

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			

- › 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

dsine TM

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		CM9068000LOOG	11400	CM9068100LOOG	15200	1
DN0-100C	16-20	25	CM9161200C00G	9830	CM9171200C00G	13800	1
	20-25		CM9161200D00G	9830	CM9171200D00G	13800	1
	25-32		CM9161200E00G	9830	CM9171200E00G	13800	1
	32-40		CM9161200F00G	9830	CM9171200F00G	13800	1
	40-50		CM9161200G00G	9830	CM9171200G00G	13800	1
	50-63		CM9161200H00G	9540	CM9171200H00G	13400	1
	63-80		CM9161200J00G	9540	CM9171200J00G	13400	1
	80-100		CM9161200K00G	9540	CM9171200K00G	13400	1
DN1-250C	100-125		CM9063800LO	13800	CM9064200LO	16900	1
	125-160		CM9063800MO	17900	CM9064200MO	21700	1
	160-200		CM9063800NO	22900	CM9064200NO	27300	1
	200-250		CM9063800PO	26900	CM9064200PO	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

- › 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

dsine DN MTX1.0

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.

DU/DY MCCB Range [8536]

DU/DY with Thermal - Magnetic Release :

Rating (A) Icu (kA)	16	20	25	32	40	50	63	80	100	125	160	200	250	320	400
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
125	EM9081200K0	1940	EM9081300K0	2380	EM9081400K0	3190	1			
	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		
	Internal		
Description	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

Spreader Terminals	Direct ROM			Extended ROM		
	External					
Description	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			

Accessories for DN MCCBs [8538]

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

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

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

Direct ROM	Extended ROM	Key Lock	
External			
Description	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		
External			
Description	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

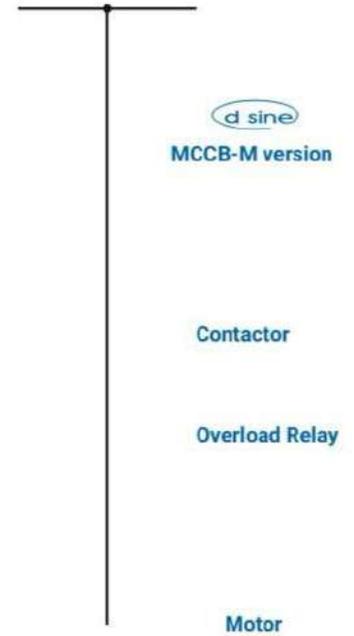
Note:
Phase Barriers are supplied along with MCCBs

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	CM989440OEO	6380	1
	40		CM989440OFO	6380	1
	50		CM989440OGO	6380	1
	63		CM989440OHO	6380	1
	80		CM989440OJO	6380	1
	100		CM989440OKO	6380	1
DN1-160M	100		CM903450OKO	10600	1
	125		CM903450OLO	10800	1
	160		CM903450OMO	12900	1
DN2-250M	200		CM921710ONOG	16500	1
	250		CM921710OPOOG	22000	1
DN3-400M	320		CM945160OQOOG	27800	1
	400		CM945160OROOG	29200	1
DN3-630M	500		CM945150OSOOG	32200	1
	630		CM945150OTOOG	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 MCCB with Microprocessor Release 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

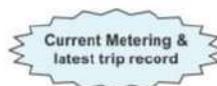
dsine DN MTX2.0

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