

WiNbreak1

An Absolute Solution for
Distribution & Protection

Rating | 16A~400A

Poles | 3P & 4P

Breaking capacity | 25kA, 35kA
36kA, 50kA

Ui | 750V **Uimp** | 8kV



MCCB

WiNbreak1 MCCB is an incredibly innovative high quality circuit breaker supported with state-of-the-art manufacturing technologies, contemporary design, ergonomics and compactness.

WiNbreak1 in conforms with latest standard IS/IE C60947-2.

WiNbreak1 provides accurate and impeccable protection against overload and short circuit which ensures utmost performance, reliability and complete safety. The high breaking capacity of these MCCBs reflects the robustness of its design and ensures high electrical and mechanical life.



WiNbreak1 MCCB

- Conforms to IS/IEC 60947-2
- Ics=100% Icu
- Range: 16A-400A, 3 & 4 Pole
- Breaking capacity: 25kA, 35/36kA, 50kA
- Positive Isolation
- Trip free mechanism
- Neutral with 100% rated current
- Bounce free contact structure
- Wide range of Internal & External Accessories
- SS Enclosure available
- Standard packing includes insulating phase barrier and hardware



FMU (Thermal Magnetic) Release • Adjustable Overload 80-100% • Fixed short circuit 10In

Size	Rated Current (Amps)	Breaking capacity Icu at 415V AC	3 Pole Reference	4 Pole Reference
Frame 1	16, 20, 25, 32, 40, 50	25kA	CSE1M125FMU3P-*	CSE1M125FMU4P-*
	16, 20, 25, 32, 40, 50	35kA	CSE1N125FMU3P-*	CSE1N125FMU4P-*

ATM (Thermal Magnetic) Release • Adjustable Overload 80-100% • Adjustable Short Circuit 5-10 In

Size	Rated Current (Amps)	Breaking capacity Icu at 415V AC	3 Pole Reference	4 Pole Reference	
Frame 1	63, 80, 100	25kA	CSE1M125ATM3P-*	CSE1M125ATM4P-*	
	125		CSE1M125ATM3P-*	CSE1M125ATM4P-*	
Frame 2	160		CSE2M250ATM3P-*	CSE2M250ATM4P-*	
	200		CSE2M250ATM3P-*	CSE2M250ATM4P-*	
Frame 3	250		CSE2M250ATM3P-*	CSE2M250ATM4P-*	
	320		CSE3M400ATM3P-*	CSE3M400ATM4P-*	
Frame 3	350		CSE3M400ATM3P-*	CSE3M400ATM4P-*	
	400		CSE3M400ATM3P-*	CSE3M400ATM4P-*	
Frame 1	63, 80, 100		35kA	CSE1N125ATM3P-*	CSE1N125ATM4P-*
	125			CSE1N125ATM3P-*	CSE1N125ATM4P-*
Frame 2	160	CSE2N250ATM3P-*		CSE2N250ATM4P-*	
	200	CSE2N250ATM3P-*		CSE2N250ATM4P-*	
Frame 3	250	CSE2N250ATM3P-*		CSE2N250ATM4P-*	
	320	CSE3N400ATM3P-*		CSE3N400ATM4P-*	
Frame 3	350	CSE3N400ATM3P-*		CSE3N400ATM4P-*	
	400	CSE3N400ATM3P-*		CSE3N400ATM4P-*	
Frame 3	320	50kA		CSE3S400ATM3P-*	CSE3S400ATM4P-*
	350			CSE3S400ATM3P-*	CSE3S400ATM4P-*
	400		CSE3S400ATM3P-*	CSE3S400ATM4P-*	

ATM (Thermal Magnetic) Release • Adjustable Overload 80-100% • Adjustable Short Circuit 5-10 In • Ics=75%Icu

Size	Rated Current (Amps)	Breaking capacity Icu at 415V AC	3 Pole Reference	4 Pole Reference
Frame 2	160	25kA	CSE2MX250ATM3P-*	CSE2MX250ATM4P-*
	200		CSE2MX250ATM3P-*	CSE2MX250ATM4P-*
	250		CSE2MX250ATM3P-*	CSE2MX250ATM4P-*
Frame 2	160	35kA	CSE2NX250ATM3P-*	CSE2NX250ATM4P-*
	200		CSE2NX250ATM3P-*	CSE2NX250ATM4P-*
	250		CSE2NX250ATM3P-*	CSE2NX250ATM4P-*
Frame 2	160	50kA	CSE2S250ATM3P-*	CSE2S250ATM4P-*
	200		CSE2S250ATM3P-*	CSE2S250ATM4P-*
	250		CSE2S250ATM3P-*	CSE2S250ATM4P-*

FMU / ATM (Thermal Magnetic) Release • Adjustable Overload 80-100% • Adjustable Short Circuit 5-10 In • Ics=50%Icu

Frame 1	16, 20, 25, 32, 40, 50	50kA	CSE1S125FMU3P-*	CSE1S125FMU4P-*
	63, 80, 100		CSE1S125ATM3P-*	CSE1S125ATM4P-*
	125		CSE1S125ATM3P-*	CSE1S125ATM4P-*

Notes :

1. While Ordering, Replace*** by Current Rating.
2. MCCB with 36kA Breaking capacity is also available.

WiNbreak1 MCCB

Microprocessor Release 'MicroPro WB'

- Conforms to IS/IEC 60947-2
- Ics=100%Icu
- Range: 40A-250A, 3P & 4P
- Breaking capacity: 35kA & 50kA
- Suitable for isolation
- Adjustable over load from 0.4-1.0In
- Adjustable short circuit from 2-12Ir
- Inbuilt ground fault protection available 20% to 100% of In
- Adjustable neutral overload protection available: 50% to 100% of Ir
- Adjustable current imbalance protection available: (30%-70%) of Ir
- Provision of thermal memory: ON/OFF
- Communication using RS485 through MODBUS protocol
- View last trip information
- LCD: Indication of measurement and information



ETM (with in-built Earth fault Protection) • Adjustable Overload 40 - 100% • Adjustable shortcircuit 2-12 Ir				
Size	Release Range (A)	Breaking Capacity Icu at 415V AC	3 Pole - Reference	4 Pole - Reference
Frame 1	16-40	35kA	CSE1N125ETM3P-40A	CSE1N125ETM4P-40A
	25-63		CSE1N125ETM3P-63A	CSE1N125ETM4P-63A
	40-100		CSE1N125ETM3P-100A	CSE1N125ETM4P-100A
	50-125		CSE1N125ETM3P-125A	CSE1N125ETM4P-125A
Frame 2	63-160		CSE2N250ETM3P-160A	CSE2N250ETM4P-160A
	80-200		CSE2N250ETM3P-200A	CSE2N250ETM4P-200A
	100-250		CSE2N250ETM3P-250A	CSE2N250ETM4P-250A
ETM (with in-built Earth fault Protection) • Adjustable Overload 40 - 100% • Adjustable shortcircuit 2-12 Ir • Ics=75%Icu				
Frame 2	63-160	50kA	CSE2S250ETM3P-160A	CSE2S250ETM4P-160A
	80-200		CSE2S250ETM3P-200A	CSE2S250ETM4P-200A
	100-250		CSE2S250ETM3P-250A	CSE2S250ETM4P-250A
ETM (with in-built Earth fault Protection) • Adjustable Overload 40 - 100% • Adjustable shortcircuit 2-12 Ir • Ics=50%Icu				
Frame 1	16-40	50kA	CSE1S125ETM3P-40A	CSE1S125ETM4P-40A
	25-63		CSE1S125ETM3P-63A	CSE1S125ETM4P-63A
	40-100		CSE1S125ETM3P-100A	CSE1S125ETM4P-100A
	50-125		CSE1S125ETM3P-125A	CSE1S125ETM4P-125A

Note:

1. While ordering, Replace "*" with Current rating
2. For 3 Pole ETM (Microprocessor) MCCB one Neutral CT will be required, if ground fault protection is required.

Single Pole MCCB

- Conforms to IS/IEC 60947-2
- Ics=100%Icu
- Range: 16A-160A
- Breaking capacity: 18kA, 25kA & 36kA
- Standard packing includes Spreader terminals, insulating phase barrier & hardware



FTM (Thermal Magnetic) Release • Fixed Overload • Fixed short circuit			
Size	Rating (A)	Breaking Capacity Icu at 240V AC	Reference
Frame 1	16, 20, 25, 32, 40, 50, 63#	18kA	CSE1K160FTM1P-*
	80, 100		CSE1K160FTM1P-*
	125		CSE1K160FTM1P-*
	160		CSE1K160FTM1P-*

Note:

1. While Ordering, Replace "*" by Current Rating.
2. Spreader Terminals are not included for MCCBs upto 63A.
3. Also available in 25kA & 36kA.

Accessories					
Suitable for use on WB1 MCCBs	Shunt Trip (SHT)	Under Voltage Trip (UVT)	Auxiliary Switch (AX)	Alarm Switch (AL)	Combination Switch (AX+AL)
CSE1, CSE2	STW1-(...V)	UVTW1-(...V)	AXW1-*	ALW1-*	XLW1-*
CSE3	STW1-3(...V)	UVTW1-3(...V)	AXW1-3*	ALW1-3*	XLW1-3*

Note:

1. Please replace "***" with L as MCCB Left hand side position & R as MCCB right hand position
2. For Frame1, Frame2 & Frame3 Shunt Trip is available in 24V DC, 48V DC, 110V DC, 220V AC/DC & 415V AC. (Replace STW1-(...V) by required voltage.
3. For Frame1, Frame2 UVT is available in 24V DC, 48V DC, 110V DC, 220V AC/DC & 415V AC. (Replace UVTW1-(...V) by required voltage.
4. For Frame 3 UTV available in 110V AC, 220V AC/DC & 415V AC. (Replace UVTW1-(...V) by required voltage.
5. Maximum Possibilities for Internal Accessories
 - a) 3 Pole, MCCB with Thermal Release, Any two accessories can be fitted at one time
 - b) 4 Pole, MCCB with Thermal Release, Any Three accessories can be fitted at one time
 - c) 3 Pole MCCB with Microprocessor Release, Right hand seat is not available. Hence, one accessory can be fitted at one time.
 - d) 4 Pole MCCB with Microprocessor Release, Any two accessories can be fitted at one time.
 - e) UVT can be fitted only in left hand seat



Extended Rotary Handle	
Suitable for use on WB1 MCCBs	Reference
CSE1	EHW1-125
CSE2	EHW1-250
CSE3	EHW1-400

Panel Door Mounted Key Lock for Extended Rotary Handle	
Suitable for use on WB1 MCCBs	Reference Code
CSE1	EXTKLWB1-125AF-T1
CSE2	EXTKLWB1-250AF-T1
CSE3	EXTKLWB1-400AF-T1

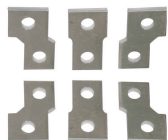


Mechanical Interlock		
Suitable for use on WB1 MCCBs	Applied between two MCCBs	
	Reference 3 Pole	Reference 4 Pole
CSE1	MIW1-125-3P	MIW1-125-4P
CSE2	MIW1-250-3P	MIW1-250-4P
CSE3	MIW1-400-3P	MIW1-400-4P



Locking Devices*		
Suitable for use on MCCBs	Key Lock*	Padlocking#
	Reference	Reference
CSE1	KLW1-125	PLW1-125
CSE2	KLW1-250	PLW1-250
CSE3	KLW1-400	PLW1-400

Removable Type * Factory fitted only



Spreader Terminals for WB1 MCCB				
Suitable for use on MCCBs		Current Rating (A)	Reference	Std Pkg (No.s)
CSE1	3 Pole	15, 20, 32, 40, 50, 63	CSET1033	Set of 3
CSE1	3 Pole	80, 100, 125	CSET1033C	Set of 3
CSE1	4 Pole	15, 20, 32, 40, 50, 63	CSET1044	Set of 4
CSE1	4 Pole	80, 100, 125	CSET1044C	Set of 4
CSE2	3 Pole	160, 200, 250	CSET2533	Set of 3
CSE2	4 Pole	160, 200, 250	CSET2544	Set of 4
CSE3	3 Pole	320, 350, 400	CSETETW14033	Set of 3
CSE3	4 Pole	320, 350, 400	CSETETW14044	Set of 4



Earth Fault Relay (Built in CBCT) Suitable for 3 Phase 3 wire distribution network

Rating (Amps)	Earth Fault Relay Setting Range	Reference
32A	3.2~32A	EFR-CBCT125-AF-32
40A	4~40A	EFR-CBCT125-AF-40
63A	6.3~63A	EFR-CBCT125-AF-63
80A	8~80A	EFR-CBCT125-AF-80
100A	10~100A	EFR-CBCT125-AF-100
125A	12.5~125A	EFR-CBCT125-AF-125
200A	20~200A	EFR-CBCT250-AF-200
250A	25~250A	EFR-CBCT250-AF-250
400A	40~400A	EFR-CBCT400-AF-400
630A	63~630A	EFR-CBCT630-AF-630
800A	80~800A	EFR-CBCT800-AF-800
1000A	100~1000A	EFR-CBCT1250-AF-1000
1250A	125~1250A	EFR-CBCT1250-AF-1250

Earth Fault Relay (with NCT) Suitable for 3 Phase 4 wire distribution network

Rating (Amps)	Earth Fault Relay Setting Range	Reference
40A	4~40A	EFR125-AF-40(N)
100A	10~100A	EFR125-AF-100(N)
125A	12.5~125A	EFR125-AF-125(N)
200A	20~200A	EFR250-AF-200
250A	25~250A	EFR250-AF-250
400A	40~400A	EFR400-AF-400
630A	63~630A	EFR630-AF-630
800A	80~800A	EFR800-AF-800
1000A	100~1000A	EFR1250-AF-1000
1250A	125~1250A	EFR1250-AF-1250

NCT WiNbreak1 ETM (Microprocessor) 3 Pole MCCB if ground fault facility is required

Rating (Amps)	Description	Reference
40	40/0.1A	ETMNCT40A
63	63/0.1A	ETMNCT63A
80	80/0.1A	ETMNCT80A
100	100/0.1A	ETMNCT100A
125	125/0.1A	ETMNCT125A
160	160/0.1A	ETMNCT160A
200	200/0.1A	ETMNCT200A
250	250/0.1A	ETMNCT250A
320	320/0.1A	ETMNCT320A
350	350/0.1A	ETMNCT350A
400	400/0.1A	ETMNCT400A



SS Enclosure for WB1 MCCB

Size	Suitable for WB1 MCCBs	Reference
Frame1	CSE1	CSE-ENCL-125
Frame1	CSE2	CSE-ENCL-250

Notes:

1. Reference Code is for Enclosure only (without MCCB)
2. For Placing an order for MCCB along with Enclosure, please apply prefix E-before MCCB Reference Code.