800		UW116SXF01800		UW116HXF01800		UW316VXF01800	
2000A		UW120NXF01800		UW120SXF01800		UW120HXF01800		UW320VXF01800	
2500A		UW225NXF01800		UW225SXF01800		UW225HXF01800		UW325VXF01800	
3200A		UW232NXF01800		UW232SXF01800		UW232HXF01800		UW332VXF01800	
4000A		New UW240NXF01800		UW240SXF01800		UW240HXF01800		UW340VXF01800	
4000A		-	-	-	-	UW340HXF01800		UW340VXF01800	
5000A		-	-	-	-	UW350HXF01800		UW350VXF01800	
6300A		-	-	-	-	UW363HXF01800		UW363VXF01800	

M.R.P. changes for product customization	M.R.P. (₹) Per Unit
MDO to EDO or MF to EF Conversion kit (ECD + CR + SR)	*
Buscoupler (without protection release)	
UW-MTX1.0 (LSI - BCD Switches)	
UW-MTX1Gi (LSING + Inbuilt ZSI - BCD Switches)	
UW-MTX1.5G (LSING + Current Metering - BCD Switches)	
UW-MTX1.5Gi (LSING + Current Metering + Inbuilt ZSI - BCD Switches)	
UW-MTX3.5 (LSING + Current Metering) + can be upgraded for Power Metering & Communication	
UW-MTX3.5EC (LSING + Power Metering + Communication)	
UW-MTX3.5H (LSING + Power Metering + Harmonic Metering)	
UW-MTX4.5 (LSING + Power Metering + Harmonic Metering + Communication with Touch Screen navigation + PS Module)	
PS (Auxiliary power supply module for display in No-load or OFF condition)$	
COM Module (MODBUS) for communication$	
PM Module for power metering$	

* **Available on request**
$ Chapter ID [8538]

4 Pole ACBs upto 690V AC with UW-MTX1G (LSING - BCD Switches) [8536]

Current Rating	Version	4 Pole Manual Draw-out ACB with UW-MTX1G							
		N (50kA @ 415V AC)		S (65kA @ 415V AC)		H (80kA @ 415V AC)		V (100kA @ 415V AC)	
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	MDO	UW108NFD01800	*	UW108SFD01800	*	UW108HFD01800	*	UW308VFD01800	*
1000A		UW110NFD01800		UW110SFD01800		UW110HFD01800		UW310VFD01800	
1250A		UW112NFD01800		UW112SFD01800		UW112HFD01800		UW312VFD01800	
1600A		UW116NFD01800		UW116SFD01800		UW116HFD01800		UW316VFD01800	
2000A		UW120NFD01800		UW120SFD01800		UW120HFD01800		UW320VFD01800	
2500A		UW225NFD01800		UW225SFD01800		UW225HFD01800		UW325VFD01800	
3200A		UW232NFD01800		UW232SFD01800		UW232HFD01800		UW332VFD01800	
4000A		New UW240NFD01800	-	UW240SFD01800		UW240HFD01800		UW340VFD01800	
4000A		-	-	-	-	UW340HFD01800		UW340VFD01800	
5000A		-	-	-	-	UW350HFD01800		UW350VFD01800	
6300A		-	-	-	-	UW363HFD01800		UW363VFD01800	

4 Pole Manual Fixed ACB with UW-MTX1G									
800A	MF	UW108NFF01800	*	UW108SFF01800	*	UW108HFF01800	*	UW308VFF01800	*
1000A		UW110NFF01800		UW110SFF01800		UW110HFF01800		UW310VFF01800	
1250A		UW112NFF01800		UW112SFF01800		UW112HFF01800		UW312VFF01800	
1600A		UW116NFF01800		UW116SFF01800		UW116HFF01800		UW316VFF01800	
2000A		UW120NFF01800		UW120SFF01800		UW120HFF01800		UW320VFF01800	
2500A		UW225NFF01800		UW225SFF01800		UW225HFF01800		UW325VFF01800	
3200A		UW232NFF01800		UW232SFF01800		UW232HFF01800		UW332VFF01800	
4000A		New UW240NFF01800		UW240SFF01800		UW240HFF01800		UW340VFF01800	
4000A		-	-	-	-	UW340HFF01800		UW340VFF01800	
5000A		-	-	-	-	UW350HFF01800		UW350VFF01800	
6300A		-	-	-	-	UW363HFF01800		UW363VFF01800	

* Available on request

Accessories of OMEGA Air Circuit Breakers [8538]

Terminal Adaptor configuration upto 690V AC

Draw-out ACBs Terminal Adaptors

Fix ACBs Terminal Adaptors

Description	Cat. No.	M.R.P. (₹) Per Unit
Terminal Adaptor for Draw-out Omega ACBs		*
Frame-1 400-1000A N/S/H (Vertical / Horizontal)	CL604380000	
Frame-1 1250-2000A N/S/H (Vertical / Horizontal)	CL609630000	
Frame-1 2500A S/H (Vertical)	CL609640000	
Frame-2 400-3200A N/S/H (Vertical / Horizontal)		
Frame-2 4000A N/S/H (Vertical)	CL604200000	
Frame-2 4000A N/S/H (Horizontal)	CL603160000	
Frame-3 400-4000A H/V (Vertical) #	CL601280000	
Frame-3 400-4000A H/V (Horizontal-Long)	CL600730000	
Frame-3 5000A H/V (Horizontal-Long)	CL609660000	
Frame-3 5000A H/V (Vertical)#	CL600670000	
Frame-3 6300A H/V (Vertical) #	CL609650000	

: Please consider 4 terminal adaptors per phase.

Description	Cat. No.	M.R.P. (₹) Per Unit
Terminal Adaptor for Fixed Omega ACBs		*
Frame-1 400-2000A N/S (Vertical / Horizontal)	CL609670000	
Frame-1 400-2000A H (Vertical / Horizontal)	CL609680000	
Frame-1 2500A S/H (Vertical)	CL609760000	
Frame-2 400-2500A N/S (Vertical / Horizontal)	CL601220000	
Frame-2 400-3200A H, 3200A N/S (Vertical / Horizontal)	CL609770000	
Frame-2 4000A S/H (Vertical)	CL604170000	
Frame-3 400-4000A H/V (Vertical)#	CL604180000	
Frame-3 5000A H/V (Vertical)#	CL603470000	
Frame-3 400-5000A H/V (Horizontal-Long)	CL603730000	

: Please consider 4 terminal adaptors per phase.

New 800V AC ACBs with UW-MTX1G (LSING - BCD Switches) [8536]

Breaking Capacity @ 800V AC (Icu=Ics=Icw for 1s)

800V AC Manual Fix/Draw-out ACB with UW-MTX1G									
Current Rating	Frame	Breaking Capacity @ 800V AC	3P				4P			
			Fix		Draw-out		Fix		Draw-out	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	1	50kA	UW108NXF0180ZM	*	UW108NXD0180ZM	*	UW108NFF0180ZM	*	UW108NFD0180ZM	*
1000A			UW110NXF0180ZM		UW110NXD0180ZM		UW110NFF0180ZM		UW110NFD0180ZM	
1250A			UW112NXF0180ZM		UW112NXD0180ZM		UW112NFF0180ZM		UW112NFD0180ZM	
1600A			UW116NXF0180ZM		UW116NXD0180ZM		UW116NFF0180ZM		UW116NFD0180ZM	
2000A			UW120NXF0180ZM		UW120NXD0180ZM		UW120NFF0180ZM		UW120NFD0180ZM	
2000A	2	50kA	UW220NXF0180ZM	*	UW220NXD0180ZM	*	UW220NFF0180ZM	*	UW220NFD0180ZM	*
2500A			UW225NXF0180ZM		UW225NXD0180ZM		UW225NFF0180ZM		UW225NFD0180ZM	
3200A			UW232NXF0180ZM		UW232NXD0180ZM		UW232NFF0180ZM		UW232NFD0180ZM	
4000A			-		UW240NXD0180ZM		-		UW240NFD0180ZM	
3200A	3	50kA	UW332NXF0180ZM	*	UW332NXD0180ZM	*	UW332NFF0180ZM	*	UW332NFD0180ZM	*
4000A			UW340NXF0180ZM		UW340NXD0180ZM		UW340NFF0180ZM		UW340NFD0180ZM	
5000A			UW350NXF0180ZM		UW350NXD0180ZM		UW350NFF0180ZM		UW350NFD0180ZM	
3200A	3	65kA	UW332SXF0180ZM	*	UW332SXD0180ZM	*	UW332SFF0180ZM	*	UW332SFD0180ZM	*
4000A			UW340SXF0180ZM		UW340SXD0180ZM		UW340SFF0180ZM		UW340SFD0180ZM	
5000A			UW350SXF0180ZM		UW350SXD0180ZM		UW350SFF0180ZM		UW350SFD0180ZM	

Note: 1. Above mentioned Cat. No. of ACBs are without Terminal Adaptors. Please consider Terminal Adaptors from below table.
2. Phase-Barriers are mandatory to be used with 800V AC ACBs:
(a) For Draw-out ACBs, Phase-Barriers are provided as standard supply along with ACBs
(b) For Fix ACBs, kindly consider Phase-Barriers from below table

M.R.P. changes for product customization	M.R.P. (₹) Per Unit
Buscoupler (without protection release)	*
UW-MTX1.0 (LSI - BCD switch for selection)	
UW-MTX1G (LSING - BCD switch for selection)	
UW-MTX1.5G (LSING + display - BCD switch for selection)	
UW-MTX3.5 (LSING + Display + Option for other features)	
UW-TM - Temperature Rise Module (for MTX3.5)	
MDO to EDO or MF to EF Conversion kit (ECD + CR + SR)	
COM Module (MODBUS) for communication	
PS (Auxiliary power supply module for display in No-load or OFF condition)	

Terminal Adaptors for 800V ACBs [8538]

Current Rating	Frame	Fix			Draw-out		
		Cat. No.	M.R.P. (₹) Per Unit	Qty (3P/4P)	Cat. No.	M.R.P. (₹) Per Unit	Qty (3P/4P)
630A	1	CL609670000	*	(6/8)	CL609630000	*	(6/8)
800A		CL609670000		(6/8)	CL609630000		(6/8)
1000A		CL609670000		(6/8)	CL609630000		(6/8)
1250A		CL609670000		(6/8)	CL609630000		(6/8)
1600A		CL609670000		(6/8)	CL609630000		(6/8)
2000A		CL601220000		(6/8)	CL609640000		(6/8)
2000A	2	CL609770000		(6/8)	CL609640000		(6/8)
2500A		CL603180000		(6/8)	CL609640000		(6/8)
3200A		CL604170000		(6/8)	CL604190000		(6/8)
4000A		-		-	CL604200000		(6/8)
3200A	3	CL604180000		(12/16)	CL601280000		(12/16)
4000A		CL604180000		(12/16)	CL600670000		(12/16)
5000A		CL603470000		(12/16)	CL609650000		(12/16)

Note: Please contact the nearest branch office for more details of 1000V AC ACBs

Draw-out ACBs Terminal Adaptors

Fix ACBs Terminal Adaptors

Phase-Barriers for 800V AC Fix ACBs [8538]

Cat. No.	Type	Pole	M.R.P. (₹) Per Unit	Qty. per ACB
CL912580000	Fix	3P	*	2
CL912590000	Fix	4P		2

*** Available on request**

Operation Counter

Door Interlock

Closing Release

Shunt Release

UV Release

Description	Cat. No.	M.R.P. (₹) Per Unit
Other Accessories [8538]		
Operation Counter	CL909830000#	
Door Interlock	CL909780000	*
Electrical Position Indication (EPI)	CL958260000	
Microswitches for Indication [8536]		
Microswitch for Common Fault Indication (CFI)	CL909490000	
Microswitch for Ready To Close Indication (RTC)	CL909530000^	
Microswitch for Shunt Release	CL909510000	*
Microswitch for Undervoltage Release	CL909470000	
Microswitch for Spring Charging Indication	ST426720000	

^ Cradle SIC block CL958250000 needs to be ordered separately, If EPI not installed in same ACB

Operation Counter inbuilt for rating 4000A to 6300A

R-Lock

C-Lock

Description	Cat. No.	M.R.P. (₹) Per Unit
Mechanical Interlock using Key & Lock$		
R - Lock Type - 1	CL006590000	
R - Lock Type - 2	CL006600000	
R - Lock Type - 3	CL006610000	
R - Lock Type - 12	CL006620000	
R - Lock Type - 23	CL006630000	
Locking arrangement for OFF button with R - Lock (on breaker)	CL908150000	
Locking arrangement for ISO position with R - Lock (on Cradle)	CL908650000	
Locking arrangement for ANY position with R - Lock (on Cradle)	CL909270000	*
C - Lock Type - S	CL006640000	
C - Lock Type - T	CL006650000	
C - Lock Type - ST	CL006660000	
C - Lock Type - SS	CL006670000	
C - Lock Type - TT	CL006680000	
Locking arrangement for OFF button with C - Lock (on breaker)	CL908140000	
Locking arrangement for ISO position for C - Lock (on Cradle)	CL909820000	
Locking arrangement for ANY position with C - Lock (on Cradle)	CL909810000	

Note: For Mechanical Interlock using Key & Lock please order combination of Lock and Locking arrangement.

* Available on request $ Only locks [8301] Locking arrangement [8538]

Description	Cat. No.	M.R.P. (₹) Per Unit
Electrical Charging Device (ECD) [8501]		
24-30V DC	CL903620000	
48/60V DC	CL903630000	
110V AC / 110-125V DC	CL903600000	*
220V AC / 200V DC	CL903640000	
240V AC / 250V DC	CL903590000	
415V AC / 400V DC	CL903610000	
Closing Release (CR) [8538]		
24-30V DC	CL908174000	
48/60V DC	CL908175000	
110V AC / 110V DC	CL90817A000	*
125/127V DC	CL908171000	
220 - 240V AC / 220 - 250V DC	CL90817B000	
415V AC	CL90817D000	
Shunt Release (SR) [8538]		
24-30V DC	CL90816O400	
48/60V DC	CL90816O500	
110V AC / 110V DC	CL90816OA00	
125/127V DC	CL90816O100	*
220 - 240V AC / 220 - 250V DC	CL90816OB00	
415V AC	CL90816OD00	
Under Voltage Release (UVR) with time delay (0-1-3-5 sec) [8538]		
24-30V DC	CL908184000	
48V DC	CL908185000	
110V AC / 110V DC	CL90818A000	*
240V AC / 220V DC	CL90818B000	
415V AC	CL90818D000	

NCT

Description	Cat. No.	M.R.P. (₹) Per Unit
External Neutral CT for UW-MTX Releases [8504]		
Frame-1, 2 & 3 400-800A	CL007170000	
Frame-1, 2 & 3 1000-1600A	CL007180000	
Frame-1 2000-2500A	CL007190000	*
Frame-2 & 3 2000-4000A	CL007200000	
Frame-3 5000-6300A	CL007210000	

Automatic Transfer Controllers (ATC) [9032]

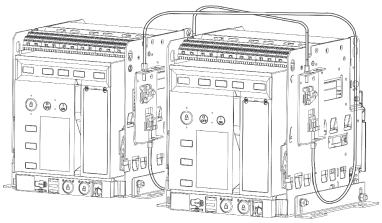
AuXC-2000 Controller

Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
AuXC-2000 controller**	ATC20000000	33200	1

Can be used along with ACB, Motorised MCCBs, MCX contactors & Motorised Changeover switches

** **Note** For communication version of AuXC controller refer page no-6

For AuXC 2000/2100 programming videos and more details please scan the QR code or click here



Mechanical Interlock using Bowden Cable [8538]

Description	Cat. No.	M.R.P. (₹) Per Unit
Mechanical Interlock using Bowden Cable (5 meters length)		
Between 2 Incomers	CL906630000	
Between 3 Incomers	CL906640000	
Between 2 Incomers & 1 Standby	CL906650000	*
Between 2 Incomers & 1 Buscoupler	CL906660000	
Mechanical Interlock using Bowden Cable (3 meters length)		
Between 2 Incomers	CL906590000	
Between 3 Incomers	CL906600000	
Between 2 Incomers & 1 Standby	CL906610000	*
Between 2 Incomers & 1 Buscoupler	CL906620000	
Mechanical Interlock using Bowden Cable (2 meters length)		
Between 2 Incomers	CL908100000	
Between 3 Incomers	CL908110000	
Between 2 Incomers & 1 Standby	CL908120000	*
Between 2 Incomers & 1 Buscoupler	CL908130000	

Note: Common from 400A to 6300A and can be interlocked between Fixed / Draw-out / Mixed version

* **Available on request**

MODBUS Module

Power Metering Module

Description	Cat. No.	M.R.P. (₹) Per Unit
MATRIX Releases & Modules [8538]		
UW-MTX1.0	CL919660000	
UW-MTX1G	CL919710000	
UW-MTX1Gi	CL905620000	
UW-MTX1.5G	CL919650000	
UW-MTX1.5Gi	CL905520000	
UW-MTX3.5	CL906450000	
UW-MTX3.5EC	CL906440000	
UW-MTX3.5H	CL906460000	
UW-MTX4.5	CL906470000	
Power supply module	CL907220000	
Relay Module	CL907160000	*
MODBUS Module	CL907090000	
Profibus Module	CL902950000	
Matrix Smart Card Module	CL907050000	
Power Metering Module (415V)	CL906490000	
Power Metering Module (690V)	CL906850000	
ZSI Module	CL907180000	
TCS Module	CL907190000	
EL Module	CL907200000	
REF Module	CL907210000	
Simulation Kit	CL907240000	

For Energy Management Communication Software Please contact the nearest branch office

Pre-Engineered Retrofit Solution
Upgrade CNCS ACB to OMEGA ACB

For retrofitting of any ACB to Omega ACB please contact the nearest branch office

Presenting the pre-engineered CNCS to OMEGA Retrofit kit

CNCS to OMEGA Retrofit kit is a pre-engineered solution which allows you to upgrade from the old CNCS ACB to the advanced OMEGA ACB - with minimal modification. All installations are done by trained Engineers from the nearestAuthorised Service Centre to ensure total reliability and minimum shut-down time.

Specifications

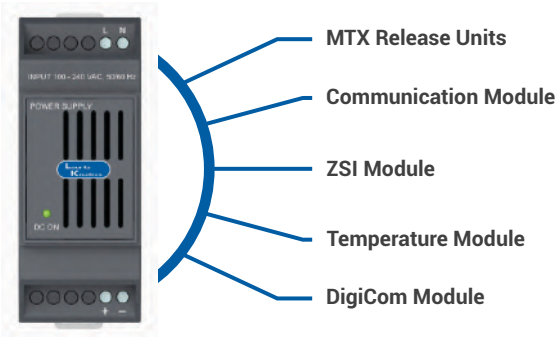
- ETP grade Copper links with Silver Plating
- CNCS to OMEGA Retrofit solution is available from 800A to 3200A

For more details please scan the QR code or click here

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

New Power Supply Module (230V AC - 24V DC 1A)

- 100-265V AC Input Voltage
- Regulated 24V DC Output Voltage
- Suitability of up to 1 Amp Loading
- Compact (2M) and Modular Design
- Suitable for DIN Rail & Base mounting



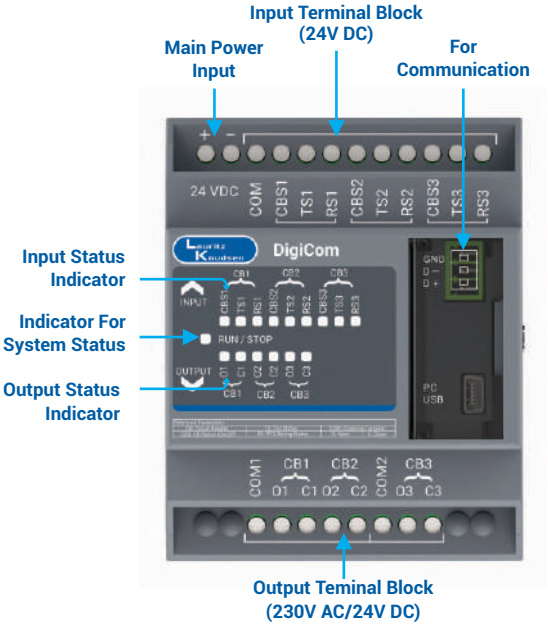
PS Module Details	Function	Module Compatibility	M.R.P. (₹) Per Unit
New PS Module (CAT Code: CL918950000)	Suitable for providing regulated 24V DC Power Supply	All MTX Release Units for Powering ON, MODBUS Module, ZSI Module, Temperature Module, UN-CO Module & DigiCom Module	6250
UW-PS Module (CAT Code: CL907220000)	Suitable for providing regulated 24V DC Power Supply and Internal Communication Bus	All MTX Release Units and MTX Modules	17000

New DigiCom Module

Status Monitoring & Control of up to 3 Circuit Breakers

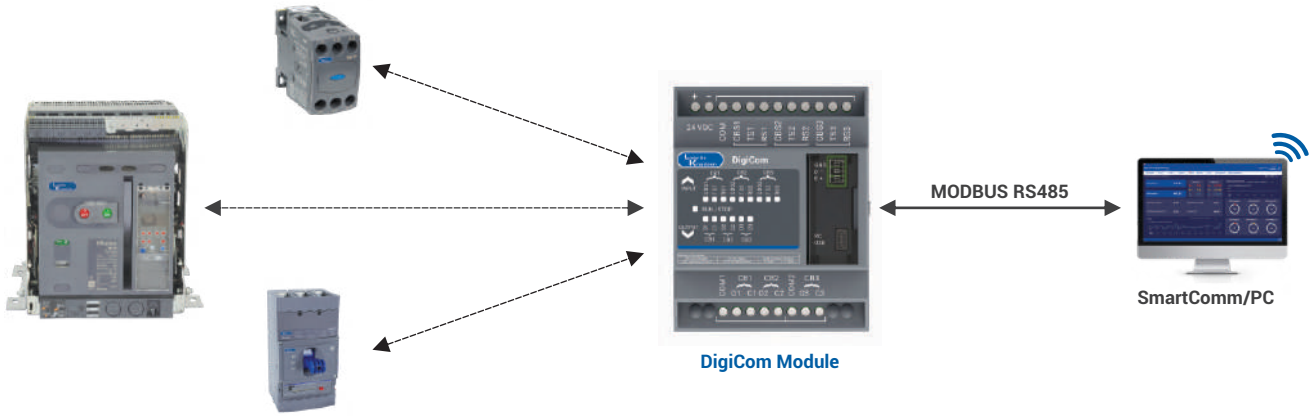
- 3 Digital Inputs for 3 Circuit Breakers - 9 Digital Inputs
- 2 Relay Outputs for 3 Circuit Breakers – 6 Relay Outputs
- 24V DC Input Voltage
- Status Monitoring & Control of up to 3 Circuit Breakers through communication over MODBUS RTU protocol with RS 485 port.

Input Status Indicator	CB1	CBS1	ON/OFF Indication for Circuit Breaker 1
		TS1	Trip status Indication for Circuit Breaker 1
		RS1	Ready spring/Ready to Close Status Indication for Circuit Breaker 1
	CB2	CBS2	ON/OFF Indication for Circuit Breaker 2
		TS2	Trip status Indication for Circuit Breaker 2
		RS2	Ready spring/Ready to Close Status Indication for Circuit Breaker 2
	CB3	CBS3	ON/OFF Indication for Circuit Breaker 3
		TS3	Trip status Indication for Circuit Breaker 3
		RS3	Ready spring/Ready to Close Status Indication for Circuit Breaker 3
Output Status Indicator	CB1	O1	Open Circuit Breaker 1
		C1	Close Circuit Breaker 1
	CB2	O2	Open Circuit Breaker 2
		C2	Close Circuit Breaker 2
	CB3	O3	Open Circuit Breaker 3
		C3	Close Circuit Breaker 3



DigiCom Module Details	M.R.P. (₹) Per Unit
New DigiCom Module (CAT Code: CL918960000)	18600

Connection Architecture of DigiCom



C-POWER S1 Range of Air Circuit Breakers

- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Current rating from 400A to 3200A
- Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed & Draw-out versions
- High short time withstand capacity, Icu = Ics = Icw for 1 sec for total selectivity
- High mechanical and electrical operating life
- 100% rated neutral pole
- Common height and depth across the range
- Protection through Thermal - Magnetic (DN1) & Microprocessor releases (SR18G, SR18G+D & SR18Gi+D)
- Self diagnostic Microprocessor based Releases with on-load testing through TEST button
- Inbuilt thermal memory
- Protection Releases conform to EMI/EMC standards
- Breaker Status and Control through MODBUS protocol (UN-CO module)

C-POWER S1 ACB

C-POWER S1 Range of Air Circuit Breakers

C-POWER ACB

- Conforms to IS/IEC 60947-2 & IEC 60947-2
- Current rating from 800A to 6300A
- Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed & Draw-out versions
- High short time fault withstanding capacity, Icu = Ics = Icw for 1 sec for total selectivity
- High mechanical and electrical operating life
- 100% rated neutral pole
- Protection through Thermal - Magnetic (DN1) & Microprocessor releases (SR18G, SR18G+D, SR18Gi+D & SR71)
- Self diagnostic Microprocessor based Releases with on-load testing through TEST button
- Inbuilt thermal memory
- Protection Releases conform to EMI/EMC standards
- Data communication & Power Management
- Breaker Status and Control through MODBUS protocol (UN-CO module)

C-POWER HE ACBs for Harsh Environment

- Designed to operate at peak efficiency in Sulphur-rich environments
- Range 1250A to 5000A, 415/690V ac
- Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed and Draw-out versions
- Protection through Microprocessor release
- Operates reliably in 3C4 environmental conditions of SO_2 and H_2S

Please contact the nearest branch office for Details & product Selection

C-POWER HE Range

Breaking Capacities Offered:

Icu = Ics = Icw for 1 sec

	630A	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A	5000A	6300A
CN-CS : E / G	50kA	50kA	50kA	50kA	50kA	50kA					
	Frame-1										
CN-CS : S1	50kA	50kA	50kA	50kA	50kA	50kA	60kA	60kA			
	Frame-1						Frame-2				
CN-CS : C		50kA	50kA	50kA	50kA	55kA	60kA			95kA	95kA
CN-CS : H		65kA	65kA	65kA	65kA	75kA	75kA				
CN-CS : H2								75kA	75kA		
CN-CS : H / H1								100kA	100kA		
CN-CS : HE				50kA		60kA		75kA		95kA	
		Frame-1				Frame-2		Frame-3		Frame-4	

For technical & dimension details please refer product catalogue. 400A ACB also available on request.

C-POWER Air Circuit Breakers [8536]

C-POWER S1 3 & 4 Pole Draw-out ACBs

Rating	Breaking Capacity Icu=Ics=Icw (1 sec)	Version	Microprocessor Based SR18G				Thermal-Magnetic DN1			
			3 Pole		4 Pole		3 Pole		4 Pole	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
630A	50kA	MDO	SL96041	216500	SL96061	271600	SL95331	212000	SL95351	267100
		EDO	SL96051	268500	SL96071	323600	SL95341	264000	SL95361	319100
800A	50kA	MDO	SL96042	216500	SL96062	271600	SL95332	212000	SL95352	267100
		EDO	SL96052	268500	SL96072	323600	SL95342	264000	SL95362	319100
1000A	50kA	MDO	SL96043	225100	SL96063	284500	SL95333	220600	SL95353	280000
		EDO	SL96053	277100	SL96073	336500	SL95343	272600	SL95363	332000
1250A	50kA	MDO	SL96044	248400	SL96064	313300	SL95334	243900	SL95354	308800
		EDO	SL96054	300400	SL96074	365300	SL95344	295900	SL95364	360800
1600A	50kA	MDO	SL96045	283200	SL96065	348300	SL95335	278700	SL95355	343800
		EDO	SL96055	335200	SL96075	400300	SL95345	330700	SL95365	395800
2000A	50kA	MDO	SL96046	332600	SL96066	408600	SL95336	328100	SL95356	404100
		EDO	SL96056	384600	SL96076	460600	SL95346	380100	SL95366	456100
2500A	60kA	MDO	SL96047	411200	SL96067	495600	SL95337	406700	SL95357	491100
		EDO	SL96057	463200	SL96077	547600	SL95347	458700	SL95367	543100

Note : Add a Suffix "OOOO" for all the above mentioned cat. nos.

C-POWER S1 3 & 4 Pole Fixed ACBs

Rating	Breaking Capacity Icu=Ics=Icw (1 sec)	Version	Microprocessor Based SR18G				Thermal-Magnetic DN1			
			3 Pole		4 Pole		3 Pole		4 Pole	
			Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
630A	50kA	MF	SL95561	132800	SL95581	169300	SL95481	128300	SL95501	164800
		EF	SL95571	184800	SL95591	221300	SL95491	180300	SL95511	216800
800A	50kA	MF	SL95562	132800	SL95582	169300	SL95482	128300	SL95502	164800
		EF	SL95572	184800	SL95592	221300	SL95492	180300	SL95512	216800
1000A	50kA	MF	SL95563	145100	SL95583	183100	SL95483	140600	SL95503	178600
		EF	SL95573	197100	SL95593	235100	SL95493	192600	SL95513	230600
1250A	50kA	MF	SL95564	167100	SL95584	208800	SL95484	162600	SL95504	204300
		EF	SL95574	219100	SL95594	260800	SL95494	214600	SL95514	256300
1600A	50kA	MF	SL95565	185300	SL95585	238300	SL95485	180800	SL95505	233800
		EF	SL95575	237300	SL95595	290300	SL95495	232800	SL95515	285800

Note Add a Suffix "OOOO" for all the above mentioned cat. nos.

M.R.P. changes for product customization w.r.t. SR18G ACB M.R.P.		M.R.P. (₹) Per Unit
Bus - Coupler (w/o protection)	Reduce	**12000**
Microprocessor based SR18G+D (LSING + Current Metering)	Add	**15000**
Microprocessor based SR18Gi+D (LSING + Current metering + ZSI)	Add	**20000**

C-POWER S1 Draw-Out ACBs will have inbuilt - 2NO+2NC Aux contact for MDO & 6NO+6NC Aux contact for EDO breakers, Safety shutter assembly, Racking handle, Door sealing frame, Push-button cover & Rating error preventor.
Electrical version includes 240V AC Shunt trip coil, Closing coil and Motor for electrical charging.
C-POWER S1 Fixed ACBs will have inbuilt - 2NO+2NC Aux contact for MF & 6NO+6NC Aux contact for EF breakers, Door sealing frame & Push-button cover.
Electrical version includes 240V AC Shunt trip coil, Closing coil and Motor for electrical charging.
Note: 1 NO Aux contact in manual version & 2NO+2NC in electrical version breakers will be pre-wired with accessories mounted in breaker.
In electrically operated breaker with DN1 release, either earth fault or undervoltage protection can be used.

CN-CS...E Range 3 Pole Manual Fixed

Rating	Breaking Capacity Icu=Ics=Icw (1 sec)	Version	Thermal-Magnetic Release Type DN1	
			Cat. No.	M.R.P. (₹) Per Unit
400A	50kA	3P MF	SL957210OOO	87200
630A	50kA	3P MF	SL957220OOO	88000
800A	50kA	3P MF	SL957230OOO	93200
1000A	50kA	3P MF	SL957240OOO	95500
1250A	50kA	3P MF	SL957250OOO	125200
1600A	50kA	3P MF	SL957260OOO	131800
2000A	50kA	3P MF	SL932970OOO	151300

C-POWER 3 & 4 Pole Draw-out ACBs

Rating	Breaking Capacity Icu=Ics=Icw (1 sec)	Version	Type	Microprocessor Based SR18G				Thermal-Magnetic DN1			
				3 Pole		4 Pole		3 Pole		4 Pole	
				Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	65kA	MDO	H	SL95311	363300	#	470700	#	358800	#	466200
		EDO	H	SL95321	415300	#	522700	#	410800	#	518200
1000A	65kA	MDO	H	SL95312	369900	#	500300	#	365400	#	495800
		EDO	H	SL95322	421900	#	552300	#	417400	#	547800
1250A	65kA	MDO	H	SL95313	404500	#	536500	#	400000	#	532000
		EDO	H	SL95323	456500	#	588500	#	452000	#	584000
1600A	65kA	MDO	H	SL95314	455200	#	590600	#	450700	#	586100
		EDO	H	SL95324	507200	#	642600	#	502700	#	638100
2000A	75kA	MDO	H	SL95315	507900	#	609500	#	503400	#	605000
		EDO	H	SL95325	559900	#	661500	#	555400	#	657000
2500A	75kA	MDO	H	SL95316	521300	#	634600	#	516800	#	630100
		EDO	H	SL95326	573300	#	686600	#	568800	#	682100
3200A	75kA	MDO	H2	SL94822	536700	SL94826	658700	#	532200	#	654200
		EDO	H2	SL94824	588700	SL94828	710700	#	584200	#	706200
4000A	75kA	MDO	H2	SL94823	615600	SL94827	783800	#	611100	#	779300
		EDO	H2	SL94825	667600	SL94829	835800	#	663100	#	831300
5000A	95kA	MDO/EDO	C	#	*	#	*	#	*	#	*
6300A	95kA	MDO/EDO	C	#	*	#	*	#	*	#	*

Note: For higher breaking capacities & 690V AC application please contact the nearest branch office
Add a Suffix "OOOO" for all the above mentioned cat. nos.

C-POWER 3 & 4 Pole Manual Fixed ACBs

Rating	Breaking Capacity Icu=Ics=Icw (1 sec)	Version	Type	Microprocessor Based SR18G				Thermal-Magnetic DN1			
				3 Pole		4 Pole		3 Pole		4 Pole	
				Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
800A	50kA	MF	C	*				*			
1000A	50kA										
1250A	50kA										
1600A	50kA										
2000A	55kA			SL97635	254600	#	330300	SL93005	250100	#	325800
2500A	60kA			SL97636	280600	#	378200	SL93006	276100	#	373700

Note: For higher breaking capacities & 690V AC application please contact the nearest branch office
Add a Suffix "OOOO" for all the above mentioned cat. nos.

M.R.P. changes for product customization w.r.t. SR18G M.R.P.		M.R.P. (₹) Per Unit
Bus-Coupler (w/o protection)	Reduce	12000
Microprocessor based SR18G+D (LSING + Current Metering)	Add	15000
Microprocessor based SR18Gi+D (LSING + Current metering + ZSI)	Add	20000
Microprocessor based SR71 (LSING + Current metering + Advance protection + PS Module)	Add	
Communication Module (MODBUS) for SR71 release (SR71 - COM)$	SL946980000	*
Power Metering Module for SR71 release (SR71 - PM)$	SL946990000	

$ Chapter ID [8538]

C-POWER Draw-Out ACBs will have inbuilt - 6NO+6NC Aux contact, Safety shutter assembly, Racking handle, Door sealing frame, Push-button cover & Rating Error preventor. Option of horizontal & vertical termination upto 4000A also available. Operation counter for 4000A & above.
EDO version includes 240V AC Shunt trip coil, Closing coil and Motor for electrical charging.

C-POWER Fixed ACBs will have inbuilt - 6NO+6NC Aux contact, Door sealing frame & Push-button cover. Operation counter for 4000A & above.

Note: 1 NO Aux contact in manual version & 2NO+2NC in electrical version breakers will be pre-wired with accessories mounted in breaker.
In electrically operated breaker with DN1 release, either earth fault or undervoltage protection can be used.
Note: Electrical Fixed type breakers are available on request.

 # Available on *"Made to order"* basis. *** Available on request**

Accessories (Common for C-POWER Family)

LTPB

LIP

Shunt Release

UV Release

Description	Cat. No.	M.R.P. (₹) Per Unit
Lockable Trip Push Button (LTPB) [8301]		
Type AA	SL93148000A	5180
Type BB	SL93148000B	5180
Type CC	SL93148000C	5180
Type DD	SL93148000D	5180
Lockable Trip Push Button kit (3 I/C & 2 B/C)	SL919360000	25900
Locking of ACB in Isolated position (LIP) [8301]		
Type A	SL93146000A	5180
Type B	SL93146000B	5180
Type C	SL93146000C	5180
Type D	SL93146000D	5180
Locking of ACB in Any position (LAP) [8301]		
Type A	SL93147000A	5180
Type B	SL93147000B	5180
Type C	SL93147000C	5180
Type D	SL93147000D	5180
Racking Interlock [8301]		
Type AA	SL93149000A	7140
Type BB	SL93149000B	7140
Type CC	SL93149000C	7140
Type DD	SL93149000D	7140
Padlock [8301]		
Racking Padlock Assembly	CL900250000	2420
Other Accessories [8538]		
Door Interlock	SL931500000	3800
Mechanical Operation Counter*	XM808370000	3760
Mounting Kit for Front Mounted Counter	SL958820000	1330
Spring Charge Indication Microswitch	SL960000000	3010

Description	Cat. No.	M.R.P. (₹) Per Unit
Shunt Release (SR) [8538]		
Type EA : 24/48V DC	SL927180400	3900
Type EA : 110V DC	SL927180100	3900
Type EA : 220V DC	SL927180200	3900
Type EA1 : 110V AC	SL927180A00	3900
Type EA1 : 240V AC	SL927180B00	3900
Type EA1 : 415V AC	SL927180D00	3900
Under Voltage Release (UVR) [8538]		
Type MV : 24V DC	ST368770000	5840
Type MV : 240V AC	SL92720B000	5840
Type MV : 415V AC	SL92720D000	5840
Earth Fault Release (for DN1) [8538]		
Type EF1 (10%, 20% In)	SL913400000	5170
Type EF2 (30%, 40%, 50% In)	SL913410000	5170
Remote Fault Indication [8538]		
AN1 Remote Annunciation Module for SR18G/SR18G+D/SR18Gi+D : 240V AC	SL946540000	12500
Microswitches for Indication [8536]		
Microswitch for Voltmetric Releases (2) each	SL927030000	3210
Microswitch for Common Indication of O/L & S/C (3) each	SL927040000	3210
Microswitch for Separate Indication of O/L & S/C (3) each (for DN1 release)	SL927050000	5360
Service Position Microswitch - Right (2)	SL931420000	2170
Service Position Microswitch - Left (2)	SL931430000	2170
Test or Isolated Position Microswitch - Right (2)	SL931440000	2170
Test or Isolated Position Microswitch - Left (2)	SL931450000	2170

* For mounting the Operation counter, mounting kit "SL958820000" needs to be ordered separately. Operation Counter inbuilt for rating 4000A to 6300A.

Note:
a. The Numerical in brackets, against various accessories indicate the SICs required for wiring purpose in Draw-Out breakers
b. Shunt release requires one set of auxiliary contacts
c. Maximum 24 SICs can be fitted on an ACB. In Electrical ACBs 5 SICs are prewired for control circuit purpose

Vertical Terminal Adaptor

Description & Rating	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Vertical Terminal Adaptors for Draw out C-POWER ACB [8538]			
400-1250 S1/800-1000 C	SL932810000	6460	1
1600-2000 S1/1250-1600 C/800-1600 H	SL932820000	7840	1
2000 C	SL932840000	11600	1
2000 H/2500 C/H	SL932850000	12100	1
2500 S1	SL932890000	12100	1
3200 S1	SL932860000	14900	1
3200H2/H1, 4000H2/H	SL932880000	36100	1

Features

- Remote Status & Control of ACB
- Communicates on MODBUS Protocol
- Inbuilt RS485 Port

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
UN-CO module for Breaker control	CL908520000**	14600	1

****Available till stock last**

Protection Releases

SR71

SR18G

SR18G+D/SR18Gi+D

Description	Cat. No.	M.R.P. (₹) Per Unit
Protection Releases [8538]		
Microprocessor based type SR71	On Request	
Microprocessor based type SR18Gi+D	SL948130000	67700
Microprocessor based type SR18G+D	SL948120000	62700
Microprocessor based type SR18G	SL960300000	47700
Thermal-Magnetic Release type DN1	SL931520000	43200
Universal Test Kit	CL904620000	117000

Universal Test Kit

Compatible with following Lauritz Knudsen Protection Releases

› SR protection releases of C-Power ACB family
› UNRS protection releases of U-Power ACB family
› MTX and RC releases of D-Sine MCCB family

Upgrade to high end communicable Release SR71

Retrofit kit solutions are available
For further details please contact the nearest branch office

CT

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
CTs for SR18G / SR18G+D / SR18Gi+D [8504]			
400 S1 Fix & Draw-out	SL015230000	7640	1
630 S1 Fix & Draw-out	ST374950000	7640	1
800 C/H/S1 Fix & Draw-out	SL018570000	7640	1
1000 C/H/S1 Fix & Draw-out	SL018580000	7640	1
1250 C/H/S1 Fix & Draw-out	SL905710000	9240	1
1600 C/H/S1 Fix & Draw-out	SL905720000	9240	1
2000 C/H Fix & Draw-out	SL905650000	10200	1
2000 S1 Draw-out	SL932100000	10200	1
2500 C/H Fix & Draw-out	SL905660000	10200	1
2500 S1 Draw-out			
3200 H2/H1 Draw-out	SL017400000	11800	1
4000 H2/H Draw-out	SL017390000	14100	1

For External Neutral C.T.s please use the above Cat. No.

C-POWER HE Air Circuit Breaker

- Range 1250A to 5000A, 415/690V ac
- Available in 3 Pole/4 Pole, Manually & Electrically operated, Fixed & Draw-out versions
- Protection through Microprocessor release

FN BOLTED HE Switch-Disconnector-Fuse

- Range 32A to 630A, 415V ac, AC 23A
- TPN version suitable for Bolted Fuse Link
- Door Interlocking & Padlocking facility

Lauritz Knudsen Electrical & Automations HE range of Air Circuit Breakers (ACBs) and Switch-Disconnector-Fuse (S-D-F) are designed to ensure that they operate at peak efficiency for their entire lifespan in harsh, Sulphur-rich environments.

For more details please scan the QR code or click here

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

ClarityPRD/122015

S-Line

Busbar Trunking System

Lauritz Knudsen
Electrical & Automation

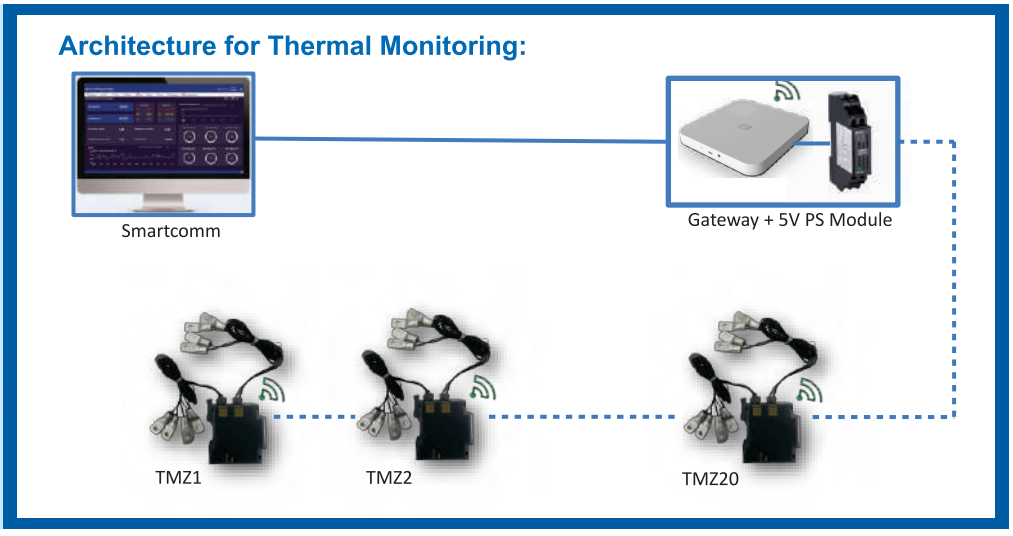
The S-Line Busbar Trunking System from Lauritz Knudsen Electrical & Automation provides reliable, safe and economic distribution solutions for commercial spaces.

Key Features:

- Minimum transmission loss when compared to cables
- Current Rating: 250A to 6300A
- Rated Insulation Voltage - 1000V
- Class-F Halogen free insulation with RoHS compliance
- Maintenance free block set joints
- Enclosure: GI or Aluminium
- Ingress protection: IP-54, IP-55, IP-66
- Plug-in boxes up to 630A, Tap-off boxes up to 1250A
- Excellent short circuit ratings up to 100kA

New

The S-Line Busbar Trunking System is now equipped with Smart solution of Temperature monitoring system

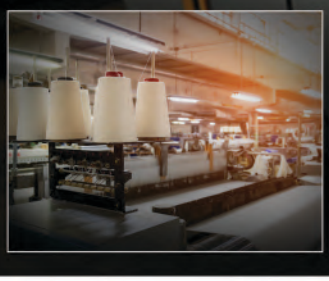


Key Features:

- Real-time Temperature Monitoring
- Remote Temperature Monitoring
- Integration with Smartcomm PMS
- Human and Equipment Safety

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

ENGINEERED
FOR ENDURANCE
BUILT TO WITHSTAND TOUGH CONDITIONS



LTXL Capacitor

- Designed to operate at Temperature upto 70°C
- 3 x In Over Current withstand capacity
- Highest 500 x In Inrush current withstand capacity.
- Special Stainless Steel Earthing pad corrosion proof.
- Glazed ceramic bushing provide better protection.
- Enhanced Durability

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

Power Factor Correction Capacitors [8532]

Parameters	Standard Duty		Heavy Duty		HD Plus Gas Filled	Super Heavy Duty	APP	LTXL Ultra Heavy Duty	
	Cylindrical	Box	Cylindrical	Box	Cylindrical	Cylindrical**	Box	Cylindrical**	Box
Over current withstand capability	1.5 x In	1.5 x In	1.8 x In	1.8 x In	1.8 x In	2.5 x In	2.5 x In	3 x In	3 x In
Operating losses	0.45 W/kVAr	0.45 W/kVAr	0.5 W/kVAr	0.5 W/kVAr	0.45 W/kVAr	0.45 W/kVAr	0.5 W/kVAr	0.45 W/kVAr	0.5 W/kVAr
Peak Inrush current withstand capability	200 x In	200 x In	250 x In	300 x In	300 x In	350 x In	300 x In	500 x In	500 x In
Number of switching operations per year	5000	5000	7500	8000	8000	15000	10000	18000	20000
Max. Temperature	55°C	55°C	55°C	55°C	55°C	65°C	55°C	65°C	70°C
Operating life	100000 hrs.	100000 hrs.	130000 hrs.	150000 hrs.	150000 hrs.	200000 hrs.	200000 hrs.	300000 hrs.	300000 hrs.

Standard Duty Capacitors

Features

- Finger proof Sigut terminal in Cyl capacitor
- 150% continuous current carrying capacity
- Self-Healing property
- Soft resin as coolant
- Inbuilt Over Pressure Disconnector (OPD)

Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical 1 to 6 kVAr - Series : LTCCF 7.5 to 33.1 kVAr - Series : LTCCD	1 to 25	440	**266**
	1.2 to 27.7	480	**266**
	1.3 to 33.1	525	**266**
Box 1 to 6 kVAr - Series : LTBCF 7.5 to 33.1 kVAr - Series : LTBCD	1 to 30	440	**304**
	11.1 to 27.7	480	**304**
	13.2 to 33.1	525	**304**

Heavy Duty Capacitors

Features

- 180% continuous current carrying capacity
- Self-Healing property
- Soft resin as coolant
- Inbuilt over pressure disconnector (OPD)
- Finger proof Sigut terminal in Cyl capacitor
- Low losses

Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series: LTCCH	1 to 4	440 V	**508**
	5 to 15		**467**
	20 to 30		**455**
	5.5 to 16.6	480 V	**467**
	22.1 & 27.7		**455**
	6.6 to 16.6	525 V	**467**
	20 to 33.1		**455**
Box Series: LTBCH	1 to 4	440 V	**565**
	5 to 15		**479**
	20 to 50		**469**
	5.5 to 15	480 V	**503**
	20 to 27.7		**493**
	6.6 to 15	525 V	**503**
	20 to 33.1		**493**

HD Plus Gas Filled Capacitor

Features

- High inrush current carrying capacity 300 x In
- Inert gas as coolent (Non-flammable)
- Self-Healing property
- Inbuilt Over Pressure Disconnector (OPD)
- Finger proof Sigut terminal in Cyl capacitor
- Long life

Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Cylindrical Series: LTCCN	3 to 5	440	**606**
	7.5 to 15		**495**
	20 & 25		**460**
	7.5 to 15	480	**495**
	20 to 30		**460**
	7.5 to 15	525	**495**
	20 to 33.1		**460**

**Super Heavy Duty Capacitors

Features

- High over current withstand capacity 2.5 x In
- High Inrush current withstand capacity 350 x In

Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
**Cylindrical Series: LTCCR	3 to 5	440 V	**613**
	7.5 to 15		**501**
	20 & 25		**474**
	1.2 to 5.5	480 V	**644**
	11.1 & 15		**548**
	20 to 27.7		**497**
	1.3 to 5	525 V	**656**
	6.6 to 15		**558**
	20 to 33.3		**507**

APP Capacitors

Features

- High over current withstand capacity 2.5 x In
- High Inrush current withstand capacity 300 x In
- Glazed ceramic bushing
- Tinned Copper studs

Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
Box Series: LTBCP	5 to 15	440 V	**808**
	20 to 50		**782**
	5.5 to 13.8	480 V	**808**
	16.6 to 55.3		**782**
	6.6 & 13.2	525 V	**808**
	16.6 to 66.2		**782**

LTXL - Ultra Heavy Duty Capacitors

Features

- High over current withstand capacity 3 x In
- High Inrush current withstand capacity 500 x In
- Glazed ceramic bushing (In box type capacitor)
- Lower thermal impedance
- Designed to operate at temperature up to 70°C

Type	kVAr Rating	Voltage (V)	M.R.P. (₹) per kVAr
**Cylindrical Series : LTCCU	5 to 15	440V	**1034**
	20 & 25		**1017**
	7.5 to 15	480V	**1034**
	20		**1017**
	7.5 to 15	525V	**1034**
	20		**1017**
Box Series: LTBCU	5 to 15	440V	**1169**
	20 to 50		**1146**
	7.5 to 15	480V	**1169**
	20 to 30		**1146**
	7.5 to 15	525V	**1169**
	20 to 33.1		**1146**

Ordering Information for Capacitors

C - Cylindrical, B - Box

Duty: D/F – Standard*
M - Standard duty Box with MCB & LED Indication
H - Heavy
N - Gas Filled
R - Super Heavy
P - APP
U - Ultra Heavy

kVAr Rating

Sample ratings
01 - 1 kVAr
07 - 7.5 kVAr
10 - 10 kVAr
12 - 12.5 kVAr

Voltages: B - 440V, C - 480V, M - 525V

** F - 1 to 6 kVAr. D - 7.5 kVAr & above

L	T		C		3				2

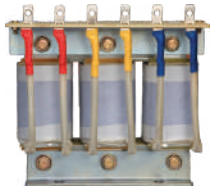
Catalogue Number

** SHD (LTCCR) & LTXL Cyl (LTCCU) are long lead items. Contact nearest branch for delivery schedule & technical specs before ordering.

Capacitor Series	kVAr ratings		
	440 V	**480 V**	**525 V**
LTCCF	1, 2, 3, 4, 5, 6	1.2, 2.2, 3.3, 4.4, 5.5	1.3, 2.6, 3.9, 5.3, 6.6
LTBCF	1, 2, 3, 4, 5, 6	-	-
LTCCD/LTBCD	7.5, 8.33, 10, 12.5, 15, 20, 25, 30*	11.1, 13.8, 16.6, 22.1, 27.7	13.2, 16.6, 20, 26.5, 30, 33.1
LTBCM	5, 7.5, 8.33, 10, 12.5, 15, 20, 25	-	-
LTCCH	1, 2, 3, 4, 5, 7.5, 10, 12.5, 15, 20, 25, 30	5.5, 11.1, 13.8, 16.6, 22.1, 27.7	6.6, 13.2, 16.6, 20, 26.5, 30, 33.1
LTBCH	1, 2, 3, 4, 5, 7.5, 8.33, 10, 12.5, 15, 20, 25, 30, 50	5.5, 11.1, 15, 20, 25, 27.7	6.6, 13.2, 15, 20, 25, 30, 33.1
LTCCN	3, 4, 5, 7.5, 8.33, 10, 12.5, 15, 20, 25	7.5, 12.5, 15, 20, 25, 30	7.5, 12.5, 15, 20, 25, 30, 33.1
LTCCR	3, 4, 5, 7.5, 8.33, 10, 12.5, 15, 20, 25	1.2, 2.2, 3.3, 4.4, 5.5, 11.1, 15, 20, 25, 27.7	1.3, 2.6, 3.9, 5, 6.6, 13.2, 15, 20, 25, 30, 33.3
LTBCP	5, 7.5, 10, 12.5, 15, 20, 25, 50	5.5, 11.1, 13.8, 16.6, 22.1, 27.7, 55.3	6.6, 13.2, 16.6, 20, 26.5, 30, 33.1, 66.2
LTCCU	5, 7.5, 8.33, 10, 12.5, 15, 20, 25	7.5, 10, 12.5, 15, 20	7.5, 10, 12.5, 15, 20
LTBCU	5, 7.5, 8.33, 10, 12.5, 15, 20, 25, 30, 50	7.5, 10, 12.5, 15, 20, 25, 30	7.5, 12.5, 15, 20, 25, 30, 33.1

* Only LTBCD is available at 30 kVAr

Detuned Reactors, 440 V, 50 Hz [8504]



Features

- Copper & Aluminium wound reactors
- H-class insulation
- Lower operating losses
- 180% linearity*
- Thermal cut off
- Better Harmonic Blocking Capability [Quality Factor > 35]

kVAr Rating	7% Copper Reactor		7% Aluminium Reactor		14% Copper Reactor		14% Aluminium Reactor	
	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
1	**LTFR0701B2**	**9185**	**LTAL0701B2**	**6665**	**LTFR1401B2**	**17855**	**LTAL1401B2**	**11000**
2	**LTFR0702B2**	**10030**	**LTAL0702B2**	**7270**	**LTFR1402B2**	**19465**	**LTAL1402B2**	**11980**
3	**LTFR0703B2**	**11370**	**LTAL0703B2**	**8235**	**LTFR1403B2**	**22075**	**LTAL1403B2**	**13575**
4	**LTFR0704B2**	**12085**	**LTAL0704B2**	**8755**	**LTFR1404B2**	**23470**	**LTAL1404B2**	**14440**
5	**LTFR0705B2**	**13075**	**LTAL0705B2**	**9465**	**LTFR1405B2**	**25375**	**LTAL1405B2**	**15620**
10	**LTFR0710B2**	**18535**	**LTAL0710B2**	**13435**	**LTFR1410B2**	**35970**	**LTAL1410B2**	**23500**
12.5	**LTFR0712B2**	**20340**	**LTAL0712B2**	**14740**	**LTFR1412B2**	**39460**	**LTAL1412B2**	**25685**
15	**LTFR0715B2**	**22995**	**LTAL0715B2**	**17685**	**LTFR1415B2**	**42220**	**LTAL1415B2**	**30690**
20	**LTFR0720B2**	**25930**	**LTAL0720B2**	**19500**	**LTFR1420B2**	**50285**	**LTAL1420B2**	**34885**
25	**LTFR0725B2**	**27435**	**LTAL0725B2**	**19875**	**LTFR1425B2**	**53215**	**LTAL1425B2**	**35820**
50	**LTFR0750B2**	**43525**	**LTAL0750B2**	**31535**	**LTFR1450B2**	**84440**	**LTAL1450B2**	**52035**
75	**LTFR0775B2**	**64695**	**LTAL0775B2**	**46895**	**LTFR1475B2**	**125515**	**LTAL1475B2**	**77365**
100	**LTFR0700B2**	**88945**	**LTAL0700B2**	**64440**	**LTFR1400B2**	**172435**	**LTAL1400B2**	**106325**

* Prices of 200% linearity reactors are available on request.

For industries with High Voltage Harmonics, special solutions are available on request. Contact your nearest sales office for the customised solutions.

Selection of capacitors for detuned harmonic filter application

Step Size & 440 V Reactor rating (kVAr)	With 7% detuned reactor			With 14% detuned reactor	
	Capacitor series	480 V Capacitor (kVAr)	525 V Capacitor (kVAr)	Capacitor series	525 V Capacitor (kVAr)
1	LTCCF, LTCCR	1.2	1.3	LTCCF, LTCCR	1.3
2	LTCCF, LTCCR	2.2	2.6	LTCCF, LTCCR	2.6
3	LTCCF, LTCCR	3.3	3.9	LTCCF, LTCCR	3.9
4	LTCCF	4.4	5.3	LTCCF	5.3
	LTCCR		5	LTCCR	5
5	LTCCF, LTCCH, LTCCR, LTBCH, LTBCP	5.5	6.6	LTCCF, LTCCH, LTCCR, LTBCH, LTBCP	6.6
	LTCCN, LTCCU, LTBCU	7.5	7.5	LTCCN, LTCCU, LTBCU	7.5
10	LTCCD, LTCCH, LTCCR, LTBCD, LTBCH, LTBCP	11.1	13.2	LTCCD, LTCCH, LTCCR, LTBCD, LTBCH, LTBCP	13.2
	LTCCN, LTCCU, LTBCU	12.5	12.5	LTCCN, LTCCU, LTBCU	12.5
12.5	LTCCN, LTCCR, LTCCU, LTBCH, LTBCU	15	15	LTCCN, LTCCR, LTCCU, LTBCH, LTBCU	15
	LTCCD, LTCCH, LTBCD, LTBCP	13.8	16.6	LTCCD, LTCCH, LTBCD, LTBCP	16.6
15	LTCCN, LTCCR, LTCCU, LTBCH, LTBCU	20	20	LTCCD, LTCCN, LTCCH, LTCCR, LTCCU,	20
	LTCCD, LTCCH, LTBCD, LTBCP	16.6		LTBCD, LTBCH, LTBCP, LTBCU	
20	LTCCN, LTCCR, LTBCH, LTBCU	25	25	LTCCN, LTCCR, LTBCH, LTBCU	25
	LTCCD, LTCCH, LTBCD, LTBCP	22.1	26.5	LTCCD, LTCCH, LTBCD, LTBCP	26.5
	LTCCU	7.5 + 15	2 x 12.5	LTCCU	2x12.5
25	LTCCD, LTCCH, LTCCR, LTBCD, LTBCH, LTBCP	27.7	33.1	LTCCD, LTCCN, LTCCH, LTCCR,	30
	LTBCU, LTCCN	30		LTBCD, LTBCH, LTBCP, LTBCU	
	LTCCU	12.5 + 15	15 + 20	LTCCU	(10+20)
50	LTCCD, LTCCH, LTCCR, LTBCD, LTBCH	2 x 27.7	2 x 33.1	LTCCD, LTCCN, LTCCH, LTCCR,	2 x 30
	LTBCU, LTCCN	2 x 30		LTBCD, LTBCH, LTBCP, LTBCU	
	LTCCU	2 x (12.5 + 15)	2 x (15 + 20)	LTCCU	3 x 20
	LTBCP	55.3	66.2		
75	LTCCD, LTCCH, LTCCR, LTBCD, LTBCH	3 x 27.7	3 x 33.1	LTCCD, LTCCN, LTCCH, LTCCR,	3 x 30
	LTBCU, LTCCN	3 x 30		LTBCD, LTBCH, LTBCP, LTBCU	
	LTCCU	3 x (12.5 + 15)	3 x (15 + 20)	LTCCU	(4 x 20) + 10
	LTBCP	27.7 + 55.3	33.1 + 66.2		
100	LTCCD, LTCCH, LTCCR, LTBCD, LTBCH, LTBCP	4 x 27.7	4 x 33.1	LTCCD, LTCCN, LTCCH, LTCCR,	4 x 30
	LTBCU, LTCCN	4 x 30		LTBCD, LTBCH, LTBCP, LTBCU	
	LTCCU	4 x (12.5 + 15)	4 x (15 + 20)	LTCCU	6 x 20
	LTBCP	2 x 55.3	2 x 66.2		

Capacitor Duty Contactors - Type MO C [8536]

Features

- Conforms to IS / IEC 60947-4-1 & IEC 60947-4-1
- Delatching type early make contacts
- Separate termination for damping resistors
- Encapsulated damping resistor assembly
- Common coil for 50 & 60Hz application
- Low pick-up VA consumption
- **RoHS** compliant

Size	kVAr Rating @ 440V, 3Ph, 50Hz	Type	Built-in Auxiliary Contacts	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Fr 1	3	MO C3	1NO	**CS96146**	**2240**	1
	5	MO C5	1NO	**CS96127**	**2340**	1
	8.5	MO C8.5	1NO	**CS96320**	**2660**	1
	10	MO C10	1NO	**CS96156**	**2840**	1
	12.5	MO C12.5	1NO	**CS96321**	**3030**	1
	15	MO C15	1NO	**CS90019**	**3940**	1
	20	MO C20	1NO	**CS90021**	**4580**	1
	25	MO C25▲	1NO	**CS96322**	**5180**	1
	30	MO C30$	1NO	**CS96148**	**7990**	1
Fr 2	40	MO C40	1NO	**CS96147**	**13420**	1
	50	MO C50	1NO	**CS96324**	**14340**	1
	60	MO C60$	1NO	**CS96149**	**16190**	1
Fr 3	75	MO C75	1NO	**CS96150**	**19050**	1
	85	MO C85	1NO	**CS96157**	**19200**	1
	100	MO C100$	1NO	**CS96158**	**19800**	1

Thyristor Switching Module, 440V 50Hz [8538]

Features

- High Peak Inverse Voltage (PIV) - 2.2 kV
- Lower operating losses
- Auto thermal cut off
- No moving parts
- LEDs for various status/fault indications

kVAr Rating	Cat. No.	M.R.P. (₹) Per Unit
10	**LTTSM10B2**	**25440**
25	**LTTSM25B2**	**36290**
50	**LTTSM50B2**	**41565**

Note: Above prices include Quick Discharge Resistors (QDR)

* Available till stock last

Note:

1) For ordering add-on aux. contact block, please refer page No. 8
2) For ordering suffix, please refer page No.10
3) For ordering spare coils, please refer page No. 11
4) Standard coil voltage : 240V, 50/60 Hz
5) For ordering MO C surge suppressor, please refer page No. 9

▲ If using 16 sq mm cable use of spreader link kit is mandatory
▲ For ordering spreader link kit, Please refer page No.9
$ Spreader link along with phase barrier included in packing

Thyristor Switching Module, 440V 50Hz [8538] New

Features

- High Peak Inverse Voltage (PIV) - 2.2 kV
- Inbuilt control supply voltage
- Auto thermal cut off
- LEDs for various status/fault indications
- Ambient Temperature -10° C to 55° C
- No moving parts
- On-site self test logic
- Low operating losses
- 2 Nos Aux Contact outputs for Fault and status

kVAr Rating	Cat. No.	M.R.P. (₹) Per Unit
10	**CS920490000**	**25440**
25	**CS920500000**	**36290**
50	**CS920510000**	**41565**

Note: Above prices include Quick Discharge Resistors (QDR)

APFC Controller [8538]

etaULTRA - APFC Controller - 3 CT inputs

Features

- 3 Phase Current and Voltage measurement
- PF display - 3 Digit after decimal
- Individual harmonics measurement up to 31st order
- Dual PF setting for Mains - DG application
- Communication through Inbuilt MODBUS RS-485 Protocol
- Suitable for LT as well as HT side sensing

Cascading (Master - Slave configuration) for APFC panel with more than 16 steps

4 Quadrant Operation suitable for Solar Powered installations

Model Name	No. of steps (For Contactor switching)	No. of steps (For Thyristor switching)	Voltage Input	Cat No.	Size	M.R.P. (₹) Per Unit
etaULTRA 8R	8	0	110 / 415	**CS910500000**	144 x 144	**19900**
etaULTRA 16R	16	0		**CS910510000**		**27900**
etaULTRA 14T+2R	2	14		**CS910530000**		**27900**
etaULTRA 8T+8R	8	8		**CS910540000**		**22500**

Last Two Contacts can be programmed for Capacitor Switching / Alarm Function / Fan Control

APFC Controller [8538]

etaSMART - APFC Controller - 1 CT input

Features

- Simple and Smart Controller
- Auto programming function available
- CT secondary - 1 / 5 Amp site selectable

4 Quadrant Operation suitable for Solar Powered installations

etaSMART T - APFC Controller for Thyristor Switching with 1 CT input

No. of O/P steps (for Thyristor switching)	Size	Cat. No.	Single CT input	Voltage Input	M.R.P. (₹) Per Unit
6	96 x 96	**CS916130000**	1/ 5 Amp	415 V	**14500**
8	144 x 144	**CS916140000**			**16800**
12	144 x 144	**CS916150000**			**21000**
15	144 x 144	**CS916160000**			**24500**

One separate relay contact is available for Alarm

etaSMART R - APFC controller for Contactor switching with 1 CT input

No. of steps (For Contactor Switching)	Size	Cat. No.	Single CT input	Voltage Input	M.R.P. (₹) Per Unit
4	96 x 96	**CS908840000**	1/ 5 Amp	415 V	**7950**
6	96 x 96	**CS908850000**			**10300**
8	96 x 96	**CS909020000**			**12200**
12	144 x 144	**CS909030000**			**18900**
14	144 x 144	**CS909040000**			**21900**
16	144 x 144	**CS909050000**			**23900**

Last Two Contacts can be Programmed for Capacitor Switching / Alarm Function / Fan Control

Power Factor Perfected, Harmonics Mitigated

Lauritz Knudsen
Electrical & Automation

ASVG

Experience the next generation of power quality solutions. Our Advanced Static VAR Generator (ASVG) dynamically corrects power factor for varying loads and mitigates harmonic distortion, resulting in improved system performance and a longer equipment lifespan. ASVG compatibility with Hybrid controller enables true hybrid solutions, offering greater control and flexibility.

- Ultra-High Speed compensation using IGBT
- Dynamic Stepless Power Factor Correction
- Harmonic Mitigation

Advanced Static VAR Generator (ASVG) [8504] New

ASVG Features

- Dynamic Stepless PF Correction
- Lightning-Fast Response time of 50 microsec
- Bidirectional functionality (Leading & Lagging)
- Harmonic Mitigation up to 15th Order
- Load balancing
- Dual power factor correction (DG & EB)
- Innovative 3-Level NPC Inverter technology
- Engineered to Withstand High VTHD
- Equipped with Advanced Protection System
- Well-suited for LT or HT side current sensing
- Modular & scalable design
- Integrated MODBUS Communication
- Wall Mount/Rack mount Installation

Hybrid controller

- Intuitive Touchscreen display
- Easy installation & programming
- 18 Ports to connect Capacitor banks (Thyristor & Cap. duty Contactor Switching)
- Alarm and Event Management
- Bar Chart Visualization

Device Rating (KVAR)	3P4W ASVG (415 V,-25%+10%)		3P3W ASVG (415 V,-25%+15%)	
	Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit
30	ASVG0030H4WD2	On Request	ASVG0030H3WD2	On Request
50	ASVG0050H4WD2		ASVG0050H3WD2	
100	ASVG0100H4WD2		ASVG0100H3WD2	
30	ASVG0030N4WD2		ASVG0030N3WD2	
50	ASVG0050N4RD2		ASVG0050N3RD2	
100	ASVG0100N4RD2		ASVG0100N3RD2	
Hybrid Controller / HMI				
18 Stage Relay O/P	ASVGHC18R00T	On Request		
18 Stage Thyristor O/P	ASVGHC00R18T			
9 Stage Relay 9 Stage Thyristor O/P	ASVGHC09R09T			
7 Inch HMI	ASVGHMI007			

Active Harmonic Filter (AHF) [8543]

AHF Features

- Reduces THD within IEEE-519 limits.
- Harmonic Cancellation up to 50th Order
- Improve both distortion factor & Displacement Power Factor.
- Load balancing.
- 3P4W AHF to be used where triplen harmonic mitigation required.
- Scalable architecture for future expansion
- Ease of monitoring using Touch Screen HMI
- Integrated MODBUS Communication

Contact your nearest sales office for customized solution.

Filter Rating (A)	3 Phase 3 wire AHF Without Neutral Compensation		3 Phase 4 wire AHF With Neutral Compensation	
	Cat. No.*	M.R.P. (₹) Per Unit	Cat. No.*	M.R.P. (₹) Per Unit
30	**AHF030431D2**	**On Request**	**AHF030441D2**	**On Request**
60	**AHF060431D2**		**AHF060441D2**	
75	**AHF075431D2**		**AHF075441D2**	
100	**AHF100431D2**		**AHF100441D2**	
125	**AHF125433D2**		**AHF125443D2**	
150	**AHF150431D2**		**AHF150441D2**	
200	**AHF200431D2**		**AHF200441D2**	
250	**AHF250433D2**		**AHF250443D2**	
300	**AHF300431D2**		**AHF300441D2**	
400	**AHF400431D2**		**AHF400443D2**	
500	**AHF500433D2**		-	
600	**AHF600431D2**		-	
750	**AHF750433D2**		-	
1000	**AHF000433D2**		-	

*Standard CAT No. Configuration Cable Entry – Top/Cable Alley

Customisable options available
IP Class – IP 40/IP 42/IP 54
Conformal Coating - (3C3)

Type Tested APFC Panels - Safe, Reliable and Smart solution to maintain Power Factor

Type tested and certified design

- Engineered to the highest standards - Type tested as per IEC 61439-1&2, IEC61921 & IS13947
- Ingress Protection up to IP42 as per IEC 60529, IS2147 to protect equipment under harsh environments

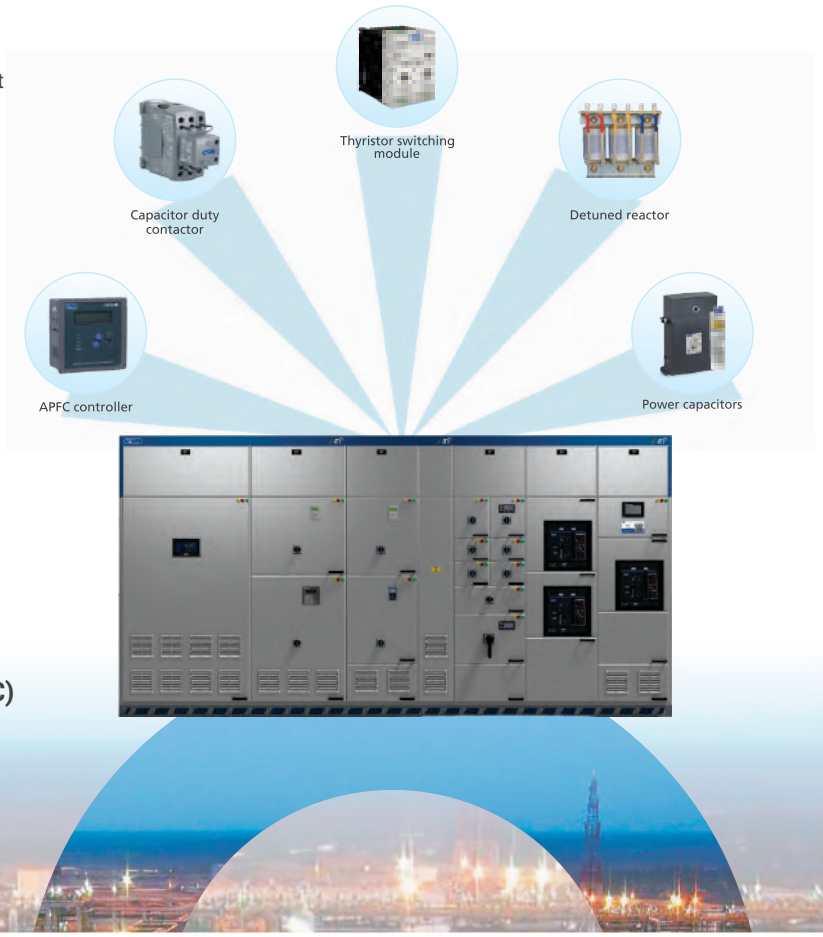
Reliable

- Worry free PF management with 4 quadrant PF controller
- Certified for better thermal management as per IEC 61921
- Design verified assemblies of both constructional & permanence requirements
- Separate section for detuned reactors, capacitors & switchgear ensures longer life of components & less worry on maintenance

Safety

- Form 3B separation (compartmentalized design for switchgear)
- Bus bars with more clearance than prescribed in standards
- A minimum of IP2X degree of protection even when the doors / covers in open condition
- Earthing of each and every door and structural members
- Zero stray voltage on doors & covers ensures both operator & equipment safety

Hybrid Harmonic Filters (ASVG + APFC) & (AHF + APFC) can also be offered. Contact our nearest sales office for such customized solution



Suggested Step Ratings for APFC Panels

Panel Rating (kVAr)	Physical Step Size (kVAr)	No. of Physical Steps	Electrical Steps (All Possible Combination of Physical Steps)	No. of Electrical Steps
10	4 + 3 + 2 + 1	4	1,2,3,4...8,9,10	10
15	5 + 4 + 3 + 2 + 1	5	1,2,3,4...13,14,15	15
20	10 + 5 + 2x2 + 1	5	1,2,3,4...18,19,20	20
25	15 + 5 + 2x2 + 1	5	1,2,3,4...23,24,25	20
30	15 + 10 + 2x2 + 1	5	1,2,3,4...28,29,30	22
35	20 + 10 + 2x2 + 1	5	1,2,3,4...33,34,35	23
40	20 + 10 + 5 + 3 + 2	5	2,3,5,7...35,37,38,40	24
45	25 + 10 + 5 + 3 + 2	5	2,3,5,7...40,42,43,45	24
50	25 + 15 + 5 + 3 + 2	5	2,3,5,10...45,47,48,50	24
55	25 + 15 + 10 + 3 + 2	5	2,3,5,10....50,52,53,55	25
60	25 + 15 + 10 + 5 + 3 + 2	6	2,3,5,7....55,57,58,60	36
65	25 + 2x15 + 5 + 3 + 2	6	2,3,5,7....60,62,63,65	35
70	25 + 20 + 15 + 5 + 3 + 2	6	2,3,5,7....65,67,68,70	36
75	2x25 + 15 + 5 + 3 + 2	6	2,3,5,7....70,72,73,75	39
80	2x25 + 15 + 10 + 3 + 2	6	2,3,5,10....75,77,78,80	36
85	50 + 20 + 5 + 4 + 2x3	6	2,3,5,6....80,81,82,85	44
90	50 + 25 + 5 + 4 + 2x3	6	3,4,5,6....85,86,87,90	47
95	50 + 25 + 10 + 4 + 2x3	6	3,4,6,7....89,91,92,95	43
100	50 + 25 + 15 + 4 + 2x3	6	3,4,6,7....94,96,97,100	44
105	50 + 25 + 15 + 5 + 4 + 2x3	7	3,4,5,6....100,101,102,105	85
110	50 + 25 + 15 + 10 + 4 + 2x3	7	3,4,5,6....104,106,107,110	65
115	50 + 25 + 2x15 + 4 + 2x3	7	3,4,6,7....109,111,112,115	65

Panel Rating (kVAr)	Physical Step Size (kVAr)	No. of Physical Steps	Electrical Steps (All Possible Combination of Physical Steps)	No. of Electrical Steps
120	50 + 25 + 20 + 15 + 4 + 2x3	7	3,4,6,7....114,116,117,120	85
125	50 + 2x25 + 15 + 4 + 2x3	7	3,4,6,7....119,121,122,125	55
130	50 + 2x25 + 20 + 4 + 2x3	7	3,4,6,7....124,126,127,130	60
135	2x50 + 15 + 10 + 4 + 2x3	7	3,4,6,7....129,131,132,135	65
140	2x50 + 20 + 10 + 4 + 2x3	7	3,4,6,7....134,136,137,140	62
145	2x50 + 25 + 10 + 4 + 2x3	7	3,4,6,7....139,141,142,145	65
150	2x50 + 25 + 15 + 4 + 2x3	7	3,4,6,7....144,146,147,150	66
155	2x50 + 25 + 15 + 3x5	7	5,10,15,20....145,150,155	31
175	2x50 + 2x25 + 10 + 3x5	8	5,10,15,20....165,170,175	35
200	2x50 + 3x25 + 15 + 2x5	8	5,10,15,20...190,195,200	40
225	3x50 + 2x25 + 15 + 10	7	10,15,25,35...210,215,225	27
250	3x50 + 3x25 + 15 + 10	8	10,15,25,35...235,240,250	30
275	4x50 + 2x25 + 15 + 10	8	10,15,25,35...260,265,275	33
300	100 + 2x50 + 3x25 + 15 + 10	8	10,15,25,35...285,290,300	36
325	100 + 3x50 + 2x25 + 15 + 10	8	10,15,25,35...310,315,325	39
350	100 + 4x50 + 25 + 15 + 10	8	10,15,25,35...335,340,350	42
375	2x100 + 2x50 +2x25 + 15 + 10	8	10,15,25,35...360,365,375	45
400	2x100 + 2x50 + 4x25	8	25,50,75,100...350,375,400	16
425	2x100 + 3x50 + 3x25	8	25,50,75,100...375,400,425	17
450	2x100 + 3x50 + 4x25	9	25,50,75,100...400,425,450	18
475	2x100 + 4x50 + 3x25	9	25,50,75,100...425,450,475	19
500	2x100 + 5x50 + 2x25	9	25,50,75,100...450,475,500	20

Note: Above mentioned steps are typical recommendations, suitable for most of the industries. For accurate compensation, step size selection may have to be decided after studying load profile of that industry.

Lauritz Knudsen
Electrical & Automation

Next Gen Power Quality Monitoring:
Elevate Efficiency with our Power Quality Meters

WC7000
Power Quality Monitors

WC8000
Power Quality Analyzers

Take control of your operation with our Power Quality Meters!

Accurately measure power quality parameters to extend asset lifespan and take proactive steps to prevent issues.
Empower your maintenance strategy with WC7000 & WC8000 Power Quality Meters !

- **High Sampling Rate:** 1024 or 512 Samples/Cycle - Enhances power quality analysis precision
- **Tracking Power Quality Events –** Sag, Swell, Flicker, Transient, Interruption, Harmonics upto 127th Order(Odd, Even & inter Harmonics)
- **Dual Communication Port –** RS485 & Ethernet Port Enables seamless integration across systems simultaneously
- **IOT Enabled:** Seamless IoT Cloud integration for remote asset monitoring convenience
- **Power Quality Reports:** Produces IEEE519, EN 50160, IEC61000-4-30 & ITIC-CBEMA Curve reports

"Reach out to the nearest branch office for further information"

Customer Interaction Center (CIC)
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3 Phase Over Current + Earth Fault Relay

C.T#. Rating 1A or 5A, Field Selectable

- IDMT & Definite time characteristics
- Last 30 trip data recording with date and time
- Password Protection

Model	Aux. Supply (V)	Output Contacts	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MC31AnX*	24 - 240V AC/ DC	2 NO + 2 NC	51, 51N	**MC31ANX2200**	**21000**
		4 NO		**MC31ANX4000**	

3 Phase Over Current + Earth Fault Relay with High Set

C.T#. Rating 1A or 5A, Field Selectable

- IDMT & Definite time characteristics
- Last 30 trip data recording with date and time
- Password Protection

Model	Aux. Supply (V)	Output Contacts	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MC61AnX*	24 - 240V AC/ DC	2 NO + 2 NC	51, 51N, 50, 50N	**MC61ANX2200**	**23000**
		4 NO		**MC61ANX4000**	

3 Phase Over Current + Earth Fault Relay with High Set & RS - 485 Port

C.T#. Rating 1A or 5A, Field Selectable

- IDMT & Definite time characteristics
- Last 30 trip data recording with date and time
- Password Protection

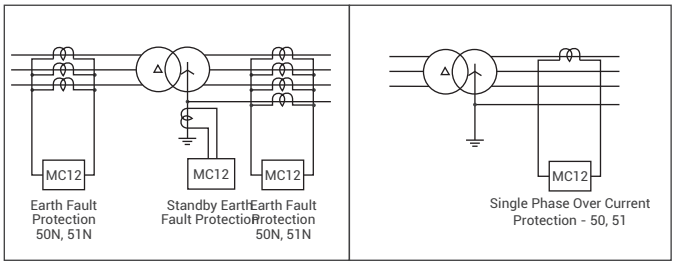
Model	Aux. Supply (V)	Output Contacts	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MC61CnX*	24 - 240V AC/ DC	4 NO	51, 51N, 50, 50N	**MC61CNX4000**	**25500**

Single Pole Over Current or Earth Fault Relay

C.T#. Rating 1A or 5A, Not Field Selectable

- DMT and Definite time characteristics

Model	Aux. Supply (V)	C.T. Secondary (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MC12*	20 - 110V AC/DC	1A	50, 51 or 50N, 51N	**MC12AA10X00**	**14800**
		5A		**MC12AA50X00**	
	88 - 264V AC/DC	1A		**MC12AB10X00**	
		5A		**MC12AB50X00**	



Reverse Power Relay

C.T$. Rating 1A or 5A, Not Field Selectable

- System Voltage is site selectable - 110V / 415V AC

Model	Aux Supply (V)	C.T. Secondary (A)	Device Code	Cat. No.	M.R.P. (₹) Per Unit
MRP11*	20 - 110V AC/DC	1A	32	**MRP11A10X00**	**24500**
		5A		**MRP11A50X00**	
	88 - 264V AC/DC	1A		**MRP11B10X00**	
		5A		**MRP11B50X00**	

Trip Circuit Supervision Relay

- Static Relay.
- Monitors Trip Coil in Breaker ON & OFF condition
- Site selectable Trip Coil Voltage

Model	Aux. Supply (V)	Cat. No.	M.R.P. (₹) Per Unit
TCS01nX*	20 - 110 V AC/ DC	**TCS01NXA000**	**8500**
	88 - 264 V AC/ DC	**TCS01NXB000**	

* Available till stock lasts
# Protection Class CT
$ Metering Class CT

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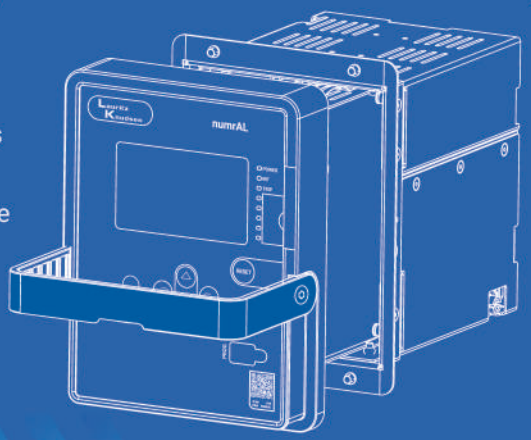
numrAL

Draw-out Numerical Protection Relays with Intelligent Algorithm



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Generator Protection

Single Function Relays

Restricted Earth Fault
Neutral Displacement
Current and Voltage Relays
PT Fuse Failure

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MV12
Single Phase Under Voltage or Over Voltage Relay

› System Voltage is site selectable - 110 / 240 / 415V AC

Model	Aux. Supply (V)	Device code	Cat. No.	M.R.P. (₹) Per Unit
MV12*	20 - 110V AC/DC	27 or 59	**MV12AA00X00**	**14800**
	88 - 264V AC/DC		**MV12AB00X00**	

* Available till stock last

Lockout Relay - LocR

Features

› Lockout Relays [Master Trip Relay] - LocR
› Designed to operate the circuit breaker trip coils at high speed
› Available with Hand reset contact (HRC) and hand reset Flag (HRF)

Description	Output contacts	Reset Contacts	Reset Flag	Coil Voltage	Cat. No.	M.R.P. (₹) Per Unit
Single element Lockout relay	3NO + 2NC	Hand	Hand	**24VDC**	**L1H32DC024X**	**6000**
				110VDC	**L1H32DC110X**	
				220VDC	**L1H32DC220X**	
				230VAC	**L1H32AC230X**	

ANSI Code - 86

Auxiliary Relay - AuxR

Features

› AuxR relay provides additional contacts for interlocking, control and signal applications
› Available with hand reset or self-reset contacts and hand reset Flag

Description	Output Contacts	Reset Contacts	Reset Flag	Coil Voltage	Cat. No.	M.R.P. (₹) Per Unit
Three element Auxiliary relay	4 N/O	Hand	Hand	**24VDC**	**A3H40DC024X**	**12000**
				110VDC	**A3H40DC110X**	
				220VDC	**A3H40DC220X**	
				230VAC	**A3H40AC230X**	
Three element Auxiliary relay	2 N/O + 2 N/C	Auto	Hand	**24VDC**	**A3A22DC024X**	
				110VDC	**A3A22DC110X**	
				220VDC	**A3A22DC220X**	
				230VAC	**A3A22AC230X**	

numrAL - Numerical Protection Relay with Intelligent Algorithm

Single Function Relays

› NDR11 - Neutral Displacement Relay
› OCR11 - Over Current or Earth Fault Relay
› REF11 - Restricted Earth Fault Relay
› VPR11 - Under Voltage and Over Voltage Relay

Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL NDR11	85 - 265V AC, 87 - 265V DC	Non-Communicable*	**NRNDR1B11NX**	**16000**
numrAL OCR11			**NROCR1B10NX**	
numrAL REF11			**NRREF1B10NX**	
numrAL VPR11			**NRVPR1B11NX**	

* Please contact nearest branch office for communicable variant.

3 - Phase non-directional Over Current + Earth Fault Relay

› FDR21 – 50, 51, 50N, 51N.
› FDR22 – 46BC, 49, 50, 51, 50N, 51N, 50BF, 74TCS, SOTF

Model	Aux. Supply (V)	Communication	Cat. No.	M.R.P. (₹) Per Unit
numrAL FDR21	85 - 265V AC, 87 - 265V DC	Non-Communicable	**NRFDR2B26NX**	**25300**
numrAL FDR22		Modbus RS - 485	**NRFDR2B27RA**	**32000**

Metering Devices [9028]

Single Phase kWh meter with LCD display

Model EM101+ Class 1 Base mounting

Description	Cat. No.	M.R.P. (₹) Per Unit
1P LCD Meter 5-30A	**WM101BC5DL0**	**1950**
1P LCD Meter 5-30A with BOX	**WM101BC5DL0BOX**	**2600**
1P LCD Meter 5-30A with OPTICAL PORT	**WM101BC5DDH**	**2680**
1P LCD Meter 5-30A with Optical port + BOX	**WM101BC5DDHBOX**	**3330**
1P LCD Meter 10-60A	**WM101BC7DL0**	**2300**
1P LCD Meter 10-60A with BOX	**WM101BC7DL0BOX**	**2900**
1P LCD Meter 10-60A with Optical Port	**WM101BC7DDH**	**2940**
1P LCD Meter 10-60A with Optical Port + BOX	**WM101BC7DDHBOX**	**3380**
1P LCD Meter 5-30 with Optical Port + RS232	**WM101BC5DLMSC**	**3000**

Trivector Meter Class 1 whole current meter

Model ER300P Class 1 (Base Mounting)

Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph, 4W TVM 240 V 10 - 60A BM	**WR300BC7300**	**9180**
3Ph, 4W TVM 240 V 10 - 60A BM RS 485 Modbus*	**WR300BC73RS485**	**13100**
3Ph, 4W TVM 240 V 10 - 60A BM with Hinge type Box	**WR300BC73BOXH**	**11370**

***- Available on request only & minimum order quantity is 100 Nos**

Trivector Meter Class 0.2s

Model ER300P Class 0.2s (Base Mounting)

- Inform CT/PT ratio while ordering
- Meters with DLMS Protocol (IS 15959)

Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph, 4W TVM 110V (L-L) 1 A Class 0.2s BM RS485 Modbus	**WR300BB11RS**	**79170**
3Ph, 4W TVM 110V (L-L) 5 A Class 0.2s BM RS485 Modbus	**WR300BB51RS**	**79170**

Meter Reading Instrument [8471]

Description	Cat. No.	M.R.P. (₹) Per Unit
Meter Reading Instrument - (16.5 MB)	**990MRIXX000**	**156710**
Meter Optical port to USB cable	**990PCXXUSB**	**1870**

3 Phase 4 Wire kWh meter LCD type

Model ER300P Base Mounting

Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph 4 W kWh CT op base mtg 240V, /5A, Acc 0.5s	**WR301BC3C00**	**6220**
3Ph 4 W kWh Dir base mtg 240V 5 - 30 A Acc 1	**WR301BC4D20**	**5210**
3Ph 4 W kWh Dir base mtg 240V 10 - 40 A Acc 1	**WR301BC6D20**	**5360**
3Ph 4 W kWh Dir base mtg 240V 10 - 60 A Acc 1	**WR301BC7D10**	**6790**
3Ph 4 W kWh Dir base mtg 240V 20 - 100 A Acc 1	**WR301BC8D10**	**9840**

Trivector Meter Class 0.5s

Model ER300P Class 0.5s (Base Mounting)

- Inform CT/PT ratio while ordering
- Meters with DLMS Protocol (IS 15959)

Description	Cat. No.	M.R.P. (₹) Per Unit
3Ph, 4W TVM 110V (L-L) 1 A Class 0.5s BM RS 485 Modbus	**WR300BB12RS**	**36700**
3Ph, 4W TVM 110V (L-L) 5 A Class 0.5s BM RS 485 Modbus#	**WR300BB52RS**	**36700**
3Ph, 4W TVM 240V (L-N) 5 A Cl 0.5s BM RS 485 Modbus	**WR300BC52RS**	**32910**

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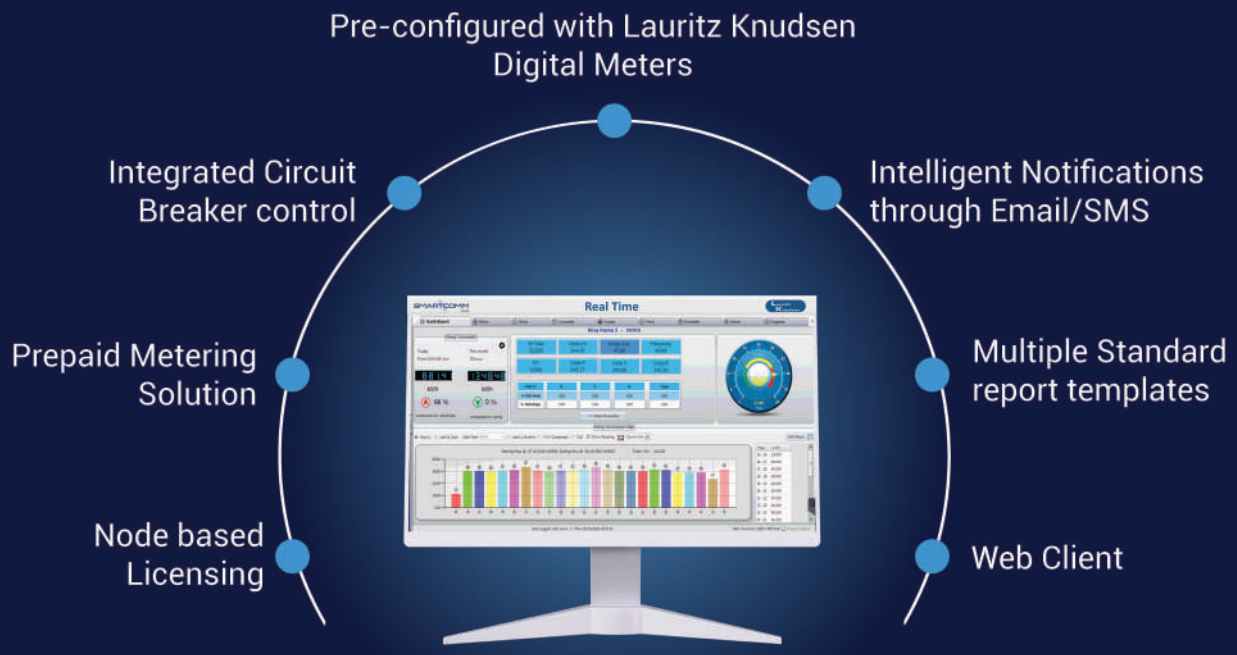

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Single Function Meters [9030]

1xxx Series

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 V AC / DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- Inbuilt selector switch for 3 phase meters
- CT/PT site programmable
- Frequency parameter available in 3Ph Voltmeter additionally

Description	Cat. No.	M.R.P. (₹) Per Unit
1Ph LED Ammeter Cl 1	**WL1110100000**	**935**
1Ph LED Voltmeter Cl 1	**WL1120100000**	**935**
3Ph LED Ammeter Cl 1	**WL1310100000**	**1425**
3Ph LED Voltmeter Cl 1	**WL1320100000**	**1425**
LED Freq meter Cl 0.2	**WL1130400000**	**935**
1Ph LED Ammeter Cl 0.5	**WL1110200000**	**1255**
1Ph LED Voltmeter Cl 0.5	**WL1120200000**	**1255**
3Ph LED Ammeter Cl 0.5	**WL1310200000**	**1690**
3Ph LED Voltmeter Cl 0.5	**WL1320200000**	**1690**

Energy Meters [9030]

4000 Series

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- CT/PT site programmable
- Auto scaling of Kilo, Mega and Giga
- Parameters: Site selectable kWh / kVA / PF / W, Old energy

kWh or kVAh is site selectable

Energy display in kWh in its lifetime#

Description	Cat. No.	M.R.P. (₹) Per Unit
kWh LED meter Cl 1	**WL4000100000**	**3005**
kWh LED meter Cl 1 with RS485	**WL4000110000**	**3325**
kWh LED meter Cl 0.5	**WL4000200000**	**3820**
kWh LED meter Cl 0.5 with RS485	**WL4000210000**	**4140**
kWh LCD meter Cl 1	**WC4000100000**	**3405**
kWh LCD meter Cl 1 with RS485	**WC4000110000**	**3755**
kWh LCD meter Cl 0.5	**WC4000200000**	**4215**
kWh LCD meter Cl 0.5 with RS485	**WC4000210000**	**4535**

For 415V LL and CT Primary value of 400 and below

VAF + PF Meters [9030]

4110 Series

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- Parameters:VLL, VLN, A, F, PF, On Hrs, RPM, Apeak

Description	Cat. No.	M.R.P. (₹) Per Unit
VAF + PF meter, Cl 1	**WL411010OOOO**	**2390**
VAF + PF meter with RS485, Cl 1	**WL411011OOOO**	**2990**
VAF + PF meter, Cl 0.5	**WL411020OOOO**	**2745**
VAF + PF meter with RS485, Cl 0.5	**WL411021OOOO**	**3320**

DIN Basic Multifunction Meters [9030]

4000 Series

- **Parameters :** Voltage, Current, kW, kWh, MD

Description	Cat. No.	M.R.P. (₹) Per Unit
Energy meter 1P 5-40A Cl 1 DIN	**WD4000101OOO**	**2630**
Energy meter RS485 module	**WD400010RSOO**	**2630**

Available till stocks lasts

Counter type Energy Meter [9030]

4030 Series

Features

- Accuracy Class 1.0
- Flush mounting 96 x 96 mm
- Available with sealing arrangement
- Parameter : kWh

Description	Cat. No.	M.R.P. (₹) Per Unit
kWh Counter type meter Cl 1 (3Ph 4W 240V 5A)*	**WL4030100000**	**3705**

* for availability please contact nearest branch office.

New 40x0 Series

- DIN mounting whole current operated meter
- Accuracy Class 1.0
- Inbuilt RS485 option
- **Parameters :** Voltage, Current, kW, kWh, kVA, kVAh, RPM, Load hours, Interruptions

Description	Module	Cat. No.	M.R.P. (₹) Per Unit
Single Phase - 60A	2	**WD4010100000**	**2895**
Three Phase - 80A	5	**WD4020100000**	**6275**
Single Phase - 60A (RS485)	2	**WD4010110000**	**4285**
Three Phase - 80A (RS485)	5	**WD4020110000**	**9465**

Dual Source Basic MFM [9030]

4040 Series

kWh or kVAh is site selectable

Features

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- DG sensing input 230 VAC
- Flush mounting 96 X 96 mm
- CT/PT site programmable
- Discrete LED for EB and DG
- True PF or Displacement PF site selectable
- Parameters: V, A, F, PF, kW, kVA, Run hours, kWh (EB and DG), Old energy, Site selectable kWh / kVAh

LCD offers better readability of parameters

Description	Cat. No.	M.R.P. (₹) Per Unit
Dualsource LED meter Cl1	WL4040100000	4830
Dualsource LED meter Cl1 with RS485	WL4040110000	5685
Dualsource LED meter Cl0.5	WL4040200000	5745
Dualsource LED meter Cl0.5 with RS485	WL4040210000	6725
Dualsource LCD meter Cl1	WC4040100000	5315
Dualsource LCD meter Cl1 with RS485	WC4040110000	6185
Dualsource LCD meter Cl0.5	WC4040200000	6235
Dualsource LCD meter Cl0.5 with RS485	WC4040210000	7135

Basic Multifunction Meters [9030]

4400 Series

Features

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- CT/PT site programmable
- True PF or Displacement PF site selectable
- V, A, F, PF, kW, kVA, Old energy, Load hours, site selectable kWh/ kVAh

LCD offers better readability of parameters

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4400 LED meter Cl 1	WL4400100000	4740
MFM 4400 LED meter Cl 1 with RS485	WL4400110000	5470
MFM 4400 LED meter Cl 0.5 with RS485	WL4400210000	6290
MFM 4400 LED meter Cl 0.5S with RS485	WL4400310000	6355
MFM 4400 LCD meter Cl 1	WC4400100000	4990
MFM 4400 LCD meter Cl 1 with RS485	WC4400110000	5790

Basic Multifunction Meters [9030]

4405 Series

All parameters of 4400 series in 3 line LED display

Features

- Accuracy Class 1.0, 0.5
- Input voltage measurement range 50-520 VAC
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- CT/PT site programmable
- V, A, F, PF, kW, kVA, Old energy, On and Run hours, site selectable kWh/ kVAh
- True PF or Displacement PF site selectable

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4405 LED meter Cl 1	WL4405100000	6130
MFM 4405 LED meter Cl 1 with RS485	WL4405110000	6920
MFM 4405 LED meter Cl 0.5 with RS485	WL4405210000	7955
MFM 4405 LED meter Cl 0.5S with RS485	WL4405310000	8020

Multifunction Meters [9030]

Features

- Accuracy Class 1.0, 0.5, 0.5S, 0.2, 0.2S
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- CT/PT site programmable
- 128 samples / cycle
- My favourite page in LCD multifunction meters site selectable for kWh + 2 parameters
- Dedicated buttons available for direct access to Basic, Power and Energy parameters

True and Displacement PF available

Constant Wh viewing in LCD MFM even in auto scroll mode. LCD offers better readability of parameters

4410 Series

- Parameters: V, A, F, PF, kW, kVA, kVAR, kWh, kVAh, kVARh, Runhours, On hours, Phase angle, Interrupts, THD, Events (High-Low), Neutral Current, K Factor

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4410 LED meter Cl 1	WL4410100000	8590
MFM 4410 LED meter Cl 1 with RS485	WL4410110000	9650
MFM 4410 LED meter Cl 0.5 with RS485	WL4410210000	11100
MFM 4410 LED meter Cl 0.5S with RS485	WL4410310000	12265
MFM 4410 LED meter Cl 0.2 with RS485	WL4410410000	14600
MFM 4410 LED meter Cl 0.2S with RS485	WL4410510000	18685
MFM 4410 LCD meter Cl 1	WC4410100000	10100
MFM 4410 LCD meter Cl 1 with RS485	WC4410110000	10805
MFM 4410 LCD meter Cl 0.5 with RS485	WC4410210000	12605
MFM 4410 LCD meter Cl 0.5S with RS485	WC4410310000	13810
MFM 4410 LCD meter Cl 0.2 with RS485	WC4410410000	16210
MFM 4410 LCD meter Cl 0.2S with RS485	WC4410510000	20405

Multifunction Meters [9030]

4420 Series Max Demand Indicator (without Real time clock)

Parameters

- All parameters of 4410 series
- Maximum Demand (kW & kVA)

2 Relay outputs for MD Alarm

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4420 LED meter Cl 1	WL4420100000	12650
MFM 4420 LED meter Cl 1 with RS485	WL4420110000	13580
MFM 4420 LED meter Cl 0.5 with RS485	WL4420210000	14900
MFM 4420 LED meter Cl 0.5S with RS485	WL4420310000	16050
MFM 4420 LED meter Cl 0.2 with RS485	WL4420410000	18340
MFM 4420 LED meter Cl 0.2S with RS485	WL4420510000	22355
MFM 4420 LCD meter Cl 1	WC4420100000	14485
MFM 4420 LCD meter Cl 1 with RS485	WC4420110000	15515
MFM 4420 LCD meter Cl 0.5 with RS485	WC4420210000	16815
MFM 4420 LCD meter Cl 0.5S with RS485	WC4420310000	18010
MFM 4420 LCD meter Cl 0.2 with RS485	WC4420410000	20405
MFM 4420 LCD meter Cl 0.2S with RS485	WC4420510000	24620

For Max Demand Controller (with Real time clock) please refer 6000 series

4430 Series MFM for Import-Export

Parameters

- All parameters of Model 4420 series
- Bi-directional (Import-Export)

2 Relay outputs for MD Alarm

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4430 LED meter Cl 1	WL4430100000	17750
MFM 4430 LED meter Cl 1 with RS485	WL4430110000	18515
MFM 4430 LED meter Cl 0.5 with RS485	WL4430210000	19645
MFM 4430 LED meter Cl 0.5S with RS485	WL4430310000	20735
MFM 4430 LED meter Cl 0.2 with RS485	WL4430410000	22925
MFM 4430 LED meter Cl 0.2S with RS485	WL4430510000	26745
MFM 4430 LCD meter Cl 1	WC4430100000	18870
MFM 4430 LCD meter Cl 1 with RS485	WC4430110000	19600
MFM 4430 LCD meter Cl 0.5 with RS485	WC4430210000	20735
MFM 4430 LCD meter Cl 0.5S with RS485	WC4430310000	21830
MFM 4430 LCD meter Cl 0.2 with RS485	WC4430410000	24010
MFM 4430 LCD meter Cl 0.2S with RS485	WC4430510000	27835

4440 Series

Parameters

- All parameters of 4410 series
- Maximum Demand with Real Time Clock (RTC)
- Events (high-low) with time stamp

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 4440 LED meter Cl 1 with RS485	WL4440110000	15070
MFM 4440 LED meter Cl 0.5 with RS485	WL4440210000	16940
MFM 4440 LED meter Cl 0.2 with RS485	WL4440410000	20715
MFM 4440 LCD meter Cl 1 with RS485	WC4440110000	16325
MFM 4440 LCD meter Cl 0.5 with RS485	WC4440210000	18200
MFM 4440 LCD meter Cl 0.2 with RS485	WC4440410000	21970

Advanced Multifunction Meters [9030]

5000 Series

Features

- Datalog (8 MB)
- Bi-directional (Import - Export)
- 128 samples/ cycle
- Analog I/O, digital I/O variants available
- Meter with Ethernet port available

True and Displacement PF available

Parameters

- V, A, F, kW, KVA, kVAr, kWh, kVAh, kVArh, PF, Runhr, Onhr, Interupts, Phase angle, THD, Neutral current, Max Demand (with RTC) K Factor
- Bi-directional (Import-Export)
- Events (high-low) with time stamp
- Individual Harmonics upto 31st.
- My favourite page in LCD multifunction meters site selectable for kWh + 2 parameters

Constant Wh viewing in LCD MFM even in auto scroll mode. LCD offers better readability of parameters

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 5000 LED meter Cl 1 with RS485	WL5000110000	34365
MFM 5000 LED meter Cl 1 with Ethernet	WL5000120000	39050
MFM 5000 LED meter Cl 0.5 with Ethernet	WL5000220000	40725
MFM 5000 LED meter Cl 0.5S with Ethernet	WL5000320000	41845
MFM 5000 LCD meter Cl 1 with RS485	WC5000110000	35495
MFM 5000 LCD meter Cl 1 with Ethernet	WC5000120000	40170
MFM 5000 LCD meter Cl 0.5 with RS485	WC5000210000	37155
MFM 5000 LCD meter Cl 0.5S with RS485	WC5000310000	38280
MFM 5000 LCD meter Cl 0.5 with Ethernet	WC5000220000	41845
MFM 5000 LCD meter Cl 0.5S with Ethernet	WC5000320000	42955
MFM 5000 LCD meter Cl 0.2 with RS485	WC5000410000	40505
MFM 5000 LCD meter Cl 0.2S with RS485	WC5000510000	44410
MFM 5000 LED meter Cl 1 RS485 2A/O	WL500011OBOO	37150
MFM 5000 LED meter Cl 0.5 RS485 2D/I	WL500021OOBO	38825
MFM 5000 LED meter Cl 0.5 RS485 4D/O	WL500021OOOD	39940
MFM 5000 LCD meter Cl 1 RS485 2A/O	WC500011OBOO	38275
MFM 5000 LCD meter Cl 0.5 RS485 2D/I	WC500021OOBO	39940
MFM 5000 LCD meter Cl 0.5 RS485 4D/O	WC500021OOOD	41060
MFM 5000 LCD meter Cl 1 + RS485, 1AO, 1DO	WC500011OAOA	38520

5000 series with Digital outputs are preconfigured for

I - THD% at 8% and True PF at 0.98.

Meter can be site selected for parameters and values - A THD, V THD, VA, W, under PF, under/over (VLL, A, F) with programmable trip time (1 to 180 sec) to protect the equipments from electrical abnormalities.

Parameters	Data Log Interval			
	15 Min	30 Min	45 Min	60 Min
	No. of Days			
1	10230	20460	30690	40920
2	6820	13640	20460	27280
4	4092	8184	12276	16368
9	2046	4092	6138	8184
14	1364	2728	4092	5456
29	682	1364	2046	2728

Advanced Multifunction Meters [9030]

5010 Series

Features

- 128 samples / cycle
- Running demand, max demand, prediction demand in single page window

True and Displacement PF available

Parameters

- V, A, F, kW, KVA, kVAr, kWh, kVAh, kVArh, PF, Runhr, Onhr, Interrupts, Phase angle, THD, Neutral current, Max Demand (with RTC)
- Bi-directional (Import-Export)
- Events (high-low) with time stamp
- Individual Harmonics upto 31st.

Description	Cat. No.	M.R.P. (₹) Per Unit
MFM 5010 LED meter Cl 1	**WL5010100000**	**13230**
MFM 5010 LED meter Cl 1 with RS485	**WL5010110000**	**13800**
MFM 5010 LED meter Cl 0.5S	**WL5010300000**	**16275**
MFM 5010 LED meter Cl 0.5S with RS485	**WL5010310000**	**17175**
MFM 5010 LED meter Cl 0.2 with RS485	**WL5010410000**	**18980**

Maximum Demand Controller [9030]

6000 Series

Features

- Accuracy Class 1.0, 0.5S
- Input voltage measurement range 50-520 VAC (P-P)
- Aux supply 80-300 VAC/DC
- CT secondary site selectable 1A / 5A
- Flush mounting 96 x 96 mm
- CT/PT site programmable
- Datalog (8MB)
- 4 relay outputs for Max. demand controller
- Time of Day (TOD) 6 slots available
- Block/sliding window site selectable
- Running demand, max demand, prediction demand in single page window
- Individual harmonics upto 31st.

8MB Datalog preconfigured for 9 parameters including kWh, Running demand and Max Demand for 15 mins interval

Parameters

- V, A, F, kW, KVA, kVAr, kWh, kVAh, kVArh, PF, Runhr, Onhr, Intr, Phase angle, THD, Events, Neutral current, Max Demand (with RTC)

True and Displacement PF available

Description	Cat. No.	M.R.P. (₹) Per Unit
MDC 6000 LED meter Cl 1 with RS485	**WL6000110000**	**30790**
MDC 6000 LED meter Cl 0.5S with RS485	**WL6000310000**	**33750**
MDC 6000 LCD meter Cl 1 with RS485	**WC6000110000**	**31970**
MDC 6000 LCD meter Cl 0.5S with RS485	**WC6000310000**	**34935**

Prepaid Metering Solutions with SmartComm EMS [9030]

- Dual source meters by default
- Class 1 accuracy as per IS 15884
- Ratings : 1P (10-60A) : 3P (10-60A, 20-80A, CT operated)
- Parameters: V, A, PF, W, VA, Wh - EB, DG
- Communication: Wired (Modbus RS485) or Wireless (LoRaWAN)
- Facility for connection or disconnection of electric supply based on the credit balance in the meter through relay
- Optional
  - » In RS485 model upto 4DI for water and gas meter
  - » In LoRaWAN model upto 2DI for water and gas meters
- Wireless postpaid or prepaid metering solutions for large townships on SmartComm EMS Platform available.
- With LoRaWAN technology, meters upto 1 km approx from LoRa Gateway can be monitored without Line of sight.
- Prices available on request.

New SmartComm Edge [8517] SMARTCOMM

Gateways and converters from the backbone of interconnected networks, and are a crucial link between our devices and cloud-based or on-premises softwares. They facilitate seamless communication, protocol translation, and data aggregation from various type of devices, enabling efficient data transmission and integration.

MQ1000

- MQTT Gateway with ethernet port
- Easy integration with SmartComm EMS Cloud
- Compact & Secure
- Data storage in case of network failure

Description	Cat. No.	M.R.P. (₹) Per Unit
MQTT Gateway with Ethernet port	**MQ1000OOOO**	**36000**

TG1000

- Modbus RS485 to MODBUS TCP/IP Gateway
- Easy integration with SmartComm EMS/PMS On-prem or 3rd party Software/HMI

Description	Cat. No.	M.R.P. (₹) Per Unit
MODBUS RTU to TCP/IP Gateway	**TG1000OOOO**	**20000**

New Series Nx2000 & Nx2000+

- Range: 0.2 kW to 11 kW
- Simplified sensorless vector control
- Built-in EMC filter to meet IEC 61800-3
- Built-in Potentiometer
- DIN Rail mounting for Side-by-Side installation
- Built-in PID
- Built-in Brake Control
- Conformal Coating complying to IEC 60721-3-3 class 3C3 Avg.
- Built-in RS485 Modbus RTU
- Interface:
  Nx2000: 5DI, 2DO (R), 2AI (V & V/I), 1AO (V)
  Nx2000+: 5DI, 2DO (R), 2AI (V & I), 1AO (V)

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Single Phase 230VAC	Nx2000 230V 1Ph Drive 0.20 kW (HD)	LTVF-N101P4BAA	*
	Nx2000 230V 1Ph Drive 0.40 kW (HD)	LTVF-N102P4BAA	*
	Nx2000 230V 1Ph Drive 0.75 kW (HD)	LTVF-N104P2BAA	*
	Nx2000 230V 1Ph Drive 1.50 kW (HD)	LTVF-N107P5BAA	*
	Nx2000 230V 1Ph Drive 2.20 kW (HD)	LTVF-N110P0BAA	*
Three Phase 230VAC	Nx2000+ 230V Drive 0.40kW(HD)/0.75kW(ND)	LTVF-N203P1BAA	*
	Nx2000+ 230V Drive 0.75kW(HD)/1.50kW(ND)	LTVF-N206P0BAA	*
	Nx2000+ 230V Drive 1.50kW(HD)/2.20kW(ND)	LTVF-N209P6BAA	*
	Nx2000+ 230V Drive 2.20kW(HD)/3.70kW(ND)	LTVF-N212P0BAA	*
	Nx2000+ 230V Drive 4.00kW(HD)/5.50kW(ND)	LTVF-N218P0BAA	*
	Nx2000+ 230V Drive 5.50kW(HD)/7.50kW(ND)	LTVF-N230P0BAA	*
	Nx2000+ 230V Drive 7.50kW(HD)/11.0kW(ND)	LTVF-N240P0BAA	*
Three Phase 415VAC	Nx2000+ 415V Drive 0.40kW(HD)/0.75kW(ND)	LTVF-N402P0BAA	*
	Nx2000+ 415V Drive 0.75kW(HD)/1.50kW(ND)	LTVF-N403P1BAA	*
	Nx2000+ 415V Drive 1.50kW(HD)/2.20kW(ND)	LTVF-N405P1BAA	*
	Nx2000+ 415V Drive 2.20kW(HD)/3.70kW(ND)	LTVF-N406P9BAA	*
	Nx2000+ 415V Drive 4.00kW(HD)/5.50kW(ND)	LTVF-N410P0BAA	*
	Nx2000+ 415V Drive 5.50kW(HD)/7.50kW(ND)	LTVF-N416P0BAA	*
	Nx2000+ 415V Drive 7.50kW(HD)/11.0kW(ND)	LTVF-N423P0BAA	*

Note: * For prices please contact nearest branch office

Smart Series Sx2000

- Range: 0.75kW to 90kW
- Starting Torque: 150% at 3 Hz for V/F, 200% at 0.5Hz for Sensorless Vector Control
- Built-in Brake Control
- Built-in PLC functionality
- Peer to Peer Communication to share I/O's
- Conformal Coating complying to IEC 60721-3-3 Class 3C3 Avg.
- Built-in RS485 Modbus RTU
- Component Life Monitor
- Built-in Braking Chopper till 30kW ND
- Interface :
  Upto 30kW ND: 7DI, 2DO (R+T), 2AI (V & V/I), 1AO (V/I)
  From 37kW ND: 7DI, 3DO (2R+T), 2AI (V & V/I), 2AO (V & V/I)

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Single Phase 230Vac	Sx2000 VVVF 230V 1Ph Drive 0.40 kW (HD) / 0.75 kW (ND)	LTVF-S10003BAA	*
	Sx2000 VVVF 230V 1Ph Drive 0.75 kW (HD) / 1.5 kW (ND)	LTVF-S10006BAA	*
	Sx2000 VVVF 230V 1Ph Drive 1.5 kW (HD) / 2.20 kW (ND)	LTVF-S10010BAA	*
	Sx2000 VVVF 230V 1Ph Drive 2.2 kW (HD) / 3.70 kW (ND)	LTVF-S10012BAA	*
Three Phase 230Vac	Sx2000 VVVF 230V 3Ph Drive 0.40 kW (HD) / 0.75 kW (ND)	LTVF-S20003BAA	*
	Sx2000 VVVF 230V 3Ph Drive 0.75 kW (HD) / 1.5 kW (ND)	LTVF-S20006BAA	*
	Sx2000 VVVF 230V 3Ph Drive 1.5 kW (HD) / 2.20 kW (ND)	LTVF-S20010BAA	*
	Sx2000 VVVF 230V 3Ph Drive 2.2 kW (HD) / 3.70 kW (ND)	LTVF-S20012BAA	*
	Sx2000 VVVF 230V 3Ph Drive 4.0 kW (HD) / 5.5 kW (ND)	LTVF-S20018BAA	*
	Sx2000 VVVF 230V 3Ph Drive 5.5 kW (HD) / 7.5 kW (ND)	LTVF-S20030BAA	*
	Sx2000 VVVF 230V 3Ph Drive 7.5 kW (HD) / 11 kW (ND)	LTVF-S20040BAA	*
	Sx2000 VVVF 230V 3Ph Drive 11 kW (HD) / 15 kW (ND)	LTVF-S20056BAA	*
	Sx2000 VVVF 230V 3Ph Drive 15 kW (HD) / 18.5 kW (ND)	LTVF-S20069BAA	*
Three Phase 415Vac	Sx2000 VVVF 415V Drive 0.40 kW (HD) / 0.75 kW (ND)	LTVF-S40002BAA	*
	Sx2000 VVVF 415V Drive 0.75 kW (HD) / 1.50 kW (ND)	LTVF-S40003BAA	*
	Sx2000 VVVF 415V Drive 1.50 kW (HD) / 2.20 kW (ND)	LTVF-S40005BAA	*
	Sx2000 VVVF 415V Drive 2.20 kW (HD) / 3.7 kW (ND)	LTVF-S40007BAA	*
	Sx2000 VVVF 415V Drive 4.00 kW (HD) / 5.50 kW (ND)	LTVF-S40010BAA	*
	Sx2000 VVVF 415V Drive 5.50 kW (HD) / 7.50 kW (ND)	LTVF-S40016BAA	*
	Sx2000 VVVF 415V Drive 7.50 kW (HD) / 11.0 kW (ND)	LTVF-S40023BAA	*
	Sx2000 VVVF 415V Drive 11.0 kW (HD) / 15.0 kW (ND)	LTVF-S40030BAA	*
	Sx2000 VVVF 415V Drive 15.0 kW (HD) / 18.5 kW (ND)	LTVF-S40038BAA	*
	Sx2000 VVVF 415V Drive 18.5 kW (HD) / 22.0 kW (ND)	LTVF-S40044BAA	*
	Sx2000 VVVF 415V Drive 22.0 kW (HD) / 30.0 kW (ND)	LTVF-S40058BAA	*
	Sx2000 VVVF 415V Drive 30.0 kW (HD) / 37.0 kW (ND)	LTVF-S40075BAA	*
	Sx2000 VVVF 415V Drive 37.0 kW (HD) / 45.0 kW (ND)	LTVF-S40091BAA	*
	Sx2000 VVVF 415V Drive 45.0 kW (HD) / 55.0 kW (ND)	LTVF-S40107BAA	*
	Sx2000 VVVF 415V Drive 55.0 kW (HD) / 75.0 kW (ND)	LTVF-S40142BAA	*
	Sx2000 VVVF 415V Drive 75.0 kW (HD) / 90.0 kW (ND)	LTVF-S40169BAA	*

Note:
* For prices please contact nearest branch office
Drives are covered under HS code 8504 40 90 and are charged at 18% GST.

Smart Series Sx2000 IP66

- Range: 0.40 to 22kW (HD)
- V/F, Slip Compensation, Sensorless Vector Control
- Starting Torque: 150% at 3Hz for V/F, 200% at 0.5Hz for Sensorless Vector Control
- Conformal Coating complying to IEC 60721-3-3,Class 3C3 Avg.
- Built-in RS485 Modbus
- Peer to Peer communication to share I/Os
- Built-in Brake Control
- Built-in PLC functionality
- Component Life Monitor
- Built-in PID
- Built-in Braking Chopper
- Interface: 5DI, 2DO (R+T), 2AI (V & V/I), 1AO (V/I)

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Three Phase 415Vac	Sx2000 VVVF 415V IP66 Drive 0.40 kW (HD)	**LTVF-S40001XAA**	*
	Sx2000 VVVF 415V IP66 Drive 0.75 kW (HD)	**LTVF-S40003XAA**	*
	Sx2000 VVVF 415V IP66 Drive 1.50 kW (HD)	**LTVF-S40004XAA**	*
	Sx2000 VVVF 415V IP66 Drive 2.20 kW (HD)	**LTVF-S40006XAA**	*
	Sx2000 VVVF 415V IP66 Drive 4.00 kW (HD	**LTVF-S40009XAA**	*
	Sx2000 VVVF 415V IP66 Drive 5.50 kW (HD)	**LTVF-S40012XAA**	*
	Sx2000 VVVF 415V IP66 Drive 7.50 kW (HD)	**LTVF-S40016XAA**	*
	Sx2000 VVVF 415V IP66 Drive 11.0 kW (HD)	**LTVF-S40024XAA**	*
	Sx2000 VVVF 415V IP66 Drive 15.0 kW (HD)	**LTVF-S40030XAA**	*
	Sx2000 VVVF 415V IP66 Drive 18.5 kW (HD)	**LTVF-S40039XAA**	*
	Sx2000 VVVF 415V IP66 Drive 22.0 kW (HD)	**LTVF-S40045XAA**	*

Note: * For prices please contact nearest branch office

Flexi Series Fx2000

- Range: 0.75kW to 375kW (HD)
- Ideal for Heavy Duty Applications - Crane, Winder, Textile Application, Plastic extruders
- Starting Torque: 250% at 0Hz for Closed Loop Vector Control
- Overload Capacity: 200% for 3 sec and 150% for 1 min
- Built-in Crane function
- Optional Smart PLC Card
- Conformal Coating complying to IEC 60721-3-3 Class 3C3 Avg.
- Built-in RS485 Modbus RTU
- Built-in DC Reactor from 22kW to 220kW HD
- Built-in Braking Chopper till 22kW HD
- Interface : 8DI, 3DO (2R+1T), 2AI (V & I), 2AO (V & I)

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Three Phase 415Vac	Fx2000 VVVF 415V Drive 0.75 kW (HD) / 1.50 kW (ND)	**LTVF-F40004CAA**	*
	Fx2000 VVVF 415V Drive 1.50 kW (HD) / 2.20 kW (ND)	**LTVF-F40006CAA**	*
	Fx2000 VVVF 415V Drive 2.20 kW (HD) / 3.70 kW (ND)	**LTVF-F40008CAA**	*
	Fx2000 VVVF 415V Drive 3.70 kW (HD) / 5.50 kW (ND)	**LTVF-F40012CAA**	*
	Fx2000 VVVF 415V Drive 5.50 kW (HD) / 7.50 kW (ND)	**LTVF-F40016CAA**	*
	Fx2000 VVVF 415V Drive 7.50 kW (HD) / 11.0 kW (ND)	**LTVF-F40024CAA**	*
	Fx2000 VVVF 415V Drive 11.0 kW (HD) / 15.0 kW (ND)	**LTVF-F40030CAA**	*
	Fx2000 VVVF 415V Drive 15.0 kW (HD) / 18.5 kW (ND)	**LTVF-F40039CAA**	*
	Fx2000 VVVF 415V Drive 18.5 kW (HD) / 22.0 kW (ND)	**LTVF-F40045CAA**	*
	Fx2000 VVVF 415V Drive 22.0 kW (HD) / 30.0 kW (ND)	**LTVF-F40061CAA**	*
	Fx2000 VVVF 415V Drive 30.0 kW (HD) / 37.0 kW (ND)	**LTVF-F40075CAA**	*
	Fx2000 VVVF 415V Drive 37.0 kW (HD) / 45.0 kW (ND)	**LTVF-F40091CAA**	*
	Fx2000 VVVF 415V Drive 45.0 kW (HD) / 55.0 kW (ND)	**LTVF-F40110CAA**	*
	Fx2000 VVVF 415V Drive 55.0 kW (HD) / 75.0 kW (ND)	**LTVF-F40152CAA**	*
	Fx2000 VVVF 415V Drive 75.0 kW (HD) / 90.0 kW (ND)	**LTVF-F40183CAA**	*
	Fx2000 VVVF 415V Drive 90.0 kW (HD) / 110 kW (ND)	**LTVF-F40223AAA**	*
	Fx2000 VVVF 415V Drive 110 kW (HD) / 132 kW (ND)	**LTVF-F40264AAA**	*
	Fx2000 VVVF 415V Drive 132 kW (HD) / 160 kW (ND)	**LTVF-F40325AAA**	*
	Fx2000 VVVF 415V Drive 160 kW (HD) / 185 kW (ND)	**LTVF-F40370AAA**	*
	Fx2000 VVVF 415V Drive 185 kW (HD) / 220 kW (ND)	**LTVF-F40432AAA**	*
	Fx2000 VVVF 415V Drive 220 kW (HD) / 285 kW (ND)	**LTVF-F40547AAA**	*
	Fx2000 VVVF 415V Drive 285 kW (HD) / 315 kW (ND)	**LTVF-F40613AAA**	*
	Fx2000 VVVF 415V Drive 315 kW (HD) / 375 kW (ND)	**LTVF-F40731AAA**	*
	Fx2000 VVVF 415V Drive 375 kW (HD) / 450 kW (ND)	**LTVF-F40877AAA**	*

Note:
*For prices please contact nearest branch office
Drives are covered under HS code 8504 40 90 and are charged at 18% GST.

AC Drives [8504]

HVAC Series Hx2000

- Range: 0.75 to 90kW
- V/F, Slip Compensation
- Built-in RTC for Scheduling
- Built-in EMC filter class C3
- Password Protection
- Multi-motor Control
- Built-in Payback Counter
- Dry Pump Detection
- Built-in 4 PID (1 Main & 3 EPID)
- Built-in RS485 Communication, BACnet, Modbus-RTU, Metasys N2
- Global Specification Compliant - CE, UL (Plenum Rated)
- Conformal Coating complying to IEC 60721-3-3, Class 3C2 (3C3 Avg.)
- Interface: 7DI, 6DO (5R+1T), 2AI (V & V/I), 2AO (V & V/I)

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Three Phase 415Vac	Hx2000 VVVF 415V Drive 0.75 kW (ND)	**LTVF-H40002BAA**	*
	Hx2000 VVVF 415V Drive 1.50 kW (ND)	**LTVF-H40004BAA**	*
	Hx2000 VVVF 415V Drive 2.20 kW (ND)	**LTVF-H40006BAA**	*
	Hx2000 VVVF 415V Drive 3.7 kW (ND)	**LTVF-H40008BAA**	*
	Hx2000 VVVF 415V Drive 5.50 kW (ND)	**LTVF-H40012BAA**	*
	Hx2000 VVVF 415V Drive 7.50 kW (ND)	**LTVF-H40016BAA**	*
	Hx2000 VVVF 415V Drive 11.0 kW (ND)	**LTVF-H40024BAA**	*
	Hx2000 VVVF 415V Drive 15.0 kW (ND)	**LTVF-H40030BAA**	*
	Hx2000 VVVF 415V Drive 18.5 kW (ND)	**LTVF-H40038BAA**	*
	Hx2000 VVVF 415V Drive 22.0 kW (ND)	**LTVF-H40045BAA**	*
	Hx2000 VVVF 415V Drive 30.0 kW (ND)	**LTVF-H40061BAA**	*
	Hx2000 VVVF 415V Drive 37.0 kW (ND)	**LTVF-H40075BAA**	*
	Hx2000 VVVF 415V Drive 45.0 kW (ND)	**LTVF-H40091BAA**	*
	Hx2000 VVVF 415V Drive 55.0 kW (ND)	**LTVF-H40107BAA**	*
	Hx2000 VVVF 415V Drive 75.0 kW (ND)	**LTVF-H40142BAA**	*
	Hx2000 VVVF 415V Drive 90.0 kW (ND)	**LTVF-H40169BAA**	*

Note: * For prices please contact nearest branch office

Accessories for AC Drives [8504]

Drive Model	Description	Cat. No.	M.R.P. (₹) Per Unit
Nx2000	Nx2000 Remote Keypad with 3m cable	**LTOP-DOP-51**	*
Nx2000+	Nx2000+ Remote Keypad with 3m cable	**LTOP-DOP-52**	*
	CANOpen Comm Card for Nx2000+	**LTCI-CAN-NP**	*
	Eth.IP/Mod.TCP/RAPIEnet Opt for Nx2000+	**LTCI-ETH-NP**	*
	Profibus-DP Comm Card for Nx2000+	**LTCI-PDP-NP**	*
Sx2000	Sx2000 Remote Keypad with 3m cable	**LTOP-DOP-150**	*
	LCD Digital Operator	**LTOP-DOP-200**	*
	I/O Expansion Card for Sx2000	**LTIO-EXP-S**	*
	CANOpen Communication card	**LTCI-CAN-S**	*
	Profibus-DP Communication card	**LTCI-PDP-S.**	*
	Profinet option card for Sx2000	**LTCI-PFN-S**	*
	Dual Port EthernetIP/ModbusTCP Comm card	**LTCI-ETH2-S**	*
Fx2000	LCD Digital Operator	**LTOP-DOP-200**	*
	I/O Expansion Card 1 for Fx2000	**LTIO-EX1-F**	*
	Synchronization Option Card	**LTCN-SYN-F**	*
	Position control option card for Fx2000	**LTCN-PCN-F**	*
	Incremental card for Open collector and Line Driver Encoder	**LTEN-INC-F**	*
	Application Development PLC Option card	**LTAD-PLC-F**	*
	Profibus-DP Communication Interface card	**LTCI-PDP-F**	*
	Profinet option card for Fx2000	**LTCI-PFN-F**	*
	CANOpen Communication Interface card	**LTCI-CAN-F**	*
	DeviceNet Communication Interface card	**LTCI-DEN-F**	*
	Dual Port EthernetIP/ModbusTCP Comm card	**LTCI-ETH2-F**	*
Hx2000	I/O Expansion Card for Hx2000	**LTIO-EXP-H**	*
	I/O Expansion Card 2 for Hx2000	**LTIO-EXP2-H**	*
DBU for Sx2000, Fx2000	Dynamic Braking Unit for 11 - 15kW	**LTDBU-0150-4**	*
	Dynamic Braking Unit for 18.5 - 22kW	**LTDBU-0220-4**	*
	Dynamic Braking Unit for 30 - 37kW	**LTDBU-0370-4**	*
	Dynamic Braking Unit for 45 - 55kW	**LTDBU-0550-4**	*
	Dynamic Braking Unit for 75kW	**LTDBU-0750-4**	*
	Dynamic Braking Unit for 75kW 100% ED	**LTDBU-075H-4#**	*
	Dynamic Braking Unit for 220 - 375kW	**LTDBU-2200-4**	*

Note:

* For prices please contact nearest branch office
Drives are covered under HS code 8504 40 90 and are charged at 18% GST.

Available till stock last

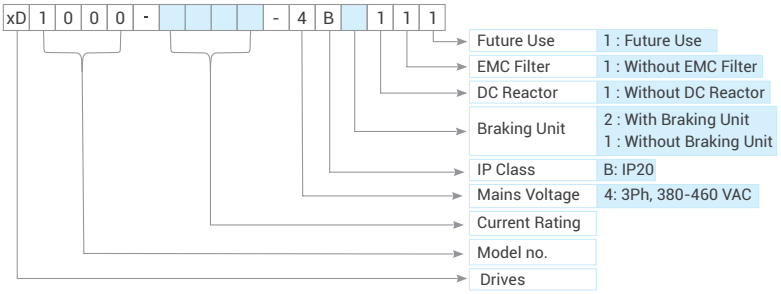
xD1000
Range : 0.37kW HD to 30kW ND

- Rated @ 55°C (HD), @ 50°C (ND)
- Transient overtorque 170%~200%
- 4 DIs, 2 DOs,1AI, 1AO
- Inbuilt PID with 4 Preset PID references, Sleep & Wakeup, Predictive speed
- Auxiliary Pump control
- Catch on the Fly
- Skip Frequency
- Automatic Restart
- Stall Prevention
- Current limiting function

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Three Phase 415 VAC	xD1000 415V Drive 0.37kW(HD)	**XD1000-01P5-4B1111**	*
	xD1000 415V Drive 0.75kW(HD)	**XD1000-02P3-4B1111**	*
	xD1000 415V Drive 1.50kW(HD)	**XD1000-04P1-4B2111**	*
	xD1000 415V Drive 2.20kW(HD)	**XD1000-05P5-4B2111**	*
	xD1000 415V Drive 3.00kW(HD)/4.00kW(ND)	**XD1000-08P9-4B2111**	*
	xD1000 415V Drive 4.00kW(HD)/5.50kW(ND)	**XD1000-12P1-4B2111**	*
	xD1000 415V Drive 5.50kW(HD)/7.50kW(ND)	**XD1000-16P0-4B2111**	*
	xD1000 415V Drive 7.50kW(HD)/11.0kW(ND)	**XD1000-22P8-4B2111**	*
	xD1000 415V Drive 11.0kW(HD)/15.0kW(ND)	**XD1000-30P0-4B2111**	*
	xD1000 415V Drive 15.0kW(HD)/18.5kW(ND)	**XD1000-36P0-4B2111**	*
	xD1000 415V Drive 18.5kW(HD)/22.0kW(ND)	**XD1000-43P0-4B2111**	*
	xD1000 415V Drive 22.0kW(HD)/30.0kW(ND)	**XD1000-60P0-4B2111**	*

Note: * For prices please contact nearest branch office

Ordering Information for **xD1000** AC Drive



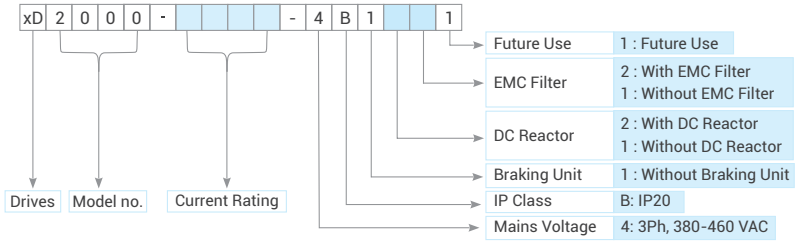
xD2000
Range : 0.37 HD to 160kW ND

- Suitable for non-regenerative applications
- Rated for -15 to 45°C HD as well as ND ratings
- Inbuilt EMC filter with Category C3 EMC levels
- Inbuilt DC reactor from 4 kW to 160kW
- Inbuilt detachable LCD keypad
- 6 DIs, 3 ROs, 3 AIs, 2 AOs
- External 24 VDC connection to keep control circuit alive during power outage
- Pump and Compressor specific functions
- 2 functions to one DI
- Torque Boost (IR Compensation)
- Slip Compensation
- Auto Tuning
- Decel. Ramp Adaptation
- 16 Preset speeds
- Skip (Jump) Frequency
- Current Limitation
- DC Braking / Stop
- Freewheel Stop & Fast Stop

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Three Phase 415 VAC	XD2000 415V Drive 0.37kW(HD)/0.75kW(ND)	**XD2000-02P2-4B1121**	*
	XD2000 415V Drive 0.75kW(HD)/1.50kW(ND)	**XD2000-04P0-4B1121**	*
	XD2000 415V Drive 1.50kW(HD)/2.20kW(ND)	**XD2000-05P6-4B1121**	*
	XD2000 415V Drive 2.20kW(HD)/3.00kW(ND)	**XD2000-07P2-4B1121**	*
	XD2000 415V Drive 3.00kW(HD)/4.00kW(ND)	**XD2000-09P3-4B1221**	*
	XD2000 415V Drive 4.00kW(HD)/5.50kW(ND)	**XD2000-12P7-4B1221**	*
	XD2000 415V Drive 5.50kW(HD)/7.50kW(ND)	**XD2000-15P8-4B1221**	*
	XD2000 415V Drive 7.50kW(HD)/11.0kW(ND)	**XD2000-23P5-4B1221**	*
	XD2000 415V Drive 11.0kW(HD)/15.0kW(ND)	**XD2000-31P7-4B1221**	*
	XD2000 415V Drive 15.0kW(HD)/18.5kW(ND)	**XD2000-39P2-4B1221**	*
	XD2000 415V Drive 18.5kW(HD)/22.0kW(ND)	**XD2000-46P3-4B1221**	*
	XD2000 415V Drive 22.0kW(HD)/30.0kW(ND)	**XD2000-61P5-4B1221**	*
	XD2000 415V Drive 30.0kW(HD)/37.0kW(ND)	**XD2000-74P5-4B1221**	*
	XD2000 415V Drive 37.0kW(HD)/45.0kW(ND)	**XD2000-88P0-4B1221**	*
	XD2000 415V Drive 45.0kW(HD)/55.0kW(ND)	**XD2000-120P-4B1221**	*
	XD2000 415V Drive 55.0kW(HD)/75.0kW(ND)	**XD2000-145P-4B1221**	*
	XD2000 415V Drive 75.0kW(HD)/90.0kW(ND)	**XD2000-173P-4B1221**	*
	XD2000 415V Drive 90.0kW(HD)/110kW(ND)	**XD2000-211P-4B1221**	*
	XD2000 415V Drive 110kW(HD)/132kW(ND)	**XD2000-250P-4B1221**	*
	XD2000 415V Drive 132kW(HD)/160kW(ND)	**XD2000-302P-4B1221**	*

Note:
* For prices please contact nearest branch office
Drives are covered under HS code 8504 40 90 and are charged at 18% GST.

Ordering Information for **xD2000** AC Drive



xD3000
Range: 0.18kW HD to 15kW HD

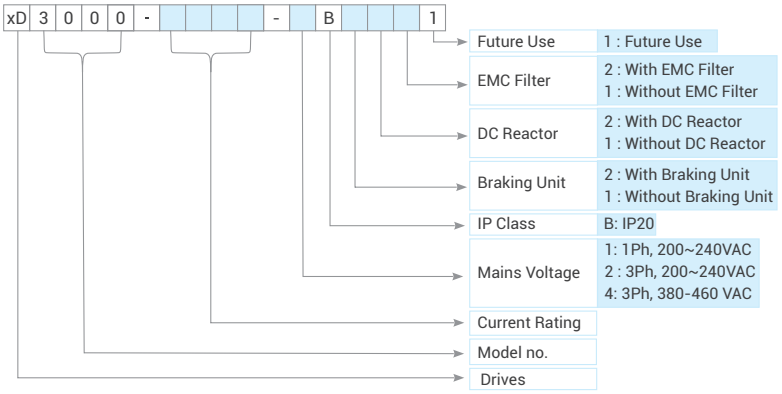
- Suitable for machine applications
- Rated for -10 to 50°C ambient temperature
- Inbuilt EMC filter for EMC category C2
- Inbuilt braking transistor
- 6 DIs, 3 DOs, 3 AIs, 1 AOs, 1 STO input
- External 24 VDC to keep control circuit on during power outages
- Delinearization for Analog Inputs
- Reference Addition, Subtraction & Multiplication
- Hoisting - External Brake Control, Load (External Weight) Measurement, High-speed Hoisting, Rope Slack
- Motor / Generator Torque Limit
- Line Contactor Control & Output Contactor Control
- Positioning by Limit Switches or Sensors
- Traverse control for textile machines
- 8 nos. trip history

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Single Phase 230 VAC	XD3000 230V 1Ph Drive 0.18kW(HD)	**XD3000-01P5-1B2121**	*
	XD3000 230V 1Ph Drive 0.37kW(HD)	**XD3000-03P3-1B2121**	*
	XD3000 230V 1Ph Drive 0.55kW(HD)	**XD3000-03P7-1B2121**	*
	XD3000 230V 1Ph Drive 0.75kW(HD)	**XD3000-04P8-1B2121**	*
	XD3000 230V 1Ph Drive 1.10kW(HD)	**XD3000-06P9-1B2121**	*
	XD3000 230V 1Ph Drive 1.50kW(HD)	**XD3000-08P0-1B2121**	*
	XD3000 230V 1Ph Drive 2.20kW(HD)	**XD3000-11P0-1B2121**	*
Three Phase 230 VAC	XD3000 230V 3Ph Drive 0.18kW(HD)	**XD3000-01P5-2B2111**	*
	XD3000 230V 3Ph Drive 0.37kW(HD)	**XD3000-03P3-2B2111**	*
	XD3000 230V 3Ph Drive 0.55kW(HD)	**XD3000-03P7-2B2111**	*
	XD3000 230V 3Ph Drive 0.75kW(HD)	**XD3000-04P8-2B2111**	*
	XD3000 230V 3Ph Drive 1.10kW(HD)	**XD3000-06P9-2B2111**	*
	XD3000 230V 3Ph Drive 1.50kW(HD)	**XD3000-08P0-2B2111**	*
	XD3000 230V 3Ph Drive 2.20kW(HD)	**XD3000-11P0-2B2111**	*
	XD3000 230V 3Ph Drive 3.00kW(HD)	**XD3000-13P7-2B2111**	*
	XD3000 230V 3Ph Drive 4.00kW(HD)	**XD3000-17P5-2B2111**	*
	XD3000 230V 3Ph Drive 5.50kW(HD)	**XD3000-27P5-2B2111**	*
	XD3000 230V 3Ph Drive 7.50kW(HD)	**XD3000-33P0-2B2111**	*
	XD3000 230V 3Ph Drive 11.0kW(HD)	**XD3000-54P0-2B2111**	*
	XD3000 230V 3Ph Drive 15.0kW(HD)	**XD3000-66P0-2B2111**	*
Three Phase 415 VAC	XD3000 415V 3Ph Drive 0.37kW(HD)	**XD3000-01P5-4B2121**	*
	XD3000 415V 3Ph Drive 0.55kW(HD)	**XD3000-01P9-4B2121**	*
	XD3000 415V 3Ph Drive 0.75kW(HD)	**XD3000-02P3-4B2121**	*
	XD3000 415V 3Ph Drive 1.10kW(HD)	**XD3000-03P0-4B2121**	*
	XD3000 415V 3Ph Drive 1.50kW(HD)	**XD3000-04P1-4B2121**	*
	XD3000 415V 3Ph Drive 2.20kW(HD)	**XD3000-05P5-4B2121**	*
	XD3000 415V 3Ph Drive 3.00kW(HD)	**XD3000-07P1-4B2121**	*
	XD3000 415V 3Ph Drive 4.00kW(HD)	**XD3000-09P5-4B2121**	*
	XD3000 415V 3Ph Drive 5.50kW(HD)	**XD3000-14P3-4B2121**	*
	XD3000 415V 3Ph Drive 7.50kW(HD)	**XD3000-17P0-4B2121**	*
	XD3000 415V 3Ph Drive 11.0kW(HD)	**XD3000-27P7-4B2121**	*
	XD3000 415V 3Ph Drive 15.0kW(HD)	**XD3000-33P0-4B2121**	*

Note:

* For prices please contact nearest branch office

Ordering Information for **xD3000** AC Drive



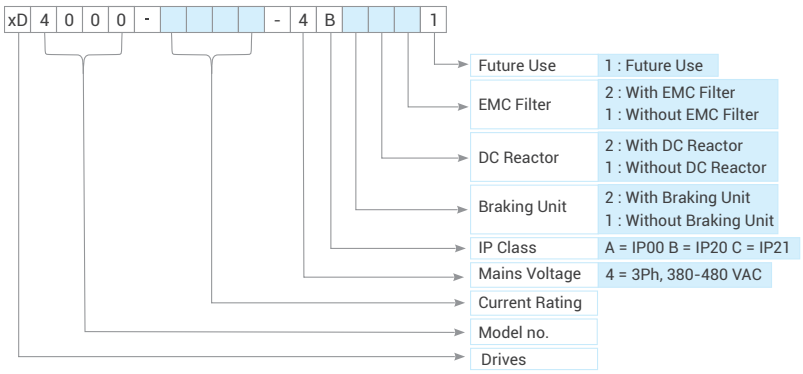
xD4000
Range : 0.37kW HD to 315kW ND

- Detachable 8 line Graphical LCD keypad with battery for RTC & Help Menu
- Inbuilt DC Reactor over entire range
- Inbuilt EMC filter entire range for EMC levels C2 / C3
- Inbuilt Dual port Ethernet IP / Modbus TCP & Modbus RS485 ports
- Inbuilt Braking transistor upto 160kW HD.
- 8 DIs, 4 DOs, 3 AIs, 2 AOs, 2 STO inputs
- Crane specific functions
- Pump specific functions
- Line & Output Contactor control
- Load Sharing, Speed – Torque master slave
- Multi-motor configuration Mode
- Automatic Restart
- Catch on the fly (Flying Start)
- Fault Inhibition / Error detect disabling (Fire Mode)
- 15 nos. trip histories with date and time Stamp

Input Voltage	Description	Cat. No.	M.R.P. (₹) Per Unit
Three Phase 415 VAC	XD4000 415V Drive 0.37kW(HD)/0.75kW(ND)	**XD4000-02P2-4C2221**	*
	XD4000 415V Drive 0.75kW(HD)/1.50kW(ND)	**XD4000-04P0-4C2221**	*
	XD4000 415V Drive 1.50kW(HD)/2.20kW(ND)	**XD4000-05P6-4C2221**	*
	XD4000 415V Drive 2.20kW(HD)/3.00kW(ND)	**XD4000-07P2-4C2221**	*
	XD4000 415V Drive 3.00kW(HD)/4.00kW(ND)	**XD4000-09P3-4C2221**	*
	XD4000 415V Drive 4.00kW(HD)/5.50kW(ND)	**XD4000-12P7-4C2221**	*
	XD4000 415V Drive 5.50kW(HD)/7.50kW(ND)	**XD4000-16P5-4C2221**	*
	XD4000 415V Drive 7.50kW(HD)/11.0kW(ND)	**XD4000-23P5-4C2221**	*
	XD4000 415V Drive 11.0kW(HD)/15.0kW(ND)	**XD4000-31P7-4C2221**	*
	XD4000 415V Drive 15.0kW(HD)/18.5kW(ND)	**XD4000-39P2-4C2221**	*
	XD4000 415V Drive 18.5kW(HD)/22.0kW(ND)	**XD4000-46P3-4C2221**	*
	XD4000 415V Drive 22.0kW(HD)/30.0kW(ND)	**XD4000-61P5-4C2221**	*
	XD4000 415V Drive 30.0kW(HD)/37.0kW(ND)	**XD4000-74P5-4C2221**	*
	XD4000 415V Drive 37.0kW(HD)/45.0kW(ND)	**XD4000-88P0-4C2221**	*
	XD4000 415V Drive 45.0kW(HD)/55.0kW(ND)	**XD4000-106P-4C2221**	*
	XD4000 415V Drive 55.0kW(HD)/75.0kW(ND)	**XD4000-145P-4C2221**	*
	XD4000 415V Drive 75.0kW(HD)/90.0kW(ND)	**XD4000-173P-4C2221**	*
	XD4000 415V Drive 90.0kW(HD)/110kW(ND)	**XD4000-211P-4B2221**	*
	XD4000 415V Drive 110kW(HD)/132kW(ND)	**XD4000-250P-4B2221**	*
	XD4000 415V Drive 132kW(HD)/160kW(ND)	**XD4000-302P-4B2221**	*
	XD4000 415V Drive 160kW(HD)/220kW(ND)	**XD4000-427P-4A2221**	*
	XD4000 415V Drive 200kW(HD)/250kW(ND)	**XD4000-481P-4A1221**	*
	XD4000 415V Drive 250kW(HD)/315kW(ND)	**XD4000-616P-4A1221**	*

Note: * For prices please contact nearest branch office

Ordering Information for **xD4000** AC Drive



Accessories for AC Drives [8504]

Drive Model	Description	Cat. No.	M.R.P. (₹) Per Unit
xD1000	IP54 LED Remote Keypad	**XDOP-DOP-100**	*
xD2000	IP21 LCD Std. Graphical Keypad	**XDOP-DOP-300**	*
	Remote Mounting Kit for IP21 LCD Keypad	**XDKT-DOP-300**	*
	IP65 LCD Graphical Keypad	**XDOP-DOP-500**	*
	Mounting kit for IP65 LCD Keypad	**XDKT-DOP-500**	*
	IO Expansion Card-1 - 6DI,2DO,2AI	**XDIO-EX1-V01**	*
	IO Expansion Card-2 - 3RO	**XDIO-EX2-V01**	*
	Profibus-DP Comm. Card	**XDCI-PDP-V01**	*
xD3000	IP54 LED Remote Keypad	**XDOP-DOP-100**	*
	IP65 LCD Graphical Keypad	**XDOP-DOP-500**	*
	Mounting kit for IP65 LCD Keypad	**XDKT-DOP-500**	*
	Communication Option Module Adapter	**XDKT-ADP-V01**	*
	Speed Monitoring Card	**XDEN-SPD-V01**	*
	Modbus TCP/EtherNet IP Comm. Card	**XDCI-ETH-V01**	*
	EtherCAT Comm. Card	**XDCI-ECT-V01**	*
	Profibus-DP Comm. Card	**XDCI-PDP-V01**	*
	DeviceNet Comm. Card	**XDCI-DEN-V01**	*
	POWERLINK Comm. Card	**XDCI-PLN-V01**	*
	ProfiNet Comm. Card	**XDCI-PFN-V01**	*
	CANopen DaisyChain Comm. Card	**XDCI-CND-V01**	*
	CANopen SUB-D Comm. Card	**XDCI-CNS-V01**	*
	CANopen Terminals Comm. Card	**XDCI-CNT-V01**	*
	Additional Safety Integrity Module	**XDSI-SIM-V01**	*
xD4000	IP65 LCD Graphical Keypad	**XDOP-DOP-500**	*
	Mounting kit for IP65 LCD Keypad	**XDKT-DOP-500**	*
	IO Expansion Card-1 - 6DI,2DO,2AI	**XDIO-EX1-V01**	*
	IO Expansion Card-2 - 3RO	**XDIO-EX2-V01**	*
	Digital Encoder Interface Card	**XDEN-DEI-V01**	*
	Analog Encoder Interface Module	**XDEN-AEI-V01**	*
	Resolver Interface Module	**XDEN-REI-V01**	*
	HTL Encoder Interface Module	**XDEN-HEI-V01**	*
	EtherCAT Comm. Card	**XDCI-ECT-V01**	*
	Profibus-DP Comm. Card	**XDCI-PDP-V01**	*
	DeviceNet Comm. Card	**XDCI-DEN-V01**	*
	POWERLINK Comm. Card	**XDCI-PLN-V01**	*
	ProfiNet Comm. Card	**XDCI-PFN-V01**	*
	ProfiNet Comm. Card - Redundant	**XDCI-PFN-V02**	*
	CANopen DaisyChain Comm. Card	**XDCI-CND-V01**	*
	CANopen SUB-D Comm. Card	**XDCI-CNS-V01**	*
	CANopen Terminals Comm. Card	**XDCI-CNT-V01**	*
	Additional Safety Integrity Module	**XDSI-SIM-V01**	*

Note:
* For prices please contact nearest branch office
Drives are covered under HSN code 8504 40 90 and are charged at 18% GST.

EMX4e Soft Starters

(Available till stock last)

- Range: 24A to 580A
- Built in bypass contactor
- Compact & Flexible Design
- Screw-less design for easy and fast servicing
- USB port for easy and fast commissioning and data extraction
- Full graphical display with multi-languages support
- Built-in Simulation Mode
- 384 event logs
- Communication options available
- Fire Mode Function
- Starts per hour count

Description	Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
EMX4e, 24A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0024B-511**	*	Built - In
EMX4e, 42A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0042B-511**	*	
EMX4e, 52A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0052B-511**	*	
EMX4e, 64A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0064B-511**	*	
EMX4e, 69A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0069B-511**	*	
EMX4e, 105A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0105B-511**	*	
EMX4e, 115A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0115B-511**	*	
EMX4e, 135A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0135B-511**	*	
EMX4e, 184A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0184B-511**	*	
EMX4e, 200A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0200B-511**	*	
EMX4e, 229A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0229B-511**	*	
EMX4e, 250A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0250B-511**	*	
EMX4e, 352A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0352B-511**	*	
EMX4e, 397A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0397B-511**	*	
EMX4e, 410A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0410B-511**	*	
EMX4e, 550A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0550B-511**	*	
EMX4e, 580A, Main 200-525Vac, CTR 110-240Vac	**EMX4e-0580B-511**	*	

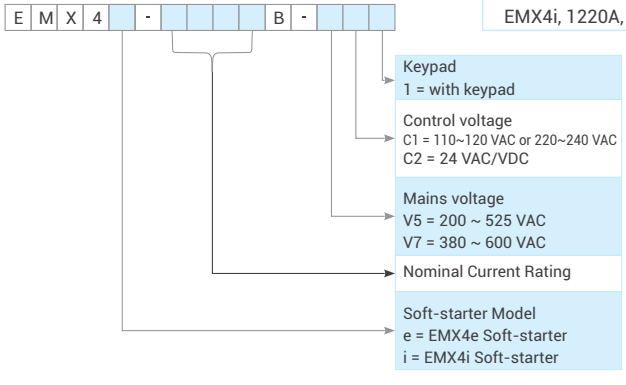
EMX4i Soft Starters

(Available till stock last)

- Range: 24A to 1250A
- Built in bypass contactor
- Compact & Flexible Design
- Screw-less design for easy and fast servicing
- USB port for easy and fast commissioning and data extraction
- Full graphical display with multi-languages support
- Real time graphs of motor operating performance
- 384 event logs with time stamping
- Advanced protection system
- Communication options available
- Smart card for level controlled pump activation and pump protection
- Under Voltage / Over Voltage protection available
- Fire Mode Function
- Starts per hour count
- Power through function available
- Scheduling based on RTC

Description	Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
EMX4i, 24A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0024B-511**	*	Built - In
EMX4i, 42A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0042B-511**	*	
EMX4i, 52A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0052B-511**	*	
EMX4i, 64A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0064B-511**	*	
EMX4i, 69A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0069B-511**	*	
EMX4i, 105A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0105B-511**	*	
EMX4i, 115A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0115B-511**	*	
EMX4i, 135A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0135B-511**	*	
EMX4i, 184A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0184B-511**	*	
EMX4i, 200A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0200B-511**	*	
EMX4i, 229A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0229B-511**	*	
EMX4i, 250A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0250B-511**	*	
EMX4i, 352A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0352B-511**	*	
EMX4i, 397A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0397B-511**	*	
EMX4i, 410A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0410B-511**	*	
EMX4i, 550A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0550B-511**	*	
EMX4i, 580A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0580B-511**	*	
EMX4i, 835A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0835B-511**	*	
EMX4i, 940A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0940B-511**	*	
EMX4i, 1070A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-1070B-511**	*	
EMX4i, 1230A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-1230B-511**	*	
EMX4i, 1250A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-1250B-511**	*	
EMX4i, 735A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0735C-511**	*	External bypass contactor (AC1 rating)
EMX4i, 830A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-0830C-511**	*	
EMX4i, 1025A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-1025C-511**	*	All protections remain active during bypass operation
EMX4i, 1170A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-1170C-511**	*	
EMX4i, 1220A, Main 200-525Vac, CTR 110-240Vac	**EMX4i-1220C-511**	*	

Ordering Information for **EMX4** Soft Starter



Note

* EMX4e & EMX4i Soft starters will be available till stock last, for prices and alternate model please contact nearest branch office.
Soft Starters are covered under HSN code 8504 40 90 and are charged at 18% GST.

We recommend the use of

1. Line Contactor : This will isolate and protect the soft starter SCR's from any voltage transient while it's not in operation.
2. Semiconductor fuses : This will protect the starter SCR's during starting and stopping states from current transient's and excess I^2T.
3. Bypass Contactor (For models without built-in bypass) : This will bypass and protect the soft starter SCR's while in running state from Current and Voltage transient's.

CSX Soft Starters
(Available till stock last)

Motor kW	Cat. No.	M.R.P. (₹) Per Unit
7.5	**CSX-007-41**	*
15	**CSX-015-41**	*
18	**CSX-018-41**	*
22	**CSX-022-41**	*
30	**CSX-030-41**	*
37	**CSX-037-41**	*
45	**CSX-045-41**	*
55	**CSX-055-41**	*
75	**CSX-075-41**	*
90	**CSX-090-41**	*
110	**CSX-110-41**	*

CSXi Soft Starters
(Available till stock last)

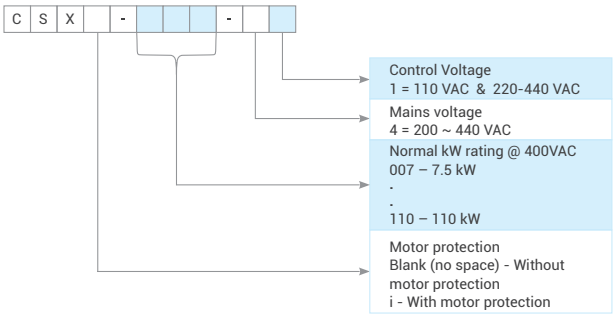
Motor kW	Cat. No.	M.R.P. (₹) Per Unit
7.5	**CSXi-007-41**	*
15	**CSXi-015-41**	*
18	**CSXi-018-41**	*
22	**CSXi-022-41**	*
30	**CSXi-030-41**	*
37	**CSXi-037-41**	*
45	**CSXi-045-41**	*
55	**CSXi-055-41**	*
75	**CSXi-075-41**	*
90	**CSXi-090-41**	*
110	**CSXi-110-41**	*

Note:

* CSX & CSXi Soft starters will be available till stock last, for prices and alternate model please contact nearest branch office.

The above CSX & CSXi ratings are based on 400% starting current, 10 starts per hour up to 30kW & 6 starts per hour for 37kW & above, 6 seconds starting time and ambient temperature of 45°C. For proper sizing of soft starter based on the application parameters please use Winstart Software.

Ordering Information for **CSX** Series Soft Starter



Optional Modules/Cards for CSX / CSXi / EMX4
(Available till stock last)

Description	Cat. No.	M.R.P. (₹) Per Unit
Modbus Interface	**PIM-MB-01**	*
Profibus Interface	**PIM-PB-01**	*
DeviceNet Interface	**PIM-DN-01**	*
USB Interface	**PIM-USB-01**	*
Modbus TCP Module	**PIM-MT-03**	*
Ethernet IP Module	**PIM-EI-02**	*
Profinet Module	**PIM-PN-02**	*
DeviceNet Card, EMX4	**PIC-DN-01**	*
Ethernet IP Card, EMX4	**PIC-EI-03**	*
Modbus RTU Card, EMX4	**PIC-MB-01**	*
Modbus TCP Card, EMX4	**PIC-MT-03**	*
Profibus Card, EMX4	**PIC-PB-01**	*
Profinet Card, EMX4	**PIC-PN-03**	*
Remote Keypad Card, EMX4	**PIC-RC-01**	*
Remote Keypad Card & Keypad EMX4	**PIC-RC-02**	*
Remote Keypad with cable & mounting kit, EMX4	**PIC-RK-01**	*
Smart Control Card Pump Application, EMX4	**SCC-PC-01**	*
Ground Fault + Ethernet IP Card EMX4	**PIC-EI-02**	*
Ground Fault + Modbus RTU Card EMX4	**PIC-MB-02**	*
Ground Fault + Modbus TCP Card EMX4	**PIC-MT-02**	*
Ground Fault + Profinet Card EMX4	**PIC-PN-02**	*

CSX Soft Starters : For Standard Applications

- Inbuilt Bypass Contactor
- Soft Start / Soft Stop
- Compact
- Complements existing motor protection
- Truly plug & play
- Communication options available

CSXi Soft Starters : For standard applications

- Inbuilt Bypass Contactor
- Soft start / Soft stop / Adjustable current limit
- Essential motor protections against
  - Overload
  - Single phasing
  - Instantaneous overcurrent
  - Phase sequence reversal
  - Abnormality in supply
  - Unbalanced current
- Thermistor protection through PTC
- Excess start time setting
- Communication options available
- PC Interface as optional

We recommend the use of :

1. Line Contactor : This will isolate and protect the soft starter SCR's from any voltage transient while it's not in operation.
2. Bypass Contactor (For models without built-in bypass) : This will bypass and protect the soft starter SCR's while in running state from Current and Voltage transient's.
3. Semiconductor fuses : This will protect the starter SCR's during starting and stopping states from current transient's and excess I^2T.

Note

* For prices please contact nearest branch office.
Soft Starters are covered under HSN code 8504 40 90 and are charged at 18% GST.

xS4000 Soft Starters

- Range: 24A to 1250A
- Built in bypass contactor
- Compact & Flexible Design
- Screw-less design for easy and fast servicing
- USB port for easy and fast commissioning and data extraction
- Full graphical display with multi-languages support
- Real time graphs of motor operating performance
- 384 event logs with time stamping
- Advanced protection system
- Communication options available
- Smart card for level controlled pump activation and pump protection
- Under Voltage / Over Voltage protection available
- Fire Mode Function
- Starts per hour count
- Power through function available
- Scheduling based on RTC

Description	Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
xS4000,24A,M:200-525VAC,C:110/220VAC	**XS4000-0024-B52211**	*	Built - In
xS4000,42A,M:200-525VAC,C:110/220VAC	**XS4000-0042-B52211**	*	
xS4000,52A,M:200-525VAC,C:110/220VAC	**XS4000-0052-B52211**	*	
xS4000,64A,M:200-525VAC,C:110/220VAC	**XS4000-0064-B52211**	*	
xS4000,69A,M:200-525VAC,C:110/220VAC	**XS4000-0069-B52211**	*	
xS4000,105A,M:200-525VAC,C:110/220VAC	**XS4000-0105-B52211**	*	
xS4000,115A,M:200-525VAC,C:110/220VAC	**XS4000-0115-B52211**	*	
xS4000,135A,M:200-525VAC,C:110/220VAC	**XS4000-0135-B52211**	*	
xS4000,184A,M:200-525VAC,C:110/220VAC	**XS4000-0184-B52211**	*	
xS4000,200A,M:200-525VAC,C:110/220VAC	**XS4000-0200-B52211**	*	
xS4000,229A,M:200-525VAC,C:110/220VAC	**XS4000-0229-B52211**	*	
xS4000,250A,M:200-525VAC,C:110/220VAC	**XS4000-0250-B52211**	*	
xS4000,352A,M:200-525VAC,C:110/220VAC	**XS4000-0352-B52211**	*	
xS4000,397A,M:200-525VAC,C:110/220VAC	**XS4000-0397-B52211**	*	
xS4000,410A,M:200-525VAC,C:110/220VAC	**XS4000-0410-B52211**	*	
xS4000,550A,M:200-525VAC,C:110/220VAC	**XS4000-0550-B52211**	*	
xS4000,580A,M:200-525VAC,C:110/220VAC	**XS4000-0580-B52211**	*	
xS4000,835A,M:200-525VAC,C:110/220VAC	**XS4000-0835-B52211**	*	
xS4000,940A,M:200-525VAC,C:110/220VAC	**XS4000-0940-B52211**	*	
xS4000,1070A,M:200-525VAC,C:110/220VAC	**XS4000-1070-B52211**	*	
xS4000,1230A,M:200-525VAC,C:110/220VAC	**XS4000-1230-B52211**	*	
xS4000,1250A,M:200-525VAC,C:110/220VAC	**XS4000-1250-B52211**	*	
xS4000,735A,M:200-525VAC,C:110/220VAC	**XS4000-0735-C52211**	*	External bypass contactor (AC1 rating) All protections remain active during bypass operation
xS4000,830A,M:200-525VAC,C:110/220VAC	**XS4000-0830-C52211**	*	
xS4000,1025A,M:200-525VAC,C:110/220VAC	**XS4000-1025-C52211**	*	
xS4000,1170A,M:200-525VAC,C:110/220VAC	**XS4000-1170-C52211**	*	
xS4000,1220A,M:200-525VAC,C:110/220VAC	**XS4000-1220-C52211**	*	

xS3000 Soft Starters

- Range: 24A to 580A
- Built in bypass contactor
- Compact & Flexible Design
- Screw-less design for easy and fast servicing
- USB port for easy and fast commissioning and data extraction
- Full graphical display with multi-languages support
- Built-in Simulation Mode
- 384 event logs
- Communication options available
- Fire Mode Function
- Starts per hour count

Description	Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
xS3000,24A,M:200-525VAC,C:110/220VAC	**XS3000-0024-B52211**	*	Built - In
xS3000,42A,M:200-525VAC,C:110/220VAC	**XS3000-0042-B52211**	*	
xS3000,52A,M:200-525VAC,C:110/220VAC	**XS3000-0052-B52211**	*	
xS3000,64A,M:200-525VAC,C:110/220VAC	**XS3000-0064-B52211**	*	
xS3000,69A,M:200-525VAC,C:110/220VAC	**XS3000-0069-B52211**	*	
xS3000,105A,M:200-525VAC,C:110/220VAC	**XS3000-0105-B52211**	*	
xS3000,115A,M:200-525VAC,C:110/220VAC	**XS3000-0115-B52211**	*	
xS3000,135A,M:200-525VAC,C:110/220VAC	**XS3000-0135-B52211**	*	
xS3000,184A,M:200-525VAC,C:110/220VAC	**XS3000-0184-B52211**	*	
xS3000,200A,M:200-525VAC,C:110/220VAC	**XS3000-0200-B52211**	*	
xS3000,229A,M:200-525VAC,C:110/220VAC	**XS3000-0229-B52211**	*	
xS3000,250A,M:200-525VAC,C:110/220VAC	**XS3000-0250-B52211**	*	
xS3000,352A,M:200-525VAC,C:110/220VAC	**XS3000-0352-B52211**	*	
xS3000,397A,M:200-525VAC,C:110/220VAC	**XS3000-0397-B52211**	*	
xS3000,410A,M:200-525VAC,C:110/220VAC	**XS3000-0410-B52211**	*	
xS3000,550A,M:200-525VAC,C:110/220VAC	**XS3000-0550-B52211**	*	
xS3000,580A,M:200-525VAC,C:110/220VAC	**XS3000-0580-B52211**	*	

xS	nnnn	-	1234	-	B	V	C	D	F	F

xS	**Soft starters**	
nnnn	**Soft starter Name**	
	3000	xS3000
	4000	xS4000
1234	**Current Rating**	
	1234	Nominal Current Rating
B	**Bypass Type**	
	B	Internal Bypass
	C	Continuous / External Bypass
V	**Mains Voltage**	
	5	3Ph, 200-525VAC
	6	3Ph, 380-600VAC
	7	3Ph, 380-690VAC

C	**Control Voltage**	
	1	24V AC/DC
	2	110-120/220-240V AC
D	**Graphical Display**	
	2	Fixed Graphical Display
F	**Future Use**	
	1	Future Use
F	**Future Use**	
	1	Future Use

Note:

* For prices please contact nearest branch office
Prices for 1000V and External Bypass soft starter below 735A available on request Soft Starters are covered under HSN code 8504 40 90 and are charged at 18% GST.

We recommend the use of :

1. Line Contactor : This will isolate and protect the soft starter SCR's from any voltage transient while it's not in operation.
2. Semiconductor fuses : This will protect the starter SCR's during starting and stopping states from current transient's and excess I^2T.
3. Bypass Contactor (For models without built-in bypass) : This will bypass and protect the soft starter SCR's while in running state from Current and Voltage transient's.

xS2000 Soft Starters

Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
XS2000-0018-B44111	*	Built - In
XS2000-0034-B44111	*	
XS2000-0042-B44111	*	
XS2000-0048-B44111	*	
XS2000-0060-B44111	*	
XS2000-0075-B44111	*	
XS2000-0085-B44111	*	
XS2000-0100-B44111	*	
XS2000-0140-B44111	*	
XS2000-0170-B44111	*	
XS2000-0200-B44111	*	

xS1000 Soft Starters

Cat. No.	M.R.P. (₹) Per Unit	Bypass Contactor
XS1000-0018-B44111	*	Built - In
XS1000-0034-B44111	*	
XS1000-0042-B44111	*	
XS1000-0048-B44111	*	
XS1000-0060-B44111	*	
XS1000-0075-B44111	*	
XS1000-0085-B44111	*	
XS1000-0100-B44111	*	
XS1000-0140-B44111	*	
XS1000-0170-B44111	*	
XS1000-0200-B44111	*	

xS1000 Soft Starters: For Standard Applications

- Inbuilt Bypass Contactor
- Soft Start / Soft Stop
- Compact
- Complements existing motor protection
- Truly plug & play
- Communication options available

xS2000 Soft Starters: For standard applications

- Inbuilt Bypass Contactor
- Soft start / Soft stop / Adjustable current limit
- Essential motor protections against
  - » Overload
  - » Single phasing
  - » Instantaneous overcurrent
  - » Phase sequence reversal
  - » Abnormality in supply
  - » Unbalanced current
- Thermistor protection through PTC
- Excess start time setting
- Communication options available
- PC Interface as optional

Note:

* For prices please contact nearest branch office

The above xS1000 & xS2000 ratings are based on 400% starting current, 10 starts per hour up to 60A & 6 starts per hour for 75A & above, 6 seconds starting time and ambient temperature of 45°C.

For proper sizing of soft starter based on the application parameters please use Winstart Software.

Optional Modules/Cards for xS Series

Description	Cat. No.	M.R.P. (₹) Per Unit
xS1000 & xS2000 Modbus RTU Card	XSCI-RTU-121	*
xS1000 & xS2000 Modbus TCP Card	XSCI-TCP-123	*
xS1000 & xS2000 Profibus Card	XSCI-PDP-121	*
xS1000 & xS2000 Profinet Card	XSCI-PFN-122	*
xS1000 & xS2000 Ethernet Card	XSCI-ETH-122	*
xS1000 & xS2000 DeviceNet Card	XSCI-DEN-121	*
xS1000 & xS2000 USB Interface Card	XSCI-USB-121	*
xS1000 & xS2000 Operator interface Card	XSOP-DOC-100	*
xS1000 & xS2000 Digital Operator Kit	XSOP-DOK-100	*
xS3000 and xS4000 Modbus RTU Card	XSCI-RTU-341	*
xS3000 and xS4000 Modbus RTU + GF Card	XSCI-RTU-342	*
xS3000 and xS4000 Modbus TCP + GF Card	XSCI-TCP-343	*
xS3000 and xS4000 Profibus Card	XSCI-PDP-341	*
xS3000 and xS4000 Profinet + GF Card	XSCI-PFN-343	*
xS3000 and xS4000 Ethernet + GF Card	XSCI-ETH-343	*
xS3000 and xS4000 DeviceNet Card	XSCI-DEN-341	*
xS3000 and xS4000 Operator & Cable	XSOP-DOP-200	*
xS3000 and xS4000 Operator Interface Card	XSOP-DOC-200	*
xS3000 and xS4000 Digital Operator Kit	XSOP-DOK-200	*
xS3000 and xS4000 Pumping Smart Card	XSSC-PSC-341	*

Ordering Information for **xS1000 & xS2000** Series Soft Starter

xS	nnnn	-	1234	-	B	V	C	D	F	F

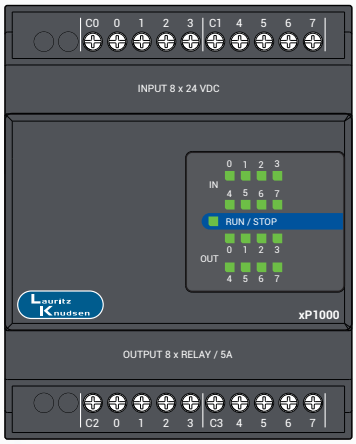
xS	**Soft starters**
nnnn	**Soft starter Name**
	1000 xS1000
	2000 xS2000
1234	**Current Rating**
	1234 Nominal Current Rating
B	**Bypass Type**
	B Internal Bypass
V	**Mains Voltage**
	4 3Ph, 200-440VAC
	5 3Ph, 200-575VAC
C	**Control Voltage**
	1 24V AC/DC
	4 110/230-440V AC
D	**Graphical Display**
	1 No Graphical Display
F	**Future Use**
	1 Future Use
F	**Future Use**
	1 Future Use

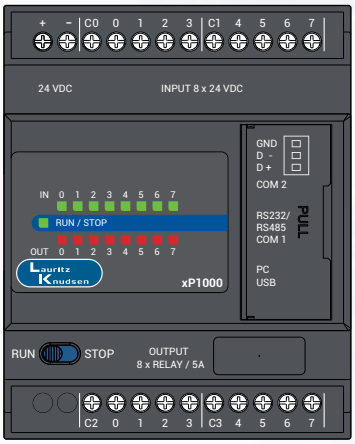
We recommend the use of :

1. Line Contactor : This will isolate and protect the soft starter SCR's from any voltage transient while it's not in operation.
2. Bypass Contactor (For models without built-in bypass) : This will bypass and protect the soft starter SCR's while in running state from Current and Voltage transient's.
3. Semiconductor fuses : This will protect the starter SCR's during starting and stopping states from current transient's and excess I^2T.

Note:

* For prices please contact nearest branch office
Soft Starters are covered under HSN code 8504 40 90 and are charged at 18% GST.





xP1000 PLC Features:

Main CPU

xP1000-MM1DR16AA11

- 8 Digital Inputs
- 24 V DC Power Supply
- 8 Digital Outputs (Relay Output) 5 A (Res.) @ 230 VAC / 30 VDC
- 2 Serial Communication Ports
  (COM1 - RS232/RS485, COM2 - RS485)
- 256KB User Program Memory, 8KB User Data Memory.
- Operating Temperature : 0°C to 55°C,
  Storage Temperature: - 40°C to 70°C

Expansion Modules:

Digital I/Os : xPEXPN-ME4DR16AA11

- Extension with 8 Digital Inputs and 8 Relay Outputs, Relay Load 5 A (Res.) @ 230 VAC / 30 VDC
- 24 V DC Power Supply

Analog Inputs : xPEXPN-ME2AX04AA11

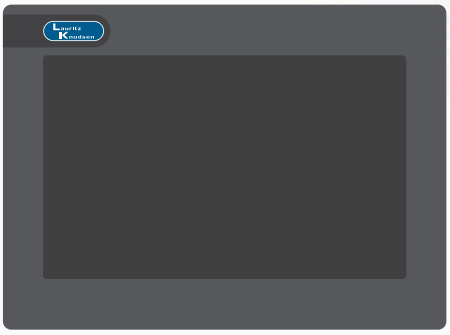
- Extension with 4 Analog Inputs (0-10V / 4-20mA)
- 24 V DC Power Supply

Analog Outputs: xPEXPN-ME3AY02AA11

- Extension with 2 Analog Outputs (0-10V / 4-20mA)
- 24 V DC Power Supply

4.3 inch

7 inch



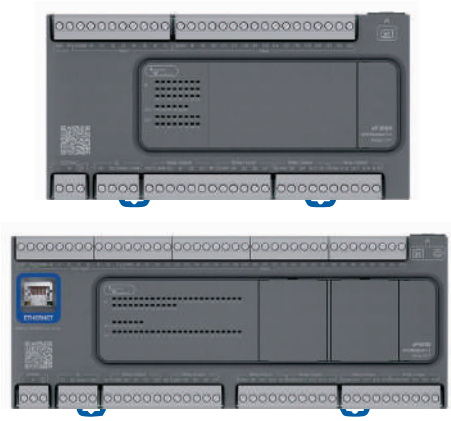
10.1 inch

xT1000 HMI Features:

- **HMI Size**
  4.3", 7" & 10.1" with colour TFT display options with & without Ethernet model
- **Touch Screen**
  Higher brightness level up to 440 cd/m2 & long backlight life up to 50000 hours for display
- **Protection**
  Shock & Vibration protection as per IEC Standard
- **CPU**
  Equipped with powerful CPU Cortex-M7 (600MHz)
- **Data Logging**
  Equipped with powerful CPU Cortex-M7 (600MHz)
- **Operating Temperature**
  Operation temperature range: 0 to 50 °C
- **Memory**
  RAM - 32 MB for all Models
- **Password Management**
  User access levels & application password management
- **Safety Standards**
  CE, RoHS Compliant, IP 65 protection for front panel with Class 2 Pollution Degree.
- **Memory**
  ROM - 32 MB for Serial models & 64 MB for with Ethernet model, ROM Expandable up to 4 GB via USB Stick/SD card
- **Picture Library**
  Inbuilt picture library with high resolution images

Programmable Logic Controller (PLC) [8537/8538]

xP Series



- AC / DC power supply
- Supports Upto 196 IOs, Relay and transistor outputs
- Flexible I/Os, 2 cartridges, and up to 4 expansions
- Ethernet and Serial line ports
- Micro-SD card slot and USB port
- 2 High speed counters, 2@100KHz
- 2 Pulse Outputs at 100kHz*2

Category		Description	Cat. No.	M.R.P. (₹) Per Unit
CPU	xP1000	xP1000 CPU, 8 DI,8 RO, 2 Serial Port	**xP1000-MM1DR16AA11**	*
	xP3000	xP3000, CPU, AC220, 09DI, 07DO RY	**xP3000-M1DR16AA111**	*
		xP3000, CPU, AC220, 14DI, 10DO RY	**xP3000-M1DR24AA111**	*
		xP3000, CPU, AC220, 20DI, 12DO RY	**xP3000-M1DR32AA111**	*
		xP3000, CPU, AC220, 24DI, 16DO RY	**xP3000-M1DR40AA111**	*
	xP5000	xP5000, CPU, AC220, 09DI, 07DO RY	**xP5000-M1DR16AA111**	*
		xP5000, CPU, DC24, 09DI, 07DO TN	**xP5000-M1DU16AA111**	*
		xP5000, CPU, DC24, 09DI, 07DO TP	**xP5000-M1DT16AA111**	*
		xP5000, CPU, AC220, 14DI, 10DO RY	**xP5000-M1DR24AA111**	*
		xP5000, CPU, DC24, 14DI, 10DO TN	**xP5000-M1DU24AA111**	*
		xP5000, CPU, DC24, 14DI, 10DO TP	**xP5000-M1DT24AA111**	*
		xP5000, CPU, AC220, 14DI, 10DO RY, Eth	**xP5000-M1DR24EA111**	*
		xP5000, CPU, DC24, 14DI, 10DO TN, Eth.	**xP5000-M1DU24EA111**	*
		xP5000, CPU, DC24, 14DI, 10DO TP, Eth	**xP5000-M1DT24EA111**	*
		xP5000, CPU, AC220, 20DI, 12DO RY	**xP5000-M1DR32AA111**	*
		xP5000, CPU, DC24, 20DI, 12DO TN	**xP5000-M1DU32AA111**	*
		xP5000, CPU, DC24, 20DI,12DO TP	**xP5000-M1DT32AA111**	*
		xP5000, CPU, AC220, 20DI, 12DO RY, Eth	**xP5000-M1DR32EA111**	*
		xP5000, CPU, AC220, 24DI, 16DO RY,	**xP5000-M1DR40AA111**	*
		xP5000, CPU, DC24, 24DI, 16DO TN	**xP5000-M1DU40AA111**	*
		xP5000, CPU, DC24, 24DI, 16DO TP	**xP5000-M1DT40AA111**	*
		xP5000, CPU, AC220, 24DI, 16DO RY, Eth	**xP5000-M1DR40EA111**	*
		xP5000, CPU, DC24, 24DI, 16DO TN, Eth.	**xP5000-M1DU40EA111**	*
		xP5000, CPU, DC24, 24DI, 16DO TP, Eth	**xP5000-M1DT40EA111**	*
		xP5000, CPU, AC220, 36DI, 24DO RY	**xP5000-M1DR60AA111**	*
		xP5000, CPU, AC220, 36DI, 24DO RY, 1 Eth	**xP5000-M1DR60EA111**	*

Note: * For prices please contact nearest branch office

Human Machine Interface (HMI) [8537]

xT Series

- Wide Range upto 15" in size
- Application Memory: FLASH EPROM / Screen area: 64MB/User font area 8 MB / Logic program area: 132KB
- Backup Memory: Screen Area: SRAM 320KB,Variable Area: SRAM 64KB
- Various Communication Interface: Ethernet /RS-232C / RS-422/485
- USB host and device
- SD memory card interface
- Certificates: CE, RoHS

Category		Description	Cat. No.	M.R.P. (₹) Per Unit
HMI	xT1000	xT1000 series, 4" TFT, Serial,2 Port	**xT1000-E104SDAAA1**	*
		xT1000 series, 4" TFT, Serial,2 Port, 1 Eth Port	**xT1000-E104EDAAA1**	*
		xT1000 series, 7" TFT, Serial,2 Port	**xT1000-E107SDAAA1**	*
		xT1000 series, 7" TFT, Serial,2 Port, 1 Eth Port	**xT1000-E107EDAAA1**	*
		xT1000 series, 10" TFT, Serial,2 Port	**xT1000-E110SDAAA1**	*
		xT1000 series, 10" TFT, Serial,2 Port, 1 Eth Port	**xT1000-E110EDAAA1**	*
	xTE6000	xTE6000 Series 7 " HMI, DC 24V, Eth.	**xTE6000-07EDAA1**	*
		xTE6000 Series 10 " HMI, DC 24V, Eth.	**xTE6000-10EDAA1**	*
		xTE6000 Series 12 " HMI, DC 24V, Eth.	**xTE6000-12EDAA1**	*
		xTE6000 Series 15 " HMI, DC 24V, Eth.	**xTE6000-15EDAA1**	*
	xTS6000	xTS6000 Series 04" Advance HMI, DC 24V, Eth.	**xTS6000-04EDAA1**	*
		xTS6000 Series 07" Advance HMI, DC 24V, Eth.	**xTS6000-07EDAA1**	*
		xTS6000 Series 10" Advance HMI, DC 24V, Eth.	**xTS6000-10EDAA1**	*
		xTS6000 Series 12" Advance HMI, DC 24V, Eth.	**xTS6000-12EDAA1**	*
		xTS6000 Series 15" Advance HMI, DC 24V, Eth.	**xTS6000-15EDAA1**	*

Note: * For prices please contact nearest branch office

Experience the robust performance of our ACCL

Single Phase ACCL

Mains rating : 30A

Genset rating : 1A to 30A

Three Phase ACCL
With MCX contactors inside

Range : 32A to 125A

CE

Settable overload current limit at DG side

Separate power consumption monitoring for Mains & Genset

Settable TPN / SPN mode for three phase and single phase DG supply

To Experience Scan or Click

Customer Interaction Center (CIC)
Phone no: 022-6932 7800
Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

Miniature Circuit Breaker (MCB) [8536]

Range Highlights

- True contact indication for individual pole
- Label holder facility for all configurations
- Conforms to IS/IEC 60898 - 10kA
- Conforms to IEC 60947 - 2
  - » 15kA C-curve till 40 A
  - » 10kA C-curve for 50A, 63A
- Available in B, C & D curves
- Low watt loss - almost 50% of the values prescribed by IS/IEC 60898
- Trip free mechanism
- Design based on advanced current limiting hammer trip mechanism
- No Line-Load bias
- Bi connect feature on both sides
- Suitable for accessory fitment

Rating	Modules 1 Mod = 17.5 mm	B-Curve Cat. No.	M.R.P. (₹) Per Unit	C-Curve Cat. No.	M.R.P. (₹) Per Unit	D-Curve Cat. No.	M.R.P. (₹) Per Unit
Single Pole (SP)							
0.5A	1	-	-	BB10E50C	480	BB10E50D	485
1A	1	-	-	BB10010C	480	BB10010D	485
2A	1	-	-	BB10020C	480	BB10020D	485
3A	1	-	-	BB10030C	480	BB10030D	485
4A	1	-	-	BB10040C	480	BB10040D	485
6A	1	BB10060B	294	BB10060C	294	BB10060D	405
10A	1	BB10100B	294	BB10100C	294	BB10100D	405
16A	1	BB10160B	294	BB10160C	294	BB10160D	405
20A	1	BB10200B	294	BB10200C	294	BB10200D	405
25A	1	BB10250B	294	BB10250C	294	BB10250D	405
32A	1	BB10320B	294	BB10320C	294	BB10320D	405
40A	1	BB10400B	675	BB10400C	675	BB10400D	730
50A	1	BB10500B	675	BB10500C	675	BB10500D*	730
63A	1	BB10630B	675	BB10630C	675	BB10630D*	730
Double Pole (DP)							
0.5A	2	-	-	BB20E50C	1355	BB20E50D	1375
1A	2	-	-	BB20010C	1355	BB20010D	1375
2A	2	-	-	BB20020C	1355	BB20020D	1375
3A	2	-	-	BB20030C	1355	BB20030D	1375
4A	2	-	-	BB20040C	1355	BB20040D	1375
6A	2	BB20060B	970	BB20060C	970	BB20060D	1000
10A	2	BB20100B	970	BB20100C	970	BB20100D	1000
16A	2	BB20160B	970	BB20160C	970	BB20160D	1000
20A	2	BB20200B	970	BB20200C	970	BB20200D	1000
25A	2	BB20250B	970	BB20250C	970	BB20250D	1000
32A	2	BB20320B	970	BB20320C	970	BB20320D	1000
40A	2	BB20400B	1565	BB20400C	1565	BB20400D	1635
50A	2	BB20500B	1565	BB20500C	1565	BB20500D*	1635
63A	2	BB20630B	1565	BB20630C	1565	BB20630D*	1635
Three Pole (TP)							
0.5A	3	-	-	BB30E50C	1970	BB30E50D	2000
1A	3	-	-	BB30010C	1970	BB30010D	2000
2A	3	-	-	BB30020C	1970	BB30020D	2000
3A	3	-	-	BB30030C	1970	BB30030D	2000
4A	3	-	-	BB30040C	1970	BB30040D	2000
6A	3	BB30060B	1530	BB30060C	1530	BB30060D	1595
10A	3	BB30100B	1530	BB30100C	1530	BB30100D	1595
16A	3	BB30160B	1530	BB30160C	1530	BB30160D	1595
20A	3	BB30200B	1530	BB30200C	1530	BB30200D	1595
25A	3	BB30250B	1530	BB30250C	1530	BB30250D	1595
32A	3	BB30320B	1530	BB30320C	1530	BB30320D	1595
40A	3	BB30400B	2360	BB30400C	2360	BB30400D	2470
50A	3	BB30500B	2360	BB30500C	2360	BB30500D*	2470
63A	3	BB30630B	2360	BB30630C	2360	BB30630D*	2470

Note: Standard Pack Quantity for MCB : SP - 12 Nos., DP - 6 Nos., TP - 4 Nos., FP - 3 Nos.

*For details, please contact nearest branch office

Miniature Circuit Breaker (MCB) [8536]

Rating	Modules 1 Mod = 17.5 mm	B-Curve Cat. No.	M.R.P. (₹) Per Unit	C-Curve Cat. No.	M.R.P. (₹) Per Unit	D-Curve Cat. No.	M.R.P. (₹) Per Unit
Four Pole (FP)							
0.5A	4	-	-	**BB40E50C**	**2480**	**BB40E50D**	**2485**
1A	4	-	-	**BB40010C**	**2480**	**BB40010D**	**2485**
2A	4	-	-	**BB40020C**	**2480**	**BB40020D**	**2485**
3A	4	-	-	**BB40030C**	**2480**	**BB40030D**	**2485**
4A	4	-	-	**BB40040C**	**2480**	**BB40040D**	**2485**
6A	4	**BB40060B**	**2095**	**BB40060C**	**2095**	**BB40060D**	**2150**
10A	4	**BB40100B**	**2095**	**BB40100C**	**2095**	**BB40100D**	**2150**
16A	4	**BB40160B**	**2095**	**BB40160C**	**2095**	**BB40160D**	**2150**
20A	4	**BB40200B**	**2095**	**BB40200C**	**2095**	**BB40200D**	**2150**
25A	4	**BB40250B**	**2095**	**BB40250C**	**2095**	**BB40250D**	**2150**
32A	4	**BB40320B**	**2095**	**BB40320C**	**2095**	**BB40320D**	**2150**
40A	4	**BB40400B**	**2970**	**BB40400C**	**2970**	**BB40400D**	**3185**
50A	4	**BB40500B**	**2970**	**BB40500C**	**2970**	**BB40500D***	**3185**
63A	4	**BB40630B**	**2970**	**BB40630C**	**2970**	**BB40630D***	**3185**

Note: Standard Pack Quantity for MCB : SP - 12 Nos., DP - 6 Nos., TP - 4 Nos., FP - 3 Nos.
*For details, please contact nearest branch office

MCBs (Miniature Circuit Breakers) : 80A-125A [8536]

Range Highlights

- Short circuit Breaking Capacity - 15kA (IEC 60947-2, EN 60947-2)
- C & D Characteristics
- Available in SP, DP, TP and FP
- Suitable for Isolation
- Protection Degree - IP 20
- Availability of wide Range of Site Mountable Accessories

Rating	Modules 1 Mod = 17.5 mm	C Curve Cat. No.	M.R.P. (₹) Per Unit	D Curve Cat. No.	M.R.P. (₹) Per Unit
Single Pole (SP)					
80A	1.5	**AU15S10803C**	**2710**	**AU15S10803D**	**3085**
100A	1.5	**AU15S11003C**	**3035**	**AU15S11003D**	**3450**
125A	1.5	**AU15S11253C**	**3265**	**AU15S11253D**	**3730**
Double Pole (DP)					
80A	3	**AU15S20803C**	**6005**	**AU15S20803D**	**6835**
100A	3	**AU15S21003C**	**6405**	**AU15S21003D**	**7285**
125A	3	**AU15S21253C**	**7050**	**AU15S21253D**	**8015**
Three Pole (TP)					
80A	4.5	**AU15S30803C**	**9475**	**AU15S30803D**	**10790**
100A	4.5	**AU15S31003C**	**10105**	**AU15S31003D**	**11485**
125A	4.5	**AU15S31253C**	**11210**	**AU15S31253D**	**12740**
Four Pole (FP)					
80A	6	**AU15S40803C**	**12375**	**AU15S40803D**	**14050**
100A	6	**AU15S41003C**	**12870**	**AU15S41003D**	**14645**
125A	6	**AU15S41253C**	**14575**	**AU15S41253D**	**16565**

Solar Combo MCBs [8536]

(AC MCB + DC MCB)

AC MCB^ with C-Curve

Description	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
1 AC 16A DP MCB^ + 1 DC 16A DP 500V MCB	2+2	**SC221616**	**1805**
New 1 AC 20A DP MCB^ + 1 DC 25A DP 500V MCB	2+2	**SC222020**	**1805**
New 1 AC 20A DP MCB^ + 1 DC 20A DP 500V MCB	2+2	**SC222025**	**1805**
1 AC 25A DP MCB^ + 1 DC 16A DP 500V MCB	2+2	**SC222516**	**1805**
New 1 AC 25A DP MCB^ + 1 DC 25A DP 500V MCB	2+2	**SC222525**	**1805**
1 AC 32A DP MCB^ + 1 DC 16A DP 500V MCB	2+2	**SC223216**	**1805**
New 1 AC 32A DP MCB^ + 1 DC 25A DP 500V MCB	2+2	**SC223225**	**1805**
1 AC 32A DP MCB^ + 1 DC 32A DP 500V MCB	2+2	**SC223232**	**1805**

DC MCBs as per IEC 60947-2 [8536]

Rated Voltage:
Breaking capacity of 6 kA - BB Series DC MCBs

130V DC SP MCB

Rating	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
Single Pole (SP)			
0.5A	1	BB10E5DC	700
1A	1	BB1001DC	700
2A	1	BB1002DC	700
3A	1	BB1003DC	700
4A	1	BB1004DC	700
6A	1	BB1006DC	605
10A	1	BB1010DC	605
16A	1	BB1016DC	605
20A	1	BB1020DC	605
25A	1	BB1025DC	605
32A	1	BB1032DC	605
40A	1	BB1040DC	795
50A	1	BB1050DC	795
63A	1	BB1063DC	795

Rated Voltage:
Breaking capacity of 10 kA - BJ Series DC MCBs

250V DC SP MCB

Rating	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
Single Pole (SP)			
0.5A	1	BJ10E5DC	850
1A	1	BJ1001DC	850
2A	1	BJ1002DC	850
3A	1	BJ1003DC	850
4A	1	BJ1004DC	850
6A	1	BJ1006DC	695
10A	1	BJ1010DC	695
16A	1	BJ1016DC	695
20A	1	BJ1020DC	695
25A	1	BJ1025DC	695
32A	1	BJ1032DC	695
40A	1	BJ1040DC	960
New 50A	1	BJ1050DC	960
63A	1	BJ1063DC	960

250V DC DP MCB

0.5A	2	BB20E5DC	1495
1A	2	BB2001DC	1495
2A	2	BB2002DC	1495
3A	2	BB2003DC	1495
4A	2	BB2004DC	1495
6A	2	BB2006DC	1315
10A	2	BB2010DC	1315
16A	2	BB2016DC	1315
20A	2	BB2020DC	1315
25A	2	BB2025DC	1315
32A	2	BB2032DC	1315
40A	2	BB2040DC	1780
50A	2	BB2050DC	1780
63A	2	BB2063DC	1780

500V DC DP MCB

0.5A	2	BJ20E5DC	1775
1A	2	BJ2001DC	1775
2A	2	BJ2002DC	1775
3A	2	BJ2003DC	1775
4A	2	BJ2004DC	1775
6A	2	BJ2006DC	1500
10A	2	BJ2010DC	1500
16A	2	BJ2016DC	1500
20A	2	BJ2020DC	1500
25A	2	BJ2025DC	1500
32A	2	BJ2032DC	1500
40A	2	BJ2040DC	1910
New 50A	2	BJ2050DC	1910
63A	2	BJ2063DC	1910

Note: Standard Pack Quantity for MCB : SP - 12 Nos., DP - 6 Nos.

1000V DC MCBs [8536]

New

Rated Voltage:1000V DC
with breaking capacity of 6 kA - BK Series DC MCBs

Description	Modules 1 Mod = 17.5mm	Cat. No.	M.R.P. (₹) Per Unit
DP 6A 1000V DC 6kA MCB	4	BK2006DC	2355
DP 10A 1000V DC 6kA MCB	4	BK2010DC	2355
DP 16A 1000V DC 6kA MCB	4	BK2016DC	2355
DP 20A 1000V DC 6kA MCB	4	BK2020DC	2355
DP 25A 1000V DC 6kA MCB	4	BK2025DC	2355
DP 32A 1000V DC 6kA MCB	4	BK2032DC	2355
DP 40A 1000V DC 6kA MCB	4	BK2040DC	2860
DP 50A 1000V DC 6kA MCB	4	BK2050DC	2860
DP 63A 1000V DC 6kA MCB	4	BK2063DC	2860

Isolators [8536]

Range Highlights
- Conforms to IEC 60947-3
- Utilization category AC-22A
- Available in DP, TP and FP versions in 40A, 63A, 80A & 100A ratings

Rating	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
	Double Pole (DP)				Three Pole (TP)		Four Pole (FP)		
40A	2	**BF204000**	**590**	3	**BF304000**	**1030**	4	**BF404000**	**1330**
63A	2	**BF206300**	**760**	3	**BF306300**	**1200**	4	**BF406300**	**1390**
80A	2	**BF208000**	**970**	3	**BF308000**	**1315**	4	**BF408000**	**1560**
100A	2	**BF210000**	**1010**	3	**BF310000**	**1400**	4	**BF410000**	**1685**

Note: Standard Pack Quantity for Isolator : DP - 6 Nos., TP - 4 Nos., FP - 3 Nos.

RCCB (Residual Current Circuit Breaker) [8536]

Range Highlights
- Conforms to IS 12640 (Part 1) / IEC 61008-1
- RCCBs are available in DP and FP versions from 25 to 100A ratings with 30 mA, 100 mA and 300mA sensitivity

- Truly current operated - operation even at nominal Voltage
- Operates on Core Balance Current Transformer (CBCT) principle
- Advanced neutral mechanism

Rating	Sensitivity	Modules 1 Mod =17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
	Double Pole (DP)			
25A	30 mA	2	**BG202503**	**3315**
	100 mA	2	**BG202510**	**3445**
	300 mA	2	**BG202530**	**3445**
40A	30 mA	2	**BG204003**	**3720**
	100 mA	2	**BG204010**	**3940**
	300 mA	2	**BG204030**	**3940**
63A	30 mA	2	**BG206303**	**4640**
	100 mA	2	**BG206310**	**4755**
	300 mA	2	**BG206330**	**4755**
100A	30 mA	2	**BG210003**	**8100**
	100 mA	2	**BG210010**	**8200**
	300 mA	2	**BG210030**	**8200**

Rating	Sensitivity	Modules 1 Mod =17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
	Four Pole (FP)			
25A	30 mA	4	**BG402503**	**4340**
	100 mA	4	**BG402510**	**4455**
	300 mA	4	**BG402530**	**4455**
40A	30 mA	4	**BG404003**	**4380**
	100 mA	4	**BG404010**	**4530**
	300 mA	4	**BG404030**	**4530**
63A	30 mA	4	**BG406303**	**4955**
	100 mA	4	**BG406310**	**5195**
	300 mA	4	**BG406330**	**5195**
100A	30 mA	4	**BG410003**	**8555**
	100 mA	4	**BG410010**	**8700**
	300 mA	4	**BG410030**	**8700**

RCCBs (Residual Current Circuit Breakers) : Type-Adi (with Added immunity) [8536]

Range Highlights
- Wide Range of Current Ratings - 25A to 100A
- Precise Sensitivities for variety of applications - from 30mA to 300mA
- 2P & 4P versions
- Suitable for Isolation
- Protection Degree - IP 20
- Availability of wide Range of Site Mountable Accessories
- Type Adi: Suitable for AC + Pulsating DC (Type A) + Harmonics

Rating	Sensitivity	Modules 1 Mod = 17.5 mm	CAT Nos.	M.R.P. (₹) Per Unit
	2P Adi			
25A	30mA	2	**AURAD202503**	**5385**
	100mA	2	**AURAD202510**	**5630**
	300mA	2	**AURAD202530**	**5630**
40A	30mA	2	**AURAD204003**	**5715**
	100mA	2	**AURAD204010**	**5805**
	300mA	2	**AURAD204030**	**5805**
63A	30mA	2	**AURAD206303**	**6685**
	100mA	2	**AURAD206310**	**6810**
	300mA	2	**AURAD206330**	**6810**
100A	30mA	2	**AURAD210003**	**9875**

Rating	Sensitivity	Modules 1 Mod = 17.5 mm	CAT Nos.	M.R.P. (₹) Per Unit
	4P Adi			
25A	30mA	4	**AURAD402503**	**6510**
	100mA	4	**AURAD402510**	**6635**
	300mA	4	**AURAD402530**	**6635**
40A	30mA	4	**AURAD404003**	**6760**
	100mA	4	**AURAD404010**	**6865**
	300mA	4	**AURAD404030**	**6865**
63A	30mA	4	**AURAD406303**	**7360**
	100mA	4	**AURAD406310**	**7515**
	300mA	4	**AURAD406330**	**7515**
100A	30mA	4	**AURAD410003**	**11725**
	300mA	4	**AURAD410030**	**11725**

All-Rounder RCDs
(RCCB & RCBO)

Specially designed Adi RCDs ensure Safe and Reliable protection
for All Applications in AC networks with Pulsating DC along with Harmonics

Added Immunity

RCBOs (Residual Current Breaker with Overcurrent Protection) [8536]

Range Highlights*

- Conforms to IEC 61009-1, IS 12640-2, EN 61009-1
- Short circuit Breaking Capacity - 10kA
- Precise Sensitivities for a variety of applications
  - » from 10mA to 300mA
- Suitable for Isolation

- Availability of wide Range of Site Mountable Accessories
- Available in
  - » Type AC: For standard AC installations
  - » Type Adi: Suitable for AC + Pulsating DC (Type A) + Harmonics

Type-AC

Rating	Sensitivity	Modules 1 Mod = 17.5 mm	CAT Nos.	M.R.P. (₹) Per Unit
2P AC				
6A	10mA	2	**AUF3C200601**	**4980**
	30mA	2	**AUF3C200603**	**4980**
	100mA	2	**AUF3C200610**	**5085**
	300mA	2	**AUF3C200630**	**5145**
10A	10mA	2	**AUF3C201001**	**4980**
	30mA	2	**AUF3C201003**	**4980**
	100mA	2	**AUF3C201010**	**5085**
	300mA	2	**AUF3C201030**	**5145**
16A	10mA	2	**AUF3C201601**	**4980**
	30mA	2	**AUF3C201603**	**4980**
	100mA	2	**AUF3C201610**	**5085**
	300mA	2	**AUF3C201630**	**5145**
20A	30mA	2	**AUF3C202003**	**4980**
	100mA	2	**AUF3C202010**	**5085**
	300mA	2	**AUF3C202030**	**5145**
25A	30mA	2	**AUF3C202503**	**4980**
	100mA	2	**AUF3C202510**	**5085**
	300mA	2	**AUF3C202530**	**5145**
32A	30mA	2	**AUF3C203203**	**4980**
	100mA	2	**AUF3C203210**	**5085**
	300mA	2	**AUF3C203230**	**5145**
40A	30mA	2	**AUF3C204003**	**4980**
	100mA	2	**AUF3C204010**	**5085**
	300mA	2	**AUF3C204030**	**5145**
63A	30mA	4	**AUF3C206303**	**5940**
	100mA	4	**AUF3C206310**	**6300**
	300mA	4	**AUF3C206330**	**6350**
4P AC				
16A	30mA	7.5	**AUF3C401603**	**5370**
	100mA	7.5	**AUF3C401610**	**5980**
	300mA	7.5	**AUF3C401630**	**6100**
20A	30mA	7.5	**AUF3C402003**	**5370**
	100mA	7.5	**AUF3C402010**	**5980**
	300mA	7.5	**AUF3C402030**	**6100**
25A	30mA	7.5	**AUF3C402503**	**5370**
	100mA	7.5	**AUF3C402510**	**5980**
	300mA	7.5	**AUF3C402530**	**6100**
32A	30mA	7.5	**AUF3C403203**	**5545**
	100mA	7.5	**AUF3C403210**	**5985**
	300mA	7.5	**AUF3C403230**	**6115**
40A	30mA	7.5	**AUF3C404003**	**5635**
	100mA	7.5	**AUF3C404010**	**5985**
	300mA	7.5	**AUF3C404030**	**6135**
63A	30mA	7.5	**AUF3C406303**	**6750**
	100mA	7.5	**AUF3C406310**	**6875**
	300mA	7.5	**AUF3C406330**	**6875**
80A	30mA	12	**AUF3C408003**	**25685**
	100mA	12	**AUF3C408010**	**26260**
	300mA	12	**AUF3C408030**	**26260**
100A	30mA	12	**AUF3C410003**	**27460**
	100mA	12	**AUF3C410010**	**28115**
	300mA	12	**AUF3C410030**	**28115**

Type-Adi

Rating	Sensitivity	Modules 1 Mod = 17.5 mm	CAT Nos.	M.R.P. (₹) Per Unit
2P Adi				
6A	30mA	2	**AUF3D200603**	**6600**
	100mA	2	**AUF3D200610**	**7265**
	300mA	2	**AUF3D200630**	**7540**
10A	30mA	2	**AUF3D201003**	**6600**
	100mA	2	**AUF3D201010**	**7265**
	300mA	2	**AUF3D201030**	**7540**
16A	30mA	2	**AUF3D201603**	**6600**
	100mA	2	**AUF3D201610**	**7265**
	300mA	2	**AUF3D201630**	**7540**
20A	30mA	2	**AUF3D202003**	**6600**
	100mA	2	**AUF3D202010**	**7265**
	300mA	2	**AUF3D202030**	**7540**
25A	30mA	2	**AUF3D202503**	**6600**
	100mA	2	**AUF3D202510**	**7265**
	300mA	2	**AUF3D202530**	**7540**
32A	30mA	2	**AUF3D203203**	**6600**
	100mA	2	**AUF3D203210**	**7265**
	300mA	2	**AUF3D203230**	**7540**
40A	30mA	2	**AUF3D204003**	**6600**
	100mA	2	**AUF3D204010**	**7265**
	300mA	2	**AUF3D204030**	**7540**
63A	30mA	4	**AUF3D206303**	**7665**
	100mA	4	**AUF3D206310**	**8110**
	300mA	4	**AUF3D206330**	**8180**
4P Adi				
16A	30mA	7.5	**AUF3D401603**	**6925**
	100mA	7.5	**AUF3D401610**	**7705**
	300mA	7.5	**AUF3D401630**	**7860**
20A	30mA	7.5	**AUF3D402003**	**6925**
	100mA	7.5	**AUF3D402010**	**7705**
	300mA	7.5	**AUF3D402030**	**7860**
25A	30mA	7.5	**AUF3D402503**	**6925**
	100mA	7.5	**AUF3D402510**	**7705**
	300mA	7.5	**AUF3D402530**	**7860**
32A	30mA	7.5	**AUF3D403203**	**7150**
	100mA	7.5	**AUF3D403210**	**7710**
	300mA	7.5	**AUF3D403230**	**7870**
40A	30mA	7.5	**AUF3D404003**	**7255**
	100mA	7.5	**AUF3D404010**	**7710**
	300mA	7.5	**AUF3D404030**	**7905**
63A	30mA	7.5	**AUF3D406303**	**8695**
	100mA	7.5	**AUF3D406310**	**8870**
	300mA	7.5	**AUF3D406330**	**8870**
80A	30mA	12	**AUF3D408003**	**25685**
	100mA	12	**AUF3D408010**	**26260**
	300mA	12	**AUF3D408030**	**26260**
100A	30mA	12	**AUF3D410003**	**27460**
	100mA	12	**AUF3D410010**	**28115**
	300mA	12	**AUF3D410030**	**28115**

*For technical details, please contact nearest branch office

SPDs (Surge Protection Devices) [8536]

Range Highlights

- Conforms to IEC 61643-11
- Available in Type 2 and Type 1+2
- Type 2 : Protection against indirect lightning and switching surges
  - » Maximum Discharge Current - Imax up to 70kA
- Type 1+2 : Protection against direct and indirect lightning surges
  - » Maximum Discharge Current - Imax up to 100kA

New

800V Solar Application

Description	Configuration	Modules 1 Mod = 17.5 mm	Voltage (Uc)	Cat. No.	M.R.P. (₹) Per Unit
Type 2, I_{max} 40kA	3P	4	1500	**AUSP023P40-1500**	**12500**
Type 1+2, I_{imp} 12.5kA	3P	5	1360	**AUSP123P50-1360**	**41430**
Type 1+2, I_{imp} 12.5kA	3P	4	880	**AUSP123P50-880**	**30000**

440V Application (Common + Differential Mode)

Description	I_{max}	Configuration	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
Type 1+2, I_{imp} 12.5kA	50kA	1P+N	2	**AUSP121PN50D**	**10545**
		3P+N	4	**AUSP123PN50D**	**20195**
Type 2	40kA	1P+N	1	**AUSP021PN40D**	**6590**
		3P+N	2	**AUSP023PN40D**	**13170**
Type 2	15kA	1P+N	1	**AUSP021PN15D**	**5270**
		3P+N	2	**AUSP023PN15D**	**10370**
Type 1+2, I_{imp} 8kA	100kA	1P+N	2	**AUSP121PN100D**	**9480**
		3P+N	4	**AUSP123PN100D**	**18625**
Type 2	70kA	1P+N	2	**AUSP021PN70D**	**10350**
		3P+N	4	**AUSP023PN70D**	**17240**
Type 2	15kA	1P+N	1	**AUSP021PN15***	**5270**

*Available till stocks last

SPD Cartridges

Description	Cat. No.	M.R.P. (₹) Per Unit
Cartridge for AUSP021PN15D	**AUSC021PN15D**	**2640**
Cartridge for AUSP021PN40D	**AUSC021PN40D**	**3290**
Cartridge for AUSP021PN70D / AUSP023PN70D	**AUSC021PN70D**	**3520**
Cartridge for AUSP023PN15D#	**AUSC023PN15D**	**3455**
Cartridge for AUSP023PN40D#	**AUSC023PN40D**	**4395**
Cartridge for AUSP121PN100D / AUSP123PN100D	**AUSC121PN100D**	**5270**
Cartridge for AUSP121PN50D / AUSP123PN50D	**AUSC121PN50D**	**5690**
Cartridge for AUSP023PN15D#	**AUSC023PN15DG**	**4005**
Cartridge for AUSP023PN40D#	**AUSC023PN40DG**	**4180**

#For technical details, please contact nearest branch office

ACCL (Automatic Changeover with Current Limiter) [8536]

Single Phase ACCL

Range Highlights

- Conforms to IEC 60947-6, IEC 60947-3
- Wide Range of Current Ratings
  - » (Generator side) - 1A to 30A
  - » (Electricity Board side) - 30A
- RoHS compliant

Description EB/DG	Modules 1 Mod = 17.5 mm	CAT Nos.	M.R.P. (₹) Per Unit
30A/1A	4	**AUCL01030001**	**2505**
30A/1.5A	4	**AUCL010301E5**	**2505**
30A/2A	4	**AUCL01030002**	**2505**
30A/2.5A	4	**AUCL010302E5**	**2505**
30A/3A	4	**AUCL01030003**	**2505**
30A/4A	4	**AUCL01030004**	**2505**
30A/5A	4	**AUCL01030005**	**2505**
30A/6A	4	**AUCL01030006**	**2505**
30A/8A	4	**AUCL01030008**	**2505**
30A/10A	4	**AUCL01030010**	**2505**
30A/12A	4	**AUCL01030012**	**2505**
30A/15A	4	**AUCL01030015**	**2505**
30A/20A	4	**AUCL01030020**	**2505**
30A/30A	4	**AUCL01030030***	**2505**

*Non-current limiting variant

Three Phase ACCL

Range Highlights

- Settable overload current limit at DG side
- Separate power consumption monitoring for Mains & Genset
- Settable overvoltage & undervoltage protection
- Settable TPN or SPN mode at DG side
- Protection against single phasing

Description (AC-1) EB/DG	Cat. No.	M.R.P. (₹) Per Unit
32A / 32A	**AUCL03032032**	**11385**
40A / 32A	**AUCL03040032**	**11730**
40A / 40A	**AUCL03040040**	**12700**
50A / 50A	**AUCL03050050**	**18095**
63A / 50A	**AUCL03063050**	**19970**
63A / 63A	**AUCL03063063**	**22620**
80A / 80A	**AUCL03080080**	**34475**
125A / 125A	**AUCL03125125**	**58035**

For 3 Phase ACCL programming video please scan the QR code or click here

Changeover Switches [8536]

Range Highlights

- Conforms to IEC 60947-3 and IS/IEC 60947-3
- Available in 3 positions (I-O-II) with centre off position
- Utilization category AC-22A

Rating	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
Double Pole			
25A	2	**AUC00202500**	**1710**
40A	2	**AUC00204000**	**2615**
63A	3	**AUC00206300**	**3045**
Four Pole			
40A	4	**AUC00404000**	**4505**
63A	6	**AUC00406300**	**5110**

Control & Monitoring Devices

Modular Contactors [8536]

Range Highlights

- Wide Range of Current Ratings:
  - » 25A, 40A and 63A
- Conforms to :
  - » IEC 61095, EN 61095
  - » IEC 60947-4-1, EN 60947-4-1
  - » IEC 60947-5-1
- Protection Degree IP 20

Description (AC-1)	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
25A-1NO	1	**AUMC1002501**	**1900**
25A-2NO	1	**AUMC2002501**	**2380**
40A-2NO	3	**AUMC2004003**	**4075**
40A-3NO	3	**AUMC3004003**	**5840**
40A-4NO	3	**AUMC4004003**	**6850**
63A-2NO+2NC	3	**AUMC2206303**	**7240**
63A-3NO	3	**AUMC3006303**	**7420**
63A-4NO	3	**AUMC4006303**	**8170**
Accessory [8538]			
Auxiliary Contact, 2NO	0.5	**AUMCAUX240**	**1825**

Time Switches [9107]

Description	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
Analog time switch	1	**AUTS01ANA00***	**5110**
Analog time switch	3	**AUTS03ANA00***	**6215**
Digital time switch	2	**AUTS02DIG00*[1]**	**3955**
Astro time switch	2	**AUTS02AST00*[1]**	**6645**
Digital time switch	2	**67DDT0[#]**	**2430**
Astro time switch	2	**T2DDT7[#]**	**4635**

*Available till stocks last [#]Substitute products of 1 marked

Energy Meters [9030]

Range Highlights

- DIN mounting whole current operated meter
- Accuracy Class 1.0
- Inbuilt RS485 option
- **Parameters :** Voltage, Current, kW, kWh, kVA, kVAh, RPM, Load hours, Interruptions

Description	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
Single Phase - 60A	2	**WD401010OOOO**	**2895**
Three Phase - 80A	5	**WD402010OOOO**	**6275**
Single Phase - 60A (RS485)	2	**WD401011OOOO**	**4285**
Three Phase - 80A (RS485)	5	**WD402011OOOO**	**9465**

Accessories

Accessories [8538]

All Half Module and One Module Accessories are common for 80A-125A MCBs, RCBOs and Adi RCCBs

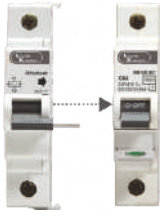
Description	Configuration	Modules 1 Mod = 17.5 mm	Voltage	CAT Nos.	M.R.P. (₹) Per Unit
Auxiliary Contact	1NO+1NC	0.5	240V AC, 24V DC	**AUAXAC240**	**1005**
AUX/TAC*	1NO+1NC	0.5	240V AC, 24V DC	**AUATAC240**	**1180**
HR AUX/TAC*	1NO+1NC	0.5	240V AC, 24V DC	**AUATAC240HR**	**1180**
Undervoltage Release	-	1	240V AC	**AUUVAC240**	**2380**
	-	1	24V DC	**AUUVDC024**	**2380**
Overvoltage Release	-	1	240V AC	**AUOVAC240**	**2945**
Shunt Release	-	1	240V AC	**AUSRAC240**	**2730**
	-	1	24V DC	**AUSRDC024**	**2730**
Padlock-Suitable for Lock Hasp 3.5 - 5 mm dia. max	Suitable for 1Pole=1Mod devices: RCCBs, RCBOs, Changeover Switches up to 40A			**AUPD01**	**540**
	Suitable for 1Pole-1.5Mod devices: MCBs 80A-125A, Changeover Switch 63A			**AUPD02**	**610**

Note: Standard Pack Quantity for Padlock - 2 Nos.
*For 80A-125A MCBs please contact nearest branch office

Indicating Lights [8531]

Description	Modules 1 Mod = 17.5 mm	Cat. No.	M.R.P. (₹) Per Unit
RED	1	**AUIL01RED00**	**1105**
YELLOW	1	**AUIL01YEL00**	**1105**
BLUE	1	**AUIL01BLU00**	**1105**
GREEN	1	**AUIL01GRE00**	**1105**
RED-YELLOW-BLUE	1	**AUIL01RYB00**	**1345**

Auxiliary & Accessories for Exora MCBs [8538]



Description	Cat. No.	M.R.P. (₹) Per Unit
Auxiliary Contact - 6A , 240V AC, (1NO+1NC), 0.5 Mod	**BZA11006**	**940**
Shunt Release - 240V AC, 1 Mod	**BZS00240**	**2570**
Trip Alarm Contact - 6A, 240V AC, (1NO+1NC), 0.5 Mod	**BZT11006**	**1100**

New Industrial Plugs & Sockets [8536]

Plugs

Highlights

- Conforms to IEC 60309 -1&2
- Mechanical Impact - IK08
- Ingress Protection - IP44 & IP67
- Fire Resistance - 850°C as per IEC 60695-2-11
- Easy Screw connection with same orientation of clamp screws

Description	Cat NO	M.R.P. (₹) Per Unit
Plug - IP44		
16A, 2P+E	**PSKPM30164**	**610**
32A, 2P+E	**PSKPM30324**	**960**
16A, 3P+E	**PSKPM40164**	**780**
32A, 3P+E	**PSKPM40324**	**1135**
16A, 3P+N+E	**PSKPM50164**	**820**
32A, 3P+N+E	**PSKPM50324**	**1095**
Plug - IP67		
16A, 2P + E	**PSKPM30167**	**1355**
32A, 2P + E	**PSKPM30327**	**1915**
63A, 2P + E	**PSKPM30637**	**5435**
16A, 3P + E	**PSKPM40167**	**1530**
32A, 3P + E	**PSKPM40327**	**2420**
63A, 3P + E	**PSKPM40637**	**5175**
16A, 3P + N + F	**PSKPM50167**	**1640**
32A, 3P + N + E	**PSKPM50327**	**2085**
63A, 3P + N + E	**PSKPM50637**	**5185**
125A, 3P + N + E	**PSKPM51257**	**15840**

Socket

Highlights

- Conforms to IEC 60309 -1&2
- Mechanical Impact - IK08
- Ingress Protection - IP44 & IP67
- Fire Resistance - 850°C as per IEC 60695-2-11
- Easy Screw connection with same orientation of clamp screws

Description	Cat NO	M.R.P. (₹) Per Unit
Socket - IP44		
16A, 2P+E	**PSKSM30164**	**845**
32A, 2P+E	**PSKSM30324**	**1180**
16A, 3P+E	**PSKSM40164**	**990**
16A, 3P + N + E	**PSKSM50164**	**1080**
32A, 3P + N + E	**PSKSM50324**	**1445**
Socket - IP67		
16A, 2P+E	**PSKSM30167**	**1590**
32A, 2P+E	**PSKSM30327**	**2185**
63A, 2P+E	**PSKSM30637**	**5915**
16A, 3P+E	**PSKSM40167**	**1995**
63A, 3P+E	**PSKSM40637**	**5970**
16A, 3P + N + E	**PSKSM50167**	**2085**
32A, 3P + N + E	**PSKSM50327**	**2440**
63A, 3P + N + E	**PSKSM50637**	**6065**
125A, 3P + N + E	**PSKSM51257**	**19040**

Socket Angled

Highlights

- Conforms to IEC 60309 -1&2
- Mechanical Impact - IK08
- Ingress Protection - IP44 & IP67
- Fire Resistance - 850°C as per IEC 60695-2-11
- Easy Screw connection with same orientation of clamp screws

Description	Cat NO	M.R.P. (₹) Per Unit
Socket Angled - IP44		
16A, 2P+E	**PSKSA30164**	**655**
32A, 2P+E	**PSKSA30324**	**1160**
16A, 3P+E	**PSKSA40164**	**990**
32A, 3P+E	**PSKSA40324**	**1370**
16A, 3P+N+E	**PSKSA50164**	**1055**
32A, 3P+N+E	**PSKSA50324**	**1340**
Socket Angled - IP67		
16A, 2P+E	**PSKSA30167**	**1250**
32A, 2P+E	**PSKSA30327**	**1630**
63A, 2P+E	**PSKSA30637**	**5340**
32A, 3P+E	**PSKSA40327**	**2420**
63A, 3P+E	**PSKSA40637**	**5350**
32A, 3P+N+E	**PSKSA50327**	**1930**
63A, 3P+N+E	**PSKSA50637**	**5455**
125A, 3P+N+E	**PSKSA51257**	**18105**

Socket Straight

Highlights

- Conforms to IEC 60309 -1&2
- Mechanical Impact - IK08
- Ingress Protection - IP44 & IP67
- Fire Resistance - 850°C as per IEC 60695-2-11
- Easy Screw connection with same orientation Of clamp screws

Description	Cat NO	M.R.P. (₹) Per Unit
Socket Straight- IP44		
16A, 2P+E	**PSKSS30164**	**750**
32A, 2P+E	**PSKSS30324**	**1190**
32A, 3P+N+E	**PSKSS50324**	**1490**
Socket Straight- IP67		
16A, 2P+E	**PSKSS30167**	**1260**
63A, 2P+E	**PSKSS30637**	**6465**
63A, 3P+E	**PSKSS40637**	**5400**
63A, 3P+N+E	**PSKSS50637**	**5400**
125A, 3P+N+E	**PSKSS51257**	**18105**

Specially Designed

Distribution Board suitable for Aluminum shuttering (Mivan) Construction

> To experience Scan or click

DBs suitable for Aluminum Shuttering Construction [8537]

SPN DBs

Highlights

- Available in CRCA sheet steel, RAL9003, powder coated
- Ready to use DBs - Provided with 100A insulated phase bus-bar | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification label
- With provision for DP MCB/Isolator/RCCB/RCBO as incomer and SP MCBs as outgoings

Description	No. of Modules Incomer + Outgoing		Cat. Nos.	M.R.P. (₹) Per Unit
IP 43 - Metal Door				
4 way	2	2	**LTSD04M**	*
6 way	2	4	**LTSD06M**	*
8 way	2	6	**LTSD08M**	*
12 way	2	10	**LTSD12M**	*
16 way	2	14	**LTSD16M**	*

TPN DBs

Highlights

- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with 100A insulated phase bus-bars |neutral bar/s with shroud/s | earth bar/s | sticking saddles | cementspill protector | color-coded interconnecting wire set | cable ties |blanking plates and circuit identification labels
- With provision for FP MCB/Isolator/RCCB/RCBO as incomer and SP MCBs as outgoings

Description	No. of Modules Incomer + Outgoing		Cat. Nos.	M.R.P. (₹) Per Unit
IP 43 - Metal Door				
4 way	8	4+4+4	**LTTD04M**	*
6 way	8	6+6+6	**LTTD06M**	*
8 way	8	8+8+8	**LTTD08M**	*

*For details, please contact nearest branch office

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Distribution Boards

Lauritz Knudsen
Electrical & Automation

SAFETY IN EVERY DETAIL, WITH **EXORA DISTRIBUTION BOARDS**

Key Features:

- Elegant Curved Door design for stylish touch.
- Ergonomically designed push latch for enhanced safety.
- Spacious interiors facilitating ease of wiring.
- Uniform gasketing ensures long lasting IP protection.
- Effective earthing via earthing wire ensuring safety.
- Aluminium-Zinc coated hardware for rustproof longevity
- Inbuilt Copper Wire Set (16 sq mm) & Shorting links for safer connections.
- Customised solutions to meet specific customer requirements.

Key Highlights:

IEC 61439 1 & 3
IP 30, 43 & 54
IK 08 & IK09

New SPN DB [8537]

Highlights

- Conforms to IS 8623-1 & 3, IEC 61439-1 & 3
- IK 08-for single door DBs, IK 09-for double door Dbs
- Available in CRCA sheet steel, RAL9003, powder coated
- Ready to use DBs - Provided with 100A insulated phase bus-bar | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification label
- With provision for DP MCB/Isolator/RCCB/RCBO as incomer and SP MCBs as outgoings

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer + Outgoing			
IP 30 - Single Door				
4 way	2	2	**DESPN004SDS**	**1625**
6 way	2	4	**DESPN006SDS**	**1705**
8 way	2	6	**DESPN008SDS**	**1965**
12 way	2	10	**DESPN012SDS**	**2330**
16 way	2	14	**DESPN016SDS**	**2855**
18 way	2	16	**DESPN018SDS**	**3320**
IP 43 - Metal Door				
4 way	2	2	**DESPN004DDS**	**2120**
6 way	2	4	**DESPN006DDS**	**2440**
8 way	2	6	**DESPN008DDS**	**2615**
12 way	2	10	**DESPN012DDS**	**3135**
16 way	2	14	**DESPN016DDS**	**3965**
18 way	2	16	**DESPN018DDS**	**4150**
IP 43 - Glazed Door				
4 way	2	2	**DESPN004GDS**	**2835**
6 way	2	4	**DESPN006GDS**	**3020**
8 way	2	6	**DESPN008GDS**	**3280**
12 way	2	10	**DESPN012GDS**	**3995**
16 way	2	14	**DESPN016GDS**	**4965**
18 way	2	16	**DESPN018GDS**	**5255**
IP 54 - Metal Door				
4 way	2	2	**DESPN00454S**	**7395**
6 way	2	4	**DESPN00654S**	**8245**
8 way	2	6	**DESPN00854S**	**8770**
12 way	2	10	**DESPN01254S**	**10070**
16 way	2	14	**DESPN01654S**	**11210**
18 way	2	16	**DESPN01854S**	**11460**

New TPN DB [8537]

Highlights

- Conforms to IS 8623-1 & 3, IEC 61439-1 & 3
- IK 08-for single door DBs, IK 09-for double door Dbs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with 100A insulated phase bus-bars |neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification labels
- With provision for FP MCB/Isolator/RCCB/RCBO as incomer and SPMCBs as outgoings

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
IP 30 - Single Door				
4 way	4	4+4+4	**DETPE004SDS**	**4235**
6 way	4	6+6+6	**DETPE006SDS**	**5200**
4 way	8	4+4+4	**DETPN004SDS**	**4465**
6 way	8	6+6+6	**DETPN006SDS**	**5525**
8 way	8	8+8+8	**DETPN008SDS**	**6520**
12 way	8	12+12+12	**DETPN012SDS**	**9390**
16 way	8	16+16+16	**DETPN016SDS**	**11450**
IP 43 - Metal Door				
4 way	4	4+4+4	**DETPE004DDS**	**4980**
6 way	4	6+6+6	**DETPE006DDS**	**6190**
4 way	8	4+4+4	**DETPN004DDS**	**5210**
6 way	8	6+6+6	**DETPN006DDS**	**6490**
8 way	8	8+8+8	**DETPN008DDS**	**7790**
12 way	8	12+12+12	**DETPN012DDS**	**11620**
16 way	8	16+16+16	**DETPN016DDS**	**14420**
IP 43 - Glazed Door				
4 way	4	4+4+4	**DETPE004GDS**	**6765**
6 way	4	6+6+6	**DETPE006GDS**	**8130**
4 way	8	4+4+4	**DETPN004GDS**	**7040**
6 way	8	6+6+6	**DETPN006GDS**	**8570**
8 way	8	8+8+8	**DETPN008GDS**	**10160**
12 way	8	12+12+12	**DETPN012GDS**	**15585**
16 way	8	16+16+16	**DETPN016GDS**	**18730**
IP 54 - Metal Door				
4 way	4	4+4+4	**DETPE00454S**	**16895**
6 way	4	6+6+6	**DETPE00654S**	**19745**
4 way	8	4+4+4	**DETPN00454S**	**17860**
6 way	8	6+6+6	**DETPN00654S**	**21505**
8 way	8	8+8+8	**DETPN00854S**	**23510**
12 way	8	12+12+12	**DETPN01254S**	**33135**
16 way	8	16+16+16	**DETPN01654S**	**39770**

For ordering old DBs, replace Cat no with "DB" instead of "DE".
Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.

New PPI DB [8537]

Highlights

- Conforms to IS 8623-1 & 3, IEC 61439-1 & 3
- IK 09-for double door DBs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with 100A insulated phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification labels
- With provision for FP MCB / Isolator / RCCB / RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoings

IP 43 - Metal Door

Horizontal PPI DBs

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Sub-Incomer	Outgoing		
IP 43 - Metal Door					
4 way	8	2+2+2	4+4+4	**DEHPI004DD**	**9265**
6 way	8	2+2+2	6+6+6	**DEHPI006DD**	**10970**
8 way	8	2+2+2	8+8+8	**DEHPI008DD**	**13155**
12 way	8	2+2+2	12+12+12	**DEHPI012DD**	**18125**
16 way	8	2+2+2	16+16+16	**DEHPI016DD**	**21745**

Tier PPI DBs

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Sub-Incomer	Outgoing		
IP 43 - Metal Door					
6 way	8	2+2+2	6+6+6	**DETPI006DD**	**11350**
8 way	8	2+2+2	8+8+8	**DETPI008DD**	**14230**
10 way	8	2+2+2	10+10+10	**DETPI010DD**	**14920**
12 way	8	2+2+2	12+12+12	**DETPI012DD**	**15805**
16 way	8	2+2+2	16+16+16	**DETPI016DD**	**18020**
12 way	MCCB*	2+2+2	12+12+12	**DETPL012DD**	**16905**

*Suitable for 3 Pole & 4 Pole DU100H, DU100D, DN0-100D & DN0-100C MCCB as incomer

New TPN Phase Segregated DB [8537]

Highlights

- Conforms to IS 8623-1 & 3, IEC 61439-1 & 3
- IK 09-for double door DBs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with 100A insulated phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification labels
- With provision for
  - » Modular Incomer - FP MCB/Isolator/RCCB/RCBO as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoings
  - » MCCB Incomer - MCCB* as incomer, DP RCCB/RCBO as sub-incomer and SP MCBs as outgoings

With Modular Incomer

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Sub-Incomer	Outgoing		
IP 43 - Metal Door					
4 way	8	4+4+4	4+4+4	**DEPSG004DD**	**13605**
6 way	8	4+4+4	6+6+6	**DEPSG006DD**	**15340**
8 way	8	4+4+4	8+8+8	**DEPSG008DD**	**17115**
12 way	8	4+4+4	12+12+12	**DEPSG012DD**	**21230**

With MCCB Incomer

Description	No. of Modules			Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer*	Sub-Incomer	Outgoing		
IP 43 - Metal Door					
4 way	MCCB	4+4+4	4+4+4	**DEPGL004DD**	**18715**
6 way	MCCB	4+4+4	6+6+6	**DEPGL006DD**	**21400**
8 way	MCCB	4+4+4	8+8+8	**DEPGL008DD**	**24750**
12 way	MCCB	4+4+4	12+12+12	**DEPGL012DD**	**27915**

*Suitable for 3 Pole & 4 Pole DU100H, DU100D, DN0-100D & DN0-100C MCCB as incomer

For ordering old DBs, replace Cat no with "DB" instead of "DE".
Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.

New TPN Phase Selector DB [8537]

Highlights

- Conforms to IS 8623-1 & 3, IEC 61439-1 & 3
- IK 09-for double door Dbs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with 3 nos. of 63A E&A rotary switches | 3 nos. of rocker switches for phase identification | 100A insulated phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification labels
- With provision for - FP MCB/Isolator/RCCB/RCBO as incomer and SP MCBs as outgoings

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
IP 43 - Metal Door				
4 way	8	4+4+4	**DEPSR004DD**	**16710**
6 way	8	6+6+6	**DEPSR006DD**	**16975**
8 way	8	8+8+8	**DEPSR008DD**	**18185**
10 way	8	10+10+10	**DEPSR010DD**	**19430**
12 way	8	12+12+12	**DEPSR012DD**	**20485**

New Flexi/Row DB [8537]

Highlights

- Conforms to IS 8623-1 & 3, IEC 61439-1 & 3
- IK 09-for double door Dbs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | cable ties | circuit identification labels
- With provision to mount modular devices as per requirement

Description	No. of Modules Per Row	Cat. Nos.	M.R.P. (₹) Per Unit
IP 43 - Metal Door			
2 Row 28 Module	14	**DEROW228DD**	**6630**
3 Row 42 Module	14	**DEROW342DD**	**7950**
4 Row 56 Module	14	**DEROW456DD**	**8645**
4 Row 64 Module	16	**DEROW464DD**	**10055**

New Vertical TPN DB with Modular Incomer [8537]

Highlights

- Conforms to IS 8623-1 & 3, IEC 61439-1 & 3
- IK 09-for double door Dbs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with insulated vertical phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification labels
- With provision for FP MCB/Isolator/RCCB/RCBO as incomer and SP/ TP MCBs as outgoings

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer	Outgoing		
IP 43 - Metal Door				
4 way	8	4+4+4	**DEVTM004DD**	**12835**
6 way	8	6+6+6	**DEVTM006DD**	**14300**
8 way	8	8+8+8	**DEVTM008DD**	**16600**
12 way	8	12+12+12	**DEVTM012DD**	**22390**
16 way	8	16+16+16	**DEVTM016DD**	**26715**
IP 54 - Metal Door				
4 way	8	4+4+4	**DEVTM00454**	**27135**
6 way	8	6+6+6	**DEVTM00654**	**29605**
8 way	8	8+8+8	**DEVTM00854**	**32690**

New Vertical TPN DB with MCCB Incomer [8537]

Highlights

- Conforms to IS 8623-1 & 3, IEC 61439-1 & 3
- IK 09-for double door Dbs
- Available in CRCA sheet steel, RAL 9003, powder coated
- Ready to use DBs - Provided with insulated vertical phase bus-bars | neutral bar/s with shroud/s | earth bar/s | sticking saddles | cement spill protector | color-coded interconnecting wire set | cable ties | blanking plates and circuit identification labels
- With provision for 3 pole and 4 Pole MCCB* as incomer and SP/TP MCBs as outgoings

Up to 125A MCCB Incomer

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer*	Outgoing		
IP 43 - Metal Door				
4 way	MCCB	4+4+4	**DEVTL004DD**	**15180**
6 way	MCCB	6+6+6	**DEVTL006DD**	**17255**
8 way	MCCB	8+8+8	**DEVTL008DD**	**18995**
12 way	MCCB	12+12+12	**DEVTL012DD**	**25840**
16 way	MCCB	16+16+16	**DEVTL016DD**	**30825**
IP 54 - Metal Door				
4 way	MCCB	4+4+4	**DEVTL00454**	**31445**
6 way	MCCB	6+6+6	**DEVTL00654**	**35860**
8 way	MCCB	8+8+8	**DEVTL00854**	**38820**

*Suitable for 3 Pole & 4 Pole DU100H, DU100D, DU125D, DU125H & DN0 MCCB as incomer

For ordering old DBs, replace Cat no with "DB" instead of "DE".
Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.

New Vertical TPN DB with MCCB Incomer [8537]

Up to 250A MCCB Incomer

Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
	Incomer*	Outgoing		
IP 43 - Metal Door				
4 way	MCCB	4+4+4	**DEVTH004DD**	**19725**
6 way	MCCB	6+6+6	**DEVTH006DD**	**22090**
8 way	MCCB	8+8+8	**DEVTH008DD**	**24295**
12 way	MCCB	12+12+12	**DEVTH012DD**	**29405**
16 way	MCCB	16+16+16	**DEVTH016DD**	**39515**
IP 54 - Metal Door				
4 way	MCCB	4+4+4	**DEVTH00454**	**36090**
6 way	MCCB	6+6+6	**DEVTH00654**	**39405**
8 way	MCCB	8+8+8	**DEVTH00854**	**40755**

*Suitable for 3 pole and 4 pole DU250, DU250C & DN1 MCCB as incomer

New Enclosure [8537]

Highlights

- Conforms to IS 8623-1 & 3, IEC 61439-1 & 3
- Suitable for Surface and Flush mounting
- Available in CRCA sheet steel, RAL9003, powder coated
- With provision to mount MCB/Isolator/RCCB/RCBO and other modular devices

IP 30 - Metal Door

Description	No. of Modules	Cat. Nos.	M.R.P. (₹) Per Unit
IP 30 - Metal Door			
2 way	2	**DEENC002SD**	**825**
3 way	3	**DEENC003SD**	**825**
4 way	4	**DEENC004SD**	**825**
6 way	6	**DEENC006SD**	**1280**

New Plug & Socket DB [8537]

Highlights

- Conforms to IS 8623-1 & 3, IEC 61439-1 & 3
- Suitable for Surface and Flush mounting
- Available in CRCA sheet steel, RAL9003, powder coated
- Loose Metal Plugs & Sockets conforms to IS 8804; available in Single Phase & Three Phase

Metal Plug & Socket

Plastic Plug & Socket

Description	No. of Pins	No. of Modules	Cat. Nos.	M.R.P. (₹) Per Unit
Metal Plug & Sockets				
10 A, 2 Pin + SC^	P + N	1	**DEMPS110SD**	**2050**
20 A, 2 Pin + SC^	P + N	1	**DEMPS120SD**	**2205**
20 A, 2 Pin + SC^	P + N	2	**DEMPS220SD**	**2390**
20 A, 3 Pin + SC^	3P	3	**DEMPS320SD**	**4050**
32 A, 3 Pin + SC^	3P	3	**DEMPS332SD**	**4795**
32 A, 3 Pin + SC^	3P	4	**DEMPS432SD**	**5100**
63 A, 5 Pin + SC^	3P+N+E	4	**DEMPS463SD**	**17280**
Plastic Plug & Sockets				
16 A, 3 Pin	P+N+E	2	**DEPPS316SD**	**3355**
32 A, 3 Pin	P+N+E	4	**DEPPS332SD**	**3620**
32 A, 5 Pin	3P+N+E	8	**DEPPS532SD**	**6045**
63 A, 5 Pin	3P+N+E	8	**DEPPS563SD**	**15145**

Metal Plug [8536]

Description	No. of Pins	Cat. Nos.	M.R.P. (₹) Per Unit
10 A, 2 Pin + SC^	P + N	**MPS210P**	**200**
20 A, 2 Pin + SC^	P + N	**MPS220P**	**210**
20 A, 3 Pin + SC^	3P	**MPS320P**	**275**
32 A, 3 Pin + SC^	3P	**MPS332P**	**525**

Note: Standard pack quantity - 20 nos.

Metal Socket [8536]

Description	No. of Pins	Cat. Nos.	M.R.P. (₹) Per Unit
10 A, 2 Pin + SC^	P + N	**MPS210S**	**205**
20 A, 2 Pin + SC^	P + N	**MPS220S**	**225**
20 A, 3 Pin + SC^	3P	**MPS320S**	**310**
32 A, 3 Pin + SC^	3P	**MPS332S**	**525**

^ SC-Scraping Earth

Note: Standard pack quantity - 20 nos.

For ordering old DBs, replace Cat no with "DB" instead of "DE".
Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.

New DBs with provision for TV / Telephone splitters [8537]

Highlights

- Distribution Boards equipped with provisions to mount TV / Telephone splitters
- Available in SPN & TPN Dbs

DB Type	Description	No. of Modules		Cat. Nos.	M.R.P. (₹) Per Unit
		Incomer	+ Outgoing		
IP 43 - Metal Door					
SPN	6 way	2	4	**DESPN006DDTV**	**4615**
	8 way	2	6	**DESPN008DDTV**	**4960**
	12 way	2	10	**DESPN012DDTV**	**6105**
	16 way	2	14	**DESPN016DDTV**	**7080**
	18 way	2	16	**DESPN018DDTV**	**8375**
TPN	4 way	8	4+4+4	**DETPN004DDTV**	**9070**
	6 way	8	6+6+6	**DETPN006DDTV**	**10475**
	8 way	8	8+8+8	**DETPN008DDTV**	**12490**

Cable End Boxes [8537]

Highlights

- Available in CRCA sheet steel, RAL9003, powder coated
- Can be either at the top or bottom of the distribution board

Description	Cat. Nos.	M.R.P. (₹) Per Unit
CEB for SPN DBs		
CEB-SPN Double Door, 4 way	**DESPN004CBS**	**905**
CEB-SPN Double Door, 6 way	**DESPN006CBS**	**975**
CEB-SPN Double Door, 8 way	**DESPN008CBS**	**1090**
CEB-SPN Double Door, 12 way	**DESPN012CBS**	**1215**
CEB-SPN Double Door, 16 way	**DESPN016CBS**	**1710**
CEB-SPN Double Door, 18 way	**DESPN018CBS**	**1765**
CEB for TPN DBs		
CEB-TPE Double Door, 4 way	**DETPE004CBS**	**1170**
CEB-TPE Double Door, 6 way	**DETPE006CBS**	**1670**
CEB-TPN Double Door, 4 way	**DETPN004CBS**	**1225**
CEB-TPN Double Door, 6 way	**DETPN006CBS**	**1720**
CEB-TPN Double Door, 8 way	**DETPN008CBS**	**2165**
CEB-TPN Double Door, 12 way	**DETPN012CBS**	**3595**
CEB-TPN Double Door, 16 way	**DETPN016CBS**	**3630**
CEB for Horizontal PPI DBs		
CEB-Horz. PPI Double Door, 4 way	**DEHPI004CB**	**1815**
CEB-Horz. PPI Double Door, 6 way	**DEHPI006CB**	**2265**
CEB-Horz. PPI Double Door, 8 way	**DEHPI008CB**	**2840**
CEB-Horz. PPI Double Door, 12 way	**DEHPI012CB**	**3565**
CEB-Horz. PPI Double Door, 16 way	**DEHPI016CB**	**3875**
CEB for VTPN DBs		
CEB-VTPN Double Door, Modular Incomer	**DEVTMXXXCB**	**1215**
CEB-VTPN Double Door, MCCB Incomer	**DEVTXXXXCB**	**4285**
CEB for Phase Segregated DBs		
CEB-PSG Double Door, 4 way	**DEPSG004CB**	**3180**
CEB-PSG Double Door, 6 way	**DEPSG006CB**	**3790**
CEB-PSG Double Door, 8 way	**DEPSG008CB**	**4185**
CEB-PSG Double Door, 12 way	**DEPSG012CB**	**4660**

DB Accessories

Busbar - Fork Type [8538]

Highlights

- Available in Single Pole, Double Pole, Three Pole and Four Pole versions
- Material : Copper

Description	Cat. Nos..	M.R.P. (₹) Per Unit	Std. Pack Qty.
SP 13 Mod	**BSP13**	**405**	5
SP 56 Mod	**BSP56**	**1655**	5
DP 12 Mod	**BDP12**	**720**	5
TP 12 Mod	**BTP12**	**775**	5
FP 12 Mod	**BFP12**	**1535**	5
End Caps for SP	**ECP01**	**25**	10
End Caps for DP/TP	**ECP03**	**55**	10
End Caps for FP	**ECP04**	**90**	10

Blanking Plates [8538]

Highlights

- Available in One module and Half module

Description	Cat. Nos.	M.R.P. (₹) Per Unit	Std.Pack Qty.
One Module	**BKP10**	**25**	10
Half Module	**BKP05**	**25**	10

PDK02

Padlock [8301]

Highlights

- Version with standard lock and a common key

Description	Cat. Nos.	M.R.P. (₹) Per Unit	Std. Pack Qty.
Lock and Key Kit	**PDK02**	**705**	5

For ordering old DBs, replace Cat no with "DB" instead of "DE".
Eg. - New DB Cat no for SPN 12W DD - DESPN012DDS, Old DB Cat no for same will be DBSPN012DDS. Old DBs are available till stock last.

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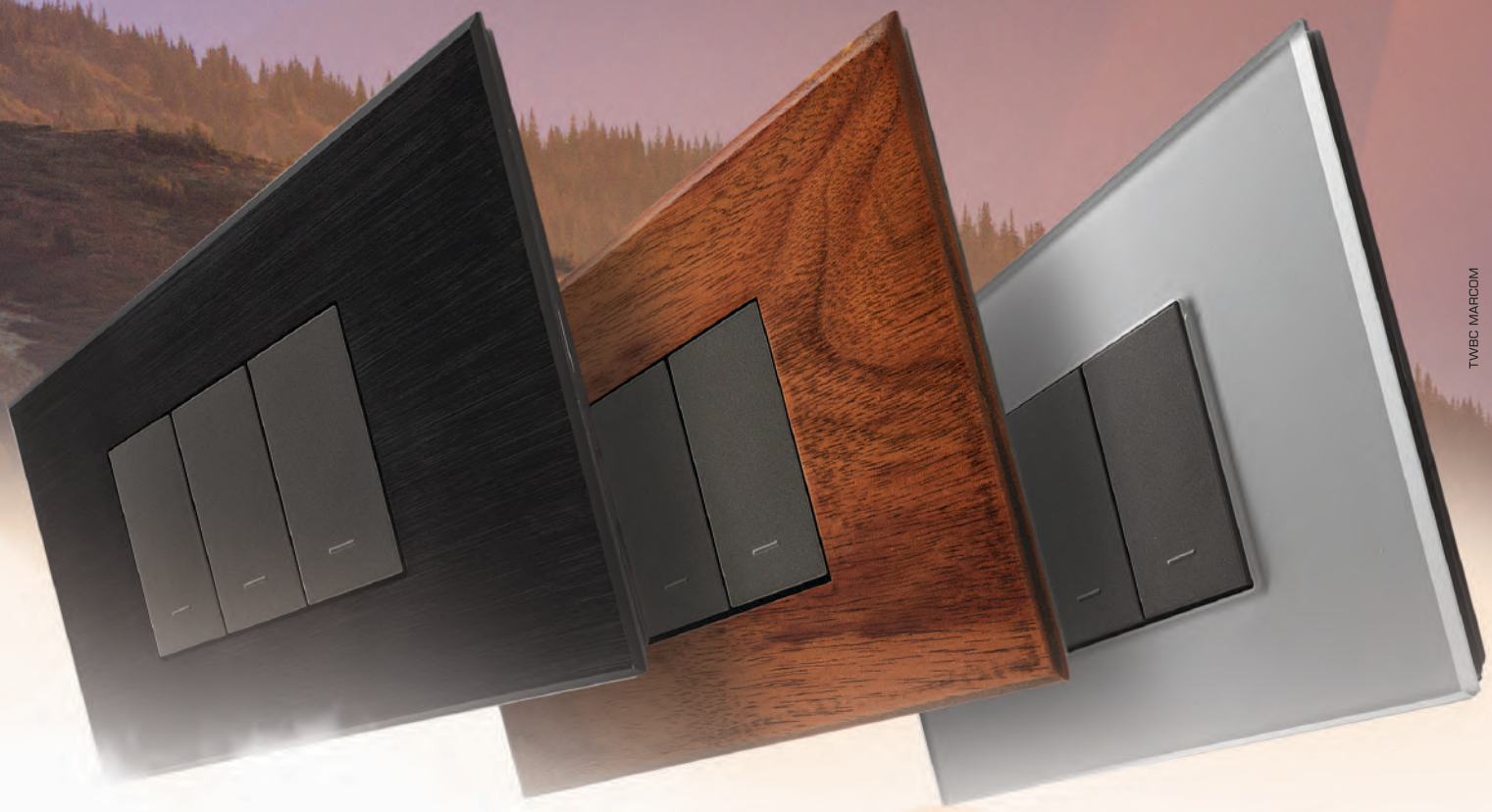

TWBC MARCOM

Discontinued Products/Suggested Alternate Products

Product Group	Discontinued Products	Suggested Alternate Products
MCCB	DTH800 3P & Acc	d sine DN4-1250N 800A 3P & Acc
Controlgear	MN0 control contactor, its spares and accessories	MO0 control contactor, its spares and accessories
Controlgear	MVO contactors	MNX contactor (up to 650 A)
Soft starter	CSX	xS1000
Soft starter	CSXi	xS2000
Soft starter	EMX4e	xS3000
Soft starter	EMX4i	xS4000

General Terms

All prices are on Maximum retail price basis inclusive of all duties, GST & any other tax as applicable.

Warranty Policy

All products listed in the price list are covered by a warranty against manufacturing defects for a period of 18* months from the date of purchase. For Lauritz Knudsen MCBs & Isolators mounted inside Lauritz Knudsen Distribution Boards, an extended warranty of 5 years is provided.

In the event of a defect due to faulty workmanship or other associated reasons, we will, at our discretion, remedy the defect or replace the faulty parts or the entire product as soon as possible, free of cost.

However, the warranty is subject to proper usage, efficient maintenance, and does not cover defects arising from fire, accidents, inefficient maintenance, faulty operation, or deliberate or accidental damage. It also does not cover damage to power electronic components such as thyristors & IGBTs, which primarily fail due to overtemperature & over-voltage. Users need to take adequate precautions to eliminate these conditions. Manufacturer shall not be responsible & liable for any special, incidental, social or consequential (including lost profits) loss, consequential damages, injury or damages (punitive) of any kind solely attributable to defect or failure of its products. Manufacturer shall not be liable in any manner for the issue of or failure in the performance of other equipment the product is attached to.

Note: We are committed to maintaining our product warranty in line with our standard terms for both the Lauritz Knudsen Brand and the L&T Switchgear brand. The change in brand will not alter our standard warranty terms or any applicable extended warranty terms.

Furthermore, we will ensure that spares and after-sales support remain available throughout the entire product life cycle, regardless of whether the products are under the L&T Switchgear brand or the Lauritz Knudsen Brand

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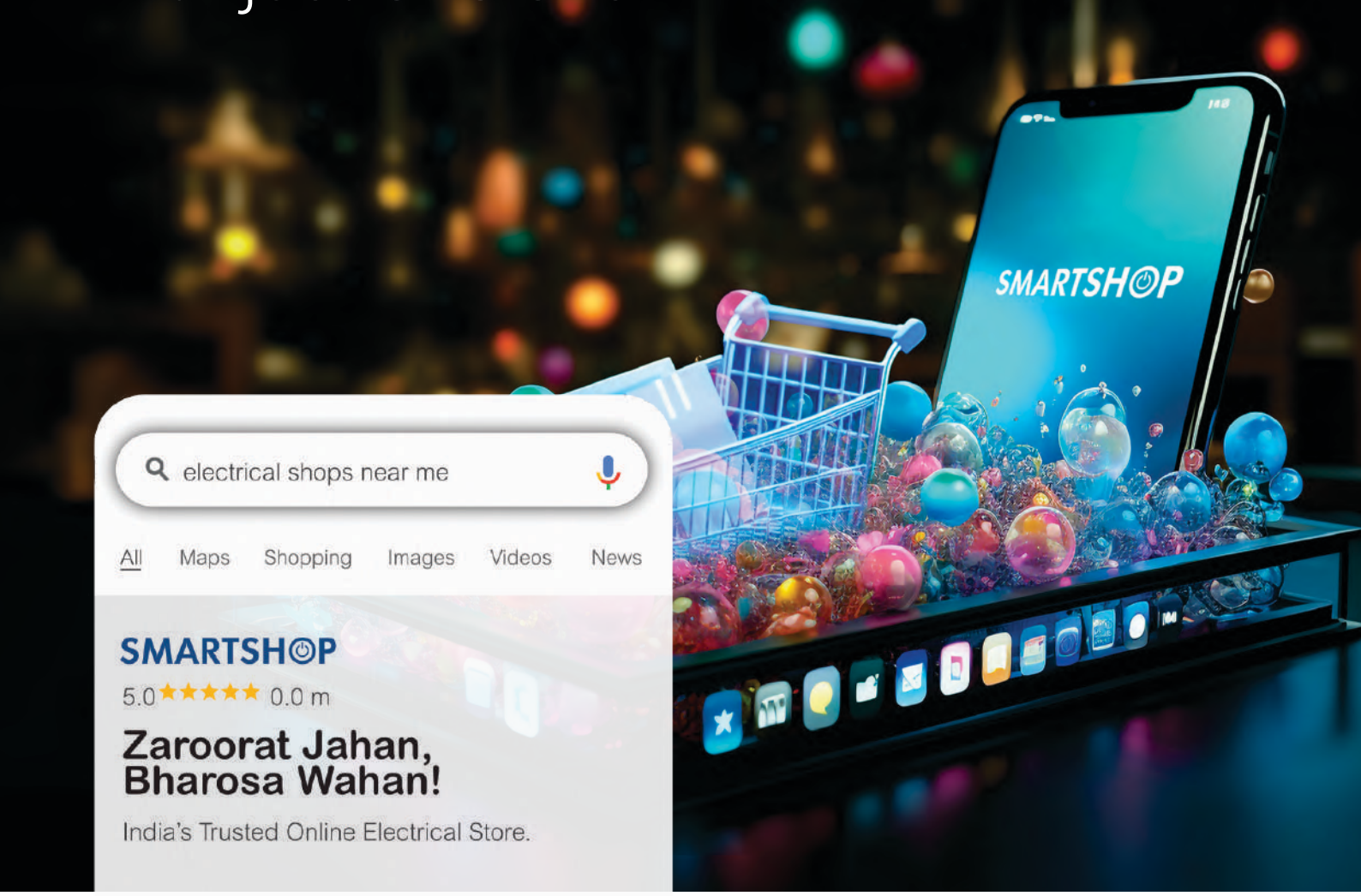

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