



**d sine**

## **Moulded Case Circuit Breakers**

## Introduction

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Larsen & Toubro infuses engineering with imagination. The Company offers a wide range of advanced solutions in the field of Engineering, Construction, Electrical & Automation, Machinery and Information Technology.

L&T Switchgear, a part of the Electrical & Automation business, is India's largest manufacturer of low voltage switchgear, with the scale, sophistication and range to meet global benchmarks. With over five decades of experience in this field, the Company today enjoys a leadership position in the Indian market with a growing international presence.

It offers a complete range of products including powergear, controlgear, industrial automation, building electricals & automation, reactive power management, energy meters, and protective relays. These products conform to Indian and International Standards.

The **d sine** range, a new generation of MCCBs, stands out due to its state-of-the-art design, contemporary user-friendly features, wide choice of protective releases, ergonomics, aesthetics and compactness.

The **d sine** range complies with the latest standards like IEC 60947-2, EN 60947-2 & IS 13947-2. The products conform to international standards, carry CE markings and are **KEMA** & CB certified. The range is specially designed for tropical conditions, ensuring reliable performance at high ambient and humid environments.

The **d sine** range is designed to meet the changing needs of users after extensive analysis and user feedback. The range can satisfy the most demanding system requirements.

The **d sine** range, complimented by a wide range of accessories, offer total solution to customer applications ensuring operational safety, reliability and versatility.



Switchgear Factory, Mumbai

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**DN0**

**DN1**

**DN2**

**DN3**

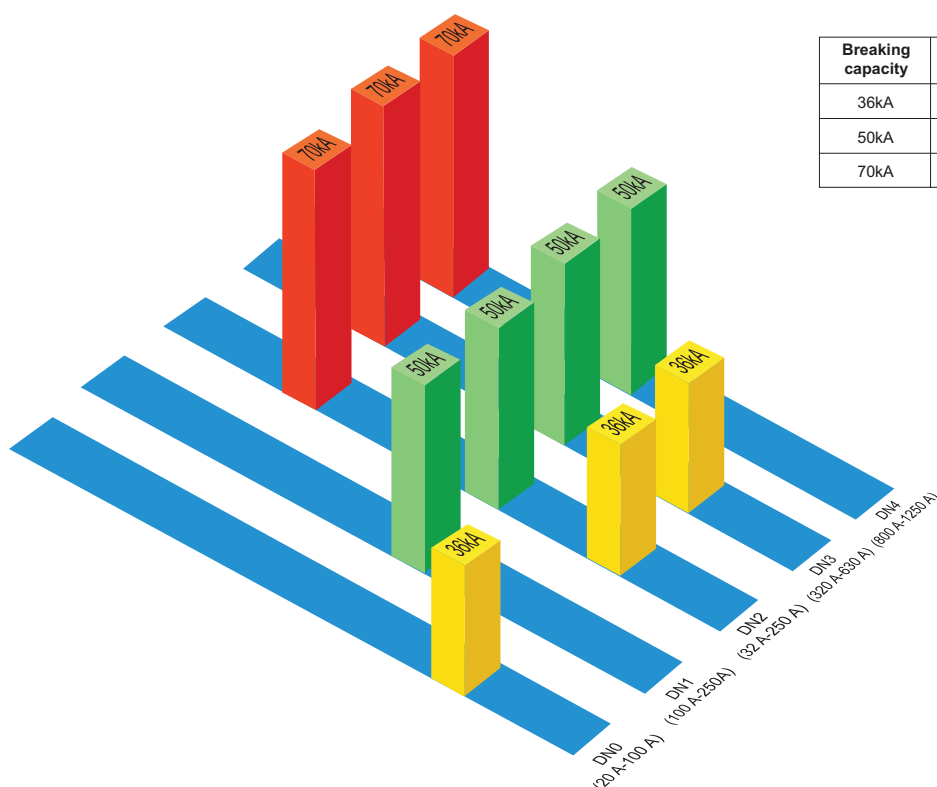
**DN4**

## Features

- ➔ From 20 A to 1250 A
- ➔ 3 Pole & 4 Pole
- ➔ Choice of 36kA/50kA/70kA breaking capacities.
- ➔ With protection releases in Microprocessor, Thermal-Magnetic and only Magnetic
- ➔ MCCBs for motor backup protection
- ➔ MCCBs for distribution and SD versions
- ➔ Manual, rotary or motorised versions
- ➔ Wide range of internal and external accessories

DN0		
Rated Current	20, 25, 32, 40, 50, 63, 80, 100 A	
Release	Thermal-Magnetic	
DN1		
Rated Current	100, 125, 160, 200, 250 A	
Release	Thermal-Magnetic	
DN2		
Rated Current	32, 40, 50, 63, 80, 100, 125, 160, 200, 250 A	40, 63, 100, 160, 250 A
Release	Thermal-Magnetic	Microprocessor
DN3		
Rated Current	320, 400, 500, 630 A	160, 250, 400, 630 A
Release	Thermal-Magnetic	Microprocessor
DN4		
Rated Current	800, 1000, 1250 A	
Release	Microprocessor	

## Breaking Capacities



Breaking capacity	Old Type Designation	New Type Designation
36kA	S (35kA)	D
50kA	H	N
70kA	L	S

Note : Since there is no change in the constructional aspect of the MCCBs, the product Certification with old designation remain valid with new type designation.

## Thermal-Magnetic Release

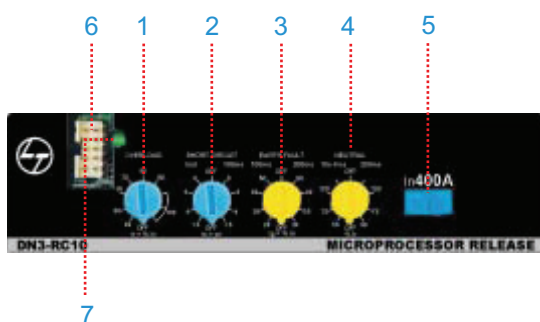


### Features of Thermal-Magnetic Release

- ➔ Adjustable overload settings
- ➔ Adjustable short circuit settings
- ➔ True RMS sensing
- ➔ No contact with live parts

Protection	Settings	
	DN0 & DN1	DN2 & DN3
Overload	80% - 100% $I_n$	80% - 100% $I_n$
Short circuit	9 $I_n$ (fixed)	6 - 10 $I_n$
Earth fault	External	External

## Microprocessor Release




### Features of RC10 Microprocessor Release

- ➔ Overload protection with inverse time delay ①
- ➔ Short circuit protection with selectable time delay ②
- ➔ Instantaneous over ride protection
- ➔ Earth fault protection with selectable time delay ③
- ➔ Neutral protection with selectable time delay ④
- ➔ Push to trip button ⑤
- ➔ Port for release testing and thermal memory bypass ⑥
- ➔ Power ON LED ⑦
- ➔ Self powered protections
- ➔ True RMS sensing

RC10	
Rated Current $I_n$ (A)	From 40 to 1250 A
Overload (Phase)	
Current setting, $I_r$ ( $I_r = X I_n$ )	OFF, 0.4 to 1.0 in steps of 0.1
Time delay, $t_r$ (Inverse)	10 sec at 6 $I_r$
Protection mode	ON / OFF
Overload (Neutral)	
Current setting, $I_r$ ( $I_r = X I_n$ )	0.5, 0.75 & 1.00 $I_r$
	Inverse 10 sec at 6 $I_r$ / Fixed 200ms
Protection mode	ON / OFF
Short Circuit	
Current setting, $I_s$ ( $I_s = X I_r$ )	1.5, 4 & 6 $I_r$ , 8 $I_r$
Time delay, $t_s$	Inst. / 100 msec
Protection mode	ON / OFF
Instantaneous Over ride	
Current setting, $I_p$	DN2-8 $I_n$ , DN3-400-12 $I_n$ , DN3-630-8 $I_n$ , DN4-8 $I_n$
Earth Fault	
Current setting, $I_g$	0.2 to 0.5 $I_n$ steps of 0.1
Time delay, $t_g$	100 / 200 msec
Protection mode	ON / OFF

## Microprocessor Release



**Features of RC20 - Communication Capable**

- Communication using RS 485
- Power on LED
- Backlit LCD display
- Scroll buttons
- Push to trip button
- All features of RC10 release are incorporated
- Metering for current parameters
- Protection against unbalanced load / single phasing
- I<sup>2</sup>t protection
- Neutral protection
- Cold load protection
- User friendly navigation system
- Self powered
- MODBUS RTU protocol

RC20	
Rated Current In (A)	From 160 to 630 A
Overload (Phase)	
Current setting (A), $I_r$ ( $I_r = xI_n$ )	0.4 to 1.0 in steps of 0.1
Time delay, $t_r$ (s) (Inverse)	3, 6, 10, 15, 30 at $6I_r$
Protection mode	ON / OFF
Preset trip alarm setting	0.8 to $1.0I_r$ in steps of 0.05
Thermal memory	ON / OFF
Overload (Neutral)	
Current setting (A), $I_r$	50%, 100%, 150% $I_r$
Protection mode	ON / OFF
Short Circuit	
Current setting (A), $I_s$	1.5, 4, 6, $8I_r$
Time delay (ms), $t_s$	For – I <sup>2</sup> t OFF 20 to 200 in steps of 20
	For – I <sup>2</sup> t ON 60 to 200 in steps of 20
Protection mode	ON / OFF
Preset trip alarm setting	0.8 to 1.0 times $I_s$ in steps of 0.05 $I_s$
Cold load pickup	Enable / Disable
Instantaneous	
Instantaneous	1.5 to $8I_n$ in steps of $0.5I_n / I_r$
Protection mode	ON / OFF
Cold load pickup	Enable / Disable
Instantaneous Over ride	
Current setting (A), $I_p$	DN2- $8I_n$ , DN3-400-12 $I_n$ , DN3-630-8 $I_n$ , DN4-8 $I_n$
Earth Fault	
Current setting (A), $I_g$	0.2 to $0.5I_n$ steps of $0.1I_n$
Time delay (ms), $t_g$	0.1, 0.2, 0.5, 1, 3 sec.
Preset trip alarm setting	0.8 to 1.0 $I_g$ in steps of 0.05
Protection mode	ON / OFF
Cold load pickup	Enable / Disable

## Additional Features of RC20

Current Unbalance	
Current setting (A) $\times I_n$	10% to 100% $I_n$ in steps of 5%
Time delay (s)	1 to 10 in steps of 0.5
Protection mode	ON / OFF
Cold load pickup	Enable / Disable
Temperature Rise	
Alarm / Trip	At 80°C / At 100°C
Metering	
Current	Phase, Neutral and Earth
Display	Backlit LCD
Communication*	
Protocol	MODBUS RTU
Link used	RS 485
Event records	Pickup, Trip, Alarm upto 128 records-volatile memory
Trip history	Last 5 trips records - non volatile memory
Trip counter record	Counts for total number of trips

### Only Magnetic release (for Motor backup protection)

- ➔ Only magnetic with instantaneous protection upto  $10I_n$
- ➔ Fault level protection for complete starter upto 50kA
- ➔ Type 2 charts available for DOL & Star/delta starters

Frame	250 A	400 A	630 A
Type	DN2-250M	DN3-400M	DN3-630M
Current Range (A)	100-250	320-400	500-630
Poles	3P only		
Icu(kA) @ 415V AC, 50Hz	50		

### Switch Disconnecter version (without protection release)

- ➔ Can be used as switching or Isolator devices
- ➔ Higher withstand capacities
- ➔ Wide range of accessories for remote operation

Frame	250 A	400 A	630 A
Type	DN2-250SD	DN3-400SD	DN3-630SD
Current Range (A)	100-250	320-400	500-630
Poles	3/4	3/4	3/4
Icw (kA) for 1sec.	3.6	6	6

\* To establish communication with computer every MCCB with RC20 will require a communication module.

### → Faster tripping

The unique speed contact system accelerates the opening of contacts during short circuit. This ensures faster tripping an ultimate current limiting feature. The result-very low let-through, cut-off current and fault clearing time

### → Mechanical Anti-reclosing

This unique feature ensures that under short circuit conditions, the contacts open and latch even before the release gives a trip command to the mechanism. This avoids contact re-closing and bounce

### → Low watt loss

The entire current carrying path is optimally designed to achieve very low watt loss



### → Positive Isolation

The MCCB knob indicates the true position of the contacts

### → Double Insulation

The internal accessories are housed in insulated casings to ensure first level of insulation. When the front cover is opened for the fixing of internal accessories, the MCCB is totally insulated ensuring the double insulation

### → Marking

CE Marking ensures use of superior engineering plastic, meeting all requirements of flammability and glow wire testing path is optimally designed to achieve very low watt loss

Extra Grip on Handle



### → Common Internal accessories

The internal accessories remain same across DN0 / DN1 & DN2 / DN3 / DN4\* and they are easy to install snap fit type



### → No load line bias

Either side of MCCB terminal can be used as load or line

### → Terminal finger proofing

Front terminal plates conceal the terminals to prevent human contact thus achieving complete finger proofing

### → Release shrouding

Release is shrouded from the front thus preventing tampering by unauthorized person

### → Safer release adjustments

No live parts are in contact during release adjustments



### → Common front adjustments for protection release

Overload & short circuit setting can be adjusted from front using a common knob for all the poles

### → Visibility

Push to trip button and release ratings are visible even when release plate is fitted



\* Except under voltage release.

## Internal Accessories



**Auxiliary Contact**

### List of Internal Accessories

- ➔ Auxiliary Contact 1 C/O
- ➔ Auxiliary Contact 2 C/O
- ➔ Trip Alarm Contact
- ➔ Auxiliary & Trip Alarm Contact
- ➔ Shunt Release
- ➔ Under Voltage Release

Range of MCCBs are offered with snap-fit type, easily installable internal accessories. There is no need to open main cover and no live parts are accessed during installation. TAC, Aux+TAC to be fitted in the right cavity & under voltage release to be fitted in left cavity.



**MCCB with mid cover opened & Internal accessories fitted**

## External Accessories

### Extended Rotary Handle (Panel Mounted)

- ➔ ROM mounts directly on MCCB without removal of mid cover
- ➔ Clear ON/OFF/TRIP indication
- ➔ Clear view of MCCB rating label with ROM mounted
- ➔ Direct access to push to trip button with ROM mounted
- ➔ IP 54 degree of protection with extended rotary handle
- ➔ Unique coupling to allow  $\pm 3\text{mm}$  tolerance
- ➔ Door interlock in ON position, with defeat facility
- ➔ Door interlock in OFF condition with padlock feature
- ➔ Auto restoration of door interlock
- ➔ External keylock for mechanical interlocking



**Extended Rotary Handle:  
Panel Mounted**



**Panel Door Mounted Key lock**  
(To be used along with extended rotary handles)



### Rotary Operating Mechanism

The rotary operating mechanism (ROM) for MCCBs are available in Direct & Extended versions.

### Direct rotary handle (MCCB mounted)

These versions are available for the entire family of MCCBs.

## Mechanical Interlocking Schemes

### 1. Mechanical Interlocking Kit:

Two MCCBs can be interlocked using base plate mechanism, in side-by-side configuration.

#### Features

- ➔ For 3 Pole & 4 Pole versions
- ➔ For DN2 & DN3 frames
- ➔ Site fittable



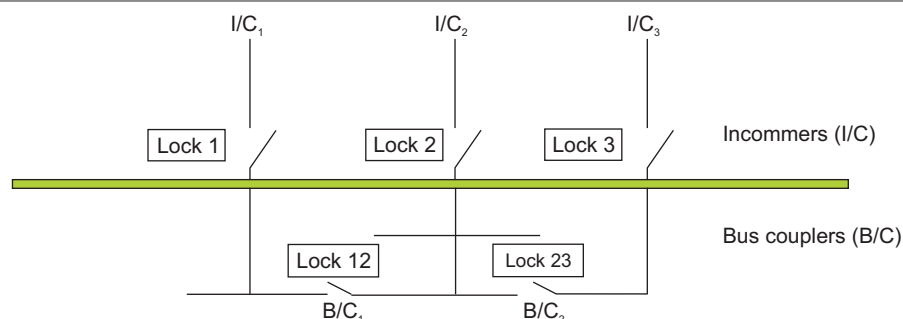
MIL with Base Plate

### 2. Mechanical Interlocking using Key locks:

For mechanical interlocking through Extended Rotary operating mechanism, a panel mounted key lock is available. The selection of the key lock as per the following details,

2 I/C	Any 1 type of lock for both MCCBs
2 I/C and 1 B/C	Lock 1 and Lock 2 for I/C and Lock 12 for B/C
3 I/C and 2 B/C	Locks 1, 2, 3 for I/Cs and Locks 12, 23 for B/Cs

## Key Lock Selection



Type of lock	Exclusively operable by Key Nos.
1	1
2	2
3	3
12	1, 2 & 12
23	2, 3 & 23

## External Neutral CTs

### Features

- Add on accessory for 3P MCCB
- Reliable solution for Earth / Neutral fault protection for 3 Phase 4 wire system



## Stored Energy Electrical Operating Mechanism

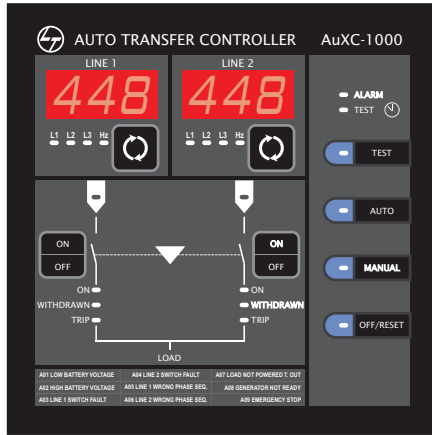
### Features

- ON / OFF & Charged/Discharged indication
- Foolproof mounting
- Selector switch for Auto/Manual operation
- Padlock facility for locking in OFF position(3 nos locks)
- Resetting time < 250msec & Closing time< 90 msec
- Higher mechanical & electrical endurance
- Back up fuse for extended motor protection
- Easy access to the protection setting on MCCB
- True indication for ON/OFF & Trip

DN3 SE EOM data sheet	
Operating voltage (V AC)	240
Operating voltage (%)	85-110%
Closing time (ms)	90
Opening time (ms)	250
Power consumption (VA)	500
Life / No. of operations	5000
Door cut out (mmXmm)	96X96
IP protection, on the front	IP30
Operating frequency	1/min
Min. control impulse time (ms)	200



## Automatic Source Transfer Switch Controller AuXC-1000



The AuXC-1000 controller brings simplicity and flexibility to an auto source transfer system. It has been developed to control and supervise the automatic or manual transfer of a utility load from a principal power supply source to a stand-by. It sets a new benchmark in Auto source transfer switch controller technology.

It includes all the necessary features to supervise and control power supply sources, composed by energy distribution systems or generating sets, and the relative transfer equipment, such as contactors, motorized moulded case circuit breakers and air circuit breakers.

**The automatic transfer takes place through AuXC-1000 whenever conditions predefined by the user take place, for example:**

- Power supply source not respecting programmed limits
- The need to have a very reliable power source
- The need to use the most economical power source

**Some of the key features of this controller are:**

- Front display for monitoring the system voltage and frequency and for onsite controller programming
- Six programmable inputs and five programmable outputs
- Front test feature to simulate the operation of the diesel generator set
- Status indication through 22 LEDs
- Flush mounting arrangement
- Communication capable

The AuXC-1000 controller is compatible with U-Power range of Air circuit breakers, [d sine](#) range of MCCBs and MCX range of contactors.



## Technical Data



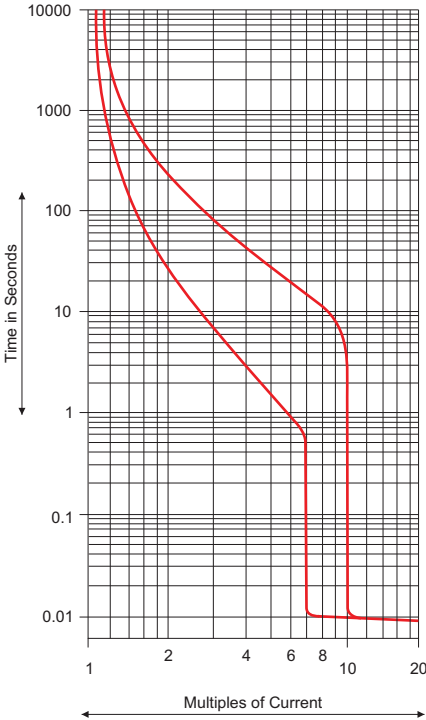
Frame			100 A	250 A	250 A	400 A	630 A	800 / 1000 / 1250 A							
Type			DN0-100	DN1-250	DN2-250	DN3-400	DN3-630	DN4-1250							
			D	N	D	N	S	D	N	S					
Current Range (A)			20, 25, 32, 40, 50, 63, 80 & 100 A	100, 125, 160, 200, 250 A	32, 40, 50, 63, 100, 125, 160, 200 & 250 A	63, 160, 250, 320, 400	63, 160, 250, 320, 400, 630 A	800, 1000, 1250							
Poles			3 / 4	3 / 4	3 / 4	3 / 4	3 / 4	3 / 4							
Impulse withstand Voltage (kV)			6	6	8	8	8	8							
Rated Operational Voltage (V) (MAX)			600	600	690	690	690	690							
Rated Insulation Voltage (V)			690	690	750	750	750	750							
Utilisation Category			A	A	A	A	A	A							
Standard			IEC / EN / IS	IEC / EN / IS	IEC / EN / IS	IEC / EN / IS	IEC / EN / IS	IEC / EN / IS							
IEC-60947-2	Icu (kA)	230 / 240 V	65	65	65	70	100	65	70	100	65	70	100	70	100
		400 / 415 V	36	50	36	50	70	36	50	70	36	50	70	50	70
		500 V	10	10	25	36	42	25	36	42	25	36	42	25	36
		550 V	8	8	18	25	36	15	20	25	15	20	25	20	25
		600 V	5	5	16	18	22	12	18	22	12	18	22	16	20
		690 V	*	*	10	15	20	8	15	20	8	10	15	10	18
		250 V DC (3P in series)	15	15	15	25	36	15	25	36	15	25	36	-	-
		500 V DC (3P in series) U/R<15msec	5	10	5	10	20	5	10	20	5	10	16	-	-
	Ics as % Icu		50%	50%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Life span		Mechanical	30000	10000	25000			15000			15000			8000	
		Electrical @1.0 In	4000	3000	10000			4000			2000			750	
Operating Frequency (Hz)			50 / 60												
Total Opening Time			<10 msec												
Finger-proof Terminals			Yes												
Ambient Temperature			-5° to 55° C												
Storage Temperature			-35° to 70° C												
Mounting Positions			Vertical and 90° in both directions												
Dimensions (W x D x H) mm <sup>3</sup>		3-Pole	75 x 60 x 130	105 x 60 x 165	105 x 96 x 179			140 x 111.5 x 266			140 x 111.5 x 266			278 x 143 x 370	
		4-Pole	100 x 60 x 130	140 x 60 x 165	140 x 96 x 179			183.5 x 111.5 x 266			183.5 x 111.5 x 266			278 x 143 x 370	
Weight (kg) (3/4 Pole)			1 / 1.25	1.45 / 1.8	2.5 / 3.3			5.5 / 7.2			6 / 7.8			15 / 16	
ACCESSORIES	Internal	Auxiliary Contact	1C/O or 2C/O	1C/O or 2 C/O	1C/O or 2C/O			1C/O or 2C/O			1C/O or 2C/O			1C/O or 2C/O	
		Trip Alarm Contact	1C/O or 2C/O	1C/O or 2 C/O	1C/O			1C/O			1C/O			1C/O	
		Auxiliary & Trip Alarm Contact	1C/O + 1C/O	1C/O + 1 C/O	1C/O + 1C/O			1C/O + 1C/O			1C/O + 1C/O			1C/O + 1C/O	
		Shunt Release \$	240 / 415 V AC 50 / 60 Hz	240 / 415 V AC 50 / 60 Hz	110 / 415 V AC 50 / 60 Hz, 110 / 220 V DC			110 / 415 V AC 50 / 60 Hz,110 / 220 V DC			110 / 415 V AC 50 / 60 Hz,110 / 220 V DC			110 / 415 V AC 50 / 60 Hz, 110 / 220 V DC	
		Under Voltage Release	240 V AC 50 Hz	240 V AC 50 Hz	220 - 240 V AC 50 Hz			220 - 240 V AC 50 Hz			220 - 240 V AC 50 Hz			220 - 240 V AC 50 Hz	
		Rotary Operating Mechanism	✓	✓	✓			✓			✓			✓	
	External	Electrical Operating Mechanism	x	x	✓			✓			✓			x	
		Earth Fault Release	Available with external GF module with TM release			Available with external GF module with TM release and Inbuilt protection with Microprocessor release									
		Mechanical Interlock	x	x	✓			✓			✓			x	
		Spreader Links	✓	✓	✓			✓			✓			✓	
		Key lock	x	x	✓			✓			✓			✓	
		Pad lock through ROM	✓ #	✓	✓			✓			✓			✓	

\$ : 'NO' of control contactor to be connected in series for 220V DC application.

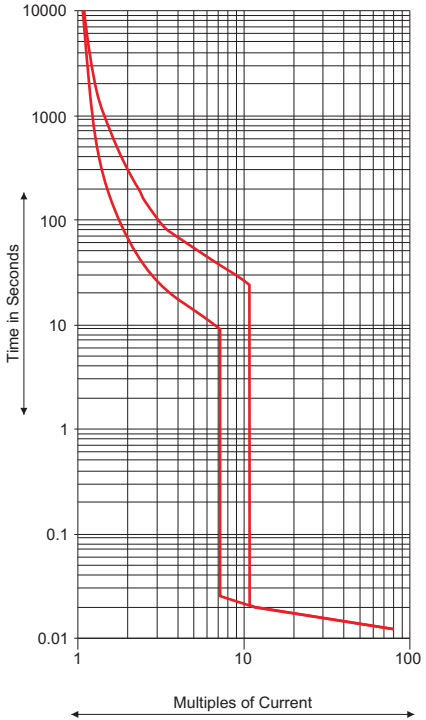
- Note:
- Any two internal accessories can be mounted at a time
  - For special application like capacitor switching, DC please contact nearest branch office
  - For motor application, use 'M' series MCCBs (DN2M, DN3M)
  - Available on request.
  - # Direct Pad locking available

Thermal-Magnetic Release

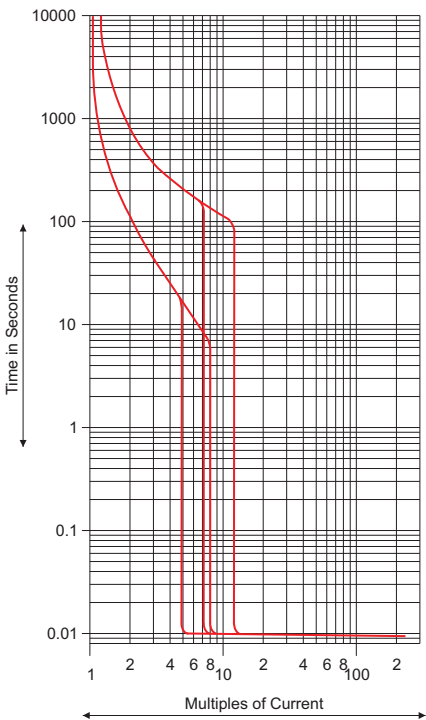
DN0-100



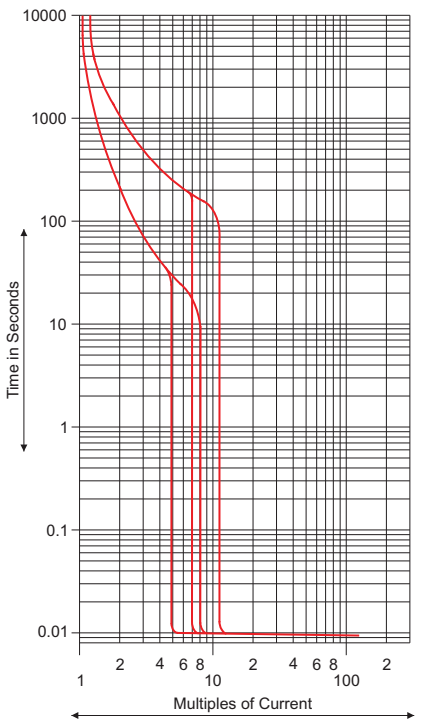
DN1-250



DN2-160/250

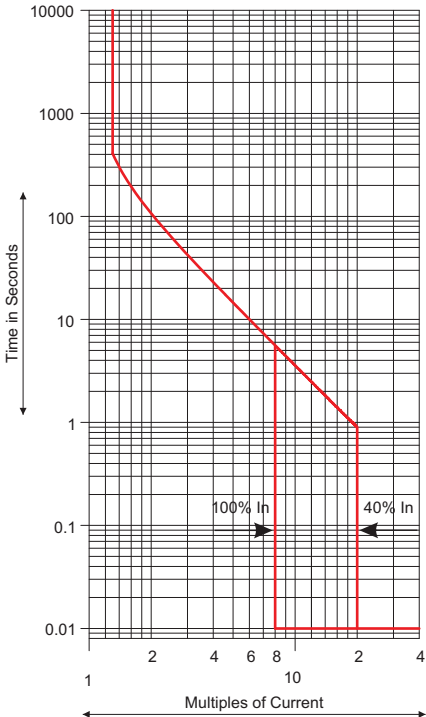


DN3-400/630

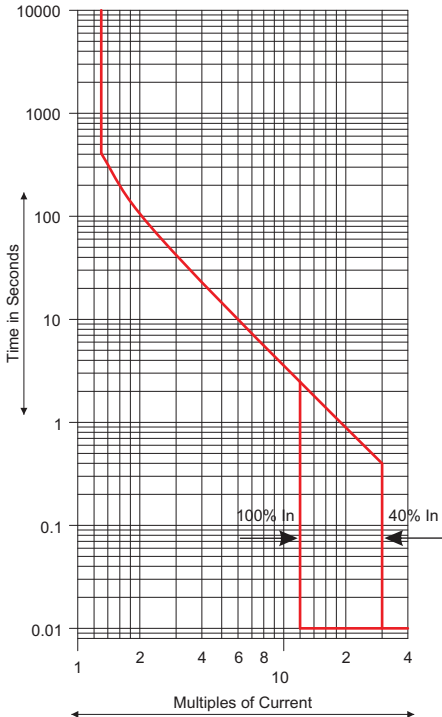


Microprocessor Release-RC10

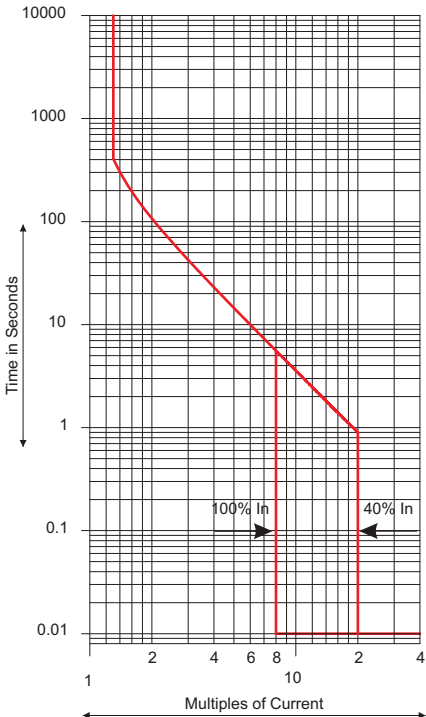
DN2-250A



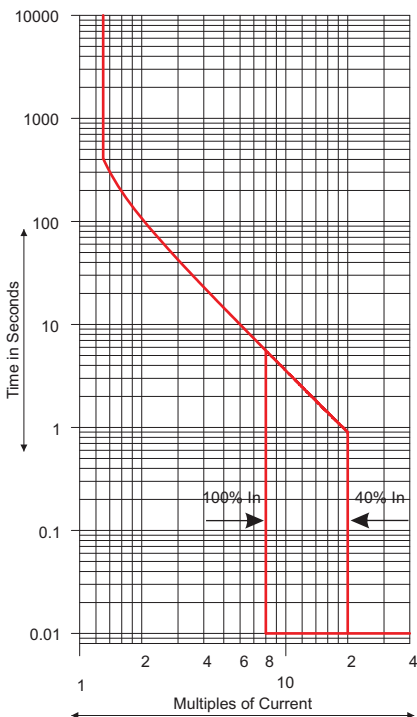
DN3-400A



DN3-630A



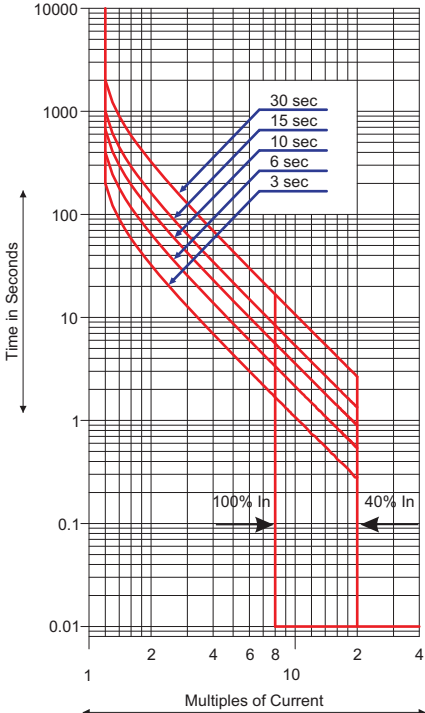
DN4-1250A



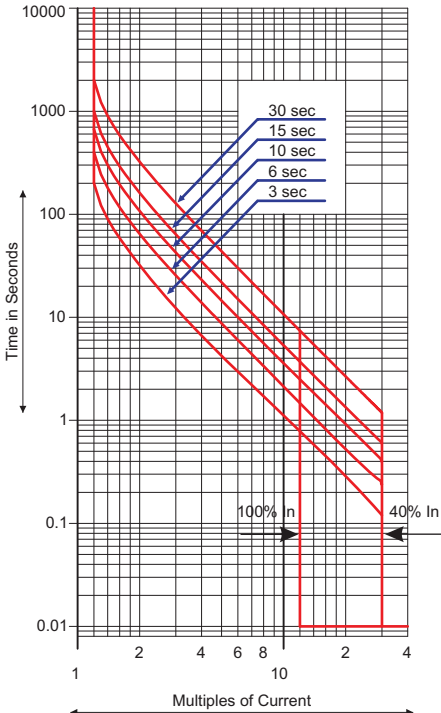


Microprocessor Release-RC20

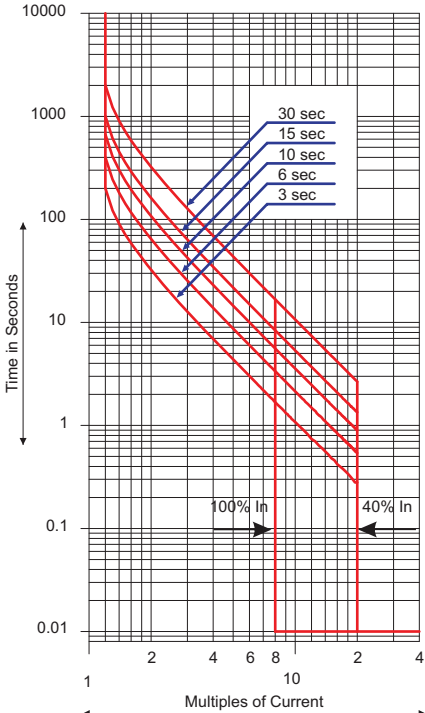
DN2-250A



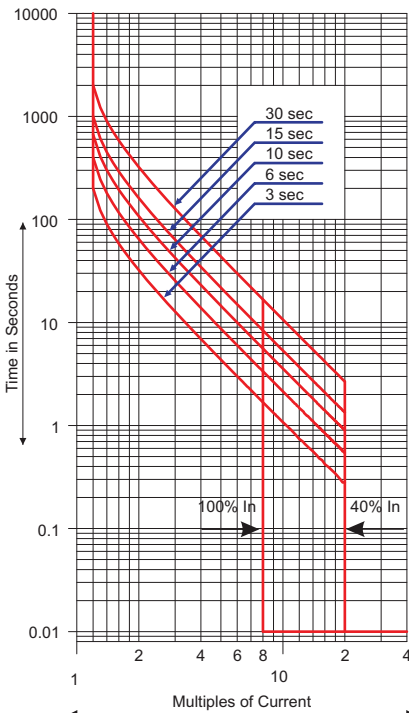
DN3-400A



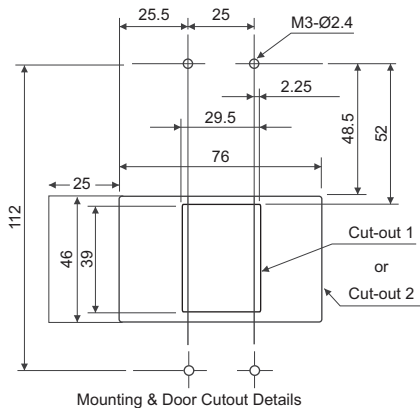
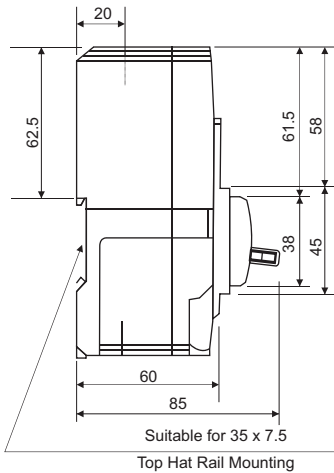
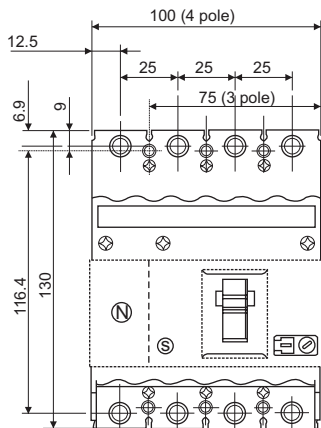
DN3-630A



DN4-1250A



DN0-100 MCCB

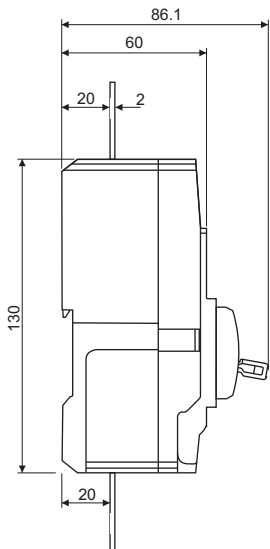
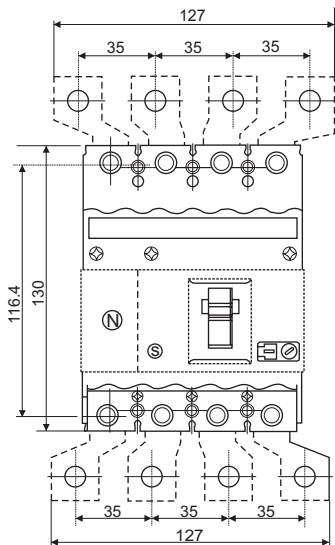
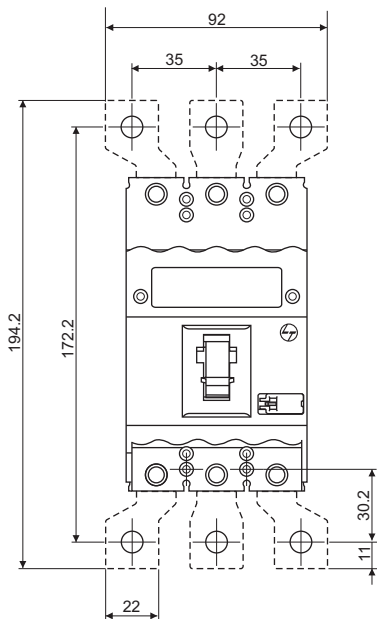


Recommended CAT number for DN0 spreaders

3P	4P
CM977850000	CM979210000

Note : Spreaders are available as spare

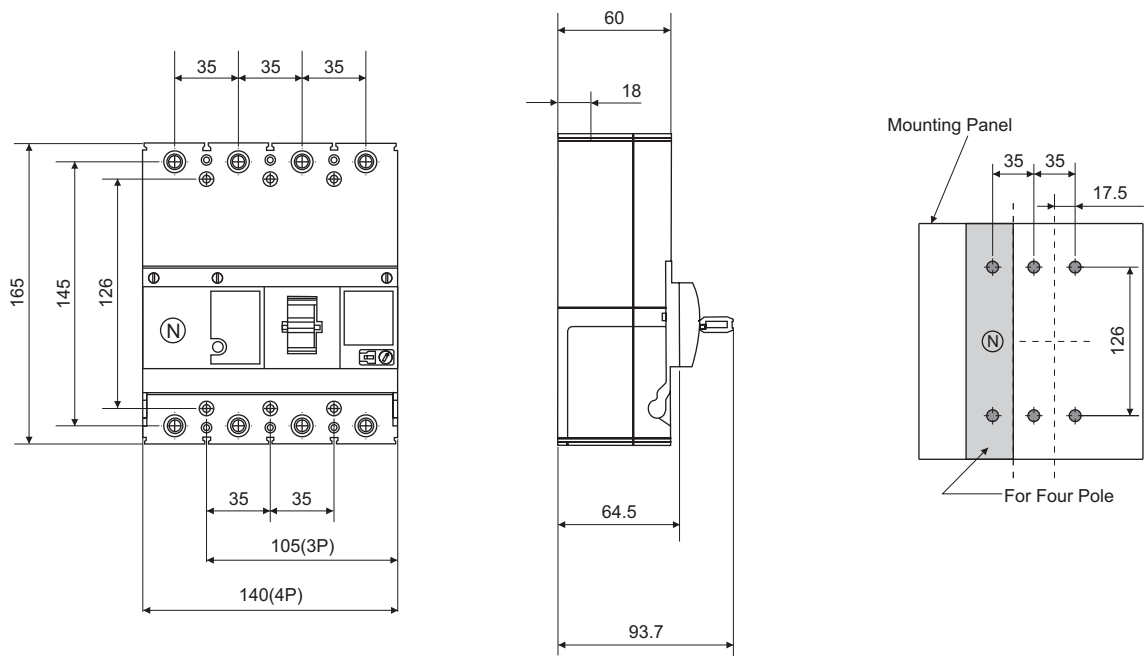
DN0-100 with Spreader Links



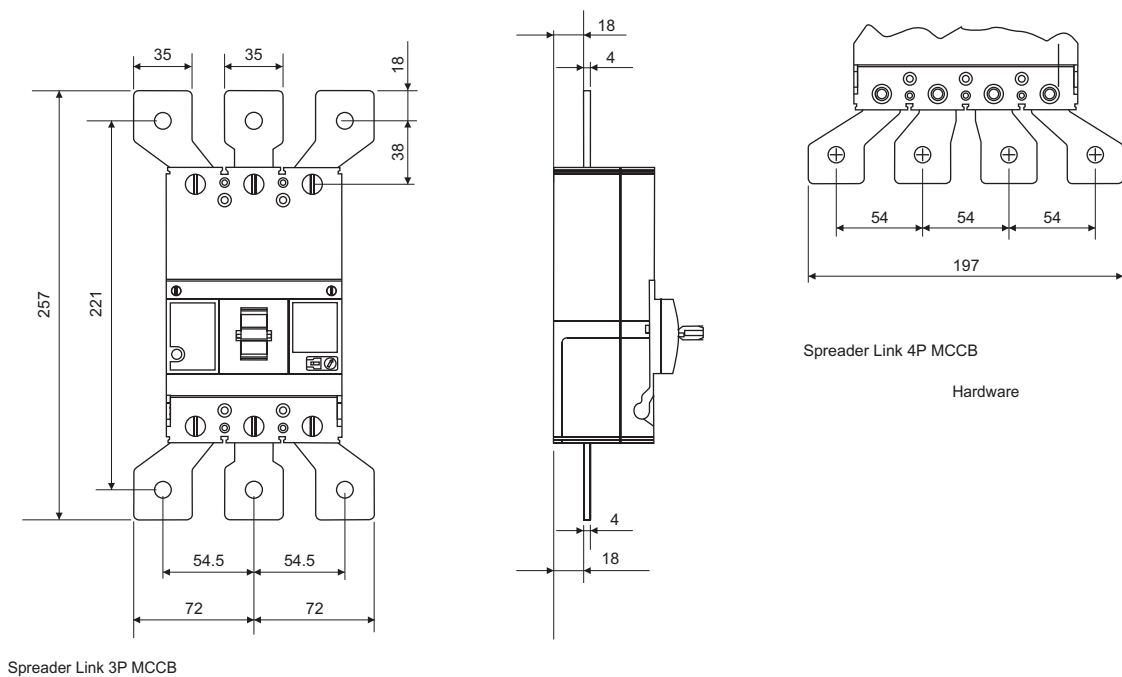
Note : Spreaders are available as spare. It is recommended to use spreader links for enhancing termination capacity

All dimension are in mm

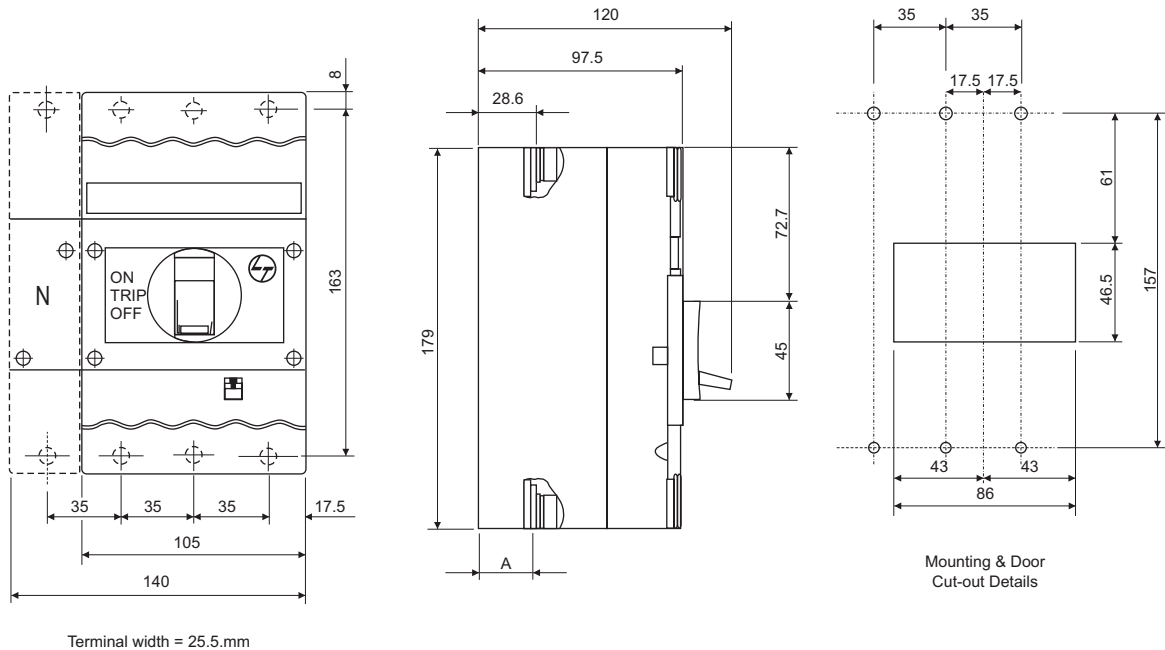
DN1-250 MCCB



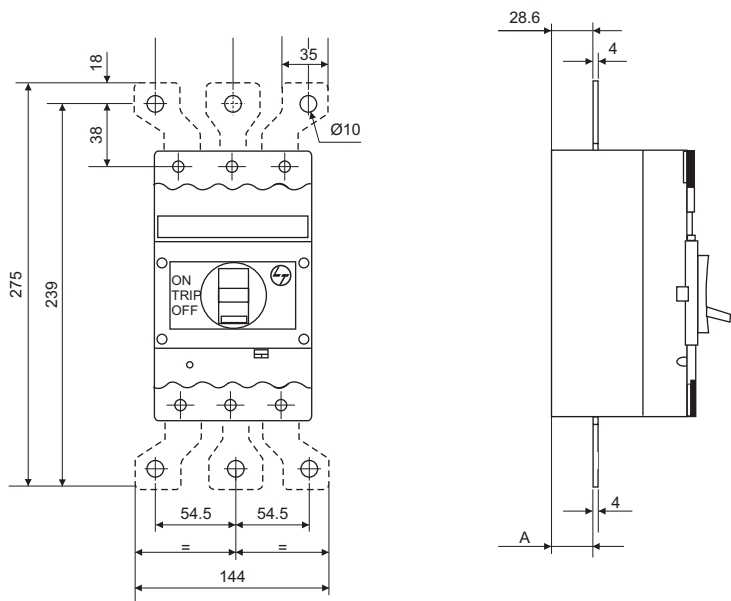
DN1-250 with Spreader Links



DN2-250 MCCB



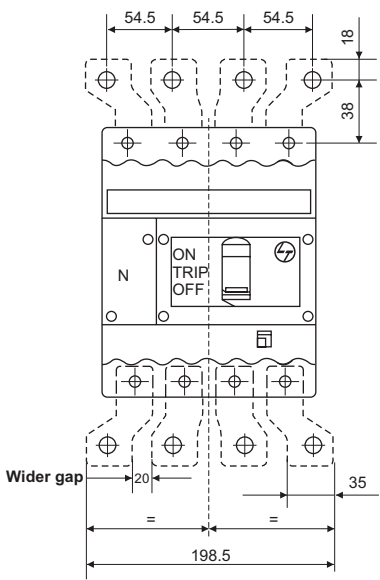
DN2-250 3P  
with Spreader Links



Rating	Dimension (A)
125-250A TM	26
63-100A TM	25.5
32-50A	26.25
RC breakers	28

Note : Spreaders are available as spare. It is recommended to use spreader links for enhancing termination capacity.

DN2-250 4P  
with Spreader Links

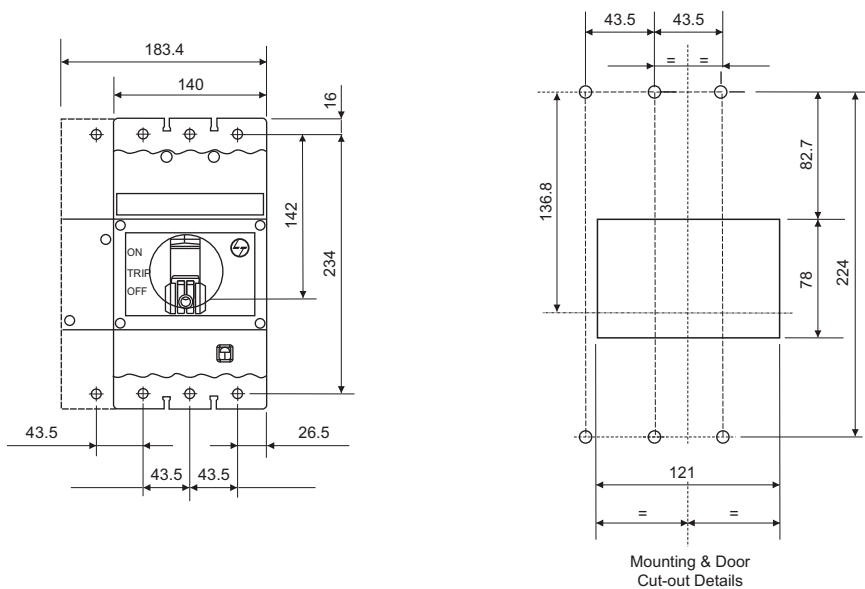


Recommended CAT number for DN2 spreaders

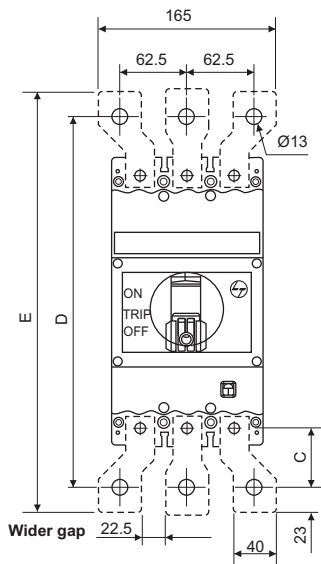
3P	4P
ST980530000	CM920070000

All dimension are in mm

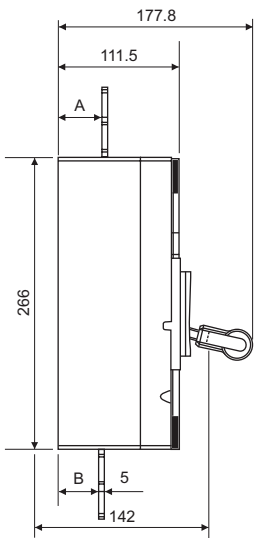
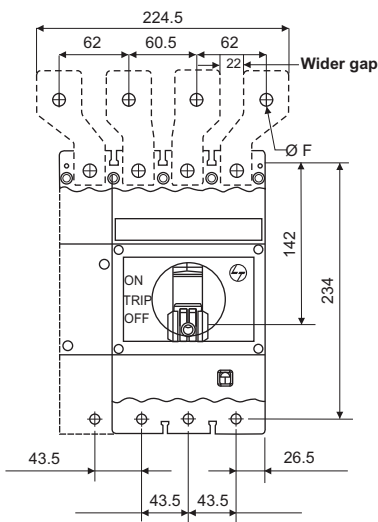
DN3-400/630 MCCB



DN3-400/630 3P with Spreader Links



DN3-400/630 4P with Spreader Links



Type	DN3-400	DN3-630
A	39	41
B	37	38
C	45	55
D	324	344
E	370	390
F	13	11

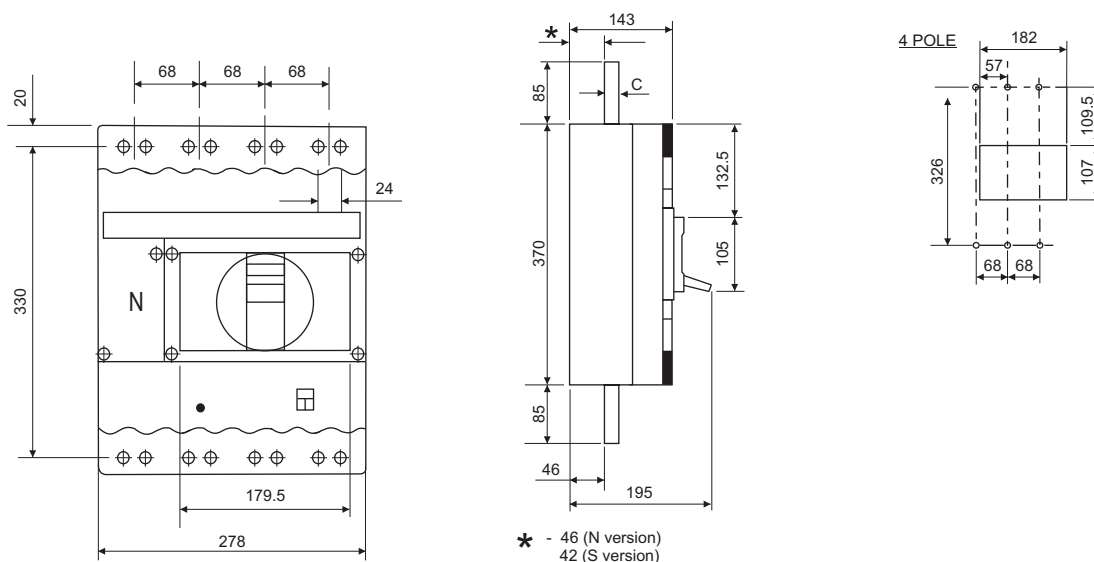
Note : Spreaders are available as spare. It is recommended to use spreader links for enhancing termination capacity.

Recommended CAT numbers for DN3 spreaders

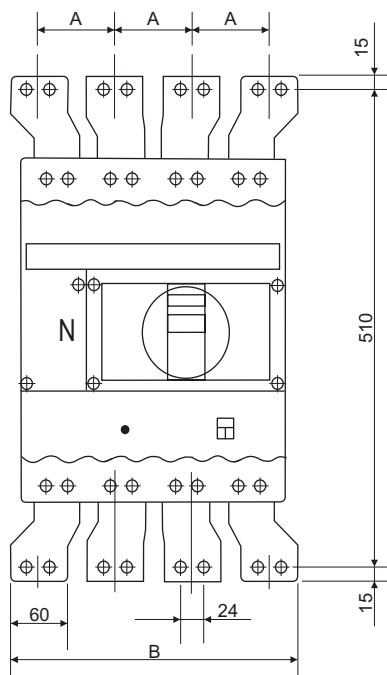
Rating	3P	4P
400A	ST980650000	ST980660000
630A	ST980540000	CM920040000

All dimension are in mm

## DN4-800/1000/1250 MCCB



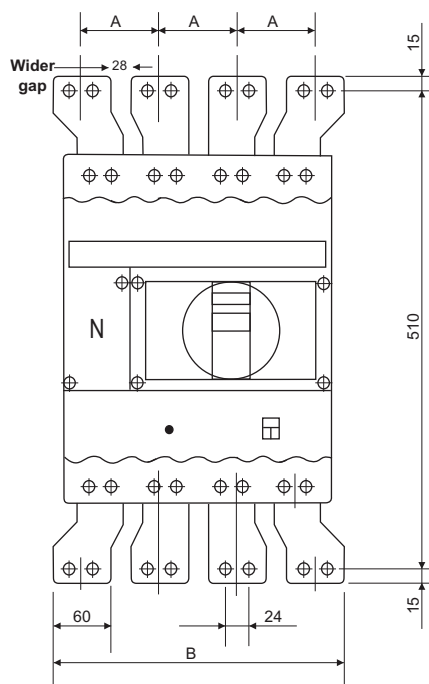
## DN4-800 MCCB with Spreader Links



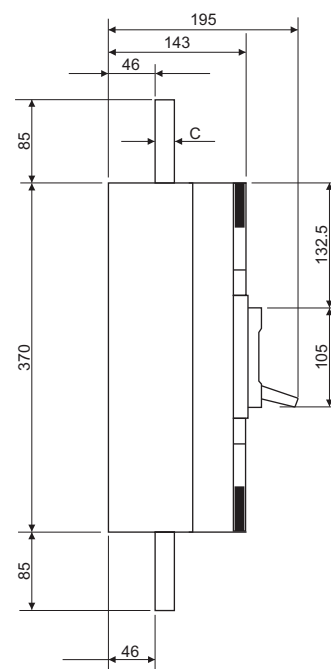
Dimensions

Type	A	B	C
800A	88	324	6
1000/1250/1600A	80	300	20

## DN4-1000/1250 MCCB with Spreader Links



## DN4-800/1000/1250 MCCB



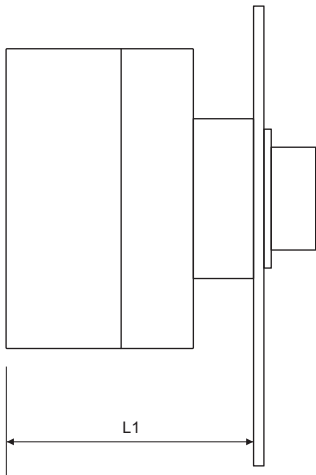
Recommended CAT numbers for DN4 spreaders

Rating	3P	4P
800A	ST90361O000	ST90362O000
1000A /1250A	ST98055O000	ST98058O000

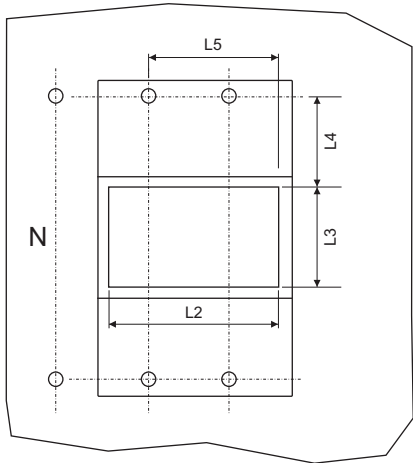
Note : Spreaders are available as spare. It is recommended to use spreader links for enhancing termination capacity.

All dimension are in mm

Direct ROM door cut-out detail

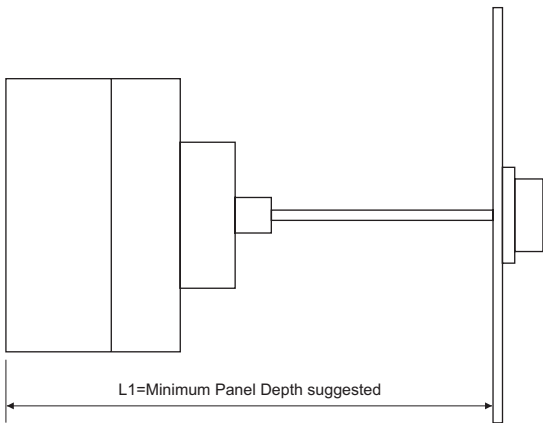


L1 = Mounting Depth  
L2/L3 = Panel Cut-out  
L4/L5 = Breaker Mounting Refer

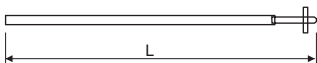


Type	L1	L2	L3	L4	L5
DN0	96.5	58	52	43.5	37
DN1	96.5	73	52	56.5	54
DN2	122	96	63	53	66
DN3	146	121	87	78	82

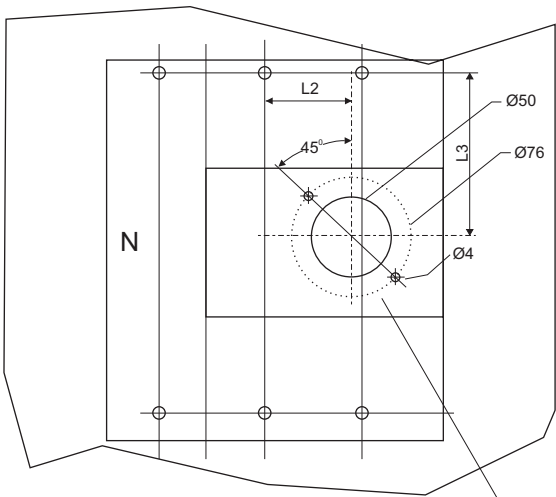
Extended ROM door cut-out detail



L1=Minimum Panel Depth suggested



L = Length of Shaft Required for Panel Depth L1  
Total Length of Shaft =275mm



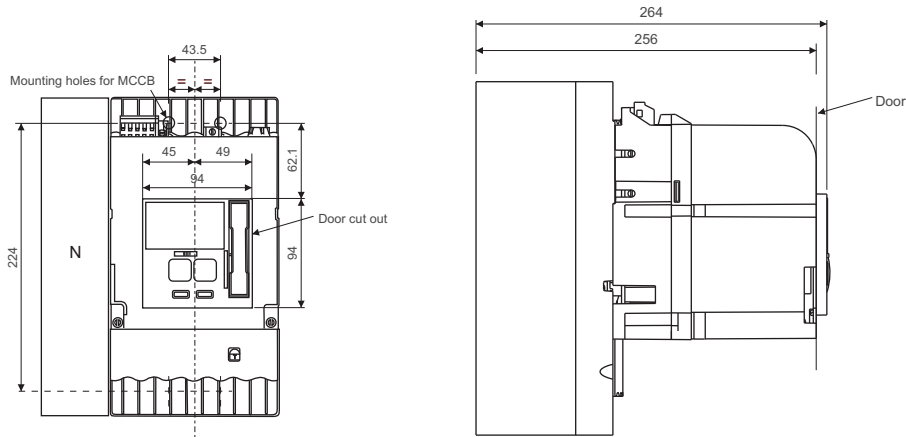
Refer Panel Cut Details

Refer Panel Cut Details

TYPE	L1	L	L2	L3
DN0	169	L1 - 119	7.5	69.5
DN1	169	L1 - 119	24.5	81.7
DN2	202	L1 - 152	27	84
DN3	233	L1 - 183	39	122
DN4	302	L1 - 252	69	170

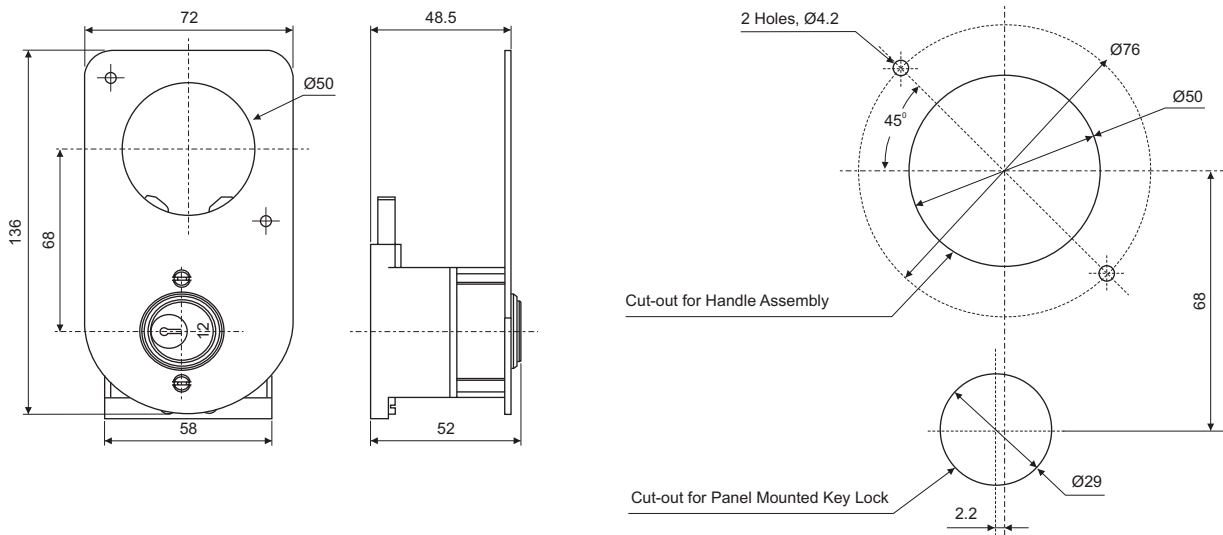
All dimension are in mm

MCCB with EOM (Stored Energy)  
DN3



Cat. No.
CM981300000

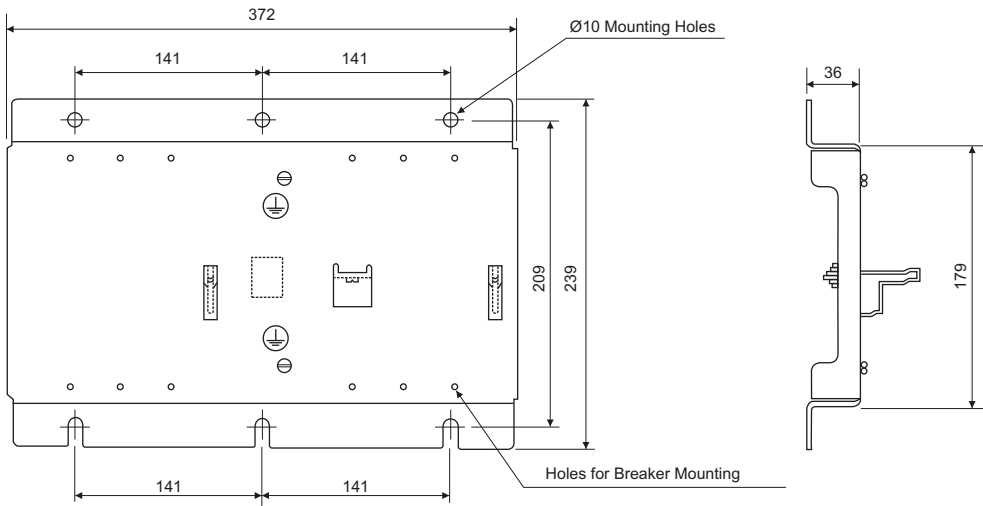
Panel Mounted Key Lock



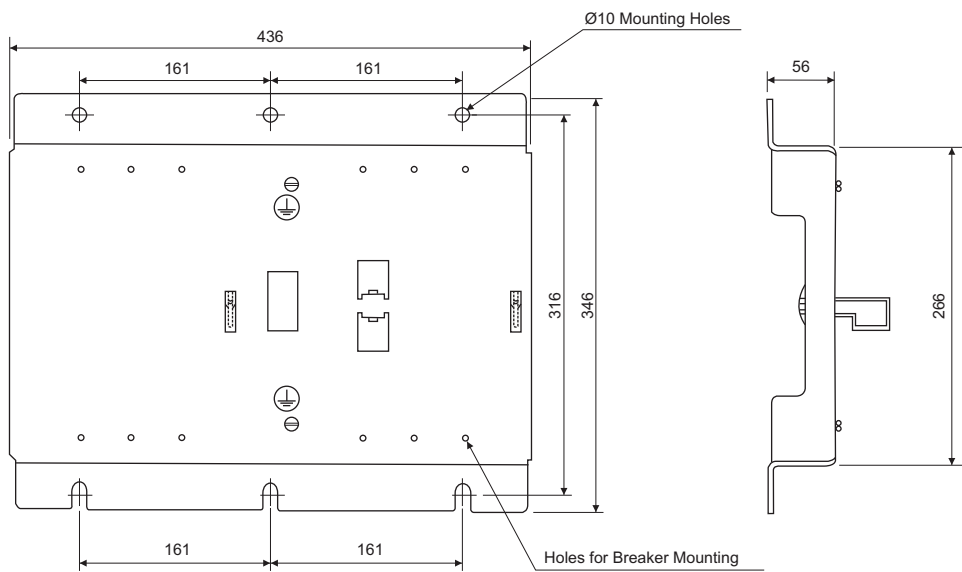
All dimension are in mm



DN2 MIL Kit



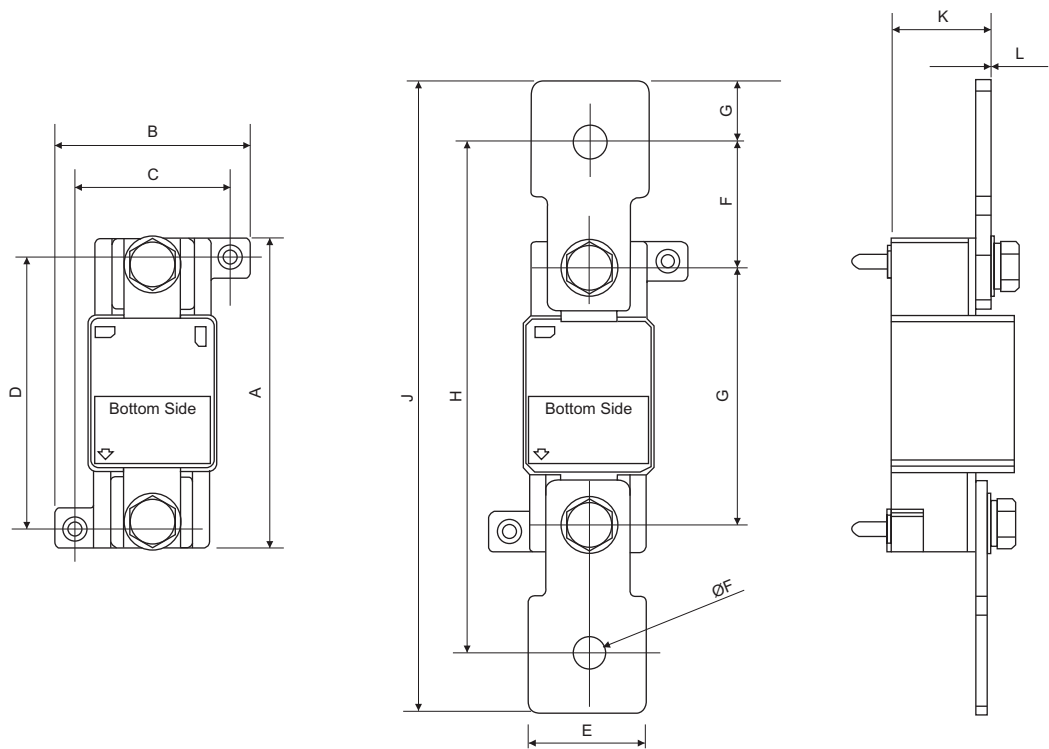
DN3 MIL Kit



All dimension are in mm

External Neutral CTs

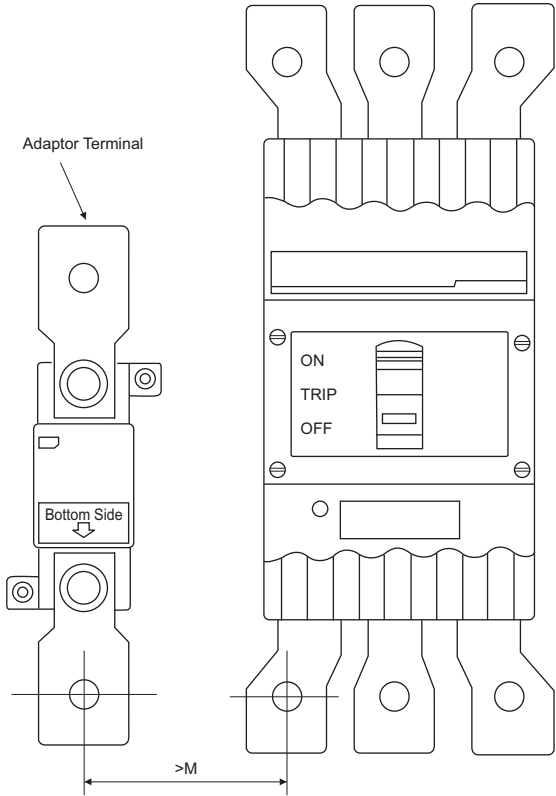
DN2 / DN3



	A	B	C	D	E	F	G
DN2 250A	93	59	47	81	35	10.2	77
DN3 400A	93.5	58	46	81.5	40	13	63.5
DN3 630A	93.5	58	46	81.5	40	10.5	63.5

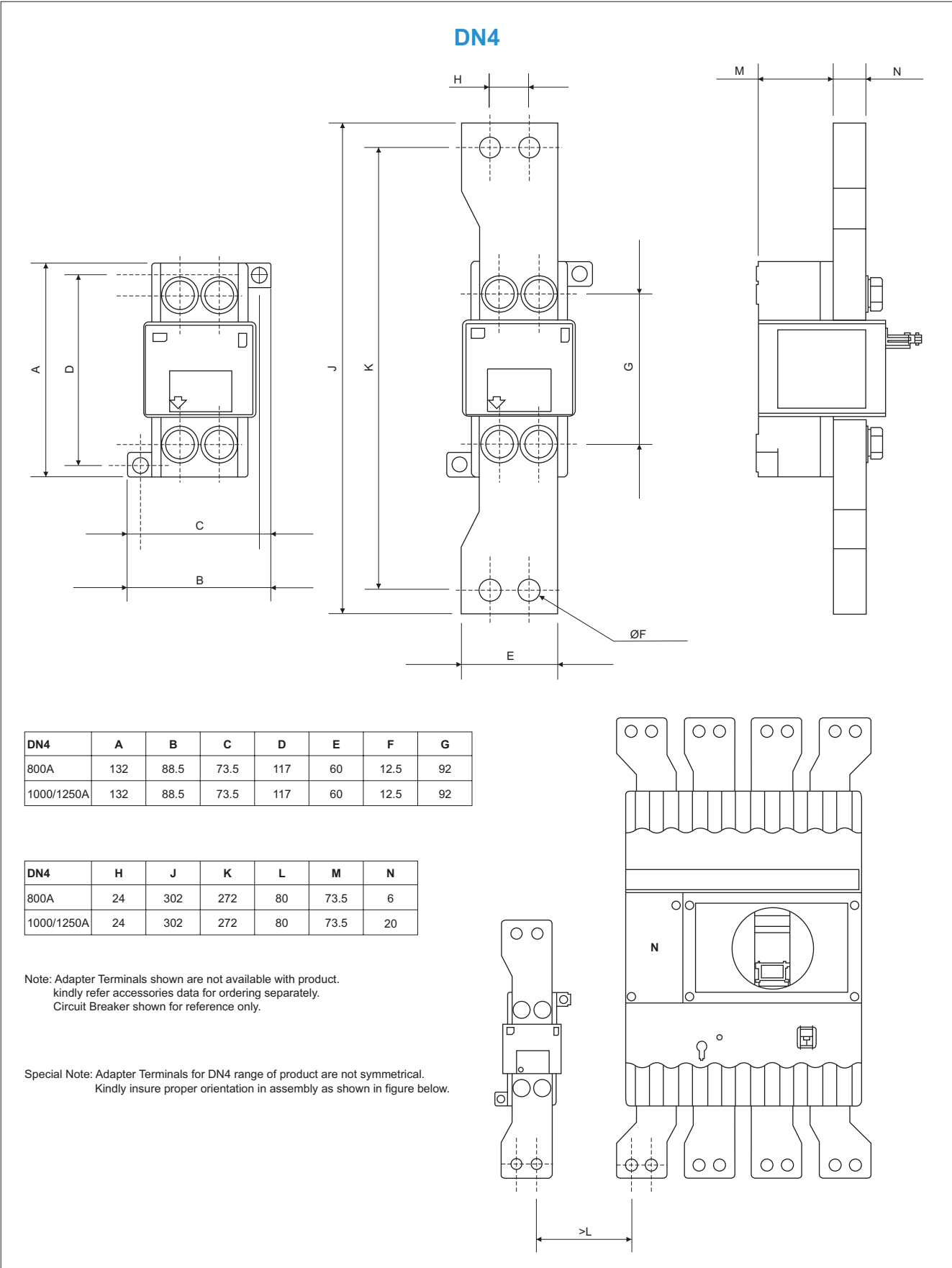
	H	J	K	L	M
DN2 250A	153	189	26	4	55
DN3 400A	153.5	199.5	39	5	60
DN3 630A	173.5	219.5	39	5	60

Note: Adapter Terminals shown are not available with product.  
kindly refer accessories data for ordering separately.  
Circuit Breaker shown for reference only.



All dimension are in mm

External Neutral CTs



All dimension are in mm