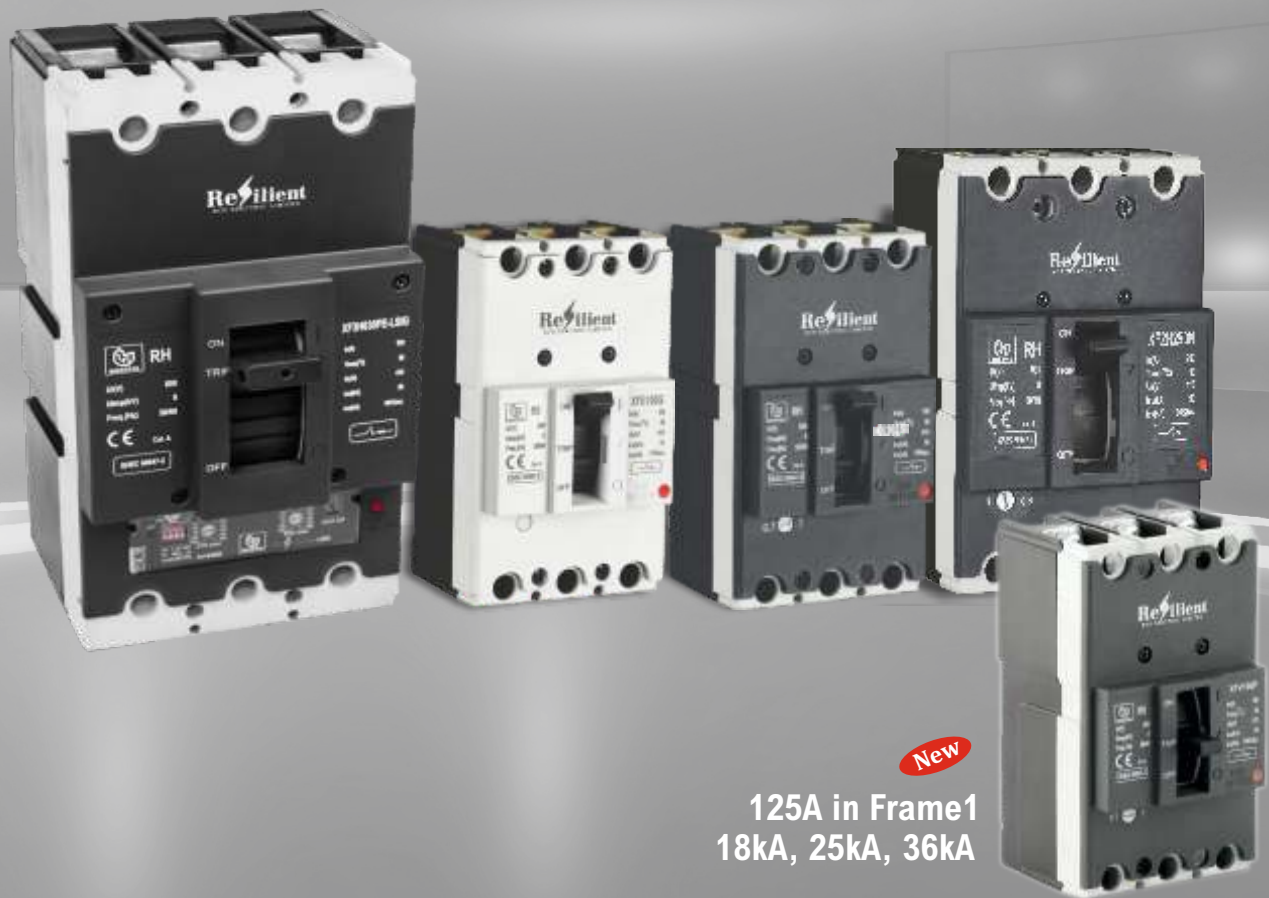


Reliable since 1965...



125A in Frame1
18kA, 25kA, 36kA

Moulded Case Circuit Breaker

3 Pole 16A - 630A



**BCH
ELECTRIC
LIMITED**

Index

S.No	Description	Page
01	Resilient MCCB : Overview	01-04
02	Technical Specifications	05-08
	a) Thermal Magnetic MCCB's	05-06
	b) Microprocessor MCCB's	07
	c) MCCB's for Motor Backup Protection	08
03	Accessories	09
04	Tripping Curves and Ambient Correction Graphs	10-12
05	Installation Dimensions	13-16
06	Ordering Cat. Codes	17





BCH Electric is one of India’s oldest and respected LV Switchgear manufacturer with world-class manufacturing facilities, pan-India distribution network and a wide product portfolio.

Our decades of operations in Indian LV Switchgear market has helped us understand that Indian Industrial conditions are one of the harshest and most demanding in nature. And we know the importance of a device which seamlessly, effortlessly and quite reliably delivers the best performance in varied applications under these harsh Indian conditions.

Presenting to you the XF Range of MCCB, available in three frame sizes 125A, 250A & 630A with standard and high performance variants. As the name Resilient implied, the product is designed and tested to perform excellently in harsh Indian conditions.



Remarkable
performance



Superior
flexibility



RoHS
compliance

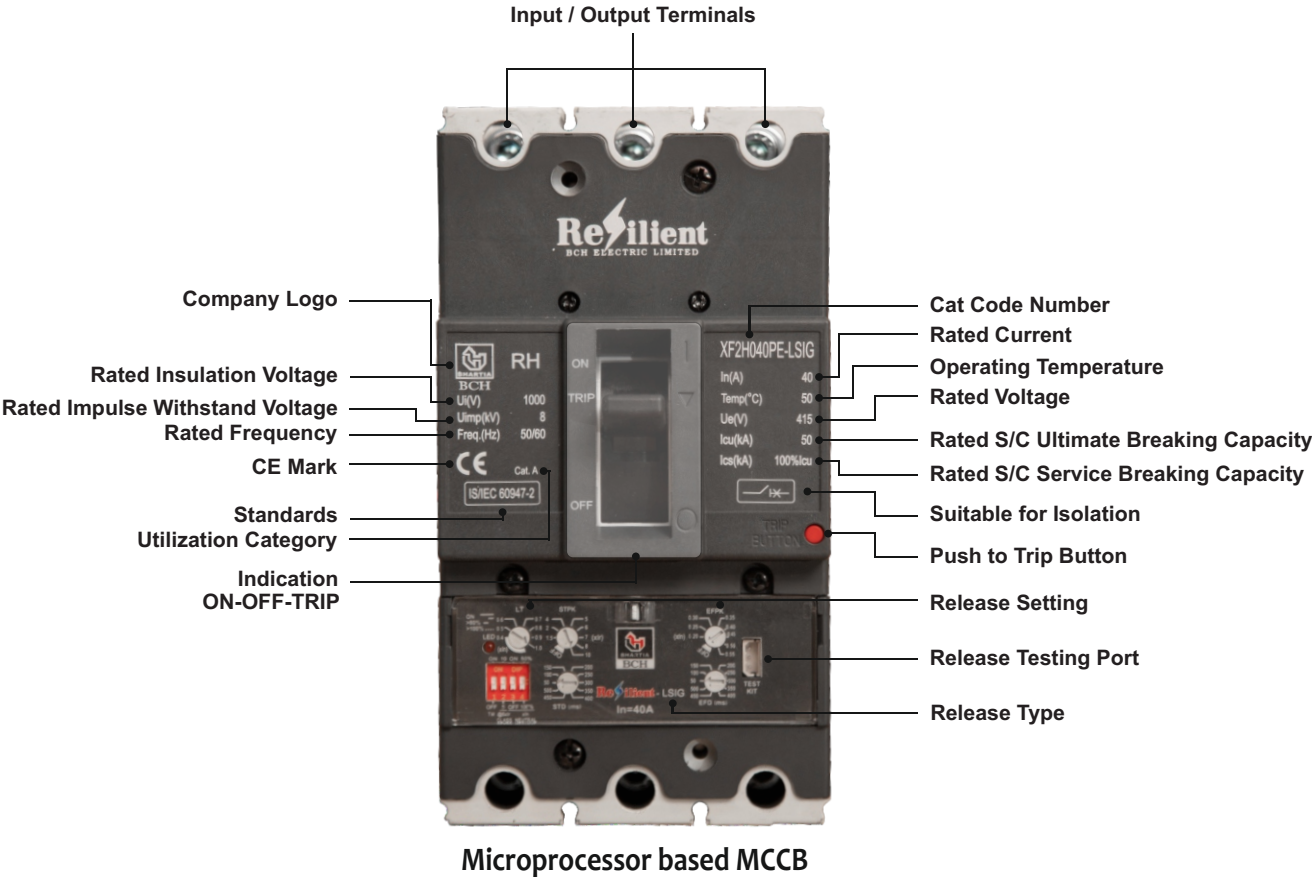


Reliability



Design
excellence

Marking & clear identification



Our MCCB's Range



Frame 1

Rating: 16A to 125A
Breaking Capacity: 10kA to 50kA
No. of Poles: 3 Poles
Release Available -
Thermal Magnetic only



Frame 2

Rating: 40A to 250A
Breaking Capacity: 25kA, 36kA, 50kA
No. of Poles: 3 Poles
Release Available -
Thermal Magnetic & Microprocessor

Note: 125A, 200A only available in Thermal Magnetic release



Frame 3

Rating: 320A to 630A
Breaking Capacity: 36kA, 50kA
No. of Poles: 3 Poles
Release Available -
Thermal Magnetic & Microprocessor



Offers Remarkable Performance

Tested for 50°C Ambience

- We understand Indian conditions well, so the entire range of Resilient MCCB is tested for rated performance at 55°C.
- With every 5°C dip in temperature, breaker can be uprated upto 4% depending on the rating.



Excellent Electrical / Mechanical Life

- Electrical life upto 10000 cycles and Mechanical life upto 25000 cycles, Resilient MCCBs are designed for longer life and reliability.



High Performance Compact Size

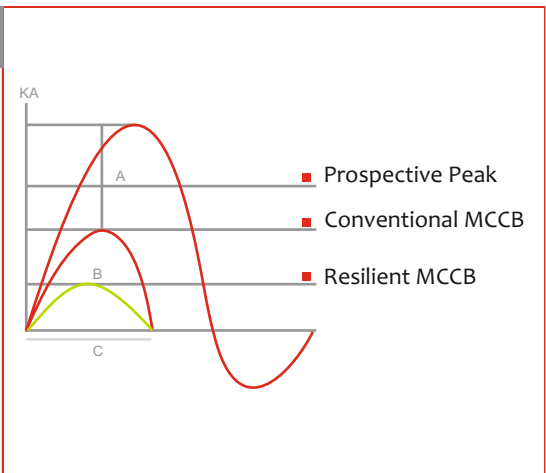
- Resilient MCCB offers 50 kA Short circuit breaking capacity in smallest frame size of 75 X 130 X 60 mm (WxHxD).



Outstanding Current Limiting Performance



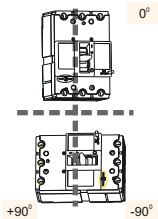
- Owing to a salient U shaped terminal and fast acting mechanism, Resilient MCCB offers excellent current limiting performance
- Designed for a very low level of let through energy, Resilient MCCBs provides not only safety of installation but also reduces stress on downstream equipments



Flexibility & Reliability

Flexibility of Installation

- Resilient MCCBs can be installed in any orientation i.e. vertical as well as horizontal orientation.



Safety of Installation

- Finger proof terminals.



International Standards

- Entire range of Resilient MCCB is tested and certified as per IS / IEC 60947-2.
- Resilient MCCB also carries CE mark.

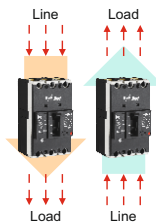


Unbeatable Flexibility of Accessory Mounting

- Resilient MCCB is one of its kind to have flexibility to install UV & Shunt Release together at a time for Frame 1 & 2.
- Universal accessory mounting for UV, Shunt, Trip Alarm & Auxiliary Release for Frame 1 & 2.
- All accessories can be field fitted, with no need for dismounting breaker.

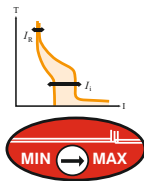


Line Load Interchangeability



- The entire range of Resilient MCCB is suitable for line load interchangeability, with unmarked terminals

Thermal Flexibility



- Adjustable overload protection :
Upto 70% to 100% with Thermal Magnetic Release, 40% to 100% with Microprocessor Release (LSIG)

Suitability for Isolation



- Resilient Range of MCCB is suitable for positive isolation.
- Ensures complete safety of operator and installation.

Isolation of Accessories



- Internal accessory mounting chamber is isolated from main mechanism for safety of installation.
- Accessory must be mounted in TRIP condition.
- Rotary handle is lockable in OFF condition to prevent any unintended interventions to ensure operator safety.

Technical Specifications - Thermal Magnetic Release

Type	RS				RH					
FRAME	F1			F1						
Features										
Conformance to Standards	IS/IEC60947 - 2			IS/IEC60947 - 2						
No. of Poles	3			3						
Rated Operational Voltage (U _e) - (V)	415			415						
Rated Insulation Voltage (U _i) - (V)	800			800						
Rated Impulse withstand Voltage (U _{imp}) - (kV)	6			8						
Rated Operating Frequency (Hz)	50 / 60			50 / 60						
Rated Current (I _a) (A)	16, 20, 25, 32, 40, 50, 63, 80#, 100#			16, 20, 25, 32, 40, 50, 63, 80#, 100#			32A to 100A#	New 125A#		
Ultimate Breaking Capacity(I _{cu}) at 415V (kA)	10**	15	30	25	36	50	50	18	25	36
Service Breaking Capacity(I _{cs}) - (% of I _{cu})	100	100	50	100	50	50	100	100	100	50
Suitability for Isolation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Utilization Category	A	A	A	A	A	A	A	A	A	A
Electrical Life - Cycles	5000	6000	6000	8000	8000	8000	10000	8000*	8000*	8000*
Mechanical Life - Cycles	25000	25000	25000	25000	25000	25000	25000	25000	25000	25000
Total Opening Time	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms
Pollution Degree	3	3	3	3	3	3	3	3	3	3

Protection against Over Current (Trip Unit)

Thermal (Fixed / Adjustable)	Fixed	Fixed	Adj. (0.7-1.0) In	Adj. (0.7-1.0) In	Adj. (0.7-1.0) In	Adj. (0.7-1.0) In	Adj. (0.7-1.0) In	Adj. (0.7-1.0) In	Adj. (0.7-1.0) In	Adj. (0.7-1.0) In
Magnetic	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
Terminal Cable Capacity	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²	50 mm ²
Dimensions - (mm) WxHxD	75X130X60			75X130X60				75X130X60		
Weight - (Kg)	0.81/0.89*	0.81/0.89*	0.81/0.89*	0.81/0.89*	0.81/0.89*	0.81/0.89*	0.83/0.91*	0.81/0.89*	0.81/0.89*	0.81/0.89*
Operating Temp Range - °C	-5 to +50	-5 to +50	-5 to +50	-5 to +50	-5 to +50	-5 to +50	-5 to +50	-5 to +50	-5 to +50	-5 to +50
Reference Temperature - °C	50	50	50	50	50	50	50	50	50	50
Accessories - INTERNAL										
Auxiliary (2C/O)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Aux / Alarm (1C/O + 1 C/O)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Shunt Release (SR)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Under Voltage Release (UVR)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Accessories - EXTERNAL										
Rotary Operating Handle (Extended)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Phase Barriers	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spreaders / Terminal Extensions	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DIN Rail Mounting Kit	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

*Weight along with spreader link
Spreader link included from 80A, 100A & 125A in F1 MCCB and 200A & 250A in F2 MCCB
** With RAL-7035 (Light Grey) front fascia, rest all other ratings are RAL-7016 (Dark Grey) front fascia



Type	RS		RH				RH - TMTU	
FRAME	F2		F2				F3	
Features								
Conformance to Standards	IS/IEC60947 - 2		IS/IEC60947 - 2				IS/IEC60947 - 2	
No. of Poles	3		3				3	
Rated Operational Voltage (U _e) - (V)	415		415				415	
Rated Insulation Voltage (U _i) - (V)	800		800				800	
Rated Impulse withstand Voltage (U _{imp})-(kV)	8		8				8	
Rated Operating Frequency (Hz)	50 / 60		50 / 60				50 / 60	
Rated Current (I _e) (A)	125, 160, 200#, 250#		125, 160, 200#, 250#				320#, 400#, 500#, 630#	
Ultimate Breaking Capacity(I _{cu}) at 415V (kA)	25	36	36	36	50	50	36	50
Service Breaking Capacity(I _{cs}) - (% of I _{cu})	100	50	75	100	50	100	100	100
Suitability for Isolation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Utilization Category	A	A	A	A	A	A	A	A
Electrical Life - Cycles	5000	5000	8000	8000	8000	8000	5000	5000
Mechanical Life - Cycles	12000	12000	12000	12000	12000	12000	12000	12000
Total Opening Time	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms
Pollution Degree	3	3	3	3	3	3	3	3

Protection against Over Current (Trip Unit)

Thermal (Fixed / Adjustable)	Adj. (0.8-1.0) In	Adj. (0.8-1.0) In	Adj. (0.8-1.0) In				Thermal - Adjustable (0.8-1.0) In
Magnetic	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Magnetic - Adjustable (6.0 - 10.0) In
Terminal Cable Capacity	120 mm²	120 mm²	120 mm²	120 mm²	120 mm²	120 mm²	185, 240, 150*2, 185*2 mm²
Dimensions - (mm) WxHxD	105x160x81	105x160x81	105x160x81				140x261x103.5
Weight - (Kg)	2.2 / 2.6*	2.2 / 2.6*	2.2 / 2.6*	2.2 / 2.6*	2.2 / 2.6*	2.2 / 2.6*	5.6 / 6.48*(400A) and 5.8 / 7.0*(630A)
Operating Temp Range - °C	-5 to +50	-5 to +50	-5 to +50	-5 to +50	-5 to +50	-5 to +50	-5 to +55
Reference Temperature - °C	50	50	50	50	50	50	50
Accessories - INTERNAL							
Auxiliary (2C/O)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Aux / Alarm (1C/O + 1 C/O)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Shunt Release (SR)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Under Voltage Release (UVR)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Accessories - EXTERNAL							
Rotary Operating Handle (Extended)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Phase Barriers	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spreaders / Terminal Extensions	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DIN Rail Mounting Kit	No	No	No	No	No	No	No

*Weight along with spreader link

Spreader link included from 200A & 250A in F2 MCCB

** With RAL-7035 (Light Grey) front fascia, rest all other ratings are RAL-7016 (Dark Grey) front fascia

For MCCB of any other rating, please contact nearest sales office

Technical Specifications - Microprocessor Release

Type	RH - LSIG		RH - LSIG	
FRAME	F2		F3	
Features				
Conformance to Standards	IS/IEC60947 - 2		IS/IEC60947 - 2	
No. of Poles	3		3	
Rated Operational Voltage (U _e) - (V)	415		415	
Rated Insulation Voltage (U _i) - (V)	1000		800	
Rated Impulse withstand Voltage (U _{imp}) - (kV)	8		8	
Rated Current (I _e) (A)	40, 63, 100, 160, 250		400#, 630#	
Ultimate Breaking Capacity(I _{cu}) at 415V (kA)	36	50	36	50
Service Breaking Capacity(I _{cs}) - (% of I _{cu})	100	100	100	100
Suitability for Isolation	Yes	Yes	Yes	Yes
Utilization Category	A	A	A	A
Electrical Life - Cycles	8000	8000	5000	5000
Mechanical Life - Cycles	12000	12000	12000	12000

Protection against Over Current (Trip Unit)

Thermal - Adjustable/Microprocessor	Microprocessor (0.4 - 1.0) In	Microprocessor (0.4 - 1.0) In
Magnetic - Adjustable/Microprocessor	Microprocessor (Off - 1.5 - 10.0) Ir	Microprocessor (Off - 1.5 - 10.0) Ir
Short Circuit Delay	50 - 500 ms	50 - 500 ms
Earth Fault Setting	Off - 0.2 - 0.55 In	Off - 0.2 - 0.55 In
Earth Fault Delay	50 - 500 ms	50 - 500 ms
Instantaneous Setting	12 Ir	12 Ir
Thermal Memory	Yes (ON/OFF)	Yes (ON/OFF)
Neutral Protection	50% & 100%	50% & 100%
Pre Trip Alarm Indication	Available	Available
Terminal Cable Capacity	120 mm ²	240, 185*2 mm ²
Dimensions - (mm) WxHxD	105x190x81	140x261x103.5
Weight - (Kg)	6.35 / 7.22*(400A) and 6.60 / 7.8*(630A)	6.35 / 7.22*(400A) and 6.60 / 7.8*(630A)
Operating Temp Range - °C	-5 to + 55	-5 to + 55
Accessories - INTERNAL		
Auxiliary (3C/O)\$	Yes	Yes
Auxiliary (2C/O)	Yes	Yes
Aux / Alarm (1C/O + 1 C/O)	Yes	Yes
Shunt Release	Yes	Yes
Under Voltage Release (UVR)	Yes	Yes
Accessories - EXTERNAL		
Rotary Operating Handle (Extended)	Yes	Yes
Phase Barriers	Yes	Yes
Spreaders / Terminal Extensions	Yes	Yes

*Weight along with spreader link
\$ Auxiliary (2 C/O) and Aux. / Alarm (1 C/O + 1 C/O) can be mounted simultaneously
6 Nos. Spreader link available in standard packing

For MCCB of any other rating, please contact nearest sales office

Price Profitable Solution
For Motor Starter Protection

Technical Specifications - For Motor back-up Protection

Type	RS	RS	RS
FRAME	F1	F2	F3
Features			
Conformance to Standards	IS/IEC60947 - 2	IS/IEC60947 - 2	IS/IEC60947 - 2
No. of Poles	3	3	3
Rated Operational Voltage (U _e) - (V)	415	415	415
Rated Insulation Voltage (U _i) - (V)	800	800	800
Rated Impulse withstand Voltage (U _{imp}) - (kV)	6	6	6
Rated Current (I _e) (A)	32, 40, 50, 63, 80, 100	125, 160, 200, 250	320, 400, 500, 630
Ultimate Breaking Capacity(I _{cu}) at 415V (kA)	50	50	50
Service Breaking Capacity(I _{cs}) - (% of I _{cu})	100	100	100
Suitability for Isolation	Yes	Yes	Yes
Utilization Category	A	A	A
Electrical Life - Cycles	6000	8000	5000
Mechanical Life - Cycles	25000	12000	12000

Protection against Over Current (Trip Unit)

Thermal (Fixed / Adjustable)	NA	NA	NA
Magnetic	Fixed	Fixed	Magnetic - Adjustable (6.0-10.0) In
Terminal Cable Capacity	50 mm ²	120 mm ²	180*2 mm ²
Dimensions - (mm) WxHxD	75X130X60	105X160X81	140X261X103.5
Weight - (Kg)	0.81 / 0.89*	2.2 / 2.6*	5.6 / 6.48*(400A) and 5.8 / 7.0*(630A)
Operating Temp Range - °C	-5 to +50	-5 to +50	-5 to +50
Reference Temperature - °C	50	50	50
Accessories - INTERNAL			
Auxiliary (2C/O)	Yes	Yes	Yes
Aux / Alarm (1C/O + 1 C/O)	Yes	Yes	Yes
Shunt Release	Yes	Yes	Yes
Under Voltage Release (UVR)	Yes	Yes	Yes
Accessories - EXTERNAL			
Rotary Operating Handle (Extended)	Yes	Yes	Yes
Phase Barriers	Yes	Yes	Yes
Spreaders / Terminal Extensions	Yes	Yes	Yes
DIN Rail Mounting Kit	Yes	Yes	Yes

Spreader link included from 80A & 100A in F1 MCCB and 200A & 250A in F2 MCCB

** With RAL-7035 (Light Grey) front fascia, rest all other ratings are RAL-7016 (Dark Grey) front fascia

*Weight along with spreader link

For MCCB of any other rating, please contact nearest sales office

Internal Accessories

Compliance to : IS/IEC 60947-2
Universal accessories mounting

														
Shunt Release	Undervoltage Release	Alarm / Auxiliary & Auxiliary Switch												
- Wide Operating voltage range : 220 - 415 V AC/DC - Pick up consumption : <table><tr><th>Frame Voltage</th><th>Frame 1</th><th>Frame 2</th><th>Frame 3</th></tr><tr><td>230V AC</td><td><16VA</td><td><16VA</td><td><20VA</td></tr><tr><td>415V AC</td><td><54VA</td><td><54VA</td><td><75VA</td></tr></table> - Response time : <20 ms - Operates at 70% to 110% of Ue - With Shunt Release energized not possible to Switch ON the MCCB	Frame Voltage	Frame 1	Frame 2	Frame 3	230V AC	<16VA	<16VA	<20VA	415V AC	<54VA	<54VA	<75VA	- Operating Voltage : 240 V AC, 415 V AC - UV Release operates & opens the MCCB in between 70% to 35% of Ue - At 30% of Ue it is not possible to close the MCCB - At 85% of Ue it is possible to close the MCCB - Sealed consumption : <5 VA	- Auxiliary Switch - 2 C/O (For all Frames). It is possible to provide upto 3 C/O switch along with Shunt / UV Release in F3 MCCB - Trip Alarm & Auxiliary - Auxiliary (1 C/O) + Alarm(1 C/O) - Rating for Utilization categories : - At 250V : AC15 - 2A, DC13 - 0.2A - I_{th}=5A, U_e=230V, I_e=2A for AC15 Duty - Auxiliary Switch operates in normal ON/OFF operation simultaneously with main contacts. Alarm operates only when the breaker trips
Frame Voltage	Frame 1	Frame 2	Frame 3											
230V AC	<16VA	<16VA	<20VA											
415V AC	<54VA	<54VA	<75VA											

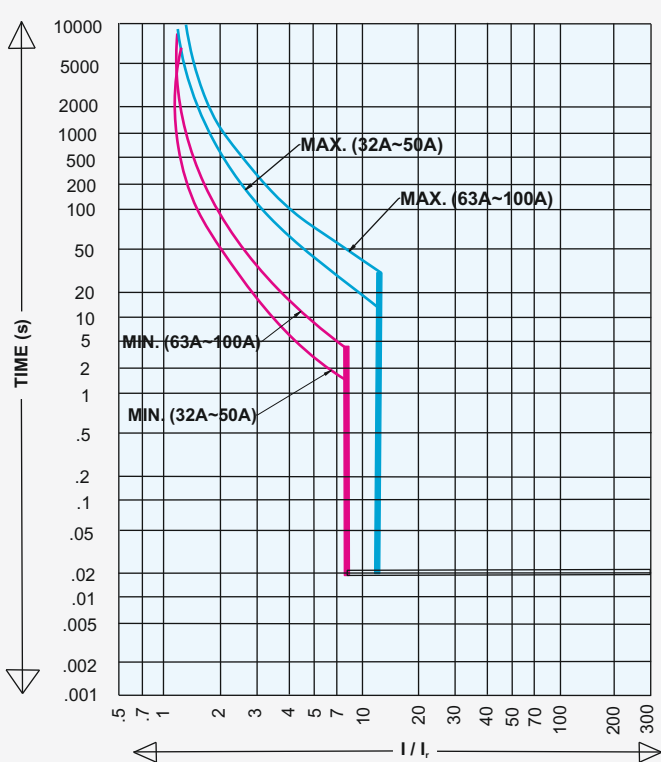
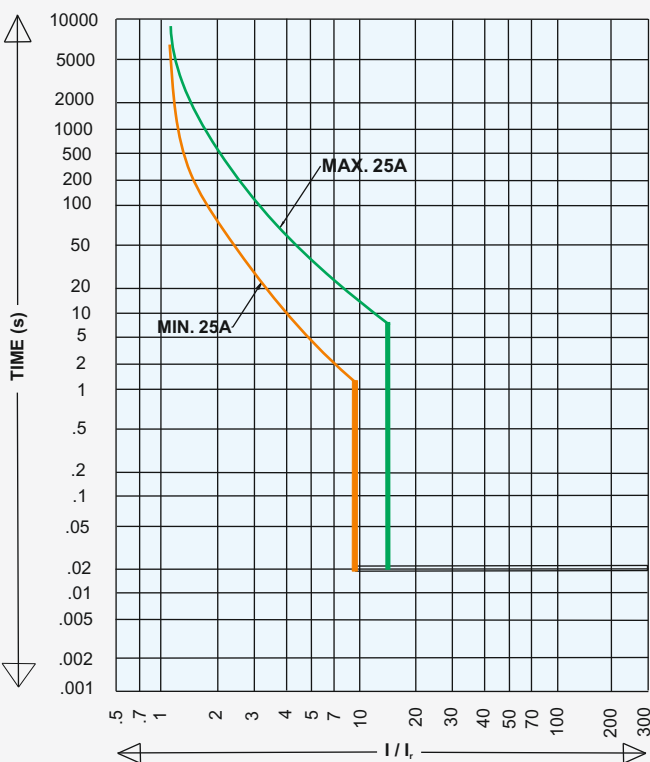
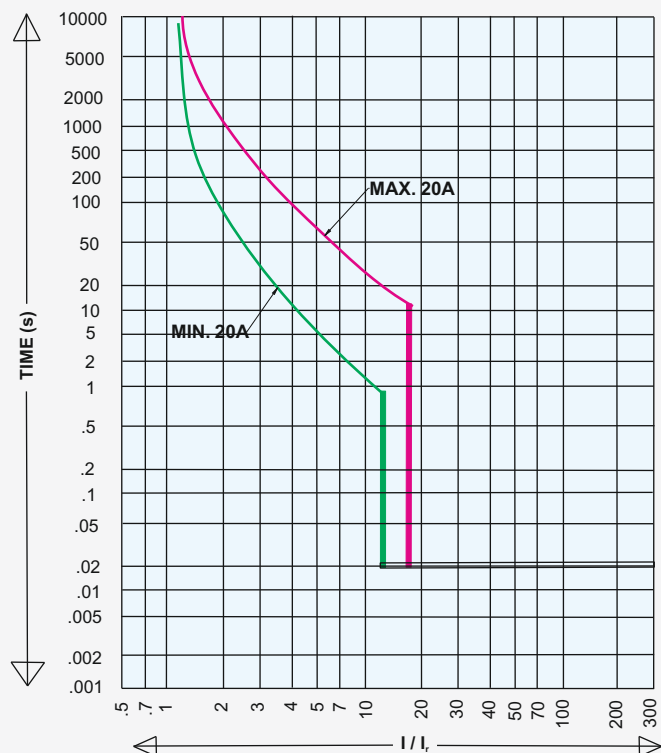
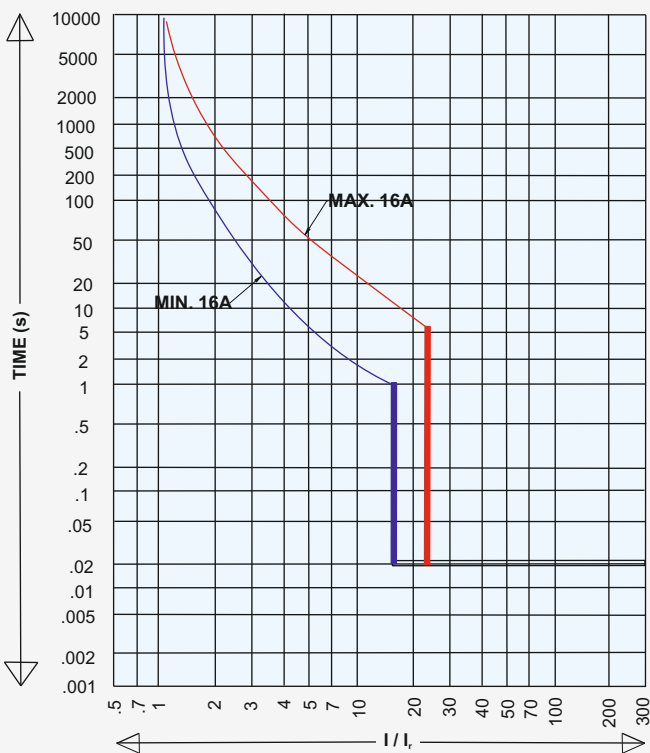
Rotary Operating Handle - Extended

- Handle - Pistol type grip
- Door interlocking in ON condition
- Defeat feature for door interlock
- Adjustable shaft length at customer site
- Upto three Padlocks possibility in OFF condition
 - φ6mm for Frame 1
 - φ6mm for Frame 2
 - φ8mm for Frame 3
- Ingress protection when mounted in enclosure :
 - Frame 1 - IP42
 - Frame 2 - IP42
 - Frame 3 - IP54
- Minimum depth required to mount ROH in panel



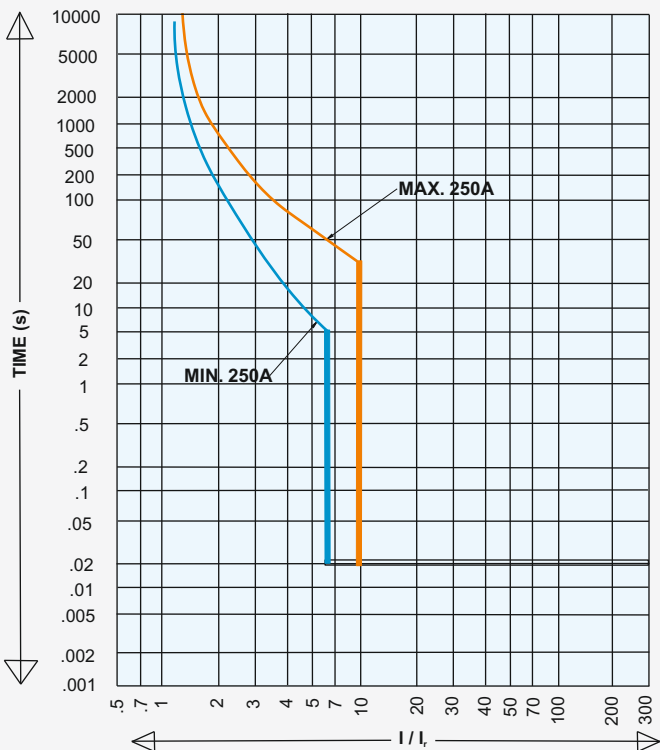
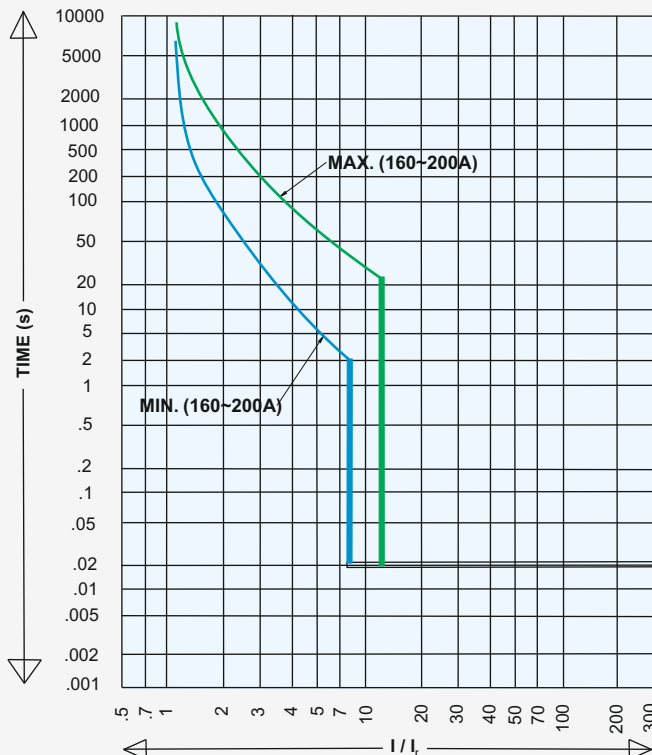
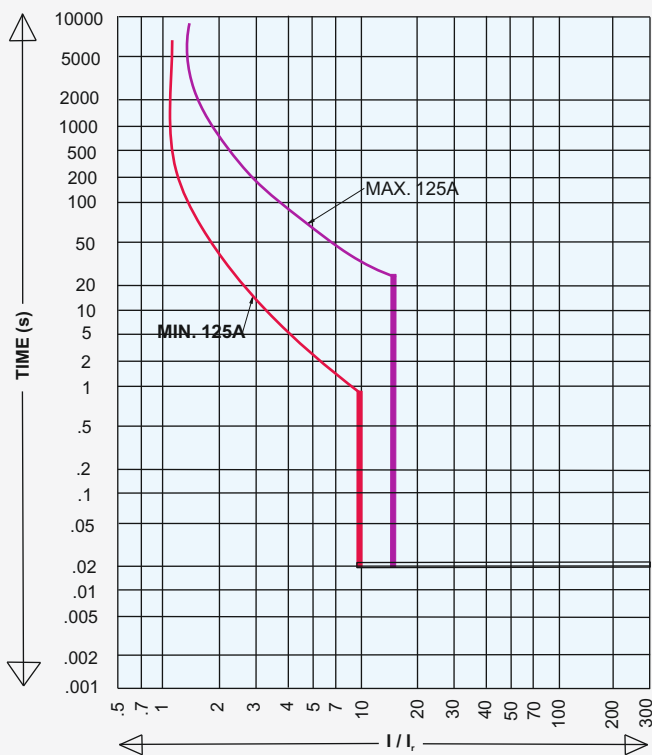
Tripping Curves

Frame 1 ($\leq 125\text{ A}$)

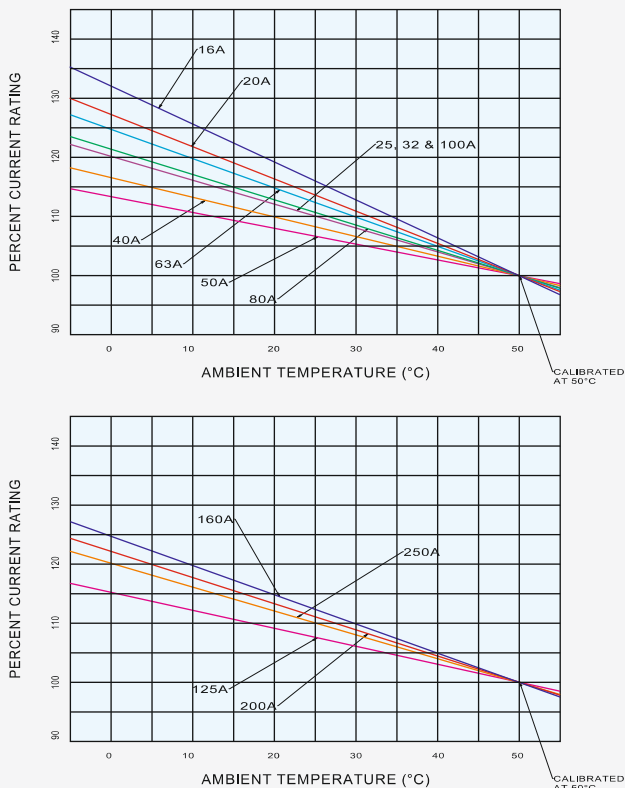


Tripping Curves

Frame 2 ($\leq 250\text{ A}$)



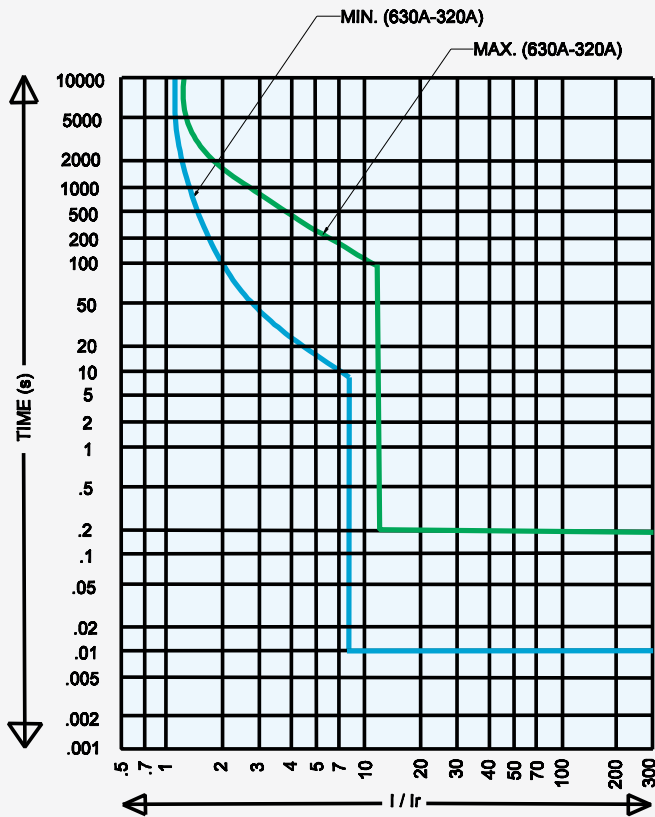
Ambient correction graph



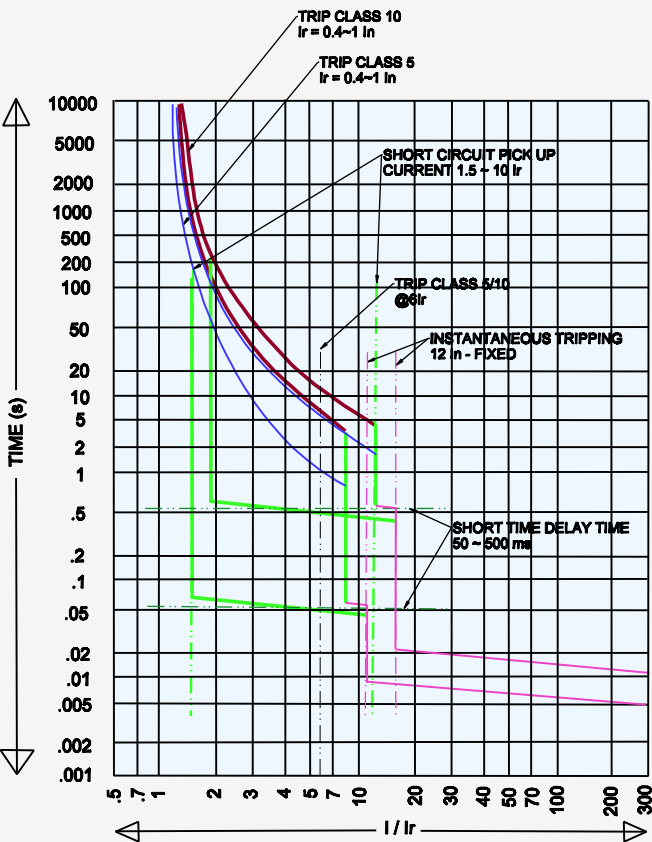
Tripping Curves

Frame 2 / Frame 3 ($\leq 630\text{ A}$)

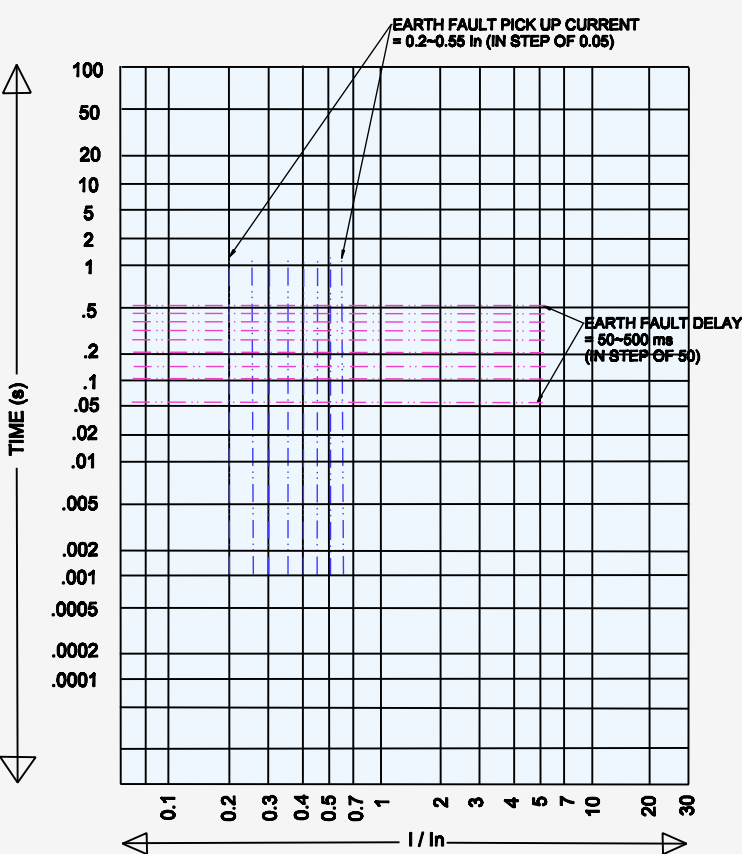
Resilient - TMTU - F3 MCCB (O/L-I²t AND SHORT CIRCUIT) CURVES



Resilient - LSIG - F2/F3 MCCB (O/L-I²t AND SHORT CIRCUIT) CURVES



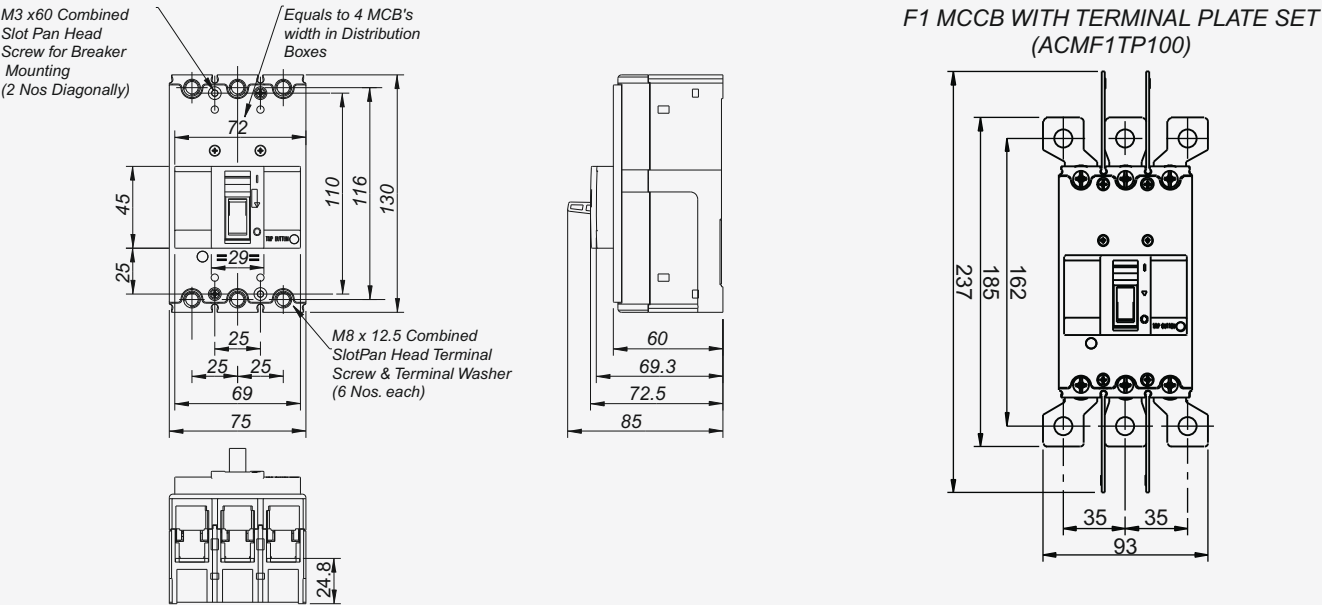
Resilient - LSIG F2/F3 MCCB - EARTH FAULT CURVES



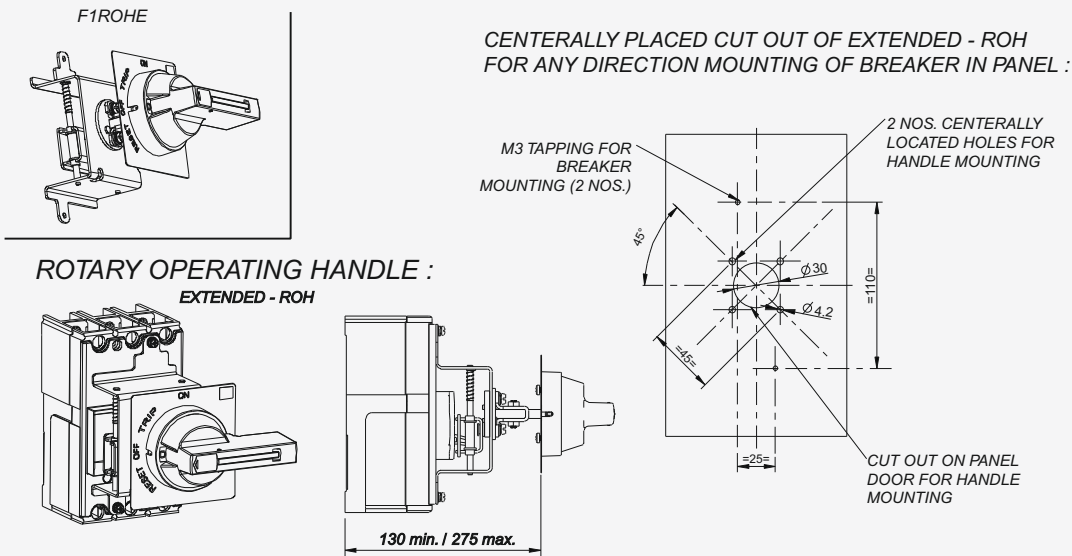
NOTE : 1) NEUTRAL CURRENT SETTING = 50% / 100% of Ir. 2) NEUTRAL CHARACTERISTICS CURVE IS SAME AS DEFINED FOR ALL OTHER PROTECTED POLES ABOVE.

Frame 1 – Installation Dimensions

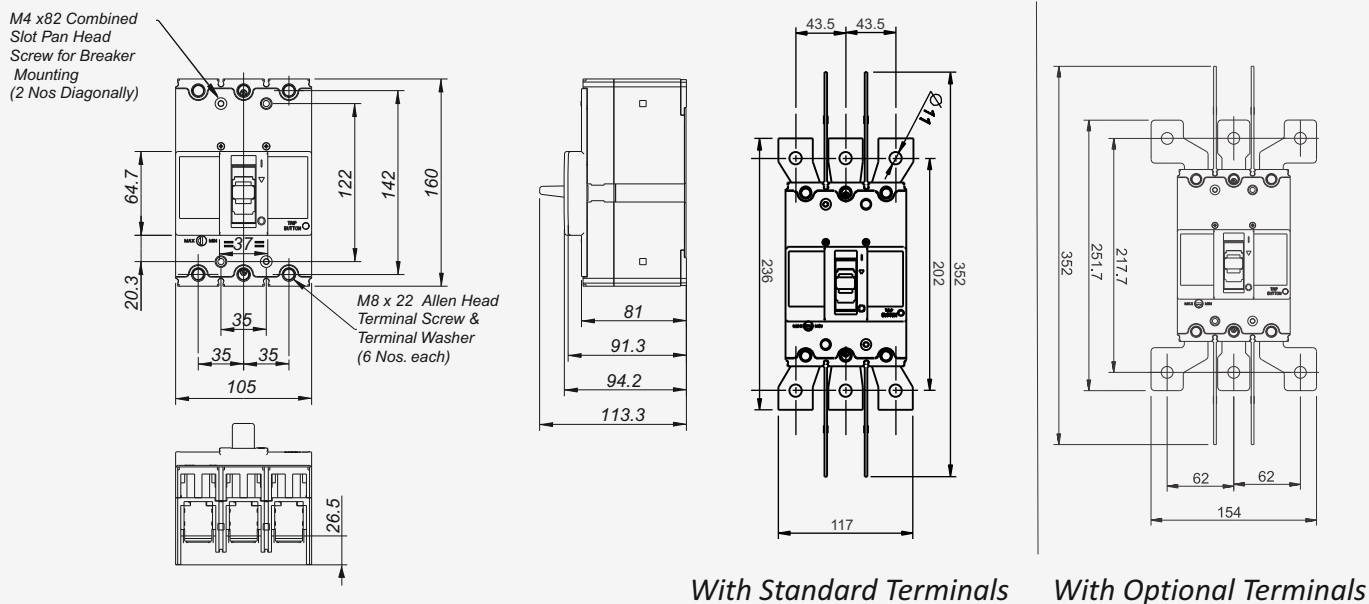
BREAKER MOUNTING PROCEDURE AND MOUNTING DIMENSIONS FOR FRONT CONNECTION (FC) :



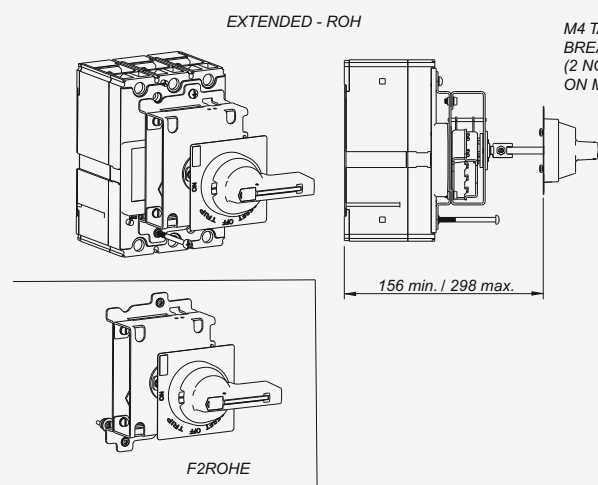
Frame 1 – Rotary Handle Installation Dimensions



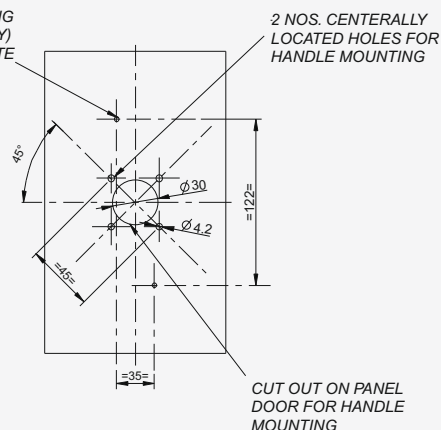
BREAKER MOUNTING PROCEDURE AND MOUNTING DIMENSIONS FOR FRONT CONNECTION (FC) :



ROTARY OPERATING HANDLE :

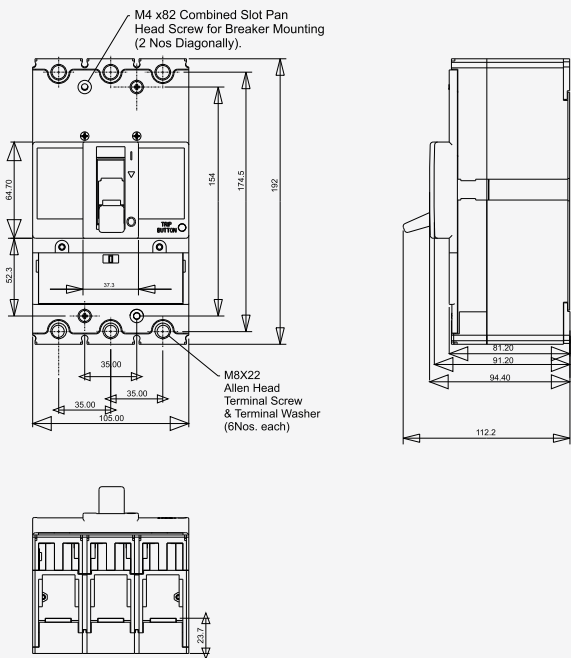


CENTRALLY PLACED CUT OUT OF EXTENDED - ROH
FOR ANY DIRECTION MOUNTING OF BREAKER IN PANEL :

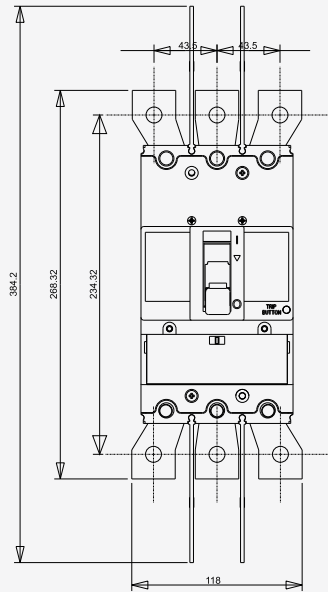


Frame 2 (LSIG) – Breaker Installation Dimensions

BREAKER MOUNTING PROCEDURE AND MOUNTING DIMENSIONS FOR FRONT CONNECTION (FC) :

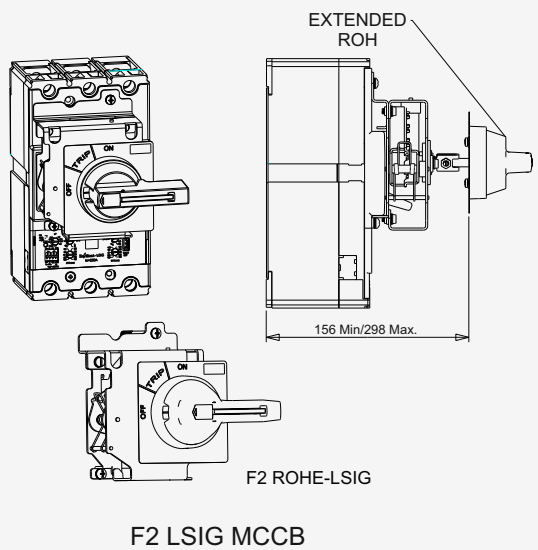


F2 MCCB WITH TERMINAL PLATE SET

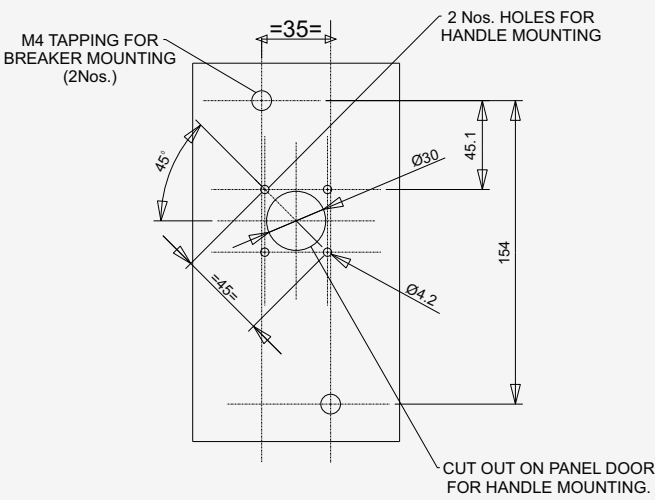


Frame 2 (LSIG) – Rotary Handle Installation Dimensions

ROTARY OPERATING HANDLE

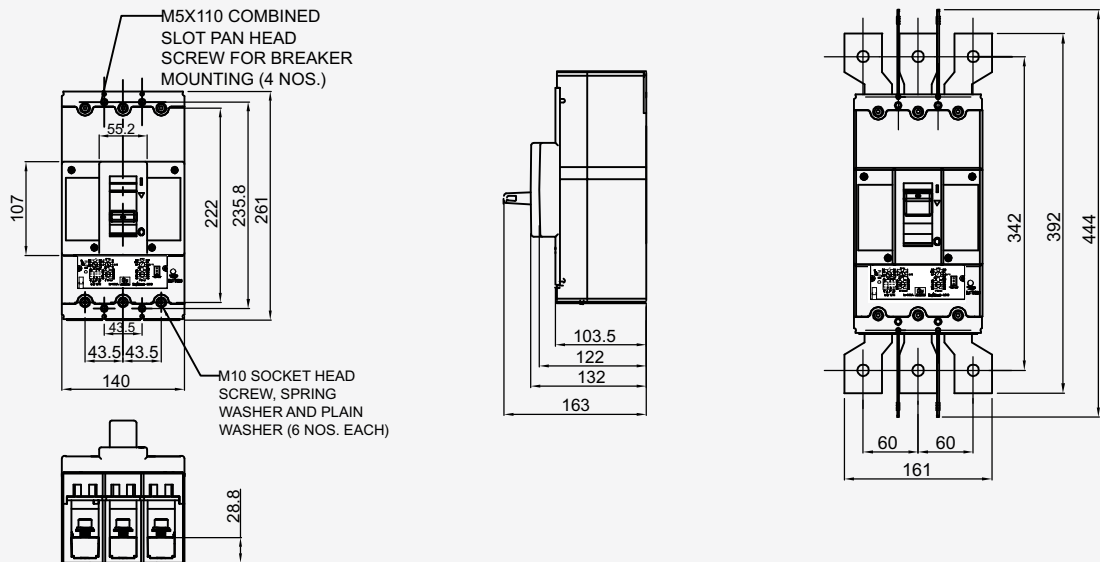


CENTERALLY PLACED CUT OUT OF EXTENDED - ROH FOR ANY DIRECTION MOUNTING OF BREAKER IN PANEL :



Frame 3 – Breaker Installation Dimensions

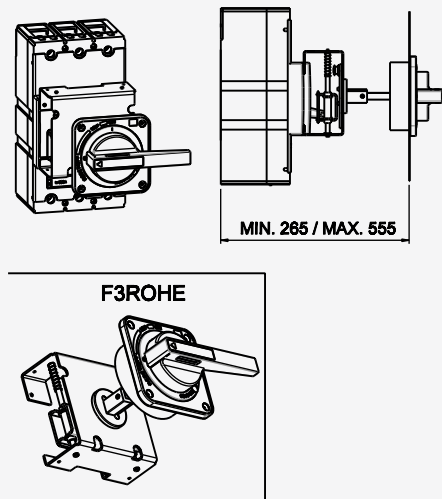
BREAKER MOUNTING PROCEDURE AND MOUNTING DIMENSIONS FOR FRONT CONNECTION (FC) :



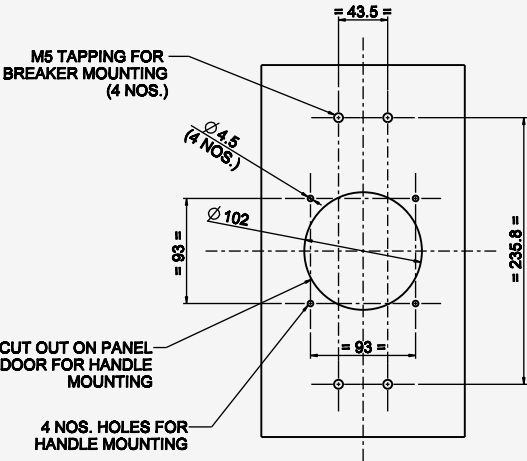
Frame 3 – Rotary Handle Installation Dimensions

ROTARY OPERATING HANDLE :

EXTENDED - ROH



CENTERALLY PLACED CUT OUT OF EXTENDED - ROH FOR ANY DIRECTION MOUNTING OF BREAKER IN PANEL :



Ordering Cat Code

Thermal Magnetic Release				
FRAME 1	XF	E	100	G*
		V : 50kA L : 36kA H : 30kA S : 25kA R : 18kA N : 15kA E : 10kA	125 : 125A	P : Ics 100% of Icu G : Ics 75% of Icu N : Ics 50% of Icu
			100 : 100A	
			80 : 80A	
			63 : 63A	
			50 : 50A	
			40 : 40A	
			32 : 32A	
			25 : 25A	
			20 : 20A	
			16 : 16A	
FRAME 2 & FRAME 3	XF*	H	250	P*
	XF2	H : 50kA N : 36kA E : 25kA	250 : 250A	PV : Ics 100% of Icu GV : Ics 75% of Icu NV : Ics 50% of Icu
	XF3		200 : 200A	
			160 : 160A	
			125 : 125A	
			630 : 630A	
			500 : 500A	
			400 : 400A	
			320 : 320A	
Microprocessor Release				
FRAME 2 & FRAME 3	XF*	H	250	PE
	XF2	H : 50kA N : 36kA E : 25kA	250 : 250A	PE : Ics 100% of Icu
	XF3		160 : 160A	
			100 : 100A	
			63 : 63A	
			40 : 40A	
			630 : 630A	
			400 : 400A	
MCCB's Accessories				
Type	Products	Frame Size	Rating	Cat Code
Internal Accessories	Shunt Release	Frame 1	220V-415V ~	XFSHT220V
		Frame 2	220V-415V ~	XF2SHT220V
		Frame 3	220V-415V ~	XF3SHT220V
	Undervoltage Release	Frame 1	240VAC	XFUV220VA
		Frame 2	415VAC	XFUV415VA
			240VAC	XF2UV220VA
			415VAC	XF2UV415VA
		Frame 3	240VAC	XF3UV220VA
	415VAC	XF3UV415VA		
Alarm + Aux. Contacts	All Frame	1 C/O + 1 C/O	XFALAX11	
Aux. Contacts	All Frame	2 C/O	XFAX2	
External Accessories	Din Rail	Frame 1		F1DIN
	Extended Rotary Handle	Frame 1		F1ROHE
		Frame 2		F2ROHE
		Frame 3		F3ROHE
	Extended Terminals*	Frame 1	(6Nos) for F1 MCCB	ACMF1TP100
		Frame 1	(3Nos) for F1 for one side	ACMF1TP100-3T
		Frame 2	(6Nos) for F2-250A MCCB - Standard	ACMF2TP160-T
		Frame 2	(6Nos) for F2 MCCB - Optional (wider)	ACMF2TP250-T
		Frame 2	(3Nos) for F2 for one side - Optional (wider)	ACMF2TP250
		Frame 2	(6Nos) for F2-160A MCCB	ACMF2TP250-3T
		Frame 3	(3Nos) for 400A F3 for one side	ACMF3TP400
		Frame 3	(6Nos) for 400A F3 MCCB	ACMF3TP400-3T
		Frame 3	(6Nos) for 630A F3 MCCB	ACMF3TP630
		Frame 3	(3Nos) for 630A F3 for one side	ACMF3TP630-3T
	Phase Barriers	Frame 1		F1PB
		Frame 2		F2PB
		Frame 3		F3PB
	MCCB Enclosure	Frame 1		F1EU3P
Frame 2			F2EU3P	

Power Control Products
Starters & Submersible Pump Starters
Industrial Enclosures
Industrial Products
Wires & Cables
Motor Control Products
Power Bus Duct
Customised Solution
Automation



BCH ELECTRIC LIMITED



www.bchindia.com



1800-103-9262

customercare@bchindia.com

Visit us at : www.bchindia.com

Registered & Corporate Office : 1105, New Delhi House, 27, Barakhamba Road, New Delhi - 110 001 Tel. : 91-11- 43673100

CIN : U31103WB1965PLC026427, **Customercare No.** 1800-103-9262, **E-mail :** marketing@bchindia.com

Works 1 : 20/4, Mathura Road, Faridabad -121 006 (Haryana) Tel. : 0129-4063000/4293000 Fax : 0129-2304016

Works 2 : 64-68, Sector-7, IIE, Pant Nagar, Rudrapur, Udham Singh Nagar - 263 153 (Uttarakhand) Tel. : 05944-250214/16 Fax : 05944-250215

Sales Offices :

Ahmedabad

401, Shilp Zeveri,
Beside Shyamal Iconic,
Above Westside,
Shyamal Cross Road,
Ahmedabad - 380015
E-mail.: ahmedabad@bchindia.com

Bangalore

2nd Floor, 130/5,
K.H. Road (Double road),
Bangalore - 560 027
Tel.:080-41144879 / 22236759
E-mail : bangalore@bchindia.com

Bhubaneswar

Mallick Commercial
Complex Plot No.: A/69, unit - 3
Bhubaneswar - 751 001
Tel.: 0674-2380988
E-mail.: bhubaneswar@bchindia.com

Chandigarh (Panchkula)

SCO -270, 2nd Floor,
Sector-16 Panchkula,
Haryana-134 113
Tel.: 0172-5078957 / 5049905
E-mail.: chandigarh@bchindia.com

Chennai

Flat No. 3A, 3rd Floor,
Sree Apartments,
No.508, TTK Road,
Alwarpet, Chennai 600 018
Tel.: 044-24337046, 24337047
E-mail : chennai@bchindia.com

Coimbatore

87, Dr. Nanjappa Road,
Coimbatore - 641 018
Tel. : 0422-2305311 / 2302599
E-mail : coimbatore@bchindia.com

Delhi 1

801, Akash Deep Building,
26A, Barakhamba Road,
New Delhi - 110 001
Tel. : 011-23313878 / 43518200
E-mail : delhi@bchindia.com

Delhi 2

710, Deepali Building, 92
Nehru Place, New Delhi - 110 019
Tel. : 011-45720334
E-mail : delhi2@bchindia.com

Dehradun

8, Co-operative Industal Estate,
Patel Nagar, Dehradun-248001
E-mail : dehradun@bchindia.com

Faridabad

20/4, Mathura Road,
Faridabad - 121 006 (Haryana)
Telfax : 0129-4293009
E-mail : fandabad@bchindia.com

Hyderabad

1-8-303/48/13/102, Arya One,
2nd Floor, P. G. Road,
Secunderabad - 500 003
Tel. : 040-66206263/27890306
Fax : 040-66207273
E-mail : hyderabad@bchindia.com

Indore

330-331, Indraprastha Tower,
3rd Floor, 6, M.G. Road,
Indore - 452 001
Tel. : 0731-2510011 / 2510012
E-mail : indore@bchindia.com

Jaipur

25, Hathroi, Gopalbari,
Jaipur - 302 001
Tel. : 0141-2363521
E-mail : jaipur@bchindia.com

Jamshedpur

A.J. Tower, 2B, 2nd Floor
R-Road, Bistupur
Jamshedpur-831001
Tel. : 0657-2321097/2321481
E-mail : jamshedpur@bchindia.com

Kolkata

Block 1E, 216,
Acharya Jagadish Chandra Bose Road,
Kolkata - 700 017
Tel. : 033-22871728 / 46021884
E-mail : kolkata@bchindia.com

Lucknow

Shop No.3, First Floor, Tower T-10,
Millennium Place IBB - 2, Sushant
Golf City, Sultanpur Road,
Lucknow, U.P. - 226030
E-mail : lucknow@bchindia.com

Ludhiana

S.C.O.- 18, 2nd Floor,
Feroze Gandhi Market,
Ludhiana - 140 001
Tel. : 0161-5021807/5022808
E-mail : ludhiana@bchindia.com

Mumbai

A-151, Mittal Tower,
Nariman Point,
Mumbai - 400 021
Tel. : 022-22822947/22850162
Fax : 022-22822858
E-mail : mumbai@bchindia.com

Madurai

12,Parvathi Plaza-3rd Floor,
70 Feet Road, Ellis Nagar,
Madurai-625016 Tamilnadu.

Pune

8, Sarosh Bhavan,
16-B/1, Dr. Ambedkar Road,
Pune - 411 001
Tel. : 020-41210002
E-mail : pune@bchindia.com

Raipur

6th Floor, Office No. 607,
Babylon Capital, Near Oswal
Petrol Pump, VIP Chowk,
G.E. Road, Raipur - 492 006
Tel. : 0771- 4045053
E-mail : raipur@bchindia.com

Vadodara

301, Third Floor, "Florence Classic",
10, Ashapuri Co-Op. Hsg. Soc. Ltd., Opp. VUDA Housing,
Near Cow Circle, Akota, Vadodara - 390 020
Tel. : 0265-2345068/2345069
Telefax : 0265-2345068,
E-mail : vadodara@bchindia.com

Other Branch Locations

Cochin : cochin@bchindia.com, **Guwahati :** guwahati@bchindia.com, **Vishakapatnam :** vizag@bchindia.com, **Surat :** surat@bchindia.com

Resident Engineer Locations

Anantapur	Kanpur	Nashik	Salem	Yamunanagar
Bhopal	Katni	Patna	Siliguri	
Calicut	Karimnagar	Puducherry	Surat	
Gurgaon	Kota	Rajkot	Tirunelveli	
Jalandhar	Midnapur	Ranchi	Udaipur	
Jalgaon	Muzaffarnagar	Rourkela	Vapi	
Jodhpur	Nagpur	Rudrapur	Vijayawada	

Since product improvement is a continuous process, the data furnished in this brochure may undergo revision without prior notice.