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**Maximum Retail Prices
For Electrical Standard Products
Effective from 01-02-2025**

FROM THE COO'S DESK.



L&T Switchgear* IS NOW
Business



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.



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up to 800 V AC

Lauritz Knudsen Electrical & Automation
India's leading supplier of low-voltage
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ABTs, Tariff Meters, Fuses, and SPDs.
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Customer Interaction Center (CIC)

Phone no: 022-6932 7800

Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

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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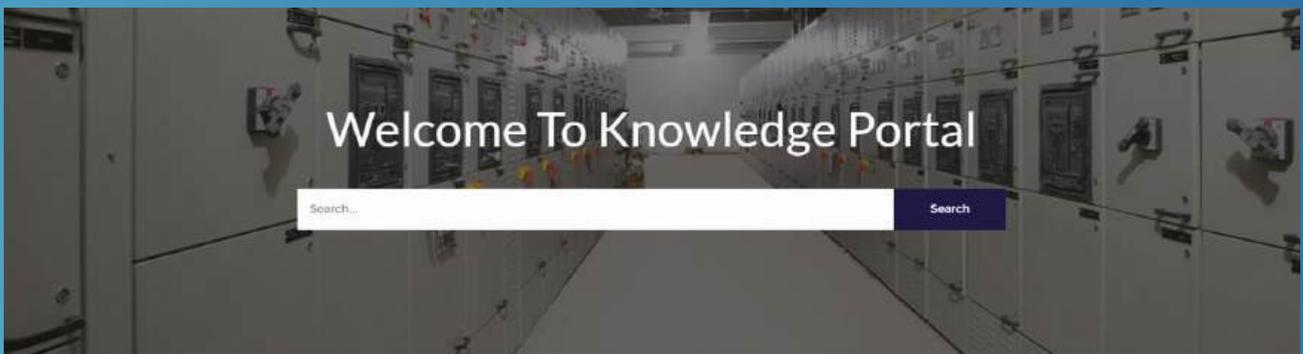
Directly interact with our Product Experts for any queries you may have



Customer Portal for healthy interactions for Sharing Ideas/Feedbacks



Discover any of our Product Literature through Quick Search feature



Visit Knowledge Portal: www.LK-EA.com/kp

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Contactors

Power Contactors

- | | | | |
|---------------|------------------|---|---------------|
| 1 Pole | 2 Pole | 3 Pole | 4 Pole |
| › MR | › MNX
› MU-2P | › MO
› MNX
› MI
› MX Power
› ML
› MDX (DC Control/Electronic coil Control) | › MCX |

Control Relays (Auxiliary Contactors)

- › MX0 (Mini) AC/DC
- › MO0 AC/DC

Capacitor Duty Contactors

- › MO C

MI Contactors

6-150A, AC-3 Rating

Optimum solution
for your applications



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 [8536]

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

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	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
	95	160	MNX 95	#	CS97078	17820	1
Fr 4	110	160	MNX 110	2 NO + 2 NC	CS94136	20150	1
	140	160	MNX 140	2 NO + 2 NC	CS94137	24480	1
	185	250	MNX 185	2 NO + 2 NC	CS94138	31230	1
Fr 5	225	300	MNX 225	2 NO + 2 NC	CS94139	37130	1
	250	300	MNX 250	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

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
	250	250	400	MO 250	2 NO+2 NC	CS94456	70300	1
Fr 5*	300	300	500	MO 300	2 NO+2 NC	CS94464	81390	1

Notes:

- # Add-on blocks can be ordered separately
 - For ordering MNX/MO add-on aux contact blocks, please refer page No.8
 - For ordering MNX/MO surge suppressor and MNX/MO MIL kit, please refer page No.9
 - For ordering Suffix, please refer page No.10
 - 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 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 [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:

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

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:

- For ordering MX add-on aux contact blocks, please refer page No.8
- For ordering ML add-on aux contact blocks, please refer page No.9
- For ordering MX surge suppressor and MIL kit, please refer page No.9
- For Ordering Suffix, please refer page No.10
- 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
Fr 2	30	MO C30\$	1NO	CS96148	7990	1
	40	MO C40	1NO	CS96147	13420	1
	50	MO C50	1NO	CS96324	14340	1
Fr 3	60	MO C60\$	1NO	CS96149	16190	1
	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 B000 - 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 N000
- 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



**MNX/MCX
Side Add-on aux. contact Block**



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

Side Mounting Add-on aux. Contact Block

Side Mounting	Aux Contact	Suitable for							
		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.



**MDX
Side Add-on aux. contact Block**

Side Mounting Add-on aux. Contact Block

Side Mounting	Aux Contact	Suitable for					
		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	Aux Contact	Suitable for			
		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 : 0000

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: B000, 415V: D000

110V: A000, 220-240V: B000, 360-525V: D000

^ 110V: A000, 220-320V: B000, 360-415V: D000

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 : 0000

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:

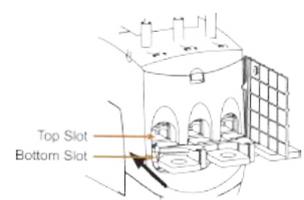
1) If using 16 sq mm cable for MO 45/ MO C25 use of spreader link is mandatory

2) Spreader Link Kit consists of six terminals along with phase barrier (Not applicable for MO 250-300)

3) In MOC 30, MOC 60 & MOC 100 spreader link is included in packing

4) Ordering Suffix: 0000

⚠ 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

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 0000

Reversing DOL Starter - Link



Reversing
Starter



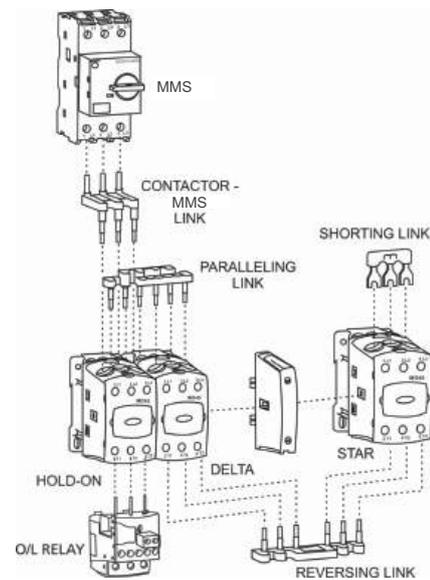
Paralleling
Link



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

Example of Star Delta Starter Connection with Link



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

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

Ordering Suffix for Standard Coil Voltages

Ordering Suffix for Standard Coil Voltages			
AC Control		DC Control*	
Voltage (V)	Suffix	Voltage (V)	Suffix
24	G000	24	4000
110	A000	48	5000
220	K000	110	1000
240	B000	220	2000
415	D000		
440	P000		

Ordering suffix for Electronic coil Contactor		
AC / DC control		
Voltage (V)	Suffix	Contactor
20-48	J000	MDX 50-110
60-110	A000	MDX 50-110
110-240	B000	MDX 50-110 & MO 140-300
240-415	D000	MO 140-300

Note:

1) * For MX DC, MDX 9-38, MX0 DC, M00 DC

2) For other coil voltages please contact nearest branch office

Spare Contact Kit and Spare Coil



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 - 0000
- 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



	Spare Contact kit		Spare Coil				
	Type	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				
	MO 60	CS96388 ^{^^}	5040			CS96318 [^]	2060
	MO 70	CS96389 ^{^^}	5600			CS96319 [^]	3560
	MO 80	CS96390 ^{^^}	7700				
	MO 95	CS96391 ^{^^}	9715				
	MO 110	CS96392 ^{^^}	14190	CS90356 [~]	8280		
	MO 140	CS90357 [~]	17050				
	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					
MNX 650	CS96336 [~]	92555	CS94193 [~]	24300			
MCX Contactors	MCX 01-04	-	-	CS94105 [^]	525		
	MCX 11	CS94077 [^]	1800	CS94009 [^]	695		
	MCX 12	CS94078 [^]	3530				
	MCX 13	CS90307 [^]	5465	ST91291 ^{*~}	1730		
	MCX 22	CS94331 [~]	6595				
	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	CS94193 [~]	24300		
	MCX 45	CS94299 [~]	52835				
	MCX 46	CS94300 [~]	61405				
	MCX 47	CS90308 [~]	85470				

* Ordering Suffix for 240V AC - F000, 415V AC - R000

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



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	SS9414100EO	1740	10
	0.3 - 0.5	SS9414100GO	1740	10
	0.45 - 0.75	SS9414100JO	1740	10
	0.6 - 1	SS9414100KO	1740	10
	0.9 - 1.5	SS9414100MO	1750	10
	1.4 - 2.3	SS9414100PO	1750	10
	2 - 3.3	SS9414100QO	1750	10
	3 - 5	SS9414100SO	1750	10
	4.5 - 7.5	SS9414100UO	1750	10
	6 - 10	SS9414200VO	1750	10
	9 - 15	SS9414200BO	1810	10
	14 - 23	SS9414400DO	1960	10
	20 - 33	SS9414500EO	2890	10
24 - 40	SS9414500FO	3040	10	
MN 5 (Directly Operated)	Direct Mounting on MNX 50 - 80			
	9 - 15	SS9413500BO	3600	10
	14 - 23	SS9413500DO	3600	10
	20 - 33	SS9413600EO	3600	10
	30 - 50	SS9413600GO	4490	10
	36 - 60	SS9413600TO	4770	10
	45 - 75	SS9413700JO	5140	10
66 - 110	SS9413700KO	5860	10	
MN 12 (CT Operated)	Separate Mounting			
	28 - 46.5	SB9421100GO	8540	1
	42 - 69	SS9413800HO	8540	1
	60 - 100	SS9413800KO	8540	1
	90 - 150	SS9413800MO	8540	1
	135 - 225	SS9413800PO	10300	1
	180 - 300	SS9413900QO	11180	1
270 - 450	SS9413900RO	14030	1	
MN 12L # (CT Operated)	Separate Mounting			
	42 - 69	SS9412700HO	27320	1
	60 - 100	SS9412700KO	27320	1
	90 - 150	SS9412700MO	27320	1
	135 - 225	SS9412700PO	27320	1
	180 - 300	SS9412700QO	27320	1
340 - 570	SS9412700SO	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



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	CS9635500FO	2440	10
	0.31 - 0.55	CS9635500GO	2440	10
	0.55 - 0.85	CS9635500JO	2440	10
	0.78 - 1.2	CS9635500LO	2440	10
	1.2 - 2.0	CS9635500NO	2440	10
	1.9 - 2.8	CS9635500PO	2470	10
	2.4 - 3.6	CS9635500QO	2470	10
	3.5 - 5.2	CS9635500SO	2470	10
	4.6 - 6.7	CS9635500TO	2470	10
	6.7 - 9.7	CS9635500VO	2470	10
	8.5 - 12.5	CS9635500AO	2510	10
	12.5 - 18.5	CS9635600CO	2510	10
	17 - 25.5	CS9635600DO	2680	10
	25 - 37	CS9635600EO	3940	10
	35 - 45	CS9635600GO	4140	10
	RTO - 2 (Directly Operated)	Direct Mounting on MO 50 - 70		
5 - 7.5		CS9636600UO	4760	1
7 - 11		CS9636600VO	4760	1
10.5 - 16		CS9636600BO	4760	1
15 - 21		CS9636600CO	4760	1
20 - 31		CS9636600EO	4960	1
30 - 43		CS9636600FO	5990	1
40 - 57		CS9636600SO	6550	1
50 - 75	CS9636700JO	6880	1	
RTO - 3 (Directly Operated)	Direct Mounting on MO 80 - 110			
	23 - 30	CS9087300EO	7780	1
	29 - 38	CS9630300QO	8080	1
	37 - 49	CS9630400GO	8330	1
	47 - 62	CS9631200TO	8490	1
	60 - 78	CS9631300JO	10000	1
75 - 110	CS9631400KO	10920	1	
RTO - 4 (CT Operated)	Separate Mounting			
	23.4 - 36	CS9709600GO	11770	1
	36 - 60	CS9709600JO	11770	1
	57 - 84	CS9709600KO	11770	1
	72 - 108	CS9709600LO	11770	1
	105 - 156	CS9709600MO	11770	1
	138 - 201	CS9709600NO	14450	1
	201 - 291	CS9709600QO	15090	1
	255 - 375	CS9709600RO	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)	0.23-0.41	CS9635700FO	1440	10
	0.45-0.78	CS9635700JO	1440	10
	0.78-1.2	CS9635700LO	1440	10
	1.2-1.9	CS9635700NO	1440	10
	1.8-2.8	CS9635700PO	1440	10
Direct Mounting on MX Contactors	2.6-3.6	CS9635700QO	1440	10
	3.6-5.2	CS9635700SO	1440	10
	4.8-7	CS9635700TO	1440	10
	6.4-9.7	CS9635700VO	1440	10
	8.2-12.1	CS9635700AO	1440	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	CS9020700MO	760	1
	1.5 - 2.5A	CS9020700PO	760	1
	2.5 - 4A	CS9020700RO	760	1
	4 - 6.5A	CS9020700TO	760	1
	6 - 10A	CS9020700VO	760	1
	9 - 14A	CS9020700AO	760	1

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	SS9185800DO	3420	10
	0.25 - 0.4	SS9185800FO	3420	10
	0.4 - 0.65	SS9185800HO	3420	10
	0.6 - 1	SS9185800KO	3420	10
	1 - 1.6	SS9185800MO	3420	10
	1.5 - 2.5	SS9185800PO	3420	10
	2.5 - 4	SS9185800RO	3420	10
	4 - 6.5	SS9185800TO	3420	10
	6 - 10	SS9185800VO	3420	10
	10 - 16	SS9185800BO	3420	10
	11 - 18	SS9185800CO	3420	10
Direct Mounting on ML 2/3 Contactors				
ML 2 / ML 3 (Directly Operated)	9 - 14	SS9185900AO	5050	10
	13 - 21	SS9185900CO	5050	10
	20 - 32	SS9185900EO	5050	10
	28 - 42	SS9185900FO	5050	10

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	CS9020700CO	850	1
	13 - 22A	CS9020700DO	850	1
	16 - 26A	CS9020700BO	850	1
	20 - 32A	CS9020700EO	1060	1
	26 - 40A	CS9020700FO	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	SS949680000	70	100
Kit for Mounting MN 2 Relay on ML 1.5 contactor	SS947010000	235	50
Kit for Mounting MN 2 Relay separately (Direct Mounting Type)	SS947000000	235	50
Kit for Mounting MN 5 Relay on MNX 95 / 110 / 140 contactor	SS946380000	380	20
Kit for Mounting MN 5 Relay on ML 2 / ML 3 contactor	SS941510000	245	20
Kit for Mounting MN5 Relay on ML 4 / ML 6 contactor	SS941520000	335	20
DIN Rail Mounting Kit Relay on MN 2 Relay	SS918870000	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	SB942070000	860	1
MN Relay reset cord - 650mm	SB942080000	895	1
MN Relay reset cord - 900mm	SB942090000	920	1
MN Relay reset cord - 1200mm	SB942100000	1030	1
RTO Relay reset cord - 400mm	CS909410000	860	1
RTO Relay reset cord - 650mm	CS909420000	895	1
RTO Relay reset cord - 900mm	CS909430000	920	1
RTO Relay reset cord - 1200mm	CS909440000	1030	1

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
RTO-1 Relay Separate Mounting Kit	CS963350000	320	1
RTO-2 Relay Separate Mounting Kit	CS963060000	760	1
RTO-3 Relay Separate Mounting Kit	CS963070000	1080	1

Electronic Motor Protection Relay [8536]

Type REO - Electronic Overload Relay

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



To Experience the Benefits of REO Electronic Overload Relay



Click or Scan

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	CS9041800JO	5790	REO 1.1G	CS9042300JO	9660	10
		0.6 - 3	CS9041800QO	5790		CS9042300QO	9660	10
		2.4 - 12	CS9041800LO	5790		CS9042300LO	9660	10
		9 - 45	CS9041800GO	6510		CS9042300GO	9990	10
REO 4	Separate Mounting	18-90	CS9041800UO	17170	REO 4G	CS9042300UO	16560	1
		72-360	CS9041800RO	23530		CS9042300RO	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	CS9191100JO	7450	1
		0.6 - 3	CS9191100QO	7450	1
		2.4 - 12	CS9191100LO	7450	1
		9 - 45	CS9191100GO	7450	1

Accessories for REO - Electronic Overload Relay

Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
REO Relay Reset Cord - 400mm	CS904250000	860	1
Separate Mounting Kit for REO 1.1/1.1G/1.1c Relay	CS963350000	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

Electronic Motor Protection Relay [8536]

MPR300 with Fail safe logic

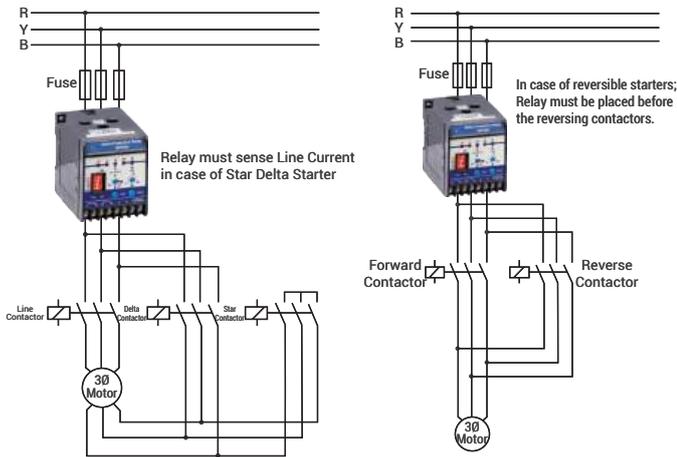
MPR300 with Fail safe logic will trip the Motor in case of Aux. supply failure



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 I _m	I = 150% of I _m	I = 720% of I _m
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

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

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

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

Product	Aux. Supply	CT [#] Secondary	Cat. No.	M.R.P. (₹) Per Unit
**MC2-30M	24 to 110VAC/DC	1 / 5 Ampere Site selectable	MC230MA000	160000
	80 to 220VAC/DC		MC230MB000	160000
**MC2-30MW	24 to 110VAC/DC		MC230MWA00	180000
	80 to 220VAC/DC		MC230MWB00	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

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



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**

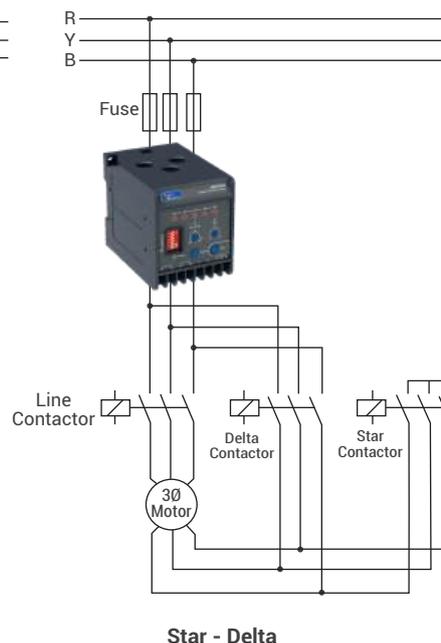
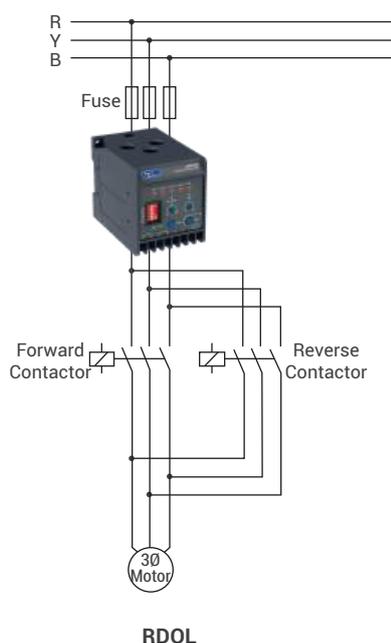
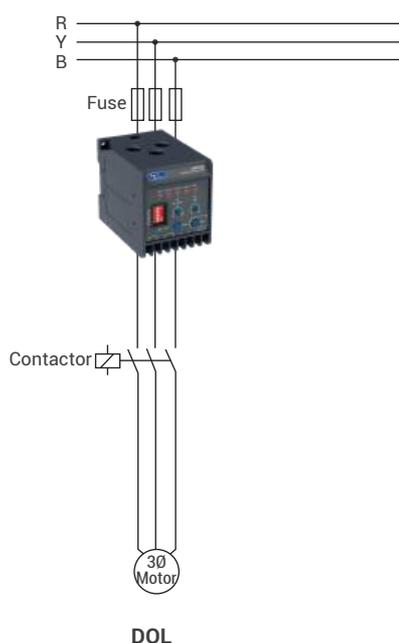
eMPR300 – Electronic Motor Protection Relay with Built-in Earth Fault Protection



- › **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	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	eMPR300	110V AC	1-5.5	49, 51LR, 64, 37, 46	EMPR300XAAO	8500
		4-22		EMPR150XABO	4800			4-22		EMPR300XABO	10000
		16-88		EMPR150XACO	6300			16-88		EMPR300XACO	11900
	230V AC	1-5.5		EMPR150XBBO	4800		230V AC	1-5.5		EMPR300XBBO	8500
		4-22		EMPR150XBCO	6300			4-22		EMPR300XBCO	10000
		16-88						16-88		EMPR300XBCO	11900

eMPR150 & eMPR300 – Application Schemes



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"

Display Unit



iMMR Main Unit



CT Unit



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"

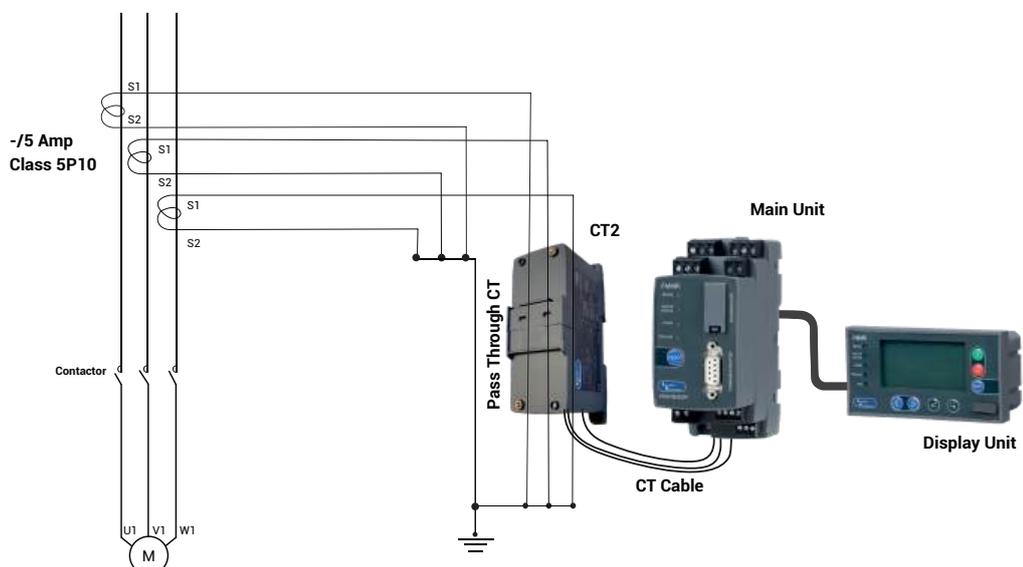
Features

- › 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

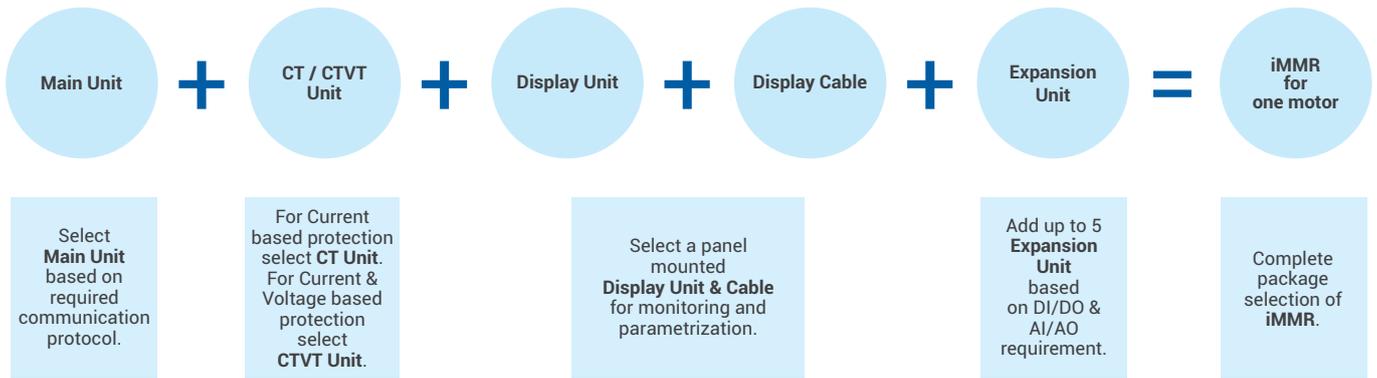
Product	Description	Cat. No.	M.R.P. (₹) Per Unit
Main Unit	iMMR MODBUS RTU 85-265 VAC/DC	CS912440000	19500
	iMMR PROFIBUS-DP 85-265 VAC/DC	*Available On Request	
	iMMR MODBUS TCP/IP 85-265 VAC/DC	*Available On Request	
CT Unit	CT1 (0.3-3A) with 15 cm cable	CS912450000	5200
	CT2 (2.5-25A) with 15 cm cable	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



Cat.no. selection guide

Modbus RTU communication and Current based protection and metering

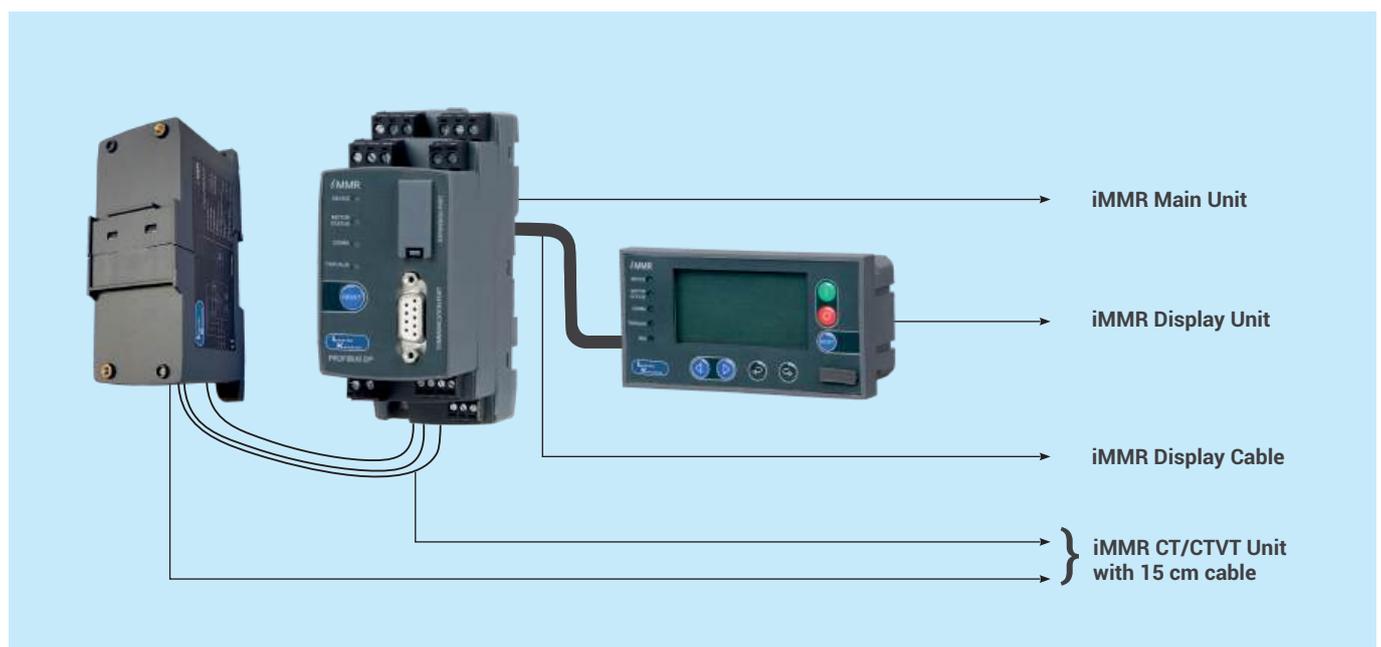
Motor Rating	Total MRP	Main Unit - Modbus RTU	CT Unit	Display Unit	Display Cable - 2 meter
<1.1 KW	37300	CS912440000	CS912450000	CS912530000	XK131290000
1.1 KW to 11 KW	39000	CS912440000	CS912460000	CS912530000	XK131290000
11 KW to 37 KW	43100	CS912440000	CS912470000	CS912530000	XK131290000
>37 KW	39000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

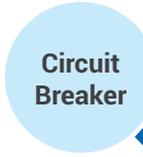
- › MOG-H1M: upto 32A
- › MOG-H2M: 32A-63A
- › Short circuit protection

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

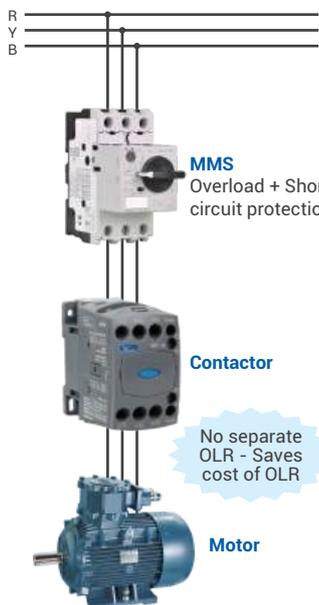
- › Short circuit protection
- › Over current protection





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

- › 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



MMS
Overload + Short circuit protection

Contactor

No separate OLR - Saves cost of OLR

Motor

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) - Frame 1

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



MMSs with bus bar connection



Connecting Busbar link



3 Phase Feed in terminal

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

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

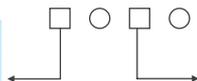
Description	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
240 / 360 / 415V, 50Hz for			
3 - 30 secs.	ST803280000	2020	1
12 - 120 secs.	ST803290000	2020	1

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



SMART CONTROLLER

A Complete Solution for
Smart and Sustainable Farming



AVAILABLE UPTO 75HP



**THEFT
PROTECTION**

of your Controller,
Pump and Cable



**COMPLETE
PROTECTION**

for all electrical faults
including dry run



**REMOTE
OPERATION**

manage your Controller
through Call, SMS &
Mobile App



Explore the futuristic
technology at your fingertips
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DIGITAL SINGLE PHASE CONTROLLER

REDUCE WATER WASTAGE THROUGH AUTOMATION



MANUAL VERSION

- Microcontroller Based Solution
- Dry Run Protection
- 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

**THE
POWER OF
FLEXIBILITY
AND
VERSATILITY**



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**Modular Remote
Control Units**



**Digital Panel
Meters**

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

Enclosed Automatic Transfer Switch

Automatic Solution | Pre-wired | Flexible Settings



Switch to ATS

Now, experience seamless transfer between two power sources...



Convenience

- › Ample Space for Cable Termination
- › Ease of Generator Control (ON-OFF, Cooling Cycle Self-Test)
- › Cyclic Event Logger: Logs 100 Events



Performance

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



Flexibility

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



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	CK90161BS00	85410	1
Enclosed ATS, Frame 2, 160A	160A	CK90162BS00	94250	1
Enclosed ATS, Frame 2, 200A	200A	CK90163BS00	102130	1
Enclosed ATS, Frame 3, 250A	250A	CK90164BS00	116720	1
Enclosed ATS, Frame 3, 315A	315A	CK90165BS00	124820	1
Enclosed ATS, Frame 4, 400A	400A	CK90166BS00	138340	1
Enclosed ATS, Frame 4, 630A	630A	CK90167BS00	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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Changeover Switch-Disconnecter (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 CK90944B000	25520	1
	63	CO1-63	CO106300000	5660	CO106300S00	9070	New CK90945B000	27090	1
	63	CO1-63	CO10630000D ▲	5510			New CK90946B000	33080	1
	100	CO1-100	CO110000000	7530	CO110000S00	11450	New CK90947B000	35180	1
	100	CO1-100	CO11000000D ▲	7360			CK90161B000	43760	1
125	CO1-125	CO112500000	10130	CO212500S00			16850	CK90162B000	53500
Fr 2	125	CO2-125	CO212500000	12210	CO22000S00	21290	CK90163B000	58320	1
	160	CO2-160	CO216000000	13310	CO32500S00	29430	CK90164B000	70560	1
	200	CO2-200	CO22000000A	16170	CO33150S00	30960	CK90165B000	73820	1
Fr 3	250	CO3-250	CO325000000	21530	CO44000S00	45130	CK90166B000	87260	1
	315	CO3-315	CO331500000	22570	CO46300S00	52320	CK90167B000	104160	1
Fr 4	400	CO4-400	CO440000000	33230	-	-	CK90168B000	113100	1
	630	CO4-630	CO463000000	38580	CO58000S00	84690	CK90169B000	151260	1
Fr 5	630	CO5-630 ^α	CO563000000 ^α	47190	CO51000S00	137120	CK90170B000	198330	1
	800	CO5-800	CO580000000	55810	-	-	CK90081B000	245070	1
	1000	CO5-1000	CO510000000	99590	-	-	CK90082B000	300830	1
Fr 6	1250	CO6-1250	CO612500000	132930	-	-	CK90083B000	358810	1
	1600	CO6-1600	CO616000000	157190	-	-	-	-	-
	2000	CO6-2000	CO620000000	241820	-	-	-	-	-

▲ 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 CX5630000D0 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)	CX100020000	500	1
	CO2-(125-200A)	CX200020000	950	1
	CO3-(250-315A)	CX300020000	1360	1
	CO4-(400-630A)	CX400020000	1440	1
	CO5-(630-1000A)	CX500020000	1640	1
	CO6-(1250-2000A)	CX600020000	1820	1
Operating Handle Kit (handle + shaft + center bush + bush clip)	CO1-(63-125A)	CX100010000	830	1
	CO2-(125-200A)	CX300010000	1760	1
	CO3-(250-315A)	CK903920000	1810	1
	CO4-(400-630A)	CX400010000	1850	1
Operating Handle Castell Type Lock [§]	CO6-(1250-2000A)	CX600010000	2260	1
	CO-(125-1000A)	CX400040000	2990	1
	CO6-(1250-2000A)	CX600040000	2990	1
Output shorting link	CO1-(63-125A) Top Side	CX10005000T	880	1
	CO1-(63-125A) Bottom Side	CX10005000B	880	1
Operating Handle for Motorised Changeover	C/O Frame 2 & 3 (125-315A)	CK903740000	1580	1
	C/O Frame 4 & 5 (400-1000A)	CK903780000	1990	1
	C/O Frame 6 (1250-2000A)	CK906450000	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	CK901920000	21190	1
	AuXC-2000 Controller** with wire harness	AuXC-2000 ^β ATC200000000	33200	1
	AuXC-2000 ^β with wire harness	CK900990000	4320	1
Control Accessories	Illuminated Push Button assembly with Wire harness	CK901950000	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	CX1063000C0	2780	1
	HN Size 000	CO2-125	CX2125000D0	5420	1
	HN Size 00	CO2-160	CX2160000D0	7690	1
	HN Size 1	CO3-250	CX3250000D0	10520	1
	HN Size 1	CO3-315	CX3315000D0	11010	1
	HN Size 2	CO4-400	CX4400000D0	15760	1
	HN Size 3	CO5-630	CX5630000D0	31860	1
	HN Size 3	CO5-800	CX5800000D0	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



Suitable for Aluminum Termination

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



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.



Phase Barriers

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



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



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	CK908130000	19090	1
CZ1	160A	CK908140000	21530	1
CZ1	200A	CK908150000	22760	1
CZ1	250A	CK908160000	32410	1
CZ1	315A	CK908170000	36960	1
CZ2	315A	CK908750000	40850	1
CZ2	400A	CK908760000	49840	1
CZ2	630A	CK908770000	59390	1

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)	CK908050000	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]

Customer Interaction Center (CIC)

Phone no: 022-6932 7800

Web: www.LK-EA.com | e-mail: CIC@LK-EA.com

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

Lauritz Knudsen, 01.02.2025

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



DC SD

- › Operational Voltage 1000Vdc & 1500Vdc

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	*

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]

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)

in-built
Neutral Link



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. SK904890000 & SK956810000), order Cat. No. ST978950000
- 6) Please refer Page 37 for Switch-Disconnectors
- 7) Add suffix "0000" to all cat nos.

HRC Fuses [8536]

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 "0000" 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

*Add suffix "0000" to all cat nos.

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

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

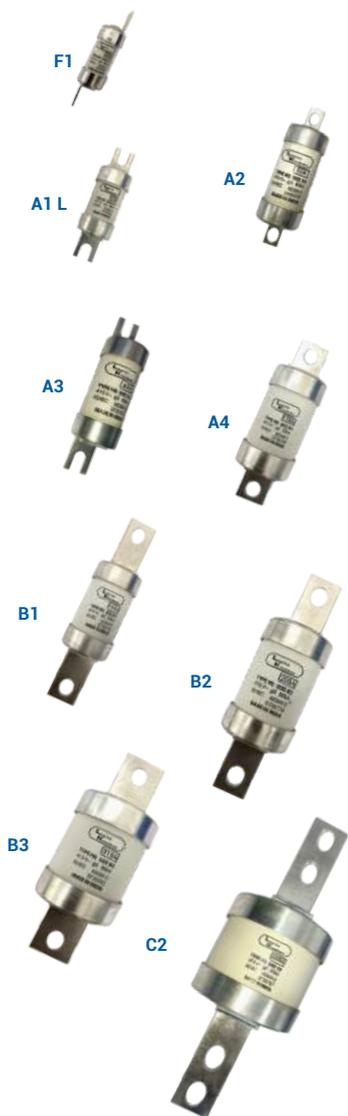
Size	Rated Current (A)	Suitable fuse-link type	Range (A)	Open Execution Type FNX (TPN) S-D-F suitable for DIN fuse-link				Open Execution Type FNX (4P) S-D-F suitable for DIN fuse-link				Std. Pkg. (Nos.)
				Type	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)	Type	Cat. No.	M.R.P. (₹) Per Unit		
Fr 1	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:

- For 690V AC application, please contact nearest branch office.
- The prices for S-D-F range are without HRC fuses
- Add suffix "0000" 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
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



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 "0000" to all cat nos.

Switch-Disconnecter Units [8536]

Type FN & C-Line Switch Disconnecter (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
Castell Type Lock [§]	FNX 315 / 400 / 630 / 800	SK91526	*	1
	FNX 32 / 63 / 100	SK91530	*	1
DIN Rail Assembly	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-Disconnecter [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-Disconnecter FN 1000

Notes: 1) Add suffix "0000" 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	
2 nd Aux. Contact (1NO + 1NC)	FN 800	CK91034 [#]	1080	1	
	FN 32 / 63	SK90670	690	1	
Earthing Link	FN 100 to FN 1000	SK90696	790	1	
	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	
Handle Assembly - A	FN 630 / 800	SK91347 [#]	830	1	
	FN 32 / 63	SK91257	600	1	
	FN 100 to FN 250	SK91258	1280	1	
Handle Assembly - B	FN 315 / 400 / 630 / 800	SK91259 [#]	1410	1	
	FN 32 / 63	SK91277	600	1	
	FN 100 to FN 250	SK91278	1280	1	
Handle Assembly - CE	FN 315 / 400 / 630 / 800	SK91279 [#]	1410	1	
	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

Lauritz Knudsen, 01.02.2025

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





d sine DZ 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	800			
25	DZ0-125C																				
36	DZ0-125D																				
36/50	DZ1																				
36/50/80/120	DZ2																				
36/50/80/120/200												DZ4									
36/50/80/120/200													DZ6		DZ7						



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	DZ0T0016D5C1A0000	10500	DZ0F0016D5C1A0000	14600	1
	16-20		DZ0T0020D5C1A0000	10500	DZ0F0020D5C1A0000	14600	1
	20-25		DZ0T0025D5C1A0000	10500	DZ0F0025D5C1A0000	14600	1
	26-32		DZ0T0032D5C1A0000	10500	DZ0F0032D5C1A0000	14600	1
	32-40		DZ0T0040D5C1A0000	10500	DZ0F0040D5C1A0000	14600	1
	40-50		DZ0T0050D5C1A0000	10500	DZ0F0050D5C1A0000	14600	1
	50-63		DZ0T0063D5C1A0000	10200	DZ0F0063D5C1A0000	14200	1
	64-80		DZ0T0080D5C1A0000	10200	DZ0F0080D5C1A0000	14200	1
	80-100		DZ0T0100D5C1A0000	10200	DZ0F0100D5C1A0000	14200	1
	100-125		DZ0T0125D5C1A0000 ▲	13200	DZ0F0125D5C1A0000 ▲	17700	1
DZ0-125C	13-16	25kA	DZ0T0016CXC1A0000	10800	DZ0F0016CXC1A0000	15200	1
	16-20		DZ0T0020CXC1A0000	10800	DZ0F0020CXC1A0000	15200	1
	20-25		DZ0T0025CXC1A0000	10800	DZ0F0025CXC1A0000	15200	1
	26-32		DZ0T0032CXC1A0000	10800	DZ0F0032CXC1A0000	15200	1
	32-40		DZ0T0040CXC1A0000	10800	DZ0F0040CXC1A0000	15200	1
	40-50		DZ0T0050CXC1A0000	10800	DZ0F0050CXC1A0000	15200	1
	50-63		DZ0T0063CXC1A0000	10500	DZ0F0063CXC1A0000	14700	1
	64-80		DZ0T0080CXC1A0000	10500	DZ0F0080CXC1A0000	14700	1
	80-100		DZ0T0100CXC1A0000	10500	DZ0F0100CXC1A0000	14700	1
	100-125		DZ0T0125CXC1A0000 ▲	14500	DZ0F0125CXC1A0000 ▲	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



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	DZ1T0016DXC1A0000	12700	DZ1F0016DXC1A0000	15800	1
	14-20		DZ1T0020DXC1A0000	12700	DZ1F0020DXC1A0000	15800	1
	17-25		DZ1T0025DXC1A0000	12700	DZ1F0025DXC1A0000	15800	1
	22-32		DZ1T0032DXC1A0000	12700	DZ1F0032DXC1A0000	15800	1
	27-40		DZ1T0040DXC1A0000	12700	DZ1F0040DXC1A0000	15800	1
	34-50		DZ1T0050DXC1A0000	12700	DZ1F0050DXC1A0000	15800	1
	43-63		DZ1T0063DXD1A0000	12300	DZ1F0063DXD1A0000	15300	1
	54-80		DZ1T0080DXD1A0000	12300	DZ1F0080DXD1A0000	15300	1
	67-100		DZ1T0100DXD1A0000	12300	DZ1F0100DXD1A0000	15300	1
	84-125		DZ1T0125DXD1A0000	13800	DZ1F0125DXD1A0000	17100	1
108-160	DZ1T0160DXD1A0000	18100	DZ1F0160DXD1A0000	21600	1		
134-200	DZ1T0200DXD1A0000▲	34900	DZ1F0200DXD1A0000▲	42400	1		
DZ2-160D	11-16	36kA	DZ2T0016DXC1A0000	15200	DZ2F0016DXC1A0000	19000	1
	14-20		DZ2T0020DXC1A0000	15200	DZ2F0020DXC1A0000	19000	1
	17-25		DZ2T0025DXC1A0000	15200	DZ2F0025DXC1A0000	19000	1
	22-32		DZ2T0032DXC1A0000	15200	DZ2F0032DXC1A0000	19000	1
	27-40		DZ2T0040DXC1A0000	15200	DZ2F0040DXC1A0000	19000	1
	34-50		DZ2T0050DXC1A0000	15200	DZ2F0050DXC1A0000	19000	1
	43-63		DZ2T0063DXD1A0000	14700	DZ2F0063DXD1A0000	18400	1
	54-80		DZ2T0080DXD1A0000	14700	DZ2F0080DXD1A0000	18400	1
	67-100		DZ2T0100DXD1A0000	14700	DZ2F0100DXD1A0000	18400	1
	84-125		DZ2T0125DXD1A0000	16600	DZ2F0125DXD1A0000	20500	1
108-160	DZ2T0160DXD1A0000	21700	DZ2F0160DXD1A0000	25900	1		
DZ4-250D	108-160	36kA	DZ4T0160DXD1A0000	29800	DZ4F0160DXD1A0000	36800	1
	134-200		DZ4T0200DXD1A0000	34200	DZ4F0200DXD1A0000	41100	1
	168-250		DZ4T0250DXD1A0000	36000	DZ4F0250DXD1A0000	43300	1
DZ6-400D	134-200	36kA	DZ6T0200DXD1A0000	44500	DZ6F0200DXD1A0000	54300	1
	168-250		DZ6T0250DXD1A0000	46800	DZ6F0250DXD1A0000	57200	1
	215-320		DZ6T0320DXD1A0000	49300	DZ6F0320DXD1A0000	60200	1
	268-400		DZ6T0400DXD1A0000	49300	DZ6F0400DXD1A0000	60200	1
DZ7-800D	335-500	36kA	DZ7T0500DXD1A0000	54300	DZ7F0500DXD1A0000	68400	1
	422-630		DZ7T0630DXD1A0000	54300	DZ7F0630DXD1A0000	68400	1
	536-800		DZ7T0800DXD1A0000	73500	DZ7F0800DXD1A0000	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	DZ1T0016NXC1A0000	17000	DZ1F0016NXC1A0000	20400	1
	14-20		DZ1T0020NXC1A0000	17000	DZ1F0020NXC1A0000	20400	1
	17-25		DZ1T0025NXC1A0000	17000	DZ1F0025NXC1A0000	20400	1
	22-32		DZ1T0032NXC1A0000	17000	DZ1F0032NXC1A0000	20400	1
	27-40		DZ1T0040NXC1A0000	17000	DZ1F0040NXC1A0000	20400	1
	34-50		DZ1T0050NXC1A0000	17000	DZ1F0050NXC1A0000	20400	1
	43-63		DZ1T0063NXD1A0000	16500	DZ1F0063NXD1A0000	19800	1
	54-80		DZ1T0080NXD1A0000	16500	DZ1F0080NXD1A0000	19800	1
	67-100		DZ1T0100NXD1A0000	16500	DZ1F0100NXD1A0000	19800	1
	84-125		DZ1T0125NXD1A0000	21700	DZ1F0125NXD1A0000	23900	1
108-160	DZ1T0160NXD1A0000	23500	DZ1F0160NXD1A0000	28100	1		
134-200	DZ1T0200NXD1A0000▲	38200	DZ1F0200NXD1A0000▲	47900	1		
DZ2-160N	11-16	50kA	DZ2T0016NXC1A0000	20400	DZ2F0016NXC1A0000	24500	1
	14-20		DZ2T0020NXC1A0000	20400	DZ2F0020NXC1A0000	24500	1
	17-25		DZ2T0025NXC1A0000	20400	DZ2F0025NXC1A0000	24500	1
	22-32		DZ2T0032NXC1A0000	20400	DZ2F0032NXC1A0000	24500	1
	27-40		DZ2T0040NXC1A0000	20400	DZ2F0040NXC1A0000	24500	1
	34-50		DZ2T0050NXC1A0000	20400	DZ2F0050NXC1A0000	24500	1
	43-63		DZ2T0063NXD1A0000	19800	DZ2F0063NXD1A0000	23800	1
	54-80		DZ2T0080NXD1A0000	19800	DZ2F0080NXD1A0000	23800	1
	67-100		DZ2T0100NXD1A0000	19800	DZ2F0100NXD1A0000	23800	1
	84-125		DZ2T0125NXD1A0000	26000	DZ2F0125NXD1A0000	28700	1
108-160	DZ2T0160NXD1A0000	28200	DZ2F0160NXD1A0000	33700	1		
DZ4-250N	108-160	50kA	DZ4T0160NXD1A0000	34300	DZ4F0160NXD1A0000	43300	1
	134-200		DZ4T0200NXD1A0000	37400	DZ4F0200NXD1A0000	46900	1
	168-250		DZ4T0250NXD1A0000	39400	DZ4F0250NXD1A0000	49400	1
DZ6-400N	134-200	50kA	DZ6T0200NXD1A0000	44700	DZ6F0200NXD1A0000	55300	1
	168-250		DZ6T0250NXD1A0000	47100	DZ6F0250NXD1A0000	58200	1
	215-320		DZ6T0320NXD1A0000	49600	DZ6F0320NXD1A0000	61300	1
	268-400		DZ6T0400NXD1A0000	49600	DZ6F0400NXD1A0000	61300	1
DZ7-800N	335-500	50kA	DZ7T0500NXD1A0000	58600	DZ7F0500NXD1A0000	75700	1
	422-630		DZ7T0630NXD1A0000	58600	DZ7F0630NXD1A0000	75700	1
	536-800		DZ7T0800NXD1A0000	77600	DZ7F0800NXD1A0000	98800	1
DZ2-160H	11-16	80kA	DZ2T0016HXC1A0000	25100	DZ2F0016HXC1A0000	31900	1
	14-20		DZ2T0020HXC1A0000	25100	DZ2F0020HXC1A0000	31900	1
	17-25		DZ2T0025HXC1A0000	25100	DZ2F0025HXC1A0000	31900	1
	22-32		DZ2T0032HXC1A0000	25100	DZ2F0032HXC1A0000	31900	1
	27-40		DZ2T0040HXC1A0000	25100	DZ2F0040HXC1A0000	31900	1
	34-50		DZ2T0050HXC1A0000	25100	DZ2F0050HXC1A0000	31900	1
	43-63		DZ2T0063HXD1A0000	24300	DZ2F0063HXD1A0000	31000	1
	54-80		DZ2T0080HXD1A0000	24300	DZ2F0080HXD1A0000	31000	1
	67-100		DZ2T0100HXD1A0000	24300	DZ2F0100HXD1A0000	31000	1
	84-125		DZ2T0125HXD1A0000	41700	DZ2F0125HXD1A0000	46100	1
108-160	DZ2T0160HXD1A0000	44400	DZ2F0160HXD1A0000	49700	1		
DZ4-250H	108-160	80kA	DZ4T0160HXD1A0000	46900	DZ4F0160HXD1A0000	52400	1
	134-200		DZ4T0200HXD1A0000	54500	DZ4F0200HXD1A0000	65600	1
	168-250		DZ4T0250HXD1A0000	56800	DZ4F0250HXD1A0000	68300	1
DZ6-400H	134-200	80kA	DZ6T0200HXD1A0000	60100	DZ6F0200HXD1A0000	71100	1
	168-250		DZ6T0250HXD1A0000	62000	DZ6F0250HXD1A0000	73300	1
	215-320		DZ6T0320HXD1A0000	63900	DZ6F0320HXD1A0000	75600	1
	268-400		DZ6T0400HXD1A0000	63900	DZ6F0400HXD1A0000	75600	1
DZ7-800H	335-500	80kA	DZ7T0500HXD1A0000	74600	DZ7F0500HXD1A0000	88900	1
	422-630		DZ7T0630HXD1A0000	74600	DZ7F0630HXD1A0000	88900	1
	536-800		DZ7T0800HXD1A0000	86800	DZ7F0800HXD1A0000	113400	1



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	DZ1T0040DXF1A0000	22800	DZ1F0040DXF1A0000	27800	1
	16-63		DZ1T0063DXF1A0000	22800	DZ1F0063DXF1A0000	27800	1
	25-100		DZ1T0100DXF1A0000	22800	DZ1F0100DXF1A0000	27800	1
	40-160		DZ1T0160DXF1A0000	26900	DZ1F0160DXF1A0000	37400	1
	50-200		DZ1T0200DXF1A0000 ▲	39300	DZ1F0200DXF1A0000 ▲	54400	1
DZ2-160D	10-40		DZ2T0040DXF1A0000	27400	DZ2F0040DXF1A0000	33400	1
	16-63		DZ2T0063DXF1A0000	27400	DZ2F0063DXF1A0000	33400	1
	25-100		DZ2T0100DXF1A0000	27400	DZ2F0100DXF1A0000	33400	1
	40-160		DZ2T0160DXF1A0000	32300	DZ2F0160DXF1A0000	44900	1
DZ4-250D	40-160		DZ4T0160DXF1A0000	38900	DZ4F0160DXF1A0000	54100	1
	63-250		DZ4T0250DXF1A0000	40500	DZ4F0250DXF1A0000	56100	1
DZ6-400D	63-250		DZ6T0250DXF1A0000	47300	DZ6F0250DXF1A0000	61300	1
	100-400		DZ6T0400DXF1A0000	49800	DZ6F0400DXF1A0000	64500	1
DZ7-800D/ DZ7-1000D	158-630		DZ7T0630DXF1A0000	59000	DZ7F0630DXF1A0000	72900	1
	200-800		DZ7T0800DXF1A0000	80000	DZ7F0800DXF1A0000	99000	1
	250-1000	DZ7T1000DXF1A0000 ▲	126100	DZ7F1000DXF1A0000 ▲	174900	1	
DZ1-160N [†] / DZ1-200N	10-40	50kA	DZ1T0040NXF1A0000	26400	DZ1F0040NXF1A0000	36500	1
	16-63		DZ1T0063NXF1A0000	26400	DZ1F0063NXF1A0000	36500	1
	25-100		DZ1T0100NXF1A0000	26400	DZ1F0100NXF1A0000	36500	1
	40-160		DZ1T0160NXF1A0000	33200	DZ1F0160NXF1A0000	43500	1
	50-200		DZ1T0200NXF1A0000 ▲	46300	DZ1F0200NXF1A0000 ▲	58700	1
DZ2-160N	10-40		DZ2T0040NXF1A0000	31700	DZ2F0040NXF1A0000	43800	1
	16-63		DZ2T0063NXF1A0000	31700	DZ2F0063NXF1A0000	43800	1
	25-100		DZ2T0100NXF1A0000	31700	DZ2F0100NXF1A0000	43800	1
	40-160		DZ2T0160NXF1A0000	39800	DZ2F0160NXF1A0000	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	DZ4T0160NXF1A0000	46300	DZ4F0160NXF1A0000	59200	1
	63-250		DZ4T0250NXF1A0000	47700	DZ4F0250NXF1A0000	60500	1
DZ6-400N	63-250		DZ6T0250NXF1A0000	51800	DZ6F0250NXF1A0000	67500	1
	100-400		DZ6T0400NXF1A0000	54500	DZ6F0400NXF1A0000	71000	1
DZ7-800N/ DZ7-1000N	158-630		DZ7T0630NXF1A0000	64000	DZ7F0630NXF1A0000	78000	1
	200-800		DZ7T0800NXF1A0000	89900	DZ7F0800NXF1A0000	114400	1
	250-1000		DZ7T1000NXF1A0000 ▲	154100	DZ7F1000NXF1A0000 ▲	213700	1
DZ2-160H	10-40		DZ2T0040HXF1A0000	37000	DZ2F0040HXF1A0000	46100	1
	16-63		DZ2T0063HXF1A0000	37000	DZ2F0063HXF1A0000	46100	1
	25-100		DZ2T0100HXF1A0000	37000	DZ2F0100HXF1A0000	46100	1
	40-160		DZ2T0160HXF1A0000	48400	DZ2F0160HXF1A0000	60600	1
DZ4-250H	40-160		DZ4T0160HXF1A0000	51000	DZ4F0160HXF1A0000	63900	1
	63-250	DZ4T0250HXF1A0000	57200	DZ4F0250HXF1A0000	78700	1	
DZ6-400H	63-250	DZ6T0250HXF1A0000	66800	DZ6F0250HXF1A0000	88200	1	
	100-400	DZ6T0400HXF1A0000	70300	DZ6F0400HXF1A0000	92800	1	
DZ7-800H/ DZ7-1000H	158-630	DZ7T0630HXF1A0000	74900	DZ7F0630HXF1A0000	109000	1	
	200-800	DZ7T0800HXF1A0000	106000	DZ7F0800HXF1A0000	138600	1	
	250-1000	DZ7T1000HXF1A0000 ▲	173900	DZ7F1000HXF1A0000 ▲	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

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	DZ1T0040DXH1A0000	37900	DZ1F0040DXH1A0000	44200	1
	16-63		DZ1T0063DXH1A0000	37900	DZ1F0063DXH1A0000	44200	1
	25-100		DZ1T0100DXH1A0000	37900	DZ1F0100DXH1A0000	44200	1
	40-160		DZ1T0160DXH1A0000	43600	DZ1F0160DXH1A0000	53700	1
	50-200		DZ1T0200DXH1A0000 ▲	56300	DZ1F0200DXH1A0000 ▲	69100	1
DZ2-160D	10-40		DZ2T0040DXH1A0000	45500	DZ2F0040DXH1A0000	53000	1
	16-63		DZ2T0063DXH1A0000	45500	DZ2F0063DXH1A0000	53000	1
	25-100		DZ2T0100DXH1A0000	45500	DZ2F0100DXH1A0000	53000	1
	40-160		DZ2T0160DXH1A0000	52300	DZ2F0160DXH1A0000	64400	1
DZ4-250D	40-160		DZ4T0160DXH1A0000	57300	DZ4F0160DXH1A0000	70400	1
	63-250		DZ4T0250DXH1A0000	58000	DZ4F0250DXH1A0000	71200	1
DZ6-400D	63-250		DZ6T0250DXH1A0000	65200	DZ6F0250DXH1A0000	75500	1
	100-400		DZ6T0400DXH1A0000	68600	DZ6F0400DXH1A0000	79500	1
DZ7-800D / DZ7-1000D	158-630		DZ7T0630DXH1A0000	75100	DZ7F0630DXH1A0000	91000	1
	200-800		DZ7T0800DXH1A0000	100800	DZ7F0800DXH1A0000	119700	1
	250-1000	DZ7T1000DXH1A0000 ▲	146800	DZ7F1000DXH1A0000 ▲	193800	1	
DZ1-160N* / DZ1-200N	10-40	50kA	DZ1T0040NXH1A0000	42000	DZ1F0040NXH1A0000	50100	1
	16-63		DZ1T0063NXH1A0000	42000	DZ1F0063NXH1A0000	50100	1
	25-100		DZ1T0100NXH1A0000	42000	DZ1F0100NXH1A0000	50100	1
	40-160		DZ1T0160NXH1A0000	49900	DZ1F0160NXH1A0000	59800	1
	50-200		DZ1T0200NXH1A0000 ▲	63600	DZ1F0200NXH1A0000 ▲	77300	1
DZ2-160N	10-40		DZ2T0040NXH1A0000	50400	DZ2F0040NXH1A0000	60100	1
	16-63		DZ2T0063NXH1A0000	50400	DZ2F0063NXH1A0000	60100	1
	25-100		DZ2T0100NXH1A0000	50400	DZ2F0100NXH1A0000	60100	1
	40-160		DZ2T0160NXH1A0000	59900	DZ2F0160NXH1A0000	71800	1
DZ4-250N	40-160		DZ4T0160NXH1A0000	63000	DZ4F0160NXH1A0000	76400	1
	63-250		DZ4T0250NXH1A0000	65600	DZ4F0250NXH1A0000	79700	1
DZ6-400N	63-250		DZ6T0250NXH1A0000	68600	DZ6F0250NXH1A0000	81700	1
	100-400		DZ6T0400NXH1A0000	72200	DZ6F0400NXH1A0000	86000	1
DZ7-800N / DZ7-1000N	158-630		DZ7T0630NXH1A0000	79900	DZ7F0630NXH1A0000	102900	1
	200-800		DZ7T0800NXH1A0000	123200	DZ7F0800NXH1A0000	146300	1
	250-1000	DZ7T1000NXH1A0000 ▲	179400	DZ7F1000NXH1A0000 ▲	236800	1	
DZ2-160H	10-40	80kA	DZ2T0040HXXH1A0000	60000	DZ2F0040HXXH1A0000	71300	1
	16-63		DZ2T0063HXXH1A0000	60000	DZ2F0063HXXH1A0000	71300	1
	25-100		DZ2T0100HXXH1A0000	60000	DZ2F0100HXXH1A0000	71300	1
	40-160		DZ2T0160HXXH1A0000	71400	DZ2F0160HXXH1A0000	79600	1
DZ4-250H	40-160		DZ4T0160HXXH1A0000	75300	DZ4F0160HXXH1A0000	86900	1
	63-250		DZ4T0250HXXH1A0000	86200	DZ4F0250HXXH1A0000	101500	1
DZ6-400H	63-250		DZ6T0250HXXH1A0000	92700	DZ6F0250HXXH1A0000	116000	1
	100-400		DZ6T0400HXXH1A0000	97600	DZ6F0400HXXH1A0000	122100	1
DZ7-800H / DZ7-1000H	158-630		DZ7T0630HXXH1A0000	105700	DZ7F0630HXXH1A0000	145200	1
	200-800		DZ7T0800HXXH1A0000	141900	DZ7F0800HXXH1A0000	177100	1
	250-1000		DZ7T1000HXXH1A0000 ▲	219000	DZ7F1000HXXH1A0000 ▲	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.

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
- › I²T, 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



- › 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	DZ0T0032N5M1A0000	7020	1
	40		DZ0T0040N5M1A0000	7020	1
	63		DZ0T0063N5M1A0000	7020	1
	80		DZ0T0080N5M1A0000	7020	1
	100		DZ0T0100N5M1A0000	7020	1
	125		DZ0T0125N5M1A0000 ▲	9100	1
DZ1-160N/ DZ1-200N	32		DZ1T0032NXM1A0000	9190	1
	40		DZ1T0040NXM1A0000	9190	1
	63		DZ1T0063NXM1A0000	9110	1
	80		DZ1T0080NXM1A0000	9110	1
	100		DZ1T0100NXM1A0000	9110	1
	125		DZ1T0125NXM1A0000	9260	1
	160		DZ1T0160NXM1A0000	11000	1
	200		DZ1T0200NXM1A0000 ▲	20400	1
DZ4-250N	250		DZ4T0250NXM1A0000	24200	1
DZ6-400N	320		DZ6T0320NXM1A0000	30600	1
	400		DZ6T0400NXM1A0000	32100	1
DZ7-800N	500		DZ7T0500NXM1A0000	35400	1
	630	DZ7T0630NXM1A0000	37600	1	
	800	DZ7T0800NXM1A0000	39200	1	

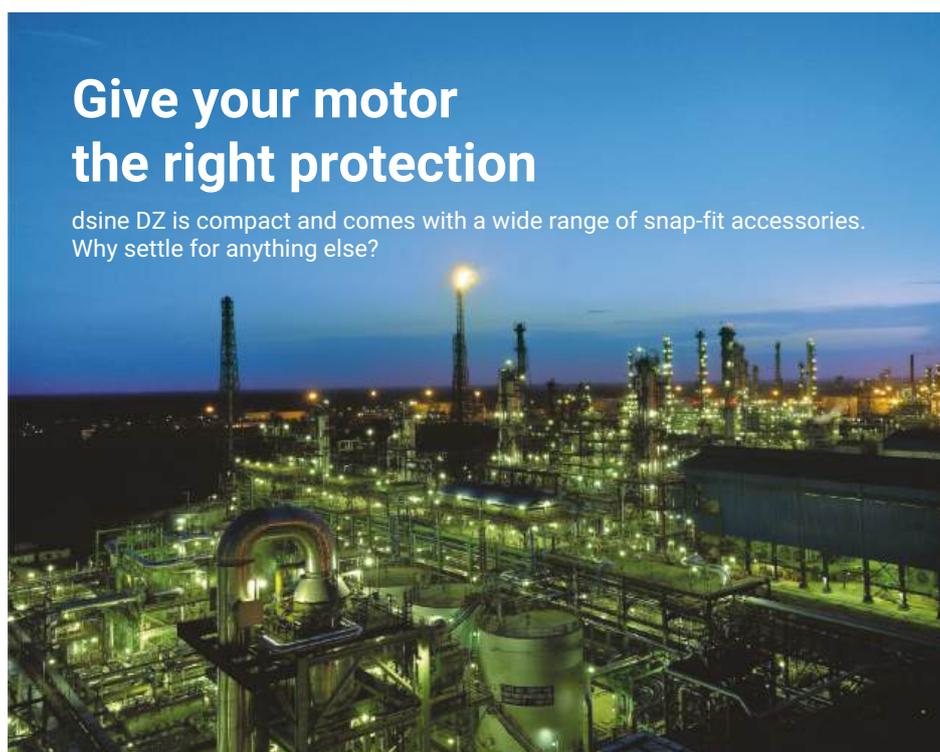
▲- Spreader Terminals are included

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



Representative Application Image



Give your motor the right protection

dsine DZ is compact and comes with a wide range of snap-fit accessories. Why settle for anything else?



d sine 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

d sine 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	DZ6T0200WXd1A0000	*	DZ6F0200WXd1A0000	*	1
	168-250		DZ6T0250WXd1A0000		DZ6F0250WXd1A0000		1
DZ6-400Y	134-200	36kA	DZ6T0200YXd1A0000	*	DZ6F0200YXd1A0000	*	1
	168-250		DZ6T0250YXd1A0000		DZ6F0250YXd1A0000		1
	214-320		DZ6T0320YXd1A0000		DZ6F0320YXd1A0000		1
	268-400		DZ6T0400YXd1A0000		DZ6F0400YXd1A0000		1
DZ7-800Y	335-500		DZ7T0500YXd1A0000		DZ7F0500YXd1A0000		1
	422-630		DZ7T0630YXd1A0000		DZ7F0630YXd1A0000		1
DZ6-400Z	134-200	50kA	DZ6T0200Z8D1A0000	*	DZ6F0200Z8D1A0000	*	1
	168-250		DZ6T0250Z8D1A0000		DZ6F0250Z8D1A0000		1
	214-320		DZ6T0320Z8D1A0000		DZ6F0320Z8D1A0000		1
	268-400		DZ6T0400Z8D1A0000		DZ6F0400Z8D1A0000		1
DZ7-800Z	335-500		DZ7T0500ZXd1A0000		DZ7F0500ZXd1A0000		1
	422-630		DZ7T0630ZXd1A0000		DZ7F0630ZXd1A0000		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.

d sine 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

d sine 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	DZ6T0125WXF1A0000	*	DZ6F0125WXF1A0000	*	1
	40-160		DZ6T0160WXF1A0000		DZ6F0160WXF1A0000		1
	50-200		DZ6T0200WXF1A0000		DZ6F0200WXF1A0000		1
	63-250		DZ6T0250WXF1A0000		DZ6F0250WXF1A0000		1
	80-320		DZ6T0320WXF1A0000		DZ6F0320WXF1A0000		1
	100-400		DZ6T0400WXF1A0000		DZ6F0400WXF1A0000		1
DZ6-400Y	31-125	36kA	DZ6T0125YXF1A0000	*	DZ6F0125YXF1A0000	*	1
	40-160		DZ6T0160YXF1A0000		DZ6F0160YXF1A0000		1
	50-200		DZ6T0200YXF1A0000		DZ6F0200YXF1A0000		1
	63-250		DZ6T0250YXF1A0000		DZ6F0250YXF1A0000		1
	80-320		DZ6T0320YXF1A0000		DZ6F0320YXF1A0000		1
	100-400		DZ6T0400YXF1A0000		DZ6F0400YXF1A0000		1
DZ7-800Y	125-500		DZ7T0500YXF1A0000		DZ7F0500YXF1A0000		1
	156-630		DZ7T0630YXF1A0000		DZ7F0630YXF1A0000		1
	200-800		DZ7T0800YXF1A0000		DZ7F0800YXF1A0000		1
DZ6-400Z	31-125	50kA	DZ6T0125Z8F1A0000	*	DZ6F0125Z8F1A0000	*	1
	40-160		DZ6T0160Z8F1A0000		DZ6F0160Z8F1A0000		1
	50-200		DZ6T0200Z8F1A0000		DZ6F0200Z8F1A0000		1
	63-250		DZ6T0250Z8F1A0000		DZ6F0250Z8F1A0000		1
	80-320		DZ6T0320Z8F1A0000		DZ6F0320Z8F1A0000		1
	100-400		DZ6T0400Z8F1A0000		DZ6F0400Z8F1A0000		1
DZ7-800Z	125-500		DZ7T0500ZXF1A0000		DZ7F0500ZXF1A0000		1
	156-630		DZ7T0630ZXF1A0000		DZ7F0630ZXF1A0000		1
	200-800		DZ7T0800ZXF1A0000		DZ7F0800ZXF1A0000		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)

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

d sine **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	DZ6T0125WXH1A0000	*	DZ6F0125WXH1A0000	*	1
	40-160		DZ6T0160WXH1A0000		DZ6F0160WXH1A0000		1
	50-200		DZ6T0200WXH1A0000		DZ6F0200WXH1A0000		1
	63-250		DZ6T0250WXH1A0000		DZ6F0250WXH1A0000		1
	80-320		DZ6T0320WXH1A0000		DZ6F0320WXH1A0000		1
	100-400		DZ6T0400WXH1A0000		DZ6F0400WXH1A0000		1
DZ6-400Y	31-125	36kA	DZ6T0125YXH1A0000	*	DZ6F0125YXH1A0000	*	1
	40-160		DZ6T0160YXH1A0000		DZ6F0160YXH1A0000		1
	50-200		DZ6T0200YXH1A0000		DZ6F0200YXH1A0000		1
	63-250		DZ6T0250YXH1A0000		DZ6F0250YXH1A0000		1
	80-320		DZ6T0320YXH1A0000		DZ6F0320YXH1A0000		1
	100-400		DZ6T0400YXH1A0000		DZ6F0400YXH1A0000		1
DZ7-800Y	125-500		DZ7T0500YXH1A0000		DZ7F0500YXH1A0000		1
	156-630		DZ7T0630YXH1A0000		DZ7F0630YXH1A0000		1
	200-800		DZ7T0800YXH1A0000		DZ7F0800YXH1A0000		1
DZ6-400Z	31-125	50kA	DZ6T0125Z8H1A0000	*	DZ6F0125Z8H1A0000	*	1
	40-160		DZ6T0160Z8H1A0000		DZ6F0160Z8H1A0000		1
	50-200		DZ6T0200Z8H1A0000		DZ6F0200Z8H1A0000		1
	63-250		DZ6T0250Z8H1A0000		DZ6F0250Z8H1A0000		1
	80-320		DZ6T0320Z8H1A0000		DZ6F0320Z8H1A0000		1
	100-400		DZ6T0400Z8H1A0000		DZ6F0400Z8H1A0000		1
DZ7-800Z	125-500		DZ7T0500ZXH1A0000		DZ7F0500ZXH1A0000		1
	156-630		DZ7T0630ZXH1A0000		DZ7F0630ZXH1A0000		1
	200-800		DZ7T0800ZXH1A0000		DZ7F0800ZXH1A0000		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)

New



**Auxiliary Contact
Trip Alarm Contact**



Shunt Release



UV Release

Internal Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Auxiliary Contact/ Trip Alarm Contact [8538]			
DZ0 Aux/TAC 1 C/o	EM909660000	745	1
DZ1/2/4 Aux/TAC 1 C/o	EM901100000	1170	1
DZ6/7 Aux/TAC 1 C/o	EM901140000	1270	1
Shunt Release [8538]			
DZ0 Shunt 110/240/415V AC	EM905200M00	1005	1
DZ1/2/4 Shunt 415V AC	EM900320P00	3100	1
DZ1/2/4 Shunt 240V AC	EM900320B00	3100	1
DZ1/2/4 Shunt 110V AC	EM900320A00	3100	1
DZ1/2/4 Shunt 48V AC	EM900320J00	3100	1
DZ1/2/4 Shunt 24V AC	EM900320G00	3100	1
DZ1/2/4 Shunt 220V DC	EM900320200	3100	1
DZ1/2/4 Shunt 110V DC	EM900320100	3100	1
DZ1/2/4 Shunt 48V DC	EM900320500	3100	1
DZ1/2/4 Shunt 24V DC	EM900320400	3100	1
DZ1/2/4 Shunt 12V DC	EM900320300	3100	1
DZ6/7 Shunt 415V DC	EM900340P00	3480	1
DZ6/7 Shunt 240V DC	EM900340B00	3480	1
DZ6/7 Shunt 110V DC	EM900340E00	3480	1
DZ6/7 Shunt 48V DC	EM900340J00	3480	1
DZ6/7 Shunt 24V DC	EM900340G00	3480	1
DZ6/7 Shunt 220V DC	EM900340200	3480	1
DZ6/7 Shunt 110V DC	EM900340100	3480	1
DZ6/7 Shunt 48V DC	EM900340500	3480	1
DZ6/7 Shunt 24V DC	EM900340400	3480	1
DZ6/7 Shunt 12V DC	EM900340300	3480	1

Internal Accessories			
Description	Cat No	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Under Voltage Release [8538]			
DZ0 UVR 240V AC	EM90518B000	3050	1
DZ1/2/4 UVR 415V AC	EM90031P000	3900	1
DZ1/2/4 UVR 240V AC	EM90031B000	3900	1
DZ1/2/4 UVR 110V AC	EM90031E000	3900	1
DZ1/2/4 UVR 48V AC	EM90031J000	3900	1
DZ1/2/4 UVR 24V AC	EM90031G000	3900	1
DZ1/2/4 UVR 220V DC	EM900312000	3900	1
DZ1/2/4 UVR 110V DC	EM900311000	3900	1
DZ1/2/4 UVR 48V DC	EM900315000	3900	1
DZ1/2/4 UVR 24V DC	EM900314000	3900	1
DZ1/2/4 UVR 12V DC	EM900313000	3900	1
DZ6/7 UVR 415V AC	EM90033P000	4340	1
DZ6/7 UVR 240V AC	EM90033B000	4340	1
DZ6/7 UVR 110V AC	EM90033E000	4340	1
DZ6/7 UVR 48V AC	EM90033J000	4340	1
DZ6/7 UVR 24V AC	EM90033G000	4340	1
DZ6/7 UVR 220V DC	EM900332000	4340	1
DZ6/7 UVR 110V DC	EM900331000	4340	1
DZ6/7 UVR 48V DC	EM900335000	4340	1
DZ6/7 UVR 24V DC	EM900334000	4340	1
DZ6/7 UVR 12V DC	EM900333000	4340	1

Accessories for 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	EM909690000	1500	1
DZ1 Direct ROM	EM902070000	1630	1
DZ2 Direct ROM	EM902080000	1910	1
DZ4 Direct ROM	EM903860000	2220	1
DZ6 Direct ROM	EM902280000	2760	1
DZ7 Direct ROM	EM903500000	3820	1
DZ0 Extended ROM	EM909700000	2160	1
DZ1 Extended ROM	EM902090000	2200	1
DZ2 Extended ROM	EM902100000	2650	1
DZ4 Extended ROM	EM902930000	3370	1
DZ6 Extended ROM	EM902760000	4450	1
DZ7 Extended ROM	EM903810000	4660	1
Panel Door mounted Key lock for Extended ROM [8301]			
DZ0/1/2/4 Key Lock Type 1	EM990310000	6200	1
DZ0/1/2/4 Key Lock Type 2	EM99031000A	6200	1
DZ0/1/2/4 Key Lock Type 3	EM99031000B	6200	1
DZ0/1/2/4 Key Lock Type 12	EM99031000C	6200	1
DZ0/1/2/4 Key Lock Type 23	EM99031000D	6200	1
DZ6/7 Key Lock Type 1	EM991410000	7350	1
DZ6/7 Key Lock Type 2	EM99141000A	7350	1
DZ6/7 Key Lock Type 3	EM99141000B	7350	1
DZ6/7 Key Lock Type 12	EM99141000C	7350	1
DZ6/7 Key Lock Type 23	EM99141000D	7350	1
Electrical Operating Mechanism [8538]			
DZ1 240V AC	EM90490B000	37700	1
DZ2 240V AC	EM90545B000	41200	1
DZ4 240V AC		*	
DZ6 240V AC	EM90355B000	51600	1
DZ7 240V AC	EM90480B000	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	CM977850000	470	Set of 6
DZ0-100 4 Pole	CM979210000	740	Set of 8
DZ1, DZ2-160 3 Pole	EM906090000	1900	Set of 6
DZ1, DZ2-160 4 Pole	EM906100000	2490	Set of 8
DZ4-250 - 3 Pole	EM940960000	2850	Set of 6
DZ4-250 - 4 Pole	EM940970000	3800	Set of 8
DZ6-400 - 3 Pole	EM906110000	4100	Set of 6
DZ6-400 - 4 Pole	EM906120000	5510	Set of 8
DZ7-630 - 3 Pole	EM970500000	9720	Set of 6
DZ7-630 - 4 Pole	EM970520000	12400	Set of 8
DZ7-800 - 3 Pole	EM970510000	12500	Set of 6
DZ7-800 - 4 Pole	EM970530000	15400	Set of 8
Rear Terminals [8538]			
DZ1-160 3 Pole	EM911760000	5190	Set of 6
DZ1-160 4 Pole	EM911770000	7410	Set of 8
DZ2-160 3 Pole	EM920880000	5750	Set of 6
DZ2-160 4 Pole	EM920890000	8160	Set of 8
DZ4-250 - 3 Pole	EM940580000	6960	Set of 6
DZ4-250 - 4 Pole	EM940590000	9980	Set of 8
DZ6-400 - 3 Pole	EM960450000	9460	Set of 6
DZ6-400 - 4 Pole	EM960460000	13600	Set of 8
DZ7-800 - 3 Pole	EM970450000	11800	Set of 6
DZ7-800 - 4 Pole	EM970460000	17100	Set of 8
Box Clamp Termination [8538]			
DZ1, DZ2-160 3 Pole	EM921760000	4670	Set of 6
DZ1, DZ2-160 4 Pole	EM921770000	6670	Set of 8
DZ4-250 - 3 Pole	EM940940000	6260	Set of 6
DZ4-250 - 4 Pole	EM940950000	8980	Set of 8
DZ6-400 - 3 Pole	EM969850000	8510	Set of 6
DZ6-400 - 4 Pole	EM963700000	12200	Set of 8

Note:

Phase Barriers are supplied along with MCCBs

For 800V Application Spreaders, please contact nearest branch office

Accessories for 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

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

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.)
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 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)	16	20	25	32	40	50	63	80	100	125	160	200	250	320	400	500	630
Icu=Ics (kA)*																	
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	CM9789300C20G	9550	CM9791900C20G	13290	1
	20-25		CM9789300D20G	9550	CM9791900D20G	13290	1
	25-32		CM9789300E20G	9550	CM9791900E20G	13290	1
	32-40		CM9789300F20G	9550	CM9791900F20G	13290	1
	40-50		CM9789300G20G	9550	CM9791900G20G	13290	1
	50-63		CM9789300H20G	9270	CM9791900H20G	12900	1
	63-80		CM9789300J20G	9270	CM9791900J20G	12900	1
	80-100		CM9789300K20G	9270	CM9791900K20G	12900	1
DN0-125D*	100-125		CM906800OLOG	11400	CM906810OLOG	15200	1
DN0-100C	16-20	25	CM9161200COOG	9830	CM9171200COOG	13800	1
	20-25		CM9161200DOOG	9830	CM9171200DOOG	13800	1
	25-32		CM9161200EOOG	9830	CM9171200EOOG	13800	1
	32-40		CM9161200FOOG	9830	CM9171200FOOG	13800	1
	40-50		CM9161200GOOG	9830	CM9171200GOOG	13800	1
	50-63		CM9161200HOOG	9540	CM9171200HOOG	13400	1
	63-80		CM9161200JOOG	9540	CM9171200JOOG	13400	1
	80-100		CM9161200KOOG	9540	CM9171200KOOG	13400	1
DN1-250C	100-125		CM906380OLO	13800	CM906420OLO	16900	1
	125-160		CM906380OMO	17900	CM906420OMO	21700	1
	160-200		CM906380ONO	22900	CM906420ONO	27300	1
	200-250		CM906380OPO	26900	CM906420OPO	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)

dsine 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	CM9200800L10G	20200	CM9210800L10G	25000	1	
	125-160		CM9200800M10G	25700	CM9210800M10G	31700	1	
	160-200		CM9200900N10G	26700	CM9210900N10G	34100	1	
	200-250		CM9200900P10G	30000	CM9210900P10G	36100	1	
DN3B-400D	250-320		CM9840100Q00G	37900	CM9840300Q00G	46200	1	
	320-400		CM9840100R00G	37900	CM9840300R00G	46200	1	
DN3-400D	250-320		CM9400500Q10G	*	CM9410500Q10G	*	1	
	320-400		CM9400500R10G	*	CM9410500R10G	*	1	
DN3-630D	400-500		CM9400600S10G	49400	CM9410600S10G	62200	1	
	500-630		CM9400600T10G	49400	CM9410600T10G	62200	1	
DN2-250N	100-125		50	CM9200500L10G	28000	CM9210500L10G	34100	1
	125-160			CM9200500M10G	29600	CM9210500M10G	37300	1
	160-200	CM9200600N10G		30600	CM9210600N10G	38400	1	
	200-250	CM9200600P10G		32800	CM9210600P10G	41200	1	
DN3-400N	250-320	CM9400300Q10G		41300	CM9410300Q10G	51100	1	
	320-400	CM9400300R10G		41300	CM9410300R10G	51100	1	
DN3-630N	400-500	CM9400400S10G		53300	CM9410400S10G	68800	1	
	500-630	CM9400400T10G		53300	CM9410400T10G	68800	1	
DN2-250S	100-125	70		CM9200200L10G	37900	CM9210200L10G	41900	1
	125-160			CM9200200M10G	40400	CM9210200M10G	45200	1
	160-200			CM9200300N10G	45000	CM9210300N10G	53400	1
	200-250			CM9200300P10G	47300	CM9210300P10G	56900	1
DN3-400S	250-320		CM9400100Q10G	51100	CM9410100Q10G	60500	1	
	320-400		CM9400100R10G	51100	CM9410100R10G	60500	1	
DN3-630S	400-500		CM9400200S10G	67800	CM9410200S10G	80800	1	
	500-630		CM9400200T10G	67800	CM9410200T10G	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)	40	63	100	160	250	400	630	800	1000	1250	
Icu (kA)	DN2					DN3		DN4			
36/50/70/100	DN2					DN3		DN4			
50/70/100	DN2					DN3		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	CM920630000X1	28000	CM921550000X1	35200	1
	25-63		CM920710000X1	28000	CM921540000X1	35200	1
	40-100		CM920510000X1	28000	CM921530000X1	35200	1
	63-160		CM920740000X1	35400	CM921520000X1	49200	1
	100-250		CM920540000X1	36800	CM921510000X1	51000	1
DN3-400D	160-400		CM930010000X1	45300	CM930030000X1	58600	1
DN3-630D	250-630		CM930050000X1	50000	CM930070000X1	66300	1
DN2-250N	16-40	50	CM920640000X1	32800	CM921600000X1	43500	1
	25-63		CM920720000X1	32800	CM921590000X1	43500	1
	40-100		CM920520000X1	32800	CM921580000X1	43500	1
	63-160		CM920750000X1	42100	CM921570000X1	53800	1
	100-250		CM920550000X1	43400	CM921560000X1	55000	1
DN3-400N	160-400		CM930020000X1	49500	CM930040000X1	64500	1
DN3-630N	250-630		CM930060000X1	54400	CM930080000X1	70900	1
DN4-1250N	320-800		CM960210000X1	81700	CM961110000X1	103900	1
	400-1000		CM960220000X1	120900	CM961120000X1	170200	1
	500-1250		CM960230000X1	150900	CM961130000X1	204100	1
DN2-250S	16-40	70	CM920650000X1	33600	CM921650000X1	41900	1
	25-63		CM920730000X1	33600	CM921640000X1	41900	1
	40-100		CM920590000X1	33600	CM921630000X1	41900	1
	63-160		CM920760000X1	44000	CM921620000X1	55100	1
	100-250		CM920560000X1	47700	CM921610000X1	68400	1
DN3-400S	160-400		CM940530000X1	63900	CM941530000X1	84400	1
DN3-630S	250-630		CM940790000X1	68100	CM941790000X1	99100	1
DN4-1250S	320-800		CM960250000X1	96400	CM961150000X1	126300	1
	400-1000		CM960260000X1	138800	CM961160000X1	204400	1
	500-1250		CM960270000X1	179700	CM961170000X1	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

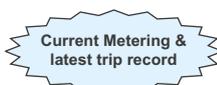
- › Conforms to IS/IEC 60947-2
- › 40A to 1250A, 3P & 4P
- › 36kA, 50kA, 70kA and 100kA breaking capacities
- › Ics=100% Icu
- › Adjustable overload setting from 0.4 to 1.0 x In
- › Adjustable short-circuit setting from 1.5 to 8 x Ir
- › Inbuilt instantaneous Protection
- › Inbuilt ground fault protection 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	CM920630000AG	47900	CM921550000AG	55100	1
	25-63		CM920710000AG	47900	CM921540000AG	55100	1
	40-100		CM920510000AG	47900	CM921530000AG	55100	1
	63-160		CM920740000AG	52100	CM921520000AG	63900	1
	100-250		CM920540000AG	52700	CM921510000AG	64700	1
DN3-400D	160-400		CM930010000AG	62400	CM930030000AG	72300	1
DN3-630D	250-630		CM930050000AG	68300	CM930070000AG	82700	1
DN2-250N	16-40	50	CM920640000AG	52100	CM921600000AG	62100	1
	25-63		CM920720000AG	52100	CM921590000AG	62100	1
	40-100		CM920520000AG	52100	CM921580000AG	62100	1
	63-160		CM920750000AG	54300	CM921570000AG	66000	1
	100-250		CM920550000AG	54700	CM921560000AG	66500	1
DN3-400N	160-400		CM930020000AG	65500	CM930040000AG	78200	1
DN3-630N	250-630		CM930060000AG	72500	CM930080000AG	93500	1
DN4-1250N	320-800		CM960210000AG	112000	CM961110000AG	132900	1
	400-1000		CM960220000AG	144200	CM961120000AG	191100	1
	500-1250		CM960230000AG	180400	CM961130000AG	233400	1
DN2-250S	16-40	70	CM920650000AG	54500	CM921650000AG	64900	1
	25-63		CM920730000AG	54500	CM921640000AG	64900	1
	40-100		CM920590000AG	54500	CM921630000AG	64900	1
	63-160		CM920760000AG	64800	CM921620000AG	72500	1
	100-250		CM920560000AG	71900	CM921610000AG	84600	1
DN3-400S	160-400		CM940530000AG	88700	CM941530000AG	111100	1
DN3-630S	250-630		CM940790000AG	96000	CM941790000AG	132000	1
DN4-1250S	320-800		CM960250000AG	128900	CM961150000AG	161200	1
	400-1000		CM960260000AG	180000	CM961160000AG	234400	1
	500-1250		CM960270000AG	221700	CM961170000AG	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)	CM956980000	35700
Cable (2m length)	CM011960000	1830
Power Supply Module	CL907220000	*
UNCO Module for Status Indication & Control through communication	CL908520000	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	CM9894400EO	6380	1
	40		CM9894400FO	6380	1
	50		CM9894400GO	6380	1
	63		CM9894400HO	6380	1
	80		CM9894400JO	6380	1
	100		CM9894400KO	6380	1
DN1-160M	100		CM9034500KO	10600	1
	125		CM9034500LO	10800	1
	160		CM9034500MO	12900	1
DN2-250M	200		CM9217100NOOG	16500	1
	250		CM9217100POOG	22000	1
DN3-400M	320		CM9451600QOOG	27800	1
	400		CM9451600ROOG	29200	1
DN3-630M	500		CM9451500SOOG	32200	1
	630		CM9451500TOOG	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



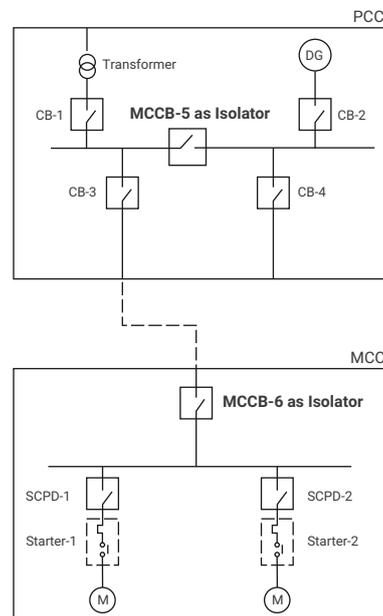
Representative Application Image

d sine DN Switch Disconnecter - 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

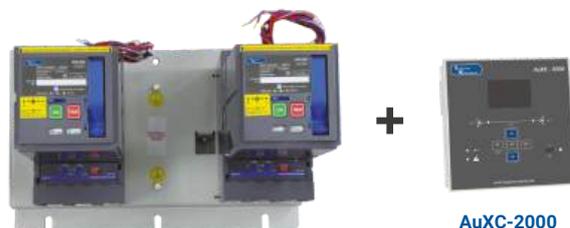
Type	Current Rating (A)	3 Pole		4 Pole		Std. Pkg. (Nos.)
		Cat. No.	M.R.P. (₹) Per Unit	Cat. No.	M.R.P. (₹) Per Unit	
DN0-160SD	32	CM9071600EO	7430	CM9071700EO	9900	1
	63	CM9071600HO	7430	CM9071700HO	9900	1
	100	CM9071600KO	8870	CM9071700KO	11600	1
	125	CM9071600LO	9810	CM9071700LO	12900	1
	160	CM9071600MO	10600	CM9071700MO	13700	1
DN2-250SD	200	CM9681400NOOG	21100	CM9681500NOOG	28100	1
	250	CM9680200POOG	22700	CM9680300POOG	30100	1
DN3B-400SD	320	CM9841000QOOG	33600	CM9841200QOOG	43600	1
	400	CM9841000ROOG	33600	CM9841200ROOG	43600	1
DN3-630SD	500	CM9680600SOOG	38100	CM9680700SOOG	52000	1
	630	CM9680600TOOG	38100	CM9680700TOOG	52000	1
DN4-1250SD	800	CM9304100UO	75900	CM9304200UO	93700	1
	1000	CM9304100VO	101000	CM9304200VO	129000	1
	1250	CM9304100AO	134000	CM9304200AO	166000	1



Representative Application Image

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



Automatic Transfer Controllers (ATC) [9032]

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

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	118840	Add MRPs of Similar 2 MCCBs of DN2 of desired no. of Poles, Breaking Cap. & Release to arrive at ASTS Solution.
DN3-400	+ 1 No. : MIL	141360	Add MRPs of Similar 2 MCCBs of DN3 of desired no. of Poles, Breaking Cap. & Release to arrive at ASTS Solution.
DN3-630	+ 1 No. : AuXC2000	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 DN MCCBs [8538]



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



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	CM9068700L0	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	CM9116100U0	9540	Set of 6
DN4-1000 - 3 Pole	CM9116100V0	19100	Set of 12
DN4-1250 - 3 Pole	CM9116100A0	37700	Set of 6
DN0-100 - 4 Pole	CM979210000	740	Set of 8
DN0-125D - 4 Pole	CM9068800L0	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	CM9006400V0	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 :

Rating (A)	16	20	25	32	40	50	63	80	100	125	160	200	250	320	400
Icu (kA)															
10	DY125U										DY250U1				
18	DU100D								DU125D						
25											DU250C				
30	DU100H								DU125H						
36											DU250				
50											DU400N				

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)	EM9098200B0	2000	AC : 10kA @ 415V AC, 50 Hz/60 Hz DC : 10kA @ 250V DC (3P in series)	EM9098300B0	2450	EM9098400B0	3290	1
	20		EM9098200C0	2000		EM9098300C0	2450	EM9098400C0	3290	1
	25		EM9098200D0	2000		EM9098300D0	2450	EM9098400D0	3290	1
	32		EM9098200E0	2000		EM9098300E0	2450	EM9098400E0	3290	1
	40		EM9098200F0	2000		EM9098300F0	2450	EM9098400F0	3290	1
	50		EM9098200G0	2000		EM9098300G0	2450	EM9098400G0	3290	1
	63		EM9098200H0	1940		EM9098300H0	2380	EM9098400H0	3190	1
	80		EM9098200J0 ▲	2140		EM9098300J0 ▲	2680	EM9098400J0 ▲	3690	1
	100		EM9081200J0	1940		EM9081300J0	2380	EM9081400J0	3190	1
			EM9098200K0 ▲	2140		EM9098300K0 ▲	2680	EM9098400K0 ▲	3690	1
			EM9081200K0	1940		EM9081300K0	2380	EM9081400K0	3190	1
	125		EM9098200L0 ▲	3000		EM9098300L0 ▲	3930	EM9098400L0 ▲	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]



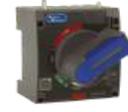
Auxiliary/Trip Alarm Contact



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	EM909660000	745	1
Shunt Release			
Short Rated 110/240/415V AC	EM905200M00	1005	1
Under Voltage Release			
240V AC	EM90518B000	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)	CM977850000	470	Set of 6
4 Pole (upto 100A)	CM979210000	740	Set of 8
Rotary Handle			
Direct ROM	EM909690000	1500	1
Extended ROM	EM909700000	2160	1
SS Enclosure			
Size I Enclosure for 3P & 4P	CM909960000	2450	1

DU MCCB Range [8536]

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	CM9051700CO	5240	CM9051800CO	6790	1
	20-25		CM9051700DO	5240	CM9051800DO	6790	1
	25-32		CM9051700EO	5240	CM9051800EO	6790	1
	32-40		CM9051700FO	5240	CM9051800FO	6790	1
	40-50		CM9051700GO	5240	CM9051800GO	6790	1
	50-63		CM9051700HO	5090	CM9051800HO	6590	1
	63-80		CM9051700JO	5090	CM9051800JO	6590	1
	80-100		CM9051700KO	5090	CM9051800KO	6590	1
DU125D	100-125		CM9067600LO	6170	CM9067700LO	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.	CM978980OC2	4130	30	CM978940OC2	5880	CM979330OC2	7840	1
	20-25		CM978980OD2	4130		CM978940OD2	5880	CM979330OD2	7840	1
	25-32		CM978980OE2	4130		CM978940OE2	5880	CM979330OE2	7840	1
	32-40		CM978980OF2	4130		CM978940OF2	5880	CM979330OF2	7840	1
	40-50		CM978980OG2	4130		CM978940OG2	5880	CM979330OG2	7840	1
	50-63		CM978980OH2	4010		CM978940OH2	5710	CM979330OH2	7610	1
	63-80		CM978980OJ2	4010		CM978940OJ2	5710	CM979330OJ2	7610	1
	80-100		CM978980OK2	4010		CM978940OK2	5710	CM979330OK2	7610	1
DU125H	100-125		CM911980OLO	6230		CM906780OLO	6650	CM906790OLO	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	CM978860000	1170	1
2 C/O - Right	CM978870000	2070	1
Trip Alarm Contact			
1 C/O - Right	CM978880000	1170	1
2 C/O - Right	CM978890000	2070	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	CM978900000	1990	1
Shunt Release			
24V DC - Left	CM914020400	2310	1
110V AC - Left	CM978830A00	2310	1
240/415V AC - Left	CM978830M00	2310	1
Under Voltage Release			
240V AC - Left	CM97892B000	3840	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
DU100H - 2 Pole	CM977850002	310	Set of 4
DU125H - 2 Pole	CM911990OLO	395	Set of 4
DU100D/DU100H - 3 Pole	CM977850000	470	Set of 6
DU125D/DU125H - 3 Pole	CM906870OLO	610	Set of 6
DU100D/DU100H - 4 Pole	CM979210000	740	Set of 8
DU125D/DU125H - 4 Pole	CM906880OLO	880	Set of 8
Rotary Handle			
DU100D/DU125D/ Direct ROM	CM978950000	1490	1
DU100H/DU125H Extended ROM	CM978960000	1930	1
DIN rail kit			
DU100D/DU125D/DU100H/DU125H	CM909440000	175	1
SS Enclosure			
Size I Enclosure	CM909960000	2450	1

Note: Phase Barriers are supplied along with all MCCBs

DU/DY MCCB Range [8536]

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	CM9819500MO▲	7060	CM9819600MO▲	9530	1		
	160-200					CM9819500NO▲	8220	CM9819600NO▲	10700	1		
	200-250					CM9819500PO▲	10700	CM9819600PO▲	14400	1		
DU250C	125-160	-	-	-	25	CM9063100MO	8930	CM9063400MO	11400	1		
	160-200					CM9063100NO	10800	CM9063400NO	13700	1		
	200-250					CM9063100PO	11900	CM9063400PO	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.	-	-	36	CM9090500MO	7620	CM980620000	10400	CM9806500MO	12800	1
	160-200					CM9090500NO	8810	CM980610000	12700	CM9806500NO	17200	1
	200-250					CM9090500PO	9860	CM980600000	14200	CM9806500PO	18800	1
DU400N	250-320		-	-	50	CM9088600QO	17800	CM9840200QO	21300	CM9840400QO	26100	1
	320-400					CM9088600RO	17800	CM9840200RO	21300	CM9840400RO	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	CM978860000	1100	1
2 C/O - Right	CM978870000	1950	1
Trip Alarm Contact			
1 C/O - Right	CM978880000	1100	1
2 C/O - Right	CM978890000	1950	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	CM978900000	1880	1
Shunt Release			
24V DC - Left	CM914020400	2180	1
110V AC - Left	CM978830A00	2180	1
240/415V AC - Left	CM978830M00	2180	1
Under Voltage Release			
240V AC - Left	CM97892B000	3620	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
DU250 - 2 Pole	CM909600000	1460	Set of 4
DU250C/DU250 - 3 Pole	ST980530000	1870	Set of 6
DU250C/DU250 - 4 Pole	CM920070000	2480	Set of 8
Rotary Handle			
Direct ROM	CM980400000	1510	1
Extended ROM	CM980410000	1940	1
SS Enclosure			
Size II Enclosure	CM910030000	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	CM998010000	1360	1
2 C/O	CM998020000	2360	1
Trip Alarm Contact			
1 C/O - Right	CM998030000	1430	1
Auxiliary + Trip Alarm Contact			
1 C/O + 1C/O - Right	CM998040000	2630	1
Shunt Release			
110/240/415V AC, 220V DC	CM998050000	3410@	1
24V DC	CM989760400	3410@	1
Under Voltage Release			
240V AC - Left	CM99986B000	4740	1

Description	External		
	Cat. No.	M.R.P. (₹) Per Unit	Std. Pkg. (Nos.)
Spreader Terminals			
2 Pole	CM909640000	2460	Set of 4
3 Pole	ST980650000	3910	Set of 6
4 Pole	ST980660000	5620	Set of 8
Rotary Handle			
Direct ROM	CM998600000	2470	1
Extended ROM	CM998610000	4060	1

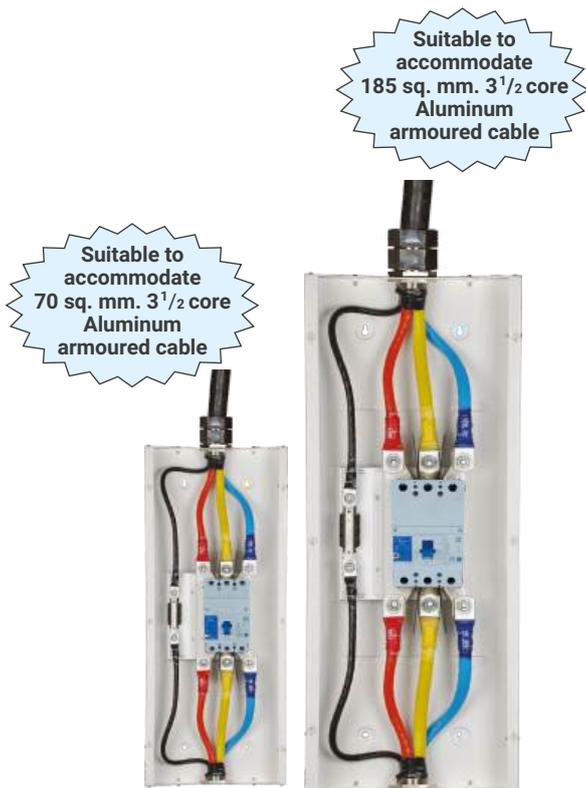
Note:

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

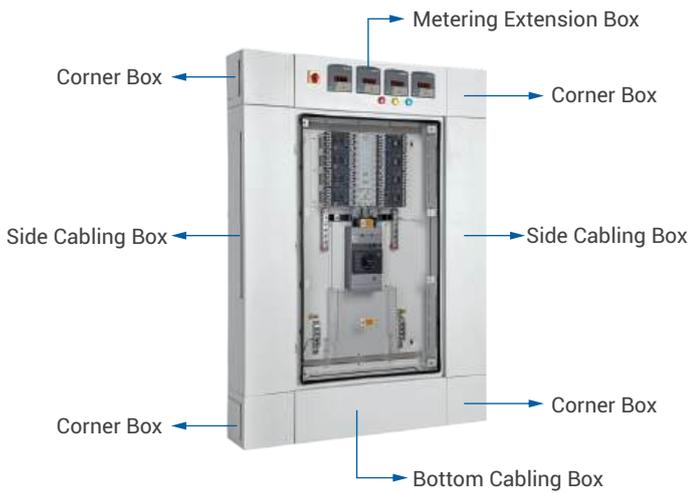
Ground Fault Module [8538]



- › 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	DA20D1044CZZO	-	4	53760	637	670	208.5
SMDB - TN250D, O/G 100A 8 ways	DA20D1084CZZO	-	8	65385	787	670	208.5
SMDB - TN250D, O/G 100A 12 ways	DA20D1124CZZO	-	12	82245	937	670	208.5
SMDB - TN250D, O/G 100A 16 ways	DA20D1164CZZO	-	16	96655	1087	670	208.5
SMDB - TN400D, O/G 100A 4 ways	DA40D1044CZZO	-	4	60240	937	670	208.5
SMDB - TN400D, O/G 100A 8 ways	DA40D1084CZZO	-	8	68640	1087	670	208.5
SMDB - TN400D, O/G 100A 12 ways	DA40D1124CZZO	-	12	88255	1237	670	208.5
SMDB - TN400D, O/G 100A 16 ways	DA40D1164CZZO	-	16	104025	1387	670	208.5
SMDB - TN630D, O/G 100A 8 ways	DA60D1084CZZO	-	8	113810	1287	870	208.5
SMDB - TN630D, O/G 100A 12 ways	DA60D1124CZZO	-	12	153700	1507	870	208.5
SMDB - TN630D, O/G 100A 16 ways	DA60D1164CZZO	-	16	168475	1507	870	208.5
SMDB - TN630D, O/G 250A 4 ways	DA62D1044CZZO	4	-	110840	1067	870	208.5
SMDB - TN630D, O/G 250A 8 ways	DA62D1084CZZO	8	-	124140	1287	870	208.5
SMDB - TN630D, O/G 250A 12 ways	DA62D1124CZZO	12	-	159610	1507	870	208.5
SMDB - TN630D, O/G 250A 16 ways	DA62D1164CZZO	16	-	178825	1727	870	208.5
SMDB - TN630D, O/G COMBI 4 ways	DA6AD1044CZZO	2	2	108625	1067	870	208.5
SMDB - TN630D, O/G COMBI 8 ways	DA6AD1084CZZO	2	6	118230	1287	870	208.5
SMDB - TN630D, O/G COMBI 12 ways	DA6AD1124CZZO	2	10	156650	1507	870	208.5
SMDB - TN630D, O/G COMBI 16 ways	DA6AD1164CZZO	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	CM9063800MO	17900
	DN1-250C 3 Pole MCCB - 200A	CM9063800NO	22900
	DN1-250C 3 Pole MCCB - 250A	CM9063800PO	26900
TN400D	DN3-400D 3 Pole MCCB - 320A	CM9400500Q10G	41100
	DN3-400D 3 Pole MCCB - 400A	CM9400500R10G	41100
TN630D	DN3-630D 3 Pole MCCB - 500A	CM9400600S10G	49400
	DN3-630D 3 Pole MCCB - 630A	CM9400600T10G	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	CM9161200COOG	9830	
	DN0-100C 3 Pole MCCB - 25A	CM9161200DOOG	9830	
	DN0-100C 3 Pole MCCB - 32A	CM9161200EOOG	9830	
	DN0-100C 3 Pole MCCB - 40A	CM9161200FOOG	9830	
	DN0-100C 3 Pole MCCB - 50A	CM9161200GOOG	9830	
	DN0-100C 3 Pole MCCB - 63A	CM9161200HOOG	9540	
	DN0-100C 3 Pole MCCB - 80A	CM9161200JOOG	9540	
	DN0-100C 3 Pole MCCB - 100A	CM9161200KOOG	9540	
	TN630D	DN1-250C 3 Pole MCCB - 160A	CM9063800MO	17900
		DN1-250C 3 Pole MCCB - 200A	CM9063800NO	22900
DN1-250C 3 Pole MCCB - 250A		CM9063800PO	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	CM9043900PO	8300
	Bottom Cabling Box	CM904370000	7780
TN630D	Metering Extension Box	CM9106400TO	8750
	Bottom Cabling Box	CM910620000	8230
TN250D, TN400D & TN630D	Corner Box	CM910890000	2890
	Mounting base	CM702600000	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	CM910850D00	7960	CM910860D00	7960
	-	8	CM910850F00	10280	CM910860F00	10280
	-	12	CM910850H00	12320	CM910860H00	12320
	-	16	CM910850K00	14380	CM910860K00	14380
TN400D	-	4	CM910870D00	12320	CM910880D00	12320
	-	8	CM910870F00	14380	CM910880F00	14380
	-	12	CM910870H00	15750	CM910880H00	15750
	-	16	CM910870K00	17800	CM910880K00	17800
TN630D	-	8	CM911200OFO	14920	CM911210OFO	14920
	-	12	CM911200OHO	17380	CM911210OHO	17380
	-	16				
	4	-	CM911200ODO	13370	CM911210ODO	13370
	8	-	CM911200OFO	14920	CM911210OFO	14920
	12	-	CM911200OHO	17380	CM911210OHO	17380
	16	-	CM911200OKO	18940	CM911210OKO	18940
	2	2	CM911200ODO	13370	CM911210ODO	13370
	2	6	CM911200OFO	14920	CM911210OFO	14920
	2	10	CM911200OHO	17380	CM911210OHO	17380
2	14					

