

Total Protection Complete Range



MOULDED CASE CIRCUIT BREAKER

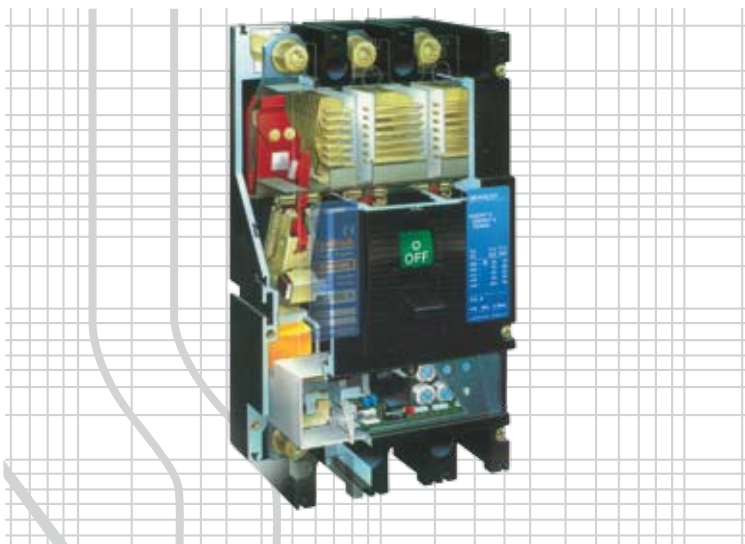


BCH ELECTRIC LIMITED
we care for you



TemBreak Plus

For High Demand Applications
Ics = 50KA and 85kA



In the ever advancing high level information age Tembreak Plus MCCBs are the answers for all switching and protection applications in power distribution and industrial control.

Power breaking capacities
Long lasting reliability
Unique contact structure
Selectivity enhanced switchgear

Power Breaker Series : Ics = 50KA

Type		XH125PJ	XH160PJ	XH250PJ	XH400PJ	XH400PE	XH630PJ	XH630PE	XH800PJ	XH800PE
No. of Poles		3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4	3, 4
Ampere Frame		125	160	250	400	400	630	630	800	800
Rated Current (Amps)		20, 32, 50, 63, 100, 125	160	160, 250	250, 400	250, 400	400, 630	630	800	800
Rated AC Breaking Capacity										
IEC 60947-2	415V	50/50	50/50	65/50	65/50	65/50	85/50	65/50	85/50	65/50
	400V	50/50	50/50	65/50	65/50	65/50	100/50	65/50	100/50	65/50
Thermal Magnetic		✓	✓	✓	✓		✓		✓	
Microprocessor						✓		✓		✓
Dimensions 4P		120x155x86	140x165x103	185x260x103	185x260x103	185x260x103	280x273x103	280x273x103	280x273x103	280x273x103
Dimensions 3P		90x155x86	105x165x103	140x260x103	140x260x103	140x260x103	210x273x103	210x273x103	210x273x103	210x273x103
Reference MCCB for accessories		XH125NJ	XH250NJ	XS400NJ	XS400NJ	XH400NE	XS630NJ	XH630NE	XS800NJ	XH800NE



Limiter Breaker Series : Ics = 65KA & 85 KA

Type		TL-100NJ	TL-250NJ	TL-400NE	TL-630NE	TL-800NE	TL-1250NE
No. of Poles		3, 4	3, 4	3, 4	3, 4	3, 4	3, 4
Ampere Frame		100	250	400	630	800	1250
Rated Current (Amps)		20, 32, 50, 63, 100	160, 250	400	630	800	1000 1250
Rated AC Breaking Capacity							
IEC 60947-2	415V	85/85	85/85	85/85	125/70	125/70	125/65
Icu/Ics KA	400V	85/85	100/100	100/100	125/70	125/70	125/65
Thermal Magnetic		✓	✓				
Microprocessor				✓	✓	✓	✓
Dimensions	4P	120x235x86	185x360x103	185x360x103	280x370x140	280x370x140	280x370x140
Dimensions	3P	90x235x86	140x360x103	140x360x103	210x370x140	210x370x140	210x370x140
Reference MCCB for accessories		XH125NJ	XH400NJ	XS400NE	XS1600NE	XS1600NE	XS1600NE



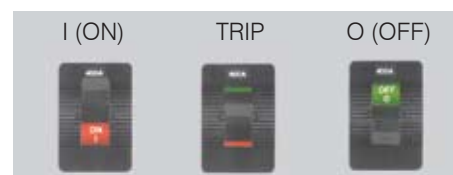
Power Breaker Series



Limiter Breaker Series

Suitable for Isolation

- Positive contact indication thru toggle mechanism.
- Padlock can be installed if contacts are in fully open condition.



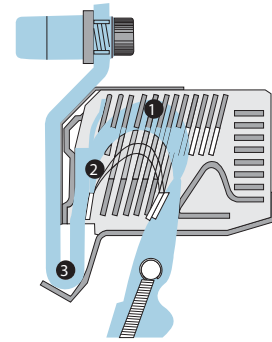
Unique contact Structure

Exceptional Current Limitation

Using FBM (Fast break mechanism) resulting in :

- Low peak current
- Low let thru energy

One FBM per pole in case of power breaker series and 2 FBM per pole in case of Limitor breaker series.



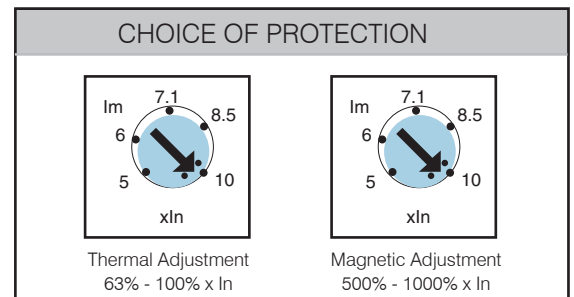
Thermal Magnetic Releases

Thermal Setting

Continuously adjustable from 63% to 100% of I_n . One of the largest in the market. (For all Tembreak Plus, XS and XH Series)

Magnetic Setting

From 5 to 10 times I_n in 5 main points of calibration are 5, 6, 7.1, 8.5 & 10. (For all MCCBs including and above 400A rating along with XH 250PJ)



Micro Processor MCCBs

Utilisation Category 'B'

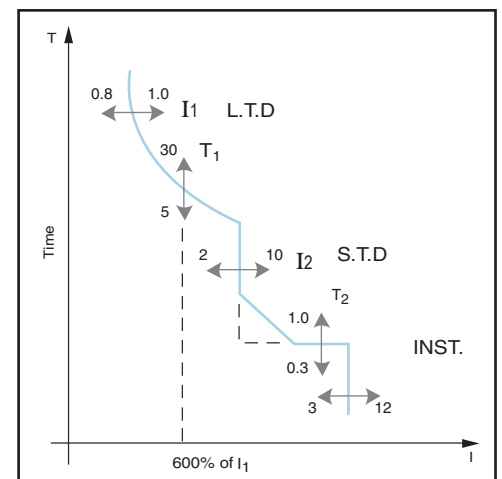
Intelligent : True r.m.s protection , unaffected by harmonics

Flexible : Over 200000 independent time current characteristics ensuring full selectivity

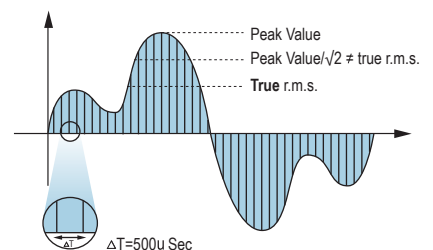
Applicable MCCBs

Frame	Rating	Poles	Breaking capacity	
			Icu	Ics
			At 415 VAC	
XH250PE	250	3, 4	65	33
XS400NE	400	3, 4	50	25
XS630NE	630	3, 4	50	25
XS800NE	800	3, 4	50	25
XS1250NE	1250	3, 4	65	49
XS1600NE	1600	3, 4	85	64
XH400PE	400	3, 4	65	50
XH630PE	630	3, 4	65	50
XH800PE	800	3, 4	65	50

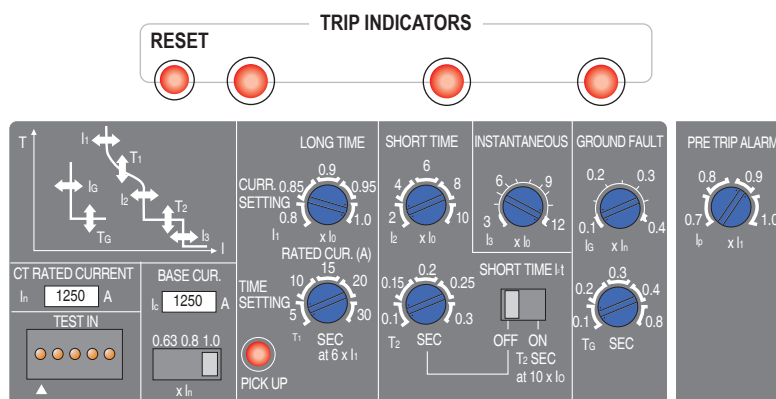
Setting Dial		Available Adjustments		
Base Current Setting	I_0	0.63 - 0.8 - 1.0 x I_0		Amps
LTD Pick up	I_1	0.8 - 0.85 - 0.9 - 0.95 - 1.0 x I_0		Amps
LTD Setting	T_1	5 - 10 - 15 - 20 - 25 - 30 (at I_1 x 600%)		Secs
STD Pick up	I_2	2 - 4 - 6 - 8 - 10 x I_0		Amps
STD Setting	T_2	0.1 - 0.15 - 0.2 - 0.25 - 0.3		Secs
INST Pick up	I_3	3 - 12 x I_0 (continuously adjustable)		Amps



Standard Time Current Curves



True R.M.S. Protection, Unaffected by Harmonics



* Standard for all Microprocessor MCCBs

TemBreak Series

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Features

Conforms to IEC60947-2 / IS 13947-2

Widest range from 10A to 4000A to suit all applications

Line Load Interchangeability

Current Limiting design

Compact sizes

Approved from

: American Bureau of shipping, USA

: Lloyd's register, UK

: Germanischer Lloyd, Germany

: ASTA, UK

Draw out type

Anti Corrosive application

DC Application

Genset Protection

Mining Series (1100 VAC)

Disconnecter Series

Plug in MCCB



Draw out type (DO)



4 Pole MCCB



- 100% rated Neutral
- Early make, Late break neutral



ACCESSORIES

Internal Accessories

Shunt Trip (SHT)

Standard Voltages : (with builtin Anti burning switch)

- 200-480 V AC
- 100-115 V AC

Under Voltage Trip (UVT)

Standard Voltage :

- 350-450 V AC



Auxiliary Switch (AX)

- 1 Change over

Alarm Switch (AL)

- 1 Change over

Aux-AL Switch (AUX-AL)

- 1 Change over

Note : Other voltages also available on request
 : Aux switch in 2/3/4/5/6 Change over available on request
 : UVT is not available for XE225NC

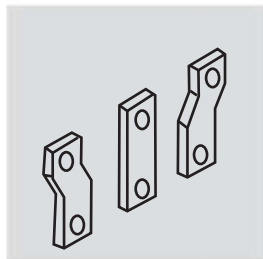
External Accessories



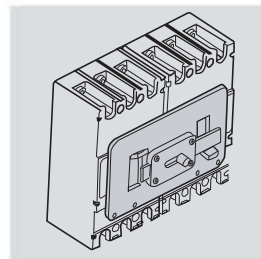
Motor Operator



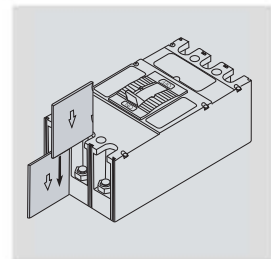
Rotary Handle
Panel mounted,
variable depth



Extended Terminals



- Front Type
- Rear Type



Interpole barriers

- Upto 400 A Frame

- 630 A and 800 A Frames

- 1250 A Frame - XS 1250 NE