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Khasra No. 915 & 916, 2nd Floor, Near Rice Mill, Village Rithala, Delhi-85 Ph.: (+91 11) 27049211

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3rd Floor, E-143, Phase-I, Transport Nagar, Kanpur Road, Lucknow - 17 Ph.: (+91 522) 4103460

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113, Chetla Road, New Alipur, Kolkata - 700 053, Ph.: (+91 33) 22275849 - 51

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Plot No. 145/C, Mandir Marg-D, Road No. 4, Ashok Nagar, Distt. Ranchi, Jharkhand - 834002 Ph.: (91 651) 2242202, 2242224

BHUBANESWAR Rasharaj Geetikonj, Plot No. 224/A, Sec-A, Zone-B, Mancheswar Industrial Estate, Bhubaneswar-751 010 Ph.: (+91 674) 2580788

MUMBAI

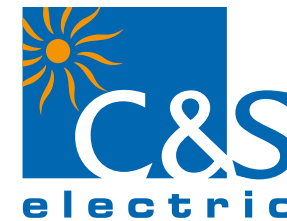
E-5, Parasnath Complex. Gala No.8, Village 'VAL' Dapode Road, Taluka Bhiwandi, District, Thane - 421302 Ph.: (+91 2522) 314830

AHMEDABAD

B-25-B/C Meldi Industrial Estate, Opp. West Coast Pharmaceutical, Nr. Gota Over Bridge, Gota, Ahmedabad - 382481 Ph.: (+91 79) 65453044

BENGALURU

No. 17, 1st Main Road, Sampangirama Nagar, Bengaluru - 560 027 Ph.: (+91 80) 41125467



WiNbreak-1 Frame 'S'

Molded Case Circuit Breaker

Adjustable Trip Class

- Rated Operational Voltage up to 690V AC
- Thermal Adjustable 0.8~1.0I_r
- Push To Trip Button
- Available with/without enclosure



We touch your electricity everyday!

FRAME-S

CSESMX

800V Uimp6kV

Ue (V)	Icu
220/240	~ 30kA
380/415	~ 25kA
440/460	~ 15kA
480/500	~ 10kA
660/690	~ 4kA
250	= 15kA

Ics = 75% Icu

50/60Hz

IS/IEC 60947-2 Cat.A

C&S Electric Ltd.(India)

Rated Operational Voltage

Breaking Capacity

Ics Rating

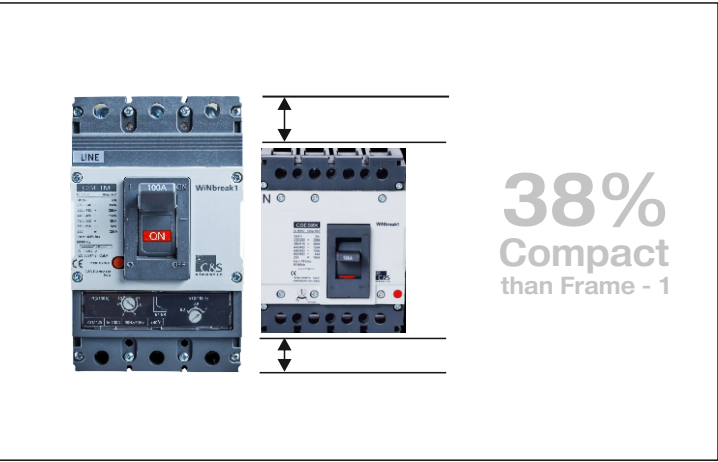
Rated Frequency

Isolation Symbol

Adjustable Thermal Settings

Featured with Box Clamps for unprepared cables.

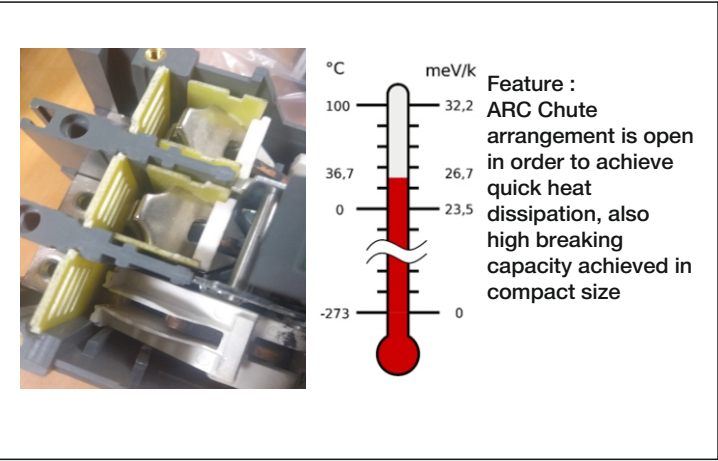
1. Compact in Size



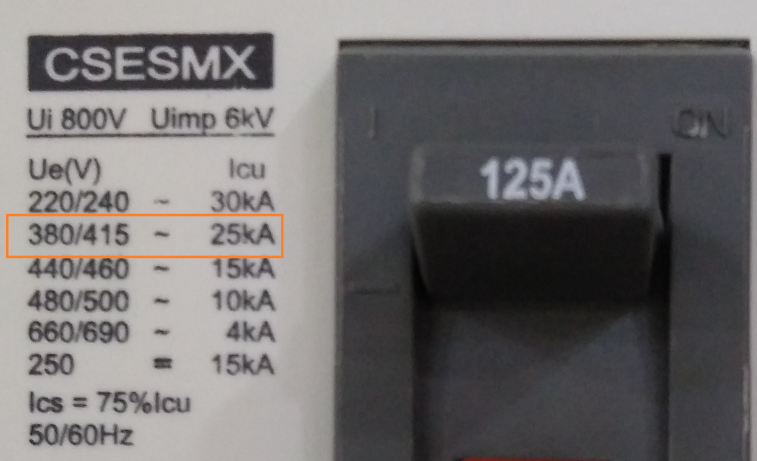
2. Adjustable Overload Settings
Fine Settings possible to achieve close protection



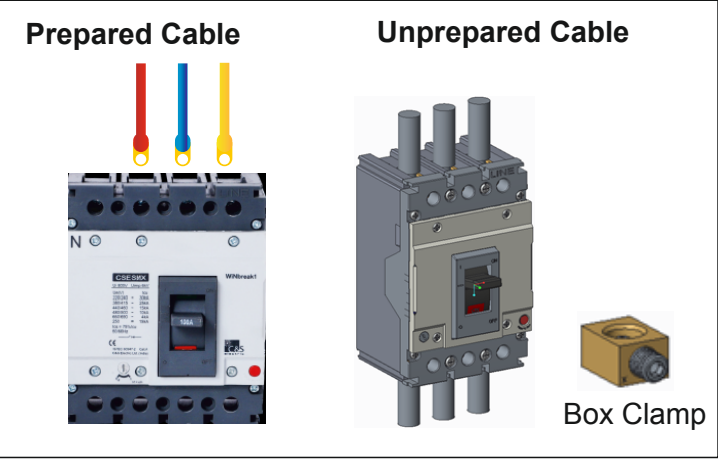
2. Fast Tripping - Powered by feature of direct heating as low as 40s



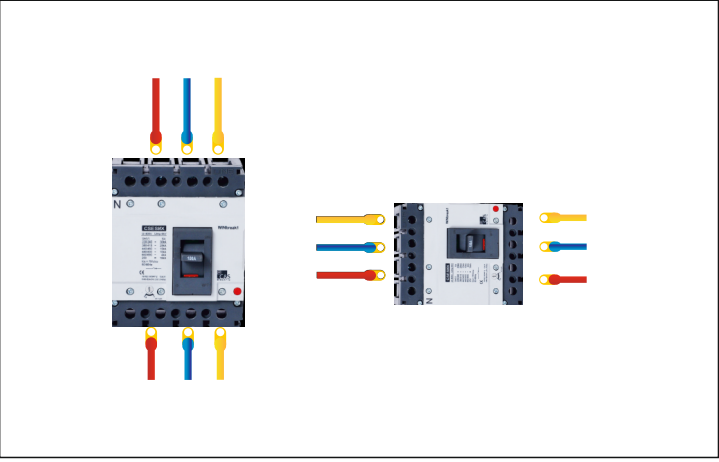
3. High Breaking Capacity upto 25kA



4. Option to Connect



5. Flexibility for installation No Derating for horizontal / Vertical





Aux Switch



Alarm Switch



IEC & CE MARKING



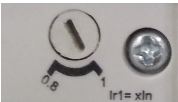
CB CERTIFICATION



Shunt



Push To Trip Button

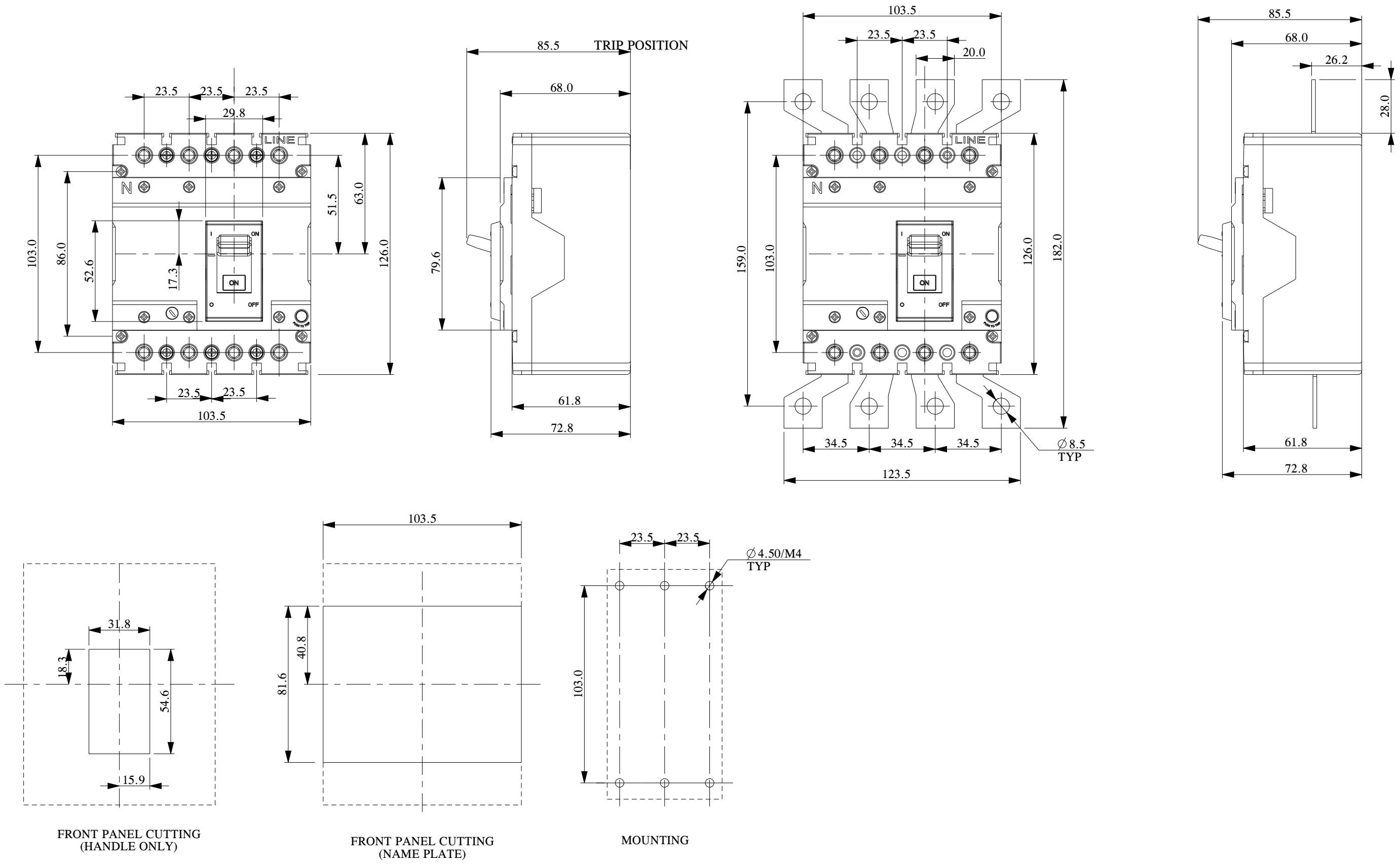


Thermal Adjustable Settings

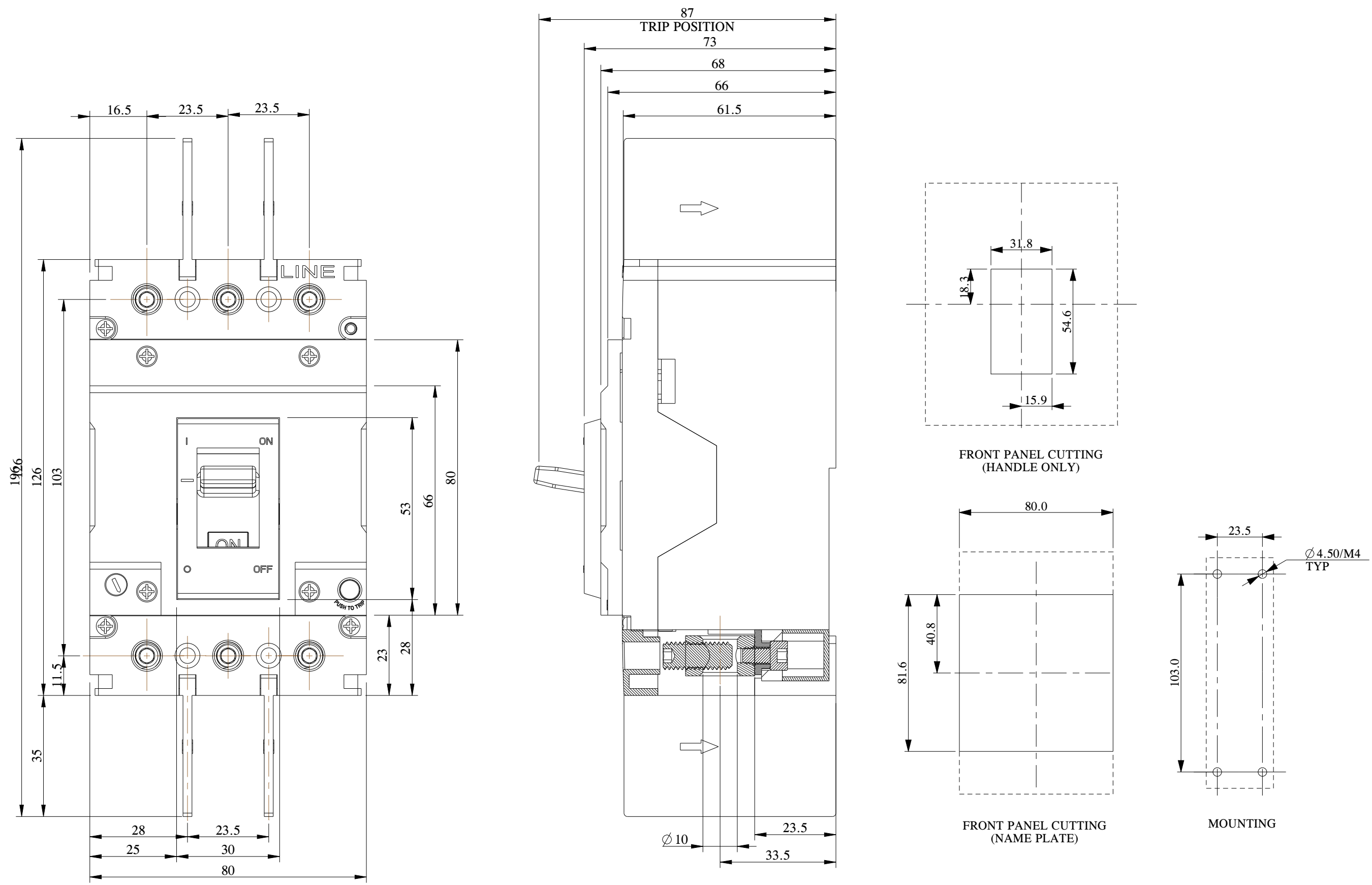
WiNbreak-1
Molded Case Circuit Breaker

Family Name			CSESK, CSESL, CSES MX		
Frame size		[AF]	125AF		
Rated current, @ 400C In		[A]	16, 20, 25, 32, 40, 50, 63, 80, 100 & 125		
No. of Poles			3P, 4P		
Rated operational voltage, Ue AC (MAX)		[V]	690		
Rated impulse withstand voltage, Uimp		[kV]	6		
Rated insulation voltage, Ui		[V]	800		
Operational frequency (Hz)			50 / 60		
Reference Temperature			45°C		
Operating Temperature			-5°C to + 45°C		
Storage Temperature			-35°C to + 70°C		
Line- Load Bias			Yes		
Standard			IS/IEC 60947-2		
Rated ultimate short Circuit breaking capacity, Icu			CSESK	CSESL	CSES MX
AC 50/60Hz	220/240V	[kA]	15	25	30
	380/415V	[kA]	10	18	25
	440/460V	[kA]	7.5	12	15
	480/500V	[kA]	6	8	10
	600/690V	[kA]	4	4	4
DC (3 Pole in series)	250V	[kA]	7.5	12	15
Rated service breaking capacity, Ics (% Icu)			100%	100%	75%
Type of Release			Thermal-Magnetic		
Thermal			Variable 0.8 to 1.0		
Magnetic			As per TCC		
Mechanical life [operation]			15000 Nos.		
Electrical life [operation]			3000 Nos.		
Pollution Degree			3		
IP Protection			IP20		
Terminal Capacity (without spreaders)			35 mm2 with Cu Lugs		
Cable with Lug (mm2)			50 mm2 with Cu Lugs		
Total Opening Time			< 12 ms		
Suitable for Isolation			Yes		
Basic dimension,	WxHxD (mm)	3-Pole	80 x 126 x 68		
Basic dimension,	WxHxD (mm)	4-Pole	103.5 x 126 x 68		
Weight (Kg) Net Weight		3-Pole	~0.8		
Weight (Kg) Net Weight		4-Pole	~1.1		
Neutral position			N-R-Y-B / R-Y-B-N		
4 pole with protection			YES		
Watt Loss (3W/Pole)			Max. 15W		
Internal Accessories					
Auxiliary Contact - 1 C/O			Available in Left Pocket Only.		
Shunt Release (240V AC)			Available in Right Pocket Only		
External Accessories					
Rotary Operating Mechanism			YES		
Spreader Terminals (Brass)			YES		
Box Clamp			Available		
Enclosure (DB_Style)			Available		

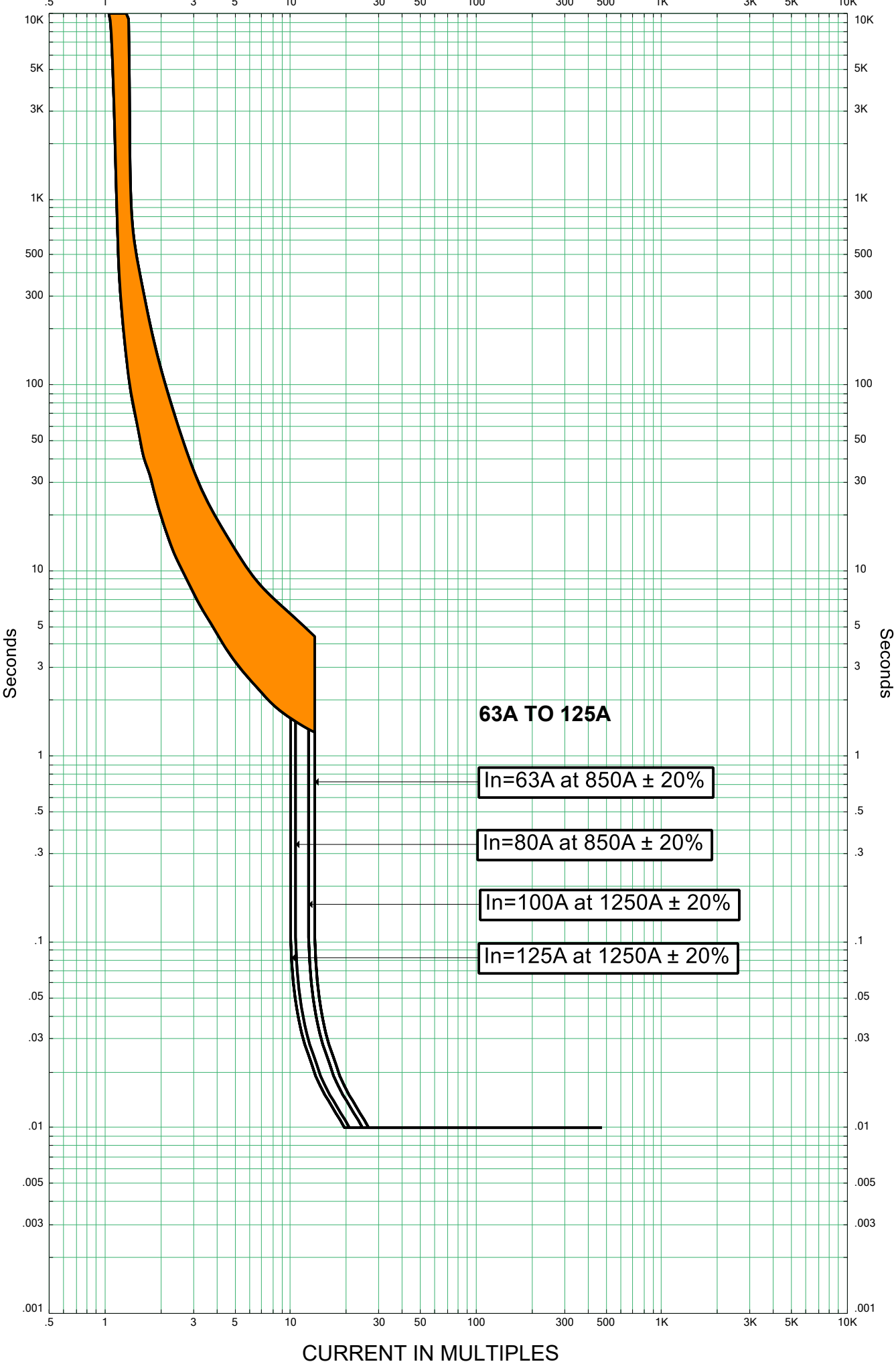
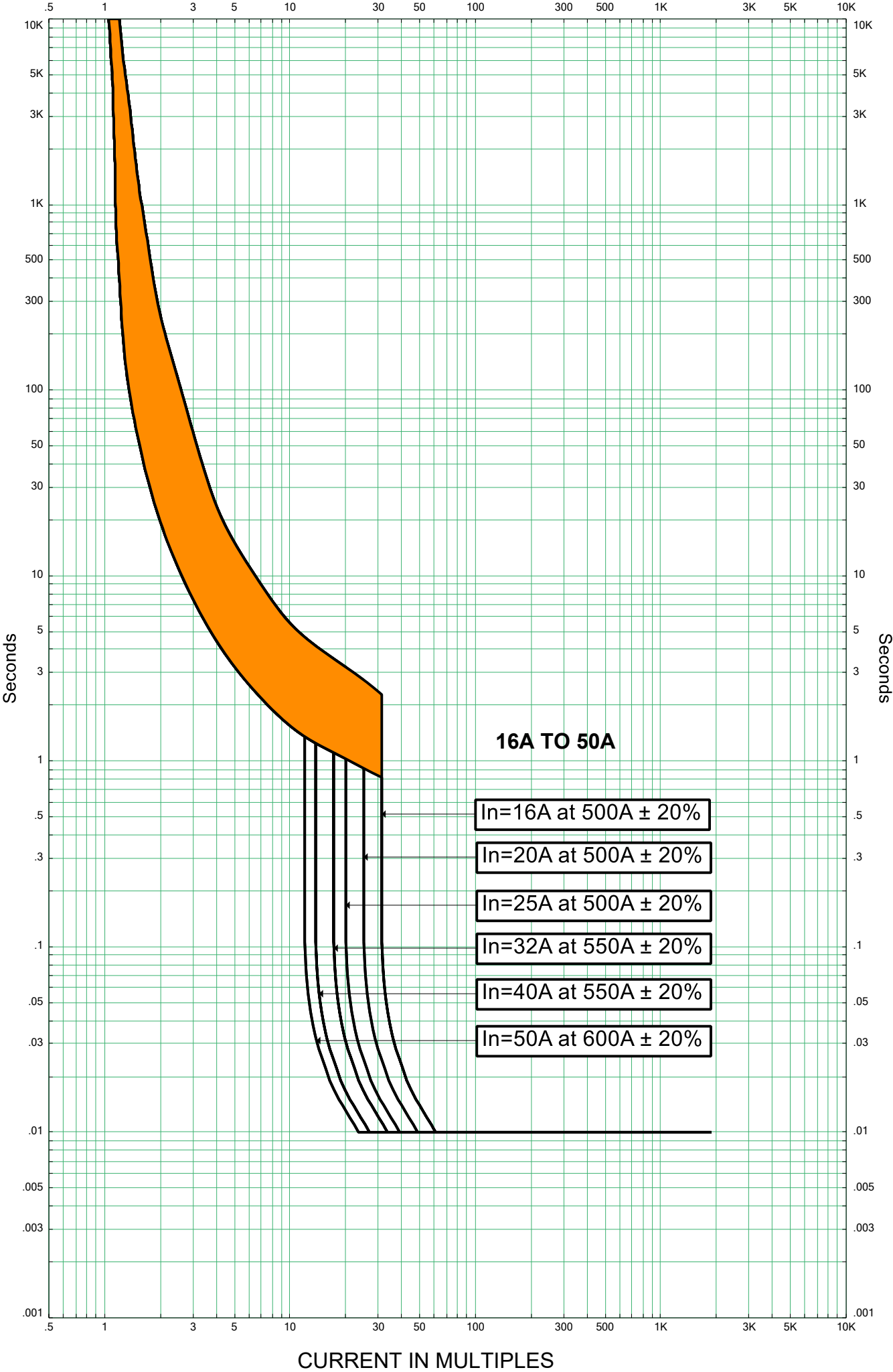
OVERALL DIMENSIONAL DRAWING-4P



OVERALL DIMENSIONAL DRAWING WITH CLAMP BOX-3P



CHARACTERISTICS CURVE





IEC 60947-1, EN 60947-1, IS/IEC 60947-1
Low-voltage switchgear and controlgear, Part 1: General Rules

IEC 60947-2, EN 60947-2, IS/IEC 60947-2
Low-voltage switchgear and controlgear , Part 2: Circuit-breakers

Third party certificates (ERDA/CPRI) available for all Winbreak-1 range of MCCBs

CE marking

A CE marking is a European marking of conformity that indicates a product complies with the essential requirements of the applicable European laws or directives with respect to safety, health and environment and consumer protection. Generally, this conformity to the applicable directives is done through self-declaration and is required on products in the countries of the European Economic Area (EEA) to facilitate trade among the member countries. The manufacturer or their authorized representative established in the EEA is responsible for affixing the CE marking to their product. The CE marking provides a means for a manufacturer to demonstrate that a product complies with a common set of laws required by all countries in the EEA to allow free movement of trade within the EEA countries.

Winbreak-1 range of MCCBs conform to the Low voltage directive 2014/35/EU and adirective 2011/65/EU for Restitricion of hazrdous substances(RoHS)



IECEE CB SCHEME- Intertek Sweden certified

The IECEE CB SCHEME is a multilateral agreement among participating countries and certification organizations. A manufacturer utilizing a CB test certificate issued by one of the accepted National Certification Bodies (NCBs) can obtain certification marks of the latter, within their scope of adherence, in the countries where the accepted NCBs are located. MCCBs are qualified for Icu,Ics & annexure H requirments.

Breaking Capacity-Icu=25kA,Ics=75%Icu
Ampere Rating: 20A to 125A

