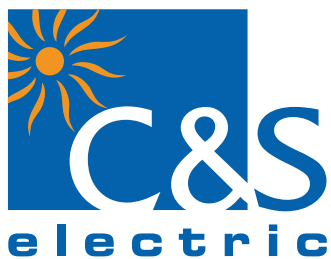


We touch your **electricity** everyday!

**WiNbreak2**

CE KEMA



**Moulded Case  
Circuit Breaker**

# Overview



Icu 150kA • Ui 750V • Uimp 8kA

CD and CS circuit breakers are rated from 16 to 1600A and are available in four frame sizes. Ics=100% Icu: 37, 50, 65, 100, 150kA at 415V AC

Winbreak2 CD and CS circuit breakers provide superior performance in a compact package. They are used in cascade rated systems, allowing the use of lower interruption circuit breakers downstream, which lead to lower system cost.

While meeting IEC60947-2 service and interrupting ratings, these breakers provide unmatched flexibility by employing a wide variety of trip units including adjustable thermal-fixed magnetic, adjustable thermal adjustable magnetic, and electronic release.

Winbreak2 CD circuit breaker is available from 16 to 160A, in single frame and CS circuit breakers are available in four frame sizes in ratings from 125 to 1600A and in interrupting capacities up to 150kA at 415V AC.

Standard calibration is at 40 °C with optional 55 °C factory calibration available for application where higher ambient temperatures are encountered.

Winbreak2 MCCB incorporate contemporary safety features like positive isolation, finger proof terminals & double insulated housing.

## 5 Frame Size

### CS 1600

In 1600A  
Icu: 50kA, 70kA, 150kA; Ics=Icu  
OCR: N, A, P, S type  
280(W) x 327(H)  
x 155.5mm (D)



### CS 800

In 800A  
Icu: 65kA(N), 100kA(H), 150kA(L)  
Ics=Icu  
210(W) x 320(H) x 135mm(D)



### CS 400 / 630

In 300-630A  
Icu: 65kA(N), 85kA(H), 150kA(L)  
Ics=Icu  
140(W) x 260(H) x 110mm(D)



### CS 160 / 250

In 125-250A  
Icu: 37kA(S) 50kA(N), 85kA(H), 150kA(L)  
Ics=Icu  
105(W) x 160(H) x 86mm(D)

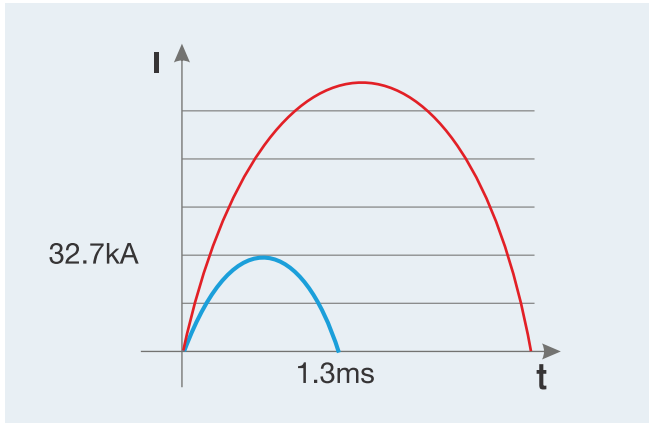


### CD 100/160

In 16-100A  
Icu: 37kA(S) 50kA(N), 85kA(H), 150kA(L)  
Ics=Icu  
90(W) x 140(H) x 86mm(D)

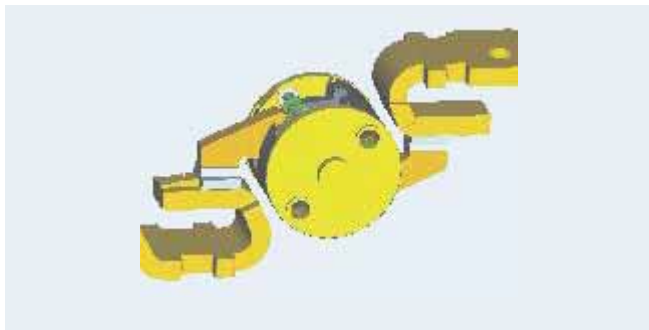


# Salient Features



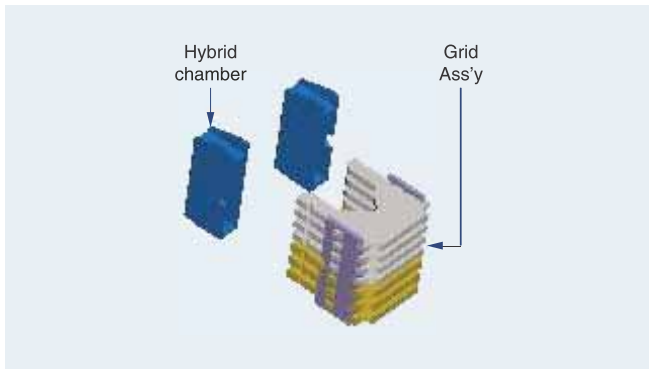
## Current Limiting

The current limiting capacity of WiNbreak2 MCCB is its aptitude to reduce short-circuit currents. Through current limiting capacity, harmful effects on the installation can be reduced. WiNbreak2 MCCB is the fastest opening breaker. It clears the fault in just 1.3 msec. WiNbreak2 MCCB dissipates extremely low let through energy thereby minimizing stress under fault conditions.



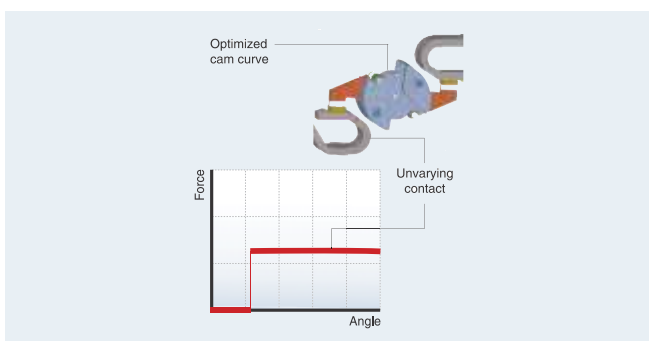
## Double Contact Structure

WiNbreak2 MCCB has double break contact which ensures less thermal stresses & choice free operating quadrant. At Installation, Double Break switching contacts offer flexibility of retaining either quadrant. WiNbreak2 MCCB offers convenience of connection to either terminal side as there is no load-line bias & hence no de-ration in breaking capacity of MCCB.



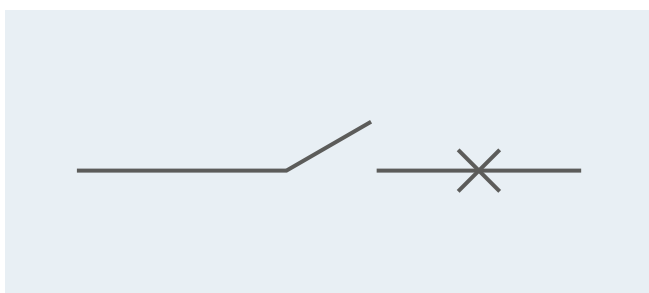
## Arc Extinguishing Unit

WiNbreak2 MCCB has new technology for arc quenching called PASQ. PASQ is the abbreviation of Puffer Assisted Self Quenching which is the technology to increase the interrupting performance by blowing out the gas to the arc. The gas pressure which is generated from hybrid chamber is accumulated in the space of Hybrid chamber & then the gas is blown to the arc to extinguish. Especially this technology improves the high voltage breaking performance.



## Constant Contact Force

The technology is to maintain constant contact pressure through optimization of cam curve in rotating contact device. WiNbreak2 MCCB has Unvarying contact force regardless of over travel. Open speed of moving contact is rapid by optimized cam curve regardless of trip signal.



## Positive Isolation

These MCCBs are suitable for isolation also. As defined in IS / IEC60947-2, the operation of isolation function highlights the following points:

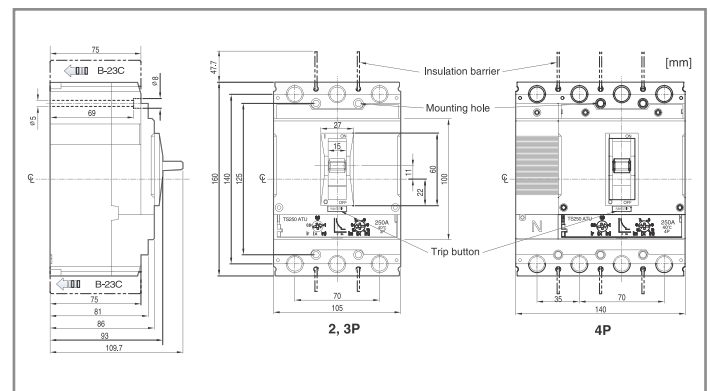
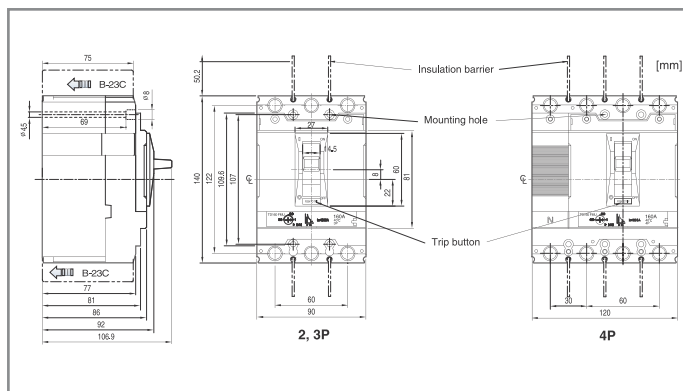
- Contacts operation correctly indicates operating reliability of interior mechanism.
- No residual current
- Higher impulse withstand voltage for terminals at the power supply side and load side.

# Technical Data



CD100 / 160		CS160	
Frame size	[AF]	100	160
Rated current, In *	[A]	16~100	125 160
No. of poles		2*, 3, 4	2*, 3, 4
Rated operational voltage, Ue	AC	690	690
	DC	500	500
Rated impulse withstand voltage, Uimp	[kV]	8	8
Rated insulation voltage, Ui	[V]	750	750
Rated ultimate short-circuit breaking capacity, Icu			
AC 50/60Hz	220/240V	[kA]	
	380/415V	[kA]	
	440/460V	[kA]	
	480/500V	[kA]	
	660/690V	[kA]	
DC	250V	[kA]	
DC(2poles in series)	500V	[kA]	
Rated service breaking capacity, Ics	[%Icu]		
Category of utilization		A	A
Isolation behavior		●	●
Reference standard		IS 13947-2 / IEC60947-2	IEC60947-2
Trip unit (release)**			
Thermal-Magnetic			
● adjustable-thermal, fixed-magnetic	FMU	● (Available)	● (Available)
● adjustable-thermal, adjustable-magnetic	ATU	-	● (Available)
Electronic			
● LSI	ETS	-	●
● LSI	ETM	-	-
Option	Earth-fault protection, Ig	-	-
	Zone selective interlocking, ZSI	-	-
	Ammeter	-	-
	Communication	-	-
	Residual current device module (RTU)	-	-
		▲(Option)	▲(Option)
Connection	fixed	front-connection	●
		rear-connection	●
	plug-in	front-connection	●
		rear-connection	●
Mechanical life	[operations]	25000	25000
Electrical life @ 415 V AC	[operations]	10000	10000
Basic dimensions, W × H × D (front connection)	3-pole	[mm]	90 × 140 × 86
	4-pole	[mm]	120 × 140 × 86
Weight (front connection)	3-pole	[kg]	1.5
	4-pole	[kg]	1.8

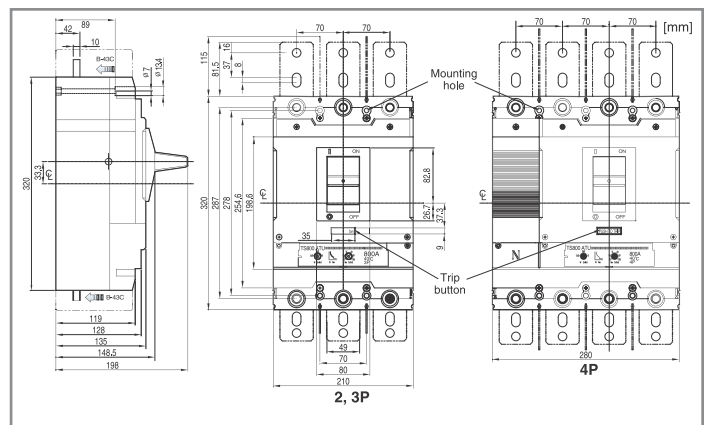
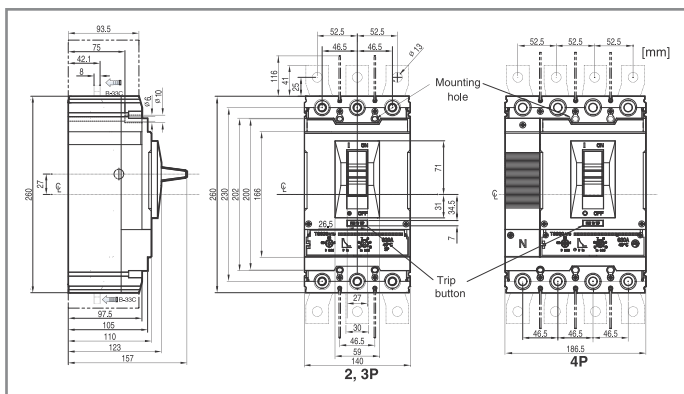
S	N	H	L	N	H	L
50	85	100	200	100	120	200
37	50	85	150	50	85	150
25	50	70	130	50	70	130
18	30	50	65	42	65	85
6	5	8	10	10	15	20
37	42	65	100	50	85	100
37	42	65	100	50	85	100
100%	100%	100%	100%	100%	100%	100%



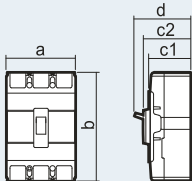
● Applicable to MCCBs equipped with FMU, ATU \* 2 Pole MCCB in 3 Pole Frame size \*\* MTU Release (For motor protection) is also available  
● (Available)



CS250				CS400			CS630			CS800		
250				400			630			800		
125, 160, 200, 250				300, 400			500, 630			800		
2*, 3, 4				2*, 3, 4			2*, 3, 4			2*, 3, 4		
690				690			690			690		
500				500			500			500		
8				8			8			8		
750				750			750			750		
S	N	H	L	N	H	L	N	H	L	N	H	L
50	100	120	200	100	120	200	100	120	200	100	120	200
37	50	85	150	65	85	150	65	85	150	65	100	150
25	50	70	130	65	85	130	65	85	130	65	100	130
18	42	65	85	42	65	85	42	65	85	42	85	100
6	10	15	20	10	20	35	10	20	35	10	20	35
37	50	85	100	50	85	100	50	85	100	50	85	100
37	50	85	100	50	85	100	50	85	100	50	85	100
100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
A				A			A			A		
●				●			●			●		
IEC60947-2				IEC60947-2			IEC60947-2			IEC60947-2		
● (Available)				● (Available)			● (Available)			● (Available)		
● (Available)				● (Available)			● (Available)			● (Available)		
●				●			●			●		
-				▲ (Option)			▲ (Option)			▲ (Option)		
-				▲ (Option)			▲ (Option)			▲ (Option)		
-				▲ (Option)			▲ (Option)			▲ (Option)		
-				▲ (Option)			▲ (Option)			▲ (Option)		
▲ (Option)				▲ (Option)			▲ (Option)			▲ (Option)		
●				●			●			●		
●				●			●			●		
●				●			●			●		
●				●			●			●		
25000				20000			20000			10000		
10000				6000			6000			3000		
105 × 160 × 86				140 × 260 × 110			140 × 260 × 110			210 × 320 × 135		
140 × 160 × 86				185 × 260 × 110			185 × 260 × 110			280 × 320 × 135		
2				5.4			5.4			15.1		
2.6				7.2			7.2			19.6		



# Selection Table

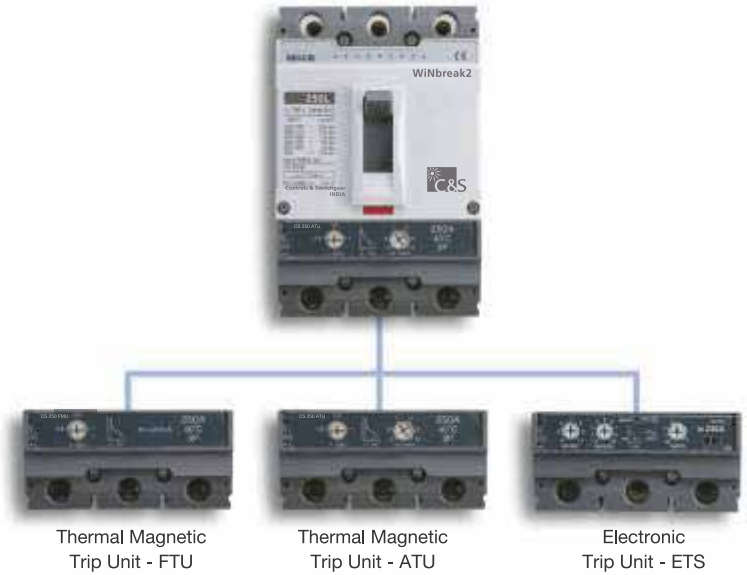
Type				CS1000			CS1250		CS1600			
Ampere frame				1000			1250		1600			
	Pole			3, 4			3, 4		3, 4			
	Rated current,(A)	In	-5~40°C	800, 1000			1250		1600			
			50°C	800, 1000			1250		1560			
			65°C	800, 1000			1240		1420			
	Rated insulation voltage, (V)	Ui		1000			1000		1000			
	Rated impulse withstand voltage, (kV) Uimp			8			8		8			
	Rated operational voltage, (V)	Ue	AC50/60Hz	690			690		690			
			DC				-					
Rated short-circuit breaking capacity				N	H	L	N	H	N	H		
(sym)	IEC60947-2 Rated ultimate short-circuit breaking capacity, (kA) (Icu)	AC50/60Hz 220/240V		55	75	200	55	75	55	75		
			380/415V	50	70	150	50	70	50	70		
			440V/460V	50	65	130	50	65	50	65		
			480/500V	40	50	100	40	50	40	50		
			660/690V	35	45	50	35	45	35	45		
			DC	250V 2P	-	-	-	-	-	-	-	-
				500V 2P	-	-	-	-	-	-	-	-
				750V 3P	-	-	-	-	-	-	-	-
	Rated service breaking capacity, (Ics)	%Icu		100%	75%	100%	100%	75%	100%	75%		
	Rated short-circuit making capacity, (kA) (Icw)	AC50/60Hz	1s	25	25	12	25	25	25	25		
			3s	-	-	-	-	-	-	-		
	Overriding instantaneous protection	kA peak		50	50	-	50	50	50	50		
Isolation												
Category				B	B	A	B	B	B	B		
	Mechanical life (operations)			10000			10000		10000			
(Life cycle)	Electrical life (operations)	440V	In/2	6000	6000	4000	5000	5000	5000	5000		
			In	5000	5000	3000	4000	4000	2000	2000		
		690V	In/2	4000	4000	3000	3000	3000	2000	2000		
			In	2000	2000	2000	2000	2000	1000	1000		
Pollution degree				3			3		3			
Dimension (mm)			a (3p/4p)	210/280								
			b	327								
			c1	155.5								
			c2	162.7								
			d	185.3								
			Weight (kg)			3P	13					
			4P	16.8								



**Communication**  
with RS 485 port

# Interchangeable Trip Units

WINbreak2 circuit breakers provide several kinds of protection function according to selected trip unit and thanks to interchangeable trip unit concept, user can change the trip unit easily and rapidly. Especially, electronic trip units offer many kinds of protection functions, including communication, zone selectivity.



## Protection of Power Distribution Systems

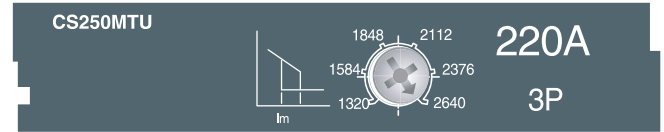
### Thermal Magnetic trip units

- FMU: Adjustable thermal and Fixed magnetic trip unit
- ATU: Adjustable thermal and Adjustable magnetic unit



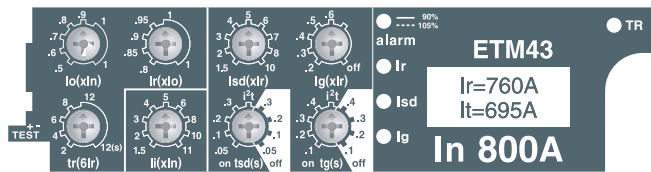
### Motor Protection

- MTU: Magnetic only trip unit



### Electronic trip units

- ETS: Standard electronic unit
- ETM: Multi-functional electronic trip unit



### Control and Disconnection





- DSU: Disconnecting Switch unit



		1.6	13	16	32	40	64	80	100	125	160	300	400	500	630	800	
<b>CD series</b>	Thermal-magnetic (Built-in)				FMU												
	Thermal-magnetic (Interchangeable)											FMU					
<b>CS series</b>	Magnetic only (Interchangeable)											MTU					
	Electronic (Interchangeable)											ETS					
													ETM				



# Trip Release - CS1600AF

Classification	N type	A type	P type	S type
Externals				
Current protection	EL / S / I / G / Thermal	<ul style="list-style-type: none"> <li>L / S / I / G / Thermal</li> <li>ZSI(Protective coordination)</li> </ul>	<ul style="list-style-type: none"> <li>L / S / I / G / Thermal(Continuous)</li> <li>ZSI(Protective coordination)</li> </ul>	• P type
Other protection	-	<ul style="list-style-type: none"> <li>Earth leakage (Option)</li> </ul>	<ul style="list-style-type: none"> <li>Earth leakage(Option)</li> <li>Over/Under current</li> <li>Over/Under frequency</li> <li>Unbalance(Voltage/Current)</li> <li>Reverse power</li> </ul>	• P type
Measurement function	-	<ul style="list-style-type: none"> <li>Current (R / S / T / N)</li> </ul>	<ul style="list-style-type: none"> <li>3 Phase Voltage/Current RMS/Vector</li> <li>Power(P, Q, S), PF(3-Phase)</li> <li>Energy(Positive/Negative)</li> <li>Frequency, Demand</li> </ul>	<ul style="list-style-type: none"> <li>3 Phase Voltage/Current RMS/Vector</li> <li>Power(P, Q, S), PF(3-Phase)</li> <li>Energy(Positive/Negative)</li> <li>Frequency, Demand</li> <li>Voltage/Current harmonics (1st~63th)</li> <li>3 Phase Waveforms</li> <li>THD, TDD, K-Factor</li> </ul>
Fine adjustment	-	-	<ul style="list-style-type: none"> <li>Fine adjustment for long/short time delay/instantaneous/ ground</li> </ul>	• P type
Pre Trip Alarm	-	-	<ul style="list-style-type: none"> <li>Overload protection relays : DO (Alarm) (Ground fault is not available when using Pre trip alarm)</li> </ul>	• P type
Digital Output	-	<ul style="list-style-type: none"> <li>3DO (Fixed)</li> <li>L, S/I, G Alarm</li> </ul>	<ul style="list-style-type: none"> <li>3DO (Programmable)</li> <li>Trip, Alarm, General</li> </ul>	• P type
IDMTL setting	-	-	<ul style="list-style-type: none"> <li>Compliance with IEC60255-3 SIT, VIT, EIT, DT</li> </ul>	• P type
Communication	-	<ul style="list-style-type: none"> <li>Modbus/RS. 485</li> <li>Profibus. DP</li> </ul>	<ul style="list-style-type: none"> <li>Modbus / RS-485</li> <li>Profibus-DP</li> </ul>	<ul style="list-style-type: none"> <li>Modbus / RS-485</li> <li>Profibus-DP</li> </ul>
Power supply	<ul style="list-style-type: none"> <li>Self Power</li> <li>- Power source works over 30% current of In (one pole)</li> </ul>	<ul style="list-style-type: none"> <li>Self Power</li> <li>- Power source works over 30% current of In (one pole)</li> <li>- External power source are required for comm.</li> <li>AC/DC 100~250V</li> <li>DC 24~60V</li> </ul>	<ul style="list-style-type: none"> <li>AC/DC 100~250V</li> <li>DC 24~60V</li> </ul>	<ul style="list-style-type: none"> <li>AC/DC 100~250V</li> <li>DC 24~60V</li> </ul>
RTC timer	• Available	• Available	• Available	• Available
LED for trip info.	<ul style="list-style-type: none"> <li>Long time delay</li> <li>Short time delay/</li> <li>Instantaneous</li> <li>Ground fault</li> </ul>	• N type	• N type	• N type
Fault recording	-	<ul style="list-style-type: none"> <li>10 records (Fault/Current/Date and Time)</li> </ul>	<ul style="list-style-type: none"> <li>256 records (Fault/Current/Date and Time)</li> </ul>	<ul style="list-style-type: none"> <li>256 records</li> <li>Last fault wave recording (3 Phase)</li> </ul>
Event recording	-	-	<ul style="list-style-type: none"> <li>256 records(Content, Status, Date)</li> </ul>	• P type
Operating button	• Reset button	<ul style="list-style-type: none"> <li>Reset, Menu</li> <li>Up/Down, Left/Right, Enter</li> </ul>	• A type	• A type

Basic protection function(L / S / I / G) is still under normal operation without control power.



## Simplicity

The range of Internal Accessories of CD & CS series circuit breakers is characterized by common use regardless of frame size and allows inventory management. Since the housing is double insulated, fitment of electrical accessories is safe even during energized condition.

## Common use to all Winbreak2 CD & CS circuit breakers

Electrical auxiliaries that are installed internally are common from 16 to 800A



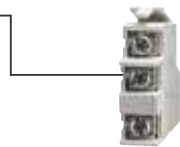
### Alarm Switch (AL)

Alarm switches offer provisions for immediate audio or visual indication of a tripped breaker due to overload, short-circuit, operation of shunt trip or under voltage trip conditions, operation of push button.

They are particularly useful in automated plants where operators must be signaled about changes in the electrical distribution system. This switch features a closed contact when the circuit breaker is operated manually. Its contact is open when the circuit breaker is reset.

### Fault Alarm Switch (FAL)

FAL indicates that the circuit breaker has tripped because of overload or short-circuit



### Auxiliary Switch (AX)

Auxiliary switch is for applications requiring remote "ON" and "OFF" indication. Each switch contains two contacts having a common connection. One is open and the other closed when the circuit breaker is open and vice-versa.



### Under Voltage trip (UVT)

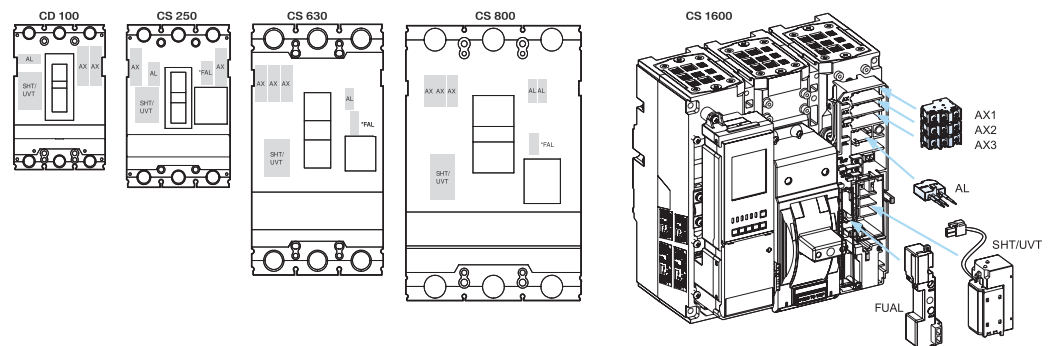
The under voltage trip coil automatically opens a circuit breaker when voltage drops to a value ranging between 35% to 70% of the line voltage. The operation is instantaneous and the circuit breaker cannot be re-closed until the voltage returns to 85% of line voltage. Continuously energized, the under voltage trip must be operating before the breaker can be closed.



### Shunt Trip (SHT)

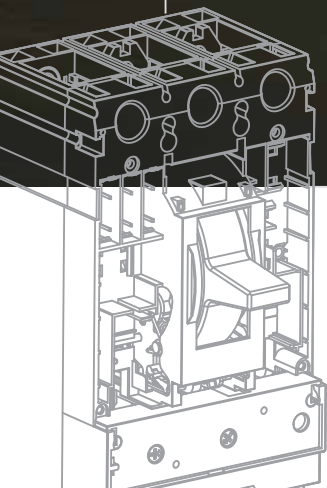
The shunt trip opens the mechanism in response to an externally applied voltage signal. CS shunt trips include clearing contacts that automatically clear the signal circuit when the mechanism has tripped.

## Maximum Possible configuration of electrical auxiliaries



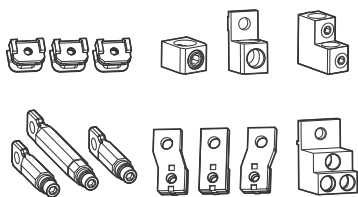
Phase	Accessory	CD 100	CS 160/250	CS 400/630	CS 800
R (Left)	AX	-	1	3	3
	AL	1	1	-	-
	SHT or UVT	1	1	1	1
T (Right)	AX	2	1	-	-
	AL	-	-	1	2
	FAL	-	1	1	1

Note: FAL can be applied to only MCCB with electronic trip release.



## Convenience

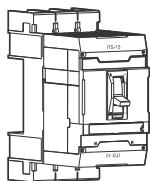
Wide range of external accessories provides convenient solution for mounting, cable connection, insulation, safety lock and remote control.



### Front and rear connection

Several kinds of terminals can be equipped with WiNbreak2 CD & CS circuit breakers.

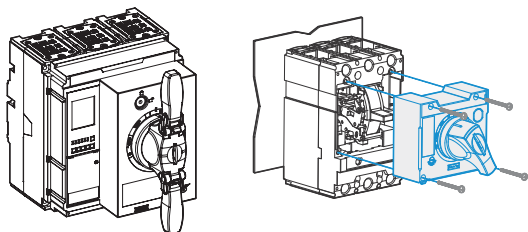
- Terminal mounter
- Terminal box for bare cable
- Extended lug terminal box
- Spreader
- Rear Terminal



### Plug-in base

It makes to extract and / or rapidly replace the circuit breaker without having to touch connections. (Easy replacement and maintenance)

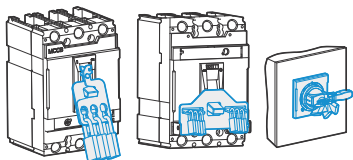
- Standard Plug-in base
- Plug-in base for 2 line arrangement



### Direct & Extended Rotary Handle

There are two types of rotary handles.

- Direct rotary handle (with or W/O key lock device)
- Extended rotary handle



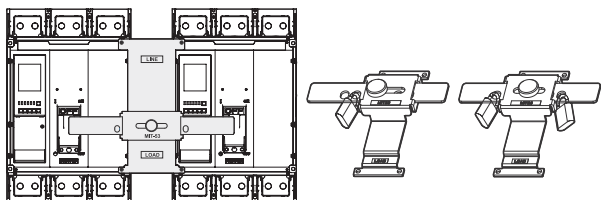
### Locking Device

- Fixed padlock
- Removable padlock
- Key lock device on direct handle



### Motor Operator

Motor operators enable the circuit-breaker to be switched ON and OFF locally or by remote control.



### Mechanical Interlocking Device

Interlocks prevent connection to both sources at the same time, even momentarily.

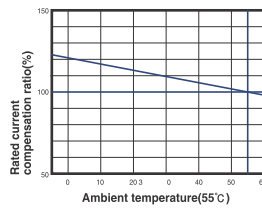
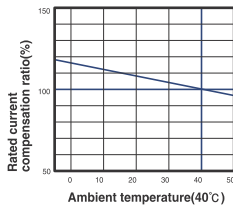
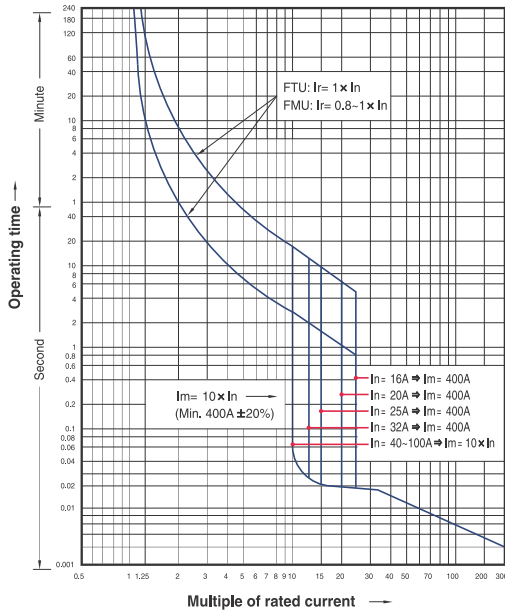
# WiNbreak2 MCCB

- High Breaking capacity >>  $I_{cs}=100\% I_{cu}$
- Fast operating >> Low let through energy
- Advanced  $\mu P$  protection >> Communication compatible
- Common Electrical Accessories

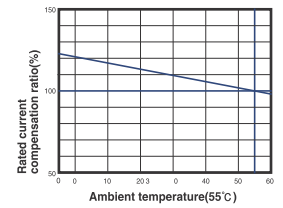
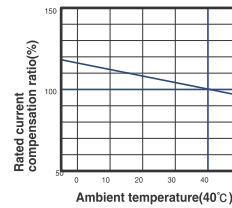
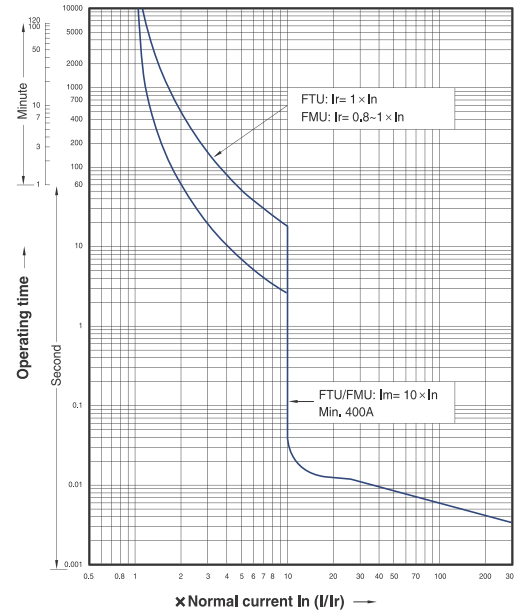
# Characteristics Curves

Circuit breakers with thermal-magnetic trip units

**CD100**  
FTU  
FMU  
16~100A

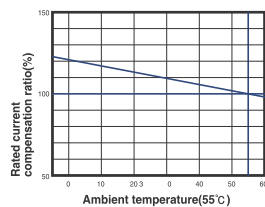
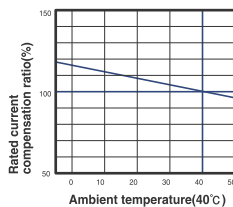
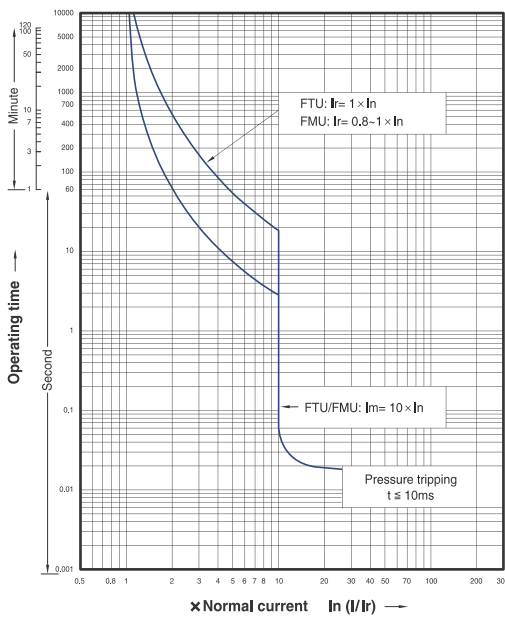


**CD160**  
FTU  
FMU  
16~160A



Circuit breakers with thermal-magnetic trip units

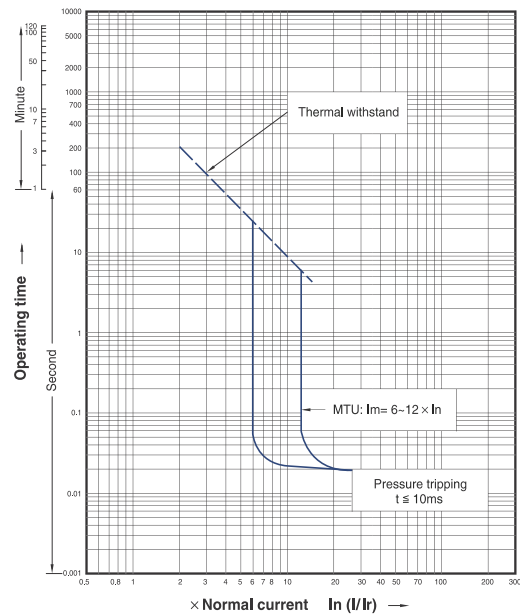
**CS100**  
FTU  
FMU  
40~100A



Circuit breakers with magnetic only trip units

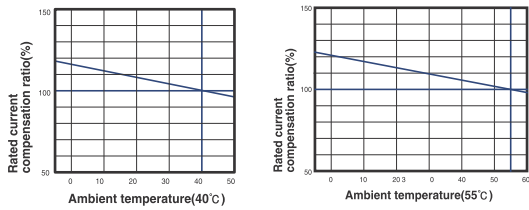
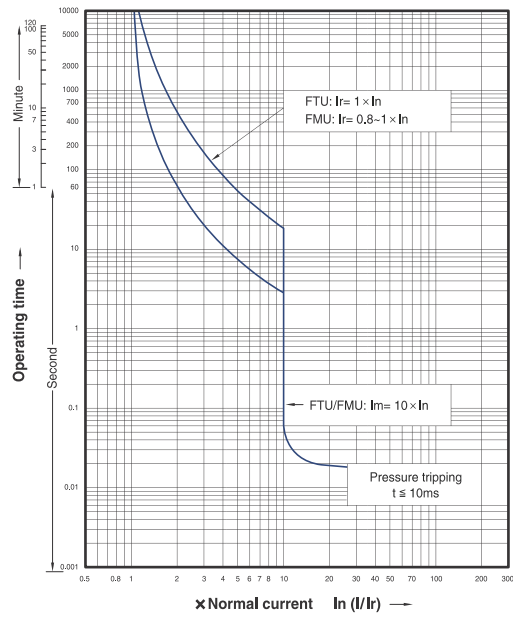
**CS100**  
Magnetic only  
MTU  
1.6~100A

**CS160**  
Magnetic only  
MTU  
32~160A

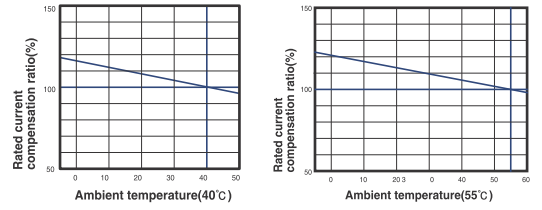
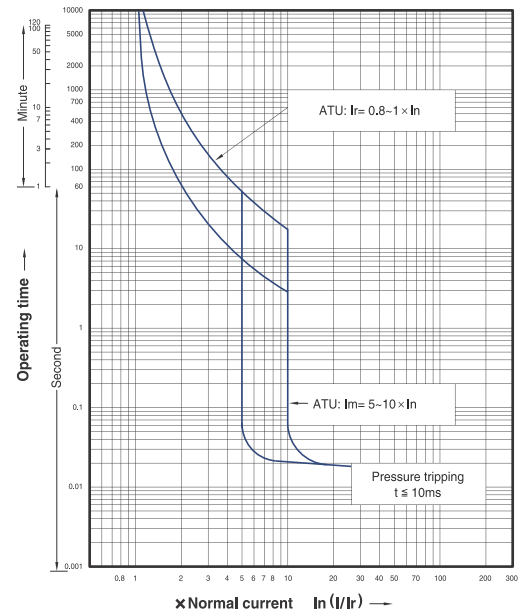


Circuit breakers with thermal-magnetic trip units

**CS160**  
 FTU  
 FMU  
 100, 125, 160A

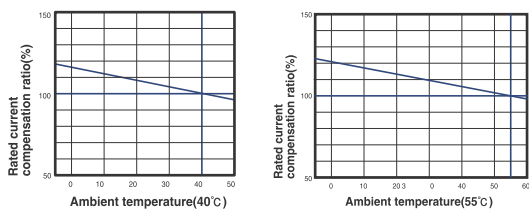
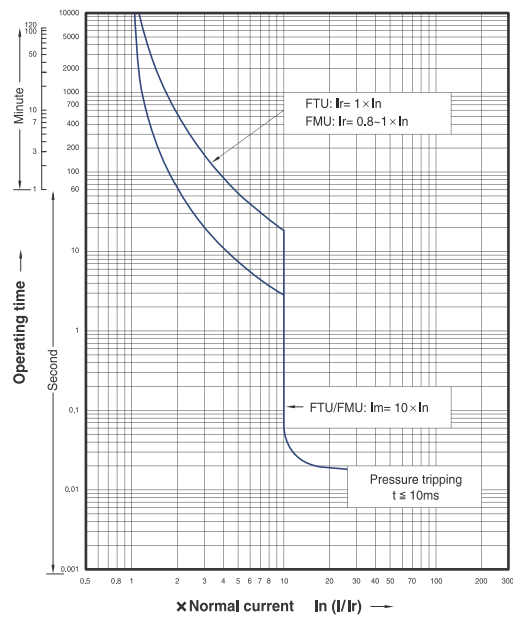


**CS160**  
 ATU  
 100, 125, 160A

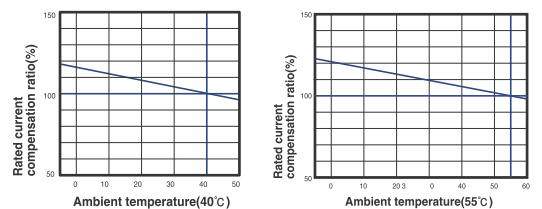
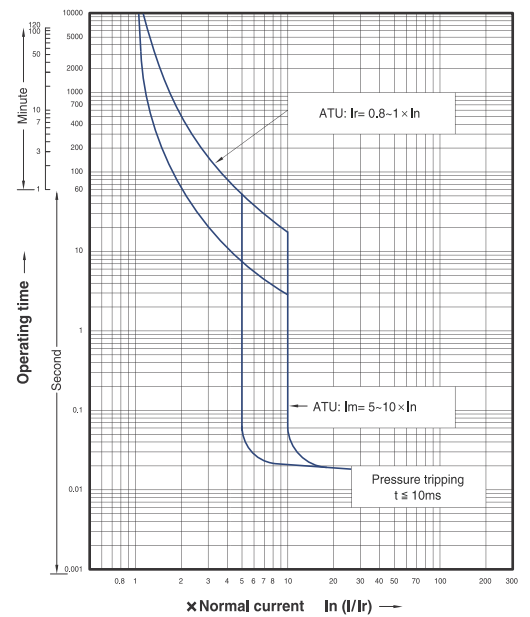


Circuit breakers with thermal-magnetic trip units

**CS250**  
 FTU  
 FMU  
 125~250A



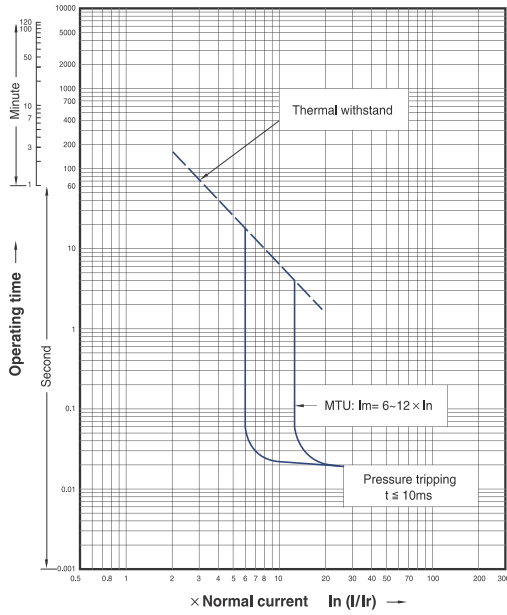
**CS250**  
 ATU  
 125~250A



# Characteristics Curves

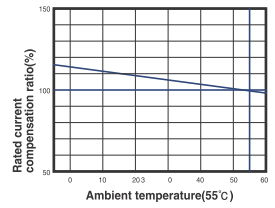
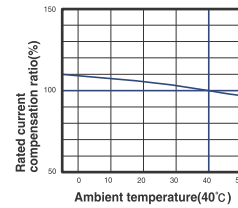
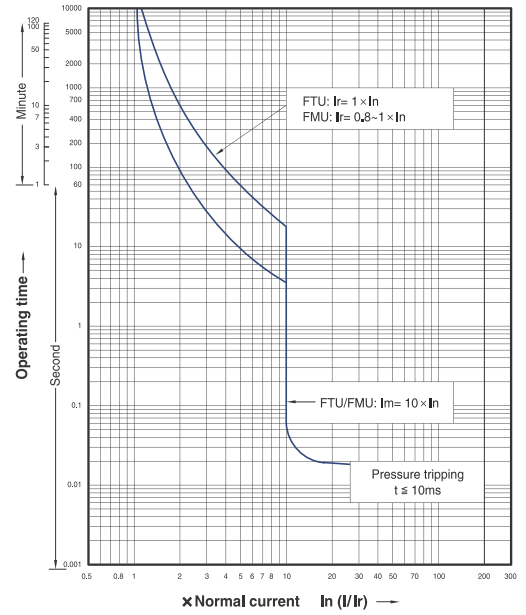
Circuit breakers with magnetic only trip units

**CS250**  
Magnetic only  
MTU  
100, 160, 220A



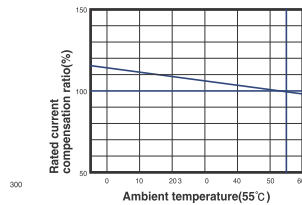
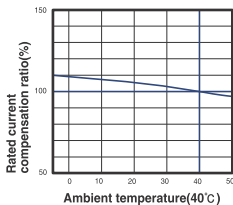
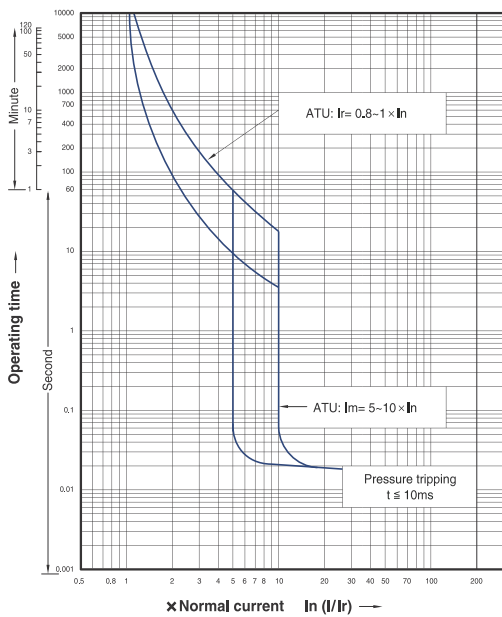
Circuit breakers with thermal-magnetic trip units

**CS400**  
FTU  
FMU  
300, 400A



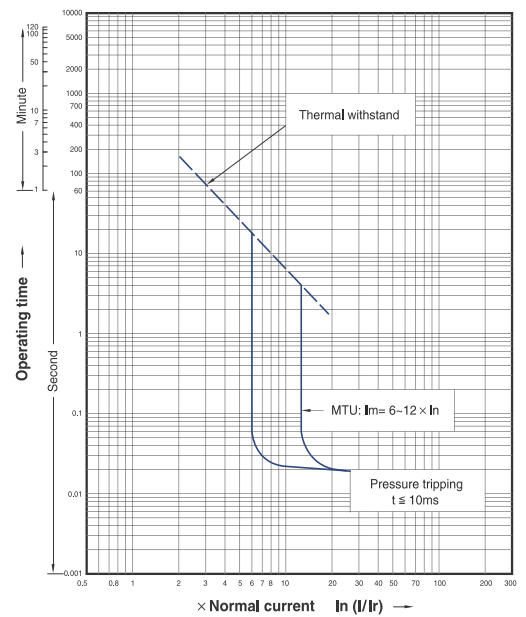
Circuit breakers with thermal-magnetic trip units

**CS400**  
ATU  
300, 400A



Circuit breakers with magnetic only trip units

**CS400**  
MTU  
320A

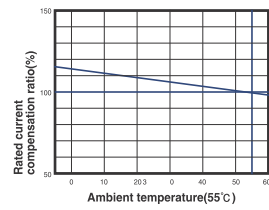
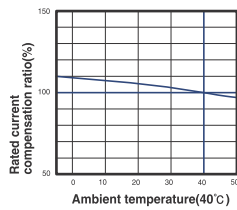
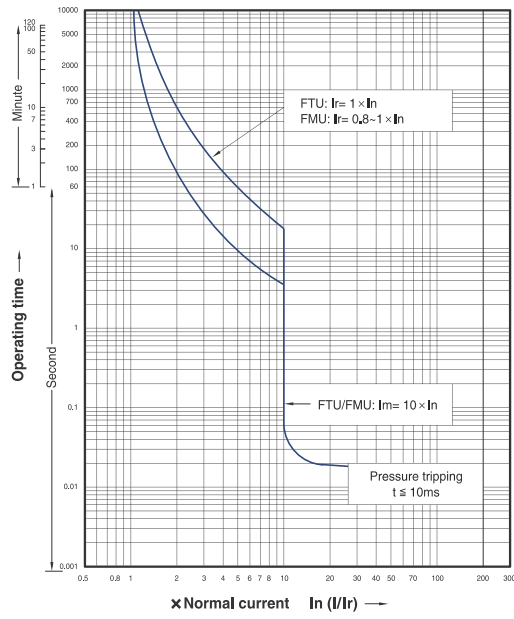




Circuit breakers with thermal-magnetic trip units

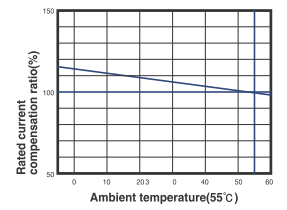
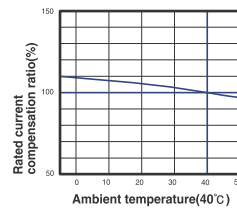
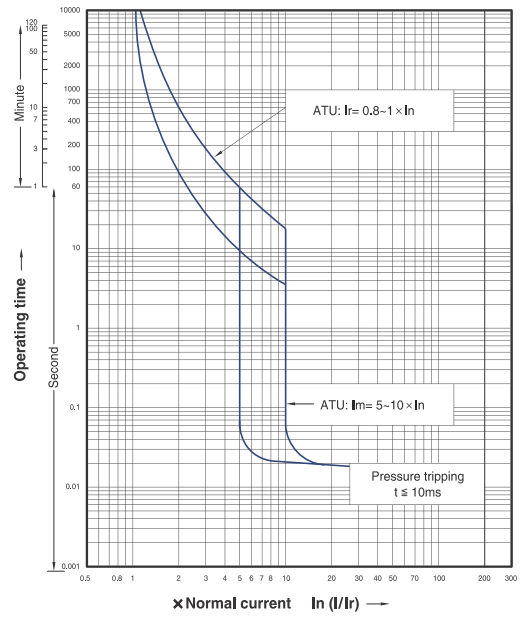
**CS630**

FTU  
FMU  
500, 630A



**CS630**

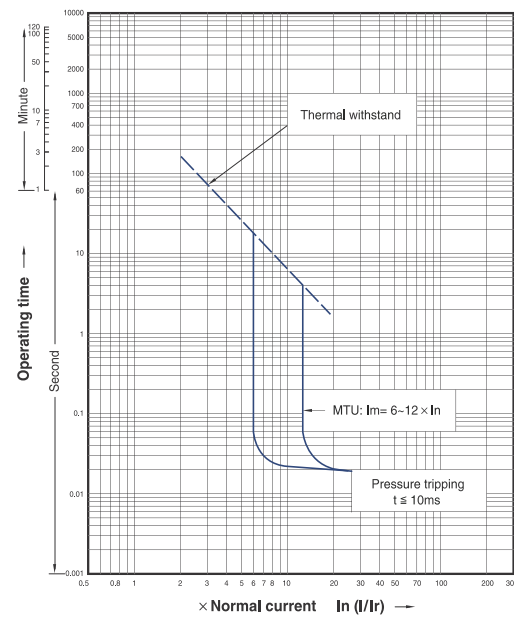
ATU  
500, 630A



Circuit breakers with magnetic only trip units

**CS630**

MTU  
500A

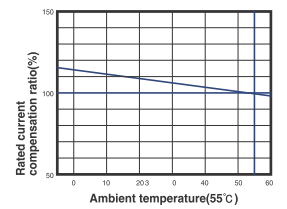
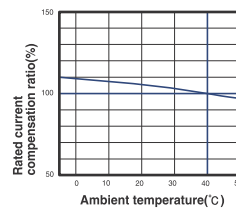
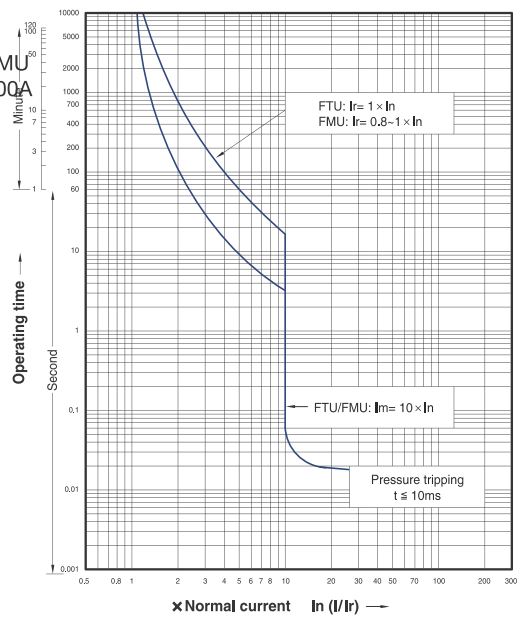


Circuit breakers with thermal-magnetic trip units

**CS800**

FTU  
700, 800A

FMU  
800A

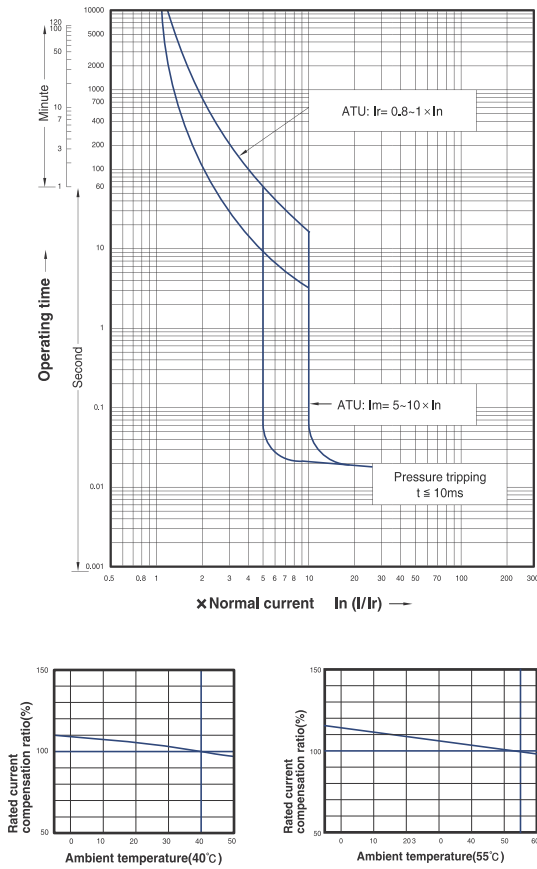


# Characteristics Curves

Circuit breakers with thermal-magnetic trip units

**CS800**

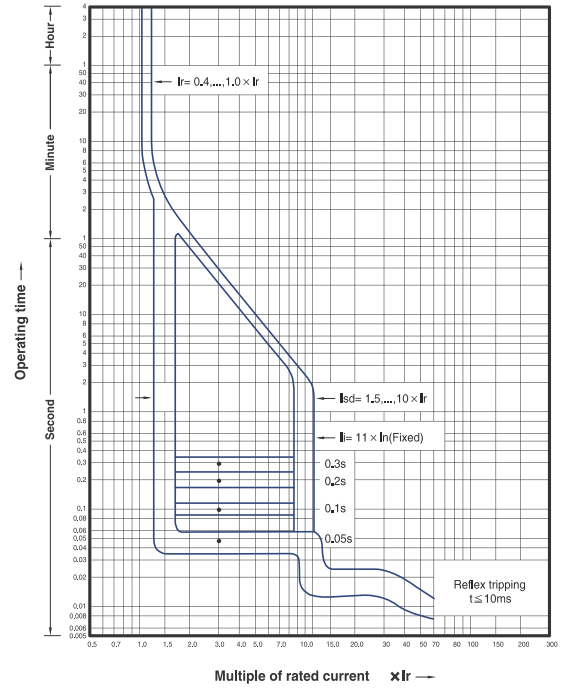
ATU  
800A



Circuit breakers with electroni trip unit (ETS)

**CS100 to CS800**

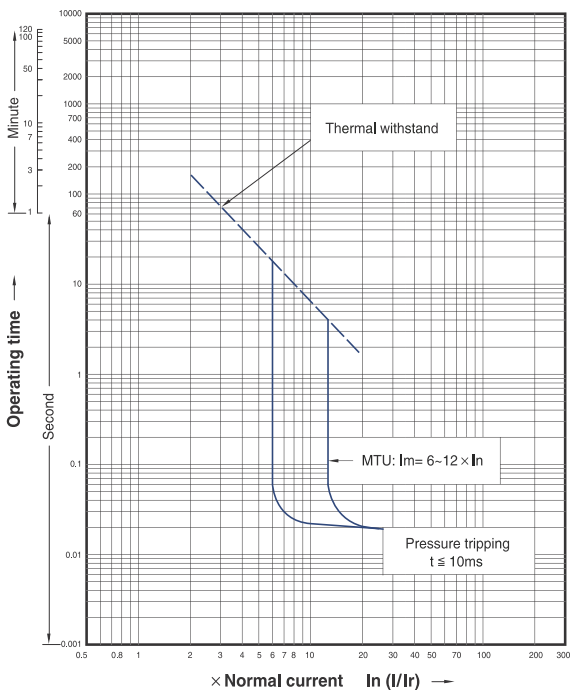
ETS23  
ETS33  
ETS43



Circuit breakers with magnetic only trip units

**CS800**

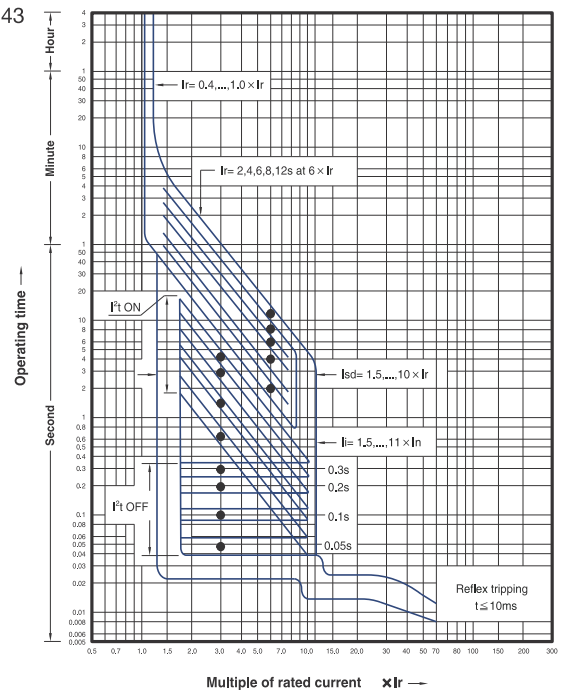
MTU  
630A



Circuit breakers with electroni trip unit (ETM)

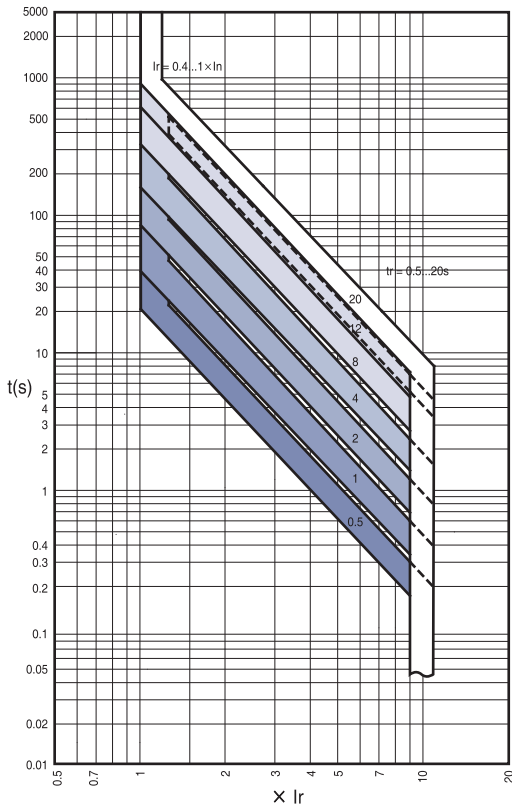
**CS400  
CS630  
CS800**

ETM33  
ETM43



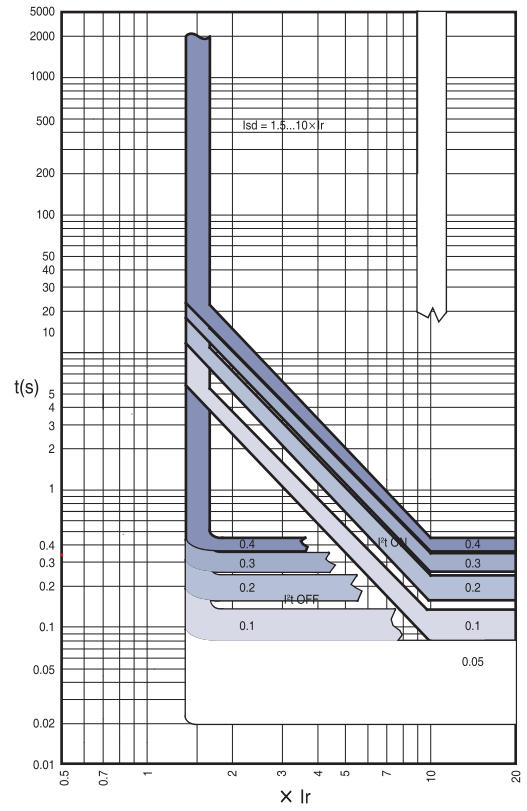
**Long-time delay (L)**

CS1600



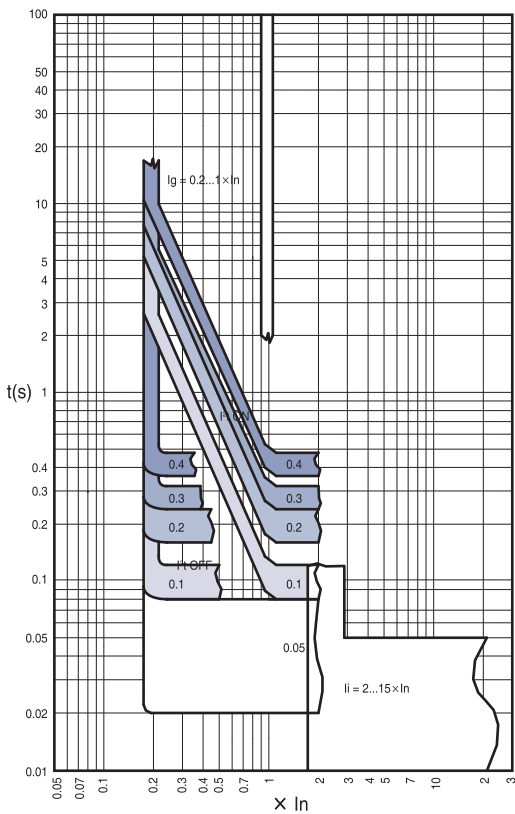
**Short-time delay (S)**

CS1600



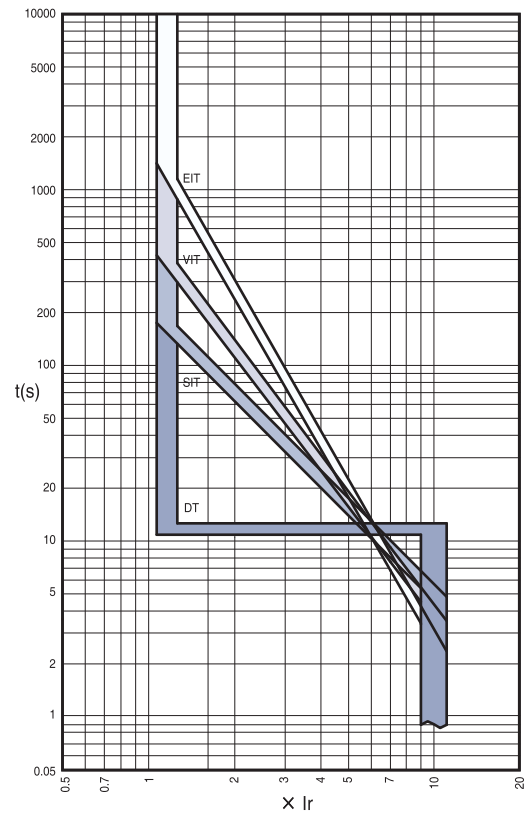
**Instantaneous (I) Ground Fault (G)**

CS1600



**IDMTL**

CS1600



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