

DATA SHEET: TEMBREAK 2 S250-GE MCCB

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MCCB Electrical Characteristics to IEC 60947-2, EN 60947-2, JIS C 8201-2-1 ANN.1, AS/NZS 3947-2, NEMA AB-1

Frame Reference	Quantity	Unit	Condition	TB2 S/H/L 250
Max In (A) of Frame				250
Model				S250
Number of Poles				3,4
Type				GE
Nominal current ratings				
	I_n	(A)	50°C	40 125 160 250
Electrical characteristics				
Rated operational voltage	U_e	(A)	AC 50/60 Hz DC	690 -
Rated insulation voltage	U_i	(V)		800
Rated impulse withstand voltage	U_{imp}	(kV)		8
Ultimate breaking capacity (IEC, JIS, AS/NZS)	I_{cu}	(kA)	690V AC 525V AC 440V AC 400/415V AC 220/240V AC 250V DC	7.5 25 50 65 85 -
Service breaking capacity (IEC, JIS, AS/NZS)	I_{cs}	(kA)	690V AC 525V AC 440V AC 400/415V AC 220/240V AC 250V DC	7.5 25 25 36 85 -
Rated breaking capacity (NEMA)		(kA)	480V AC 240V AC	25 65
Protection				
Adjustable thermal, adjustable magnetic Fixed thermal, fixed magnetic Microprocessor Utilisation category				■ A
Installation				
Front connection (FC) Extension bar (FB) Cable clamp (FW) Rear connector (RC) Plug-in (PM) Din rail mounting (DA) Dimensions	height width	(mm) (mm)	3 pole, (1 pole) 4 pole	■ ● ● ● ● ● * * -
Weight	depth weight	(mm) (kg)	3 pole, (1 pole) 4 pole	165 105 140 103 2.3 3.1
Operation				
Direct Opening Action Toggle operation Door mounted (HS) / breaker mounted handle (HB) Motor operation (MC)				■ ■ ● ●
Endurance	Electrical Mechanical	cycles cycles	415V AC	30,000 30,000

■ Standard ● Optional - Not Available

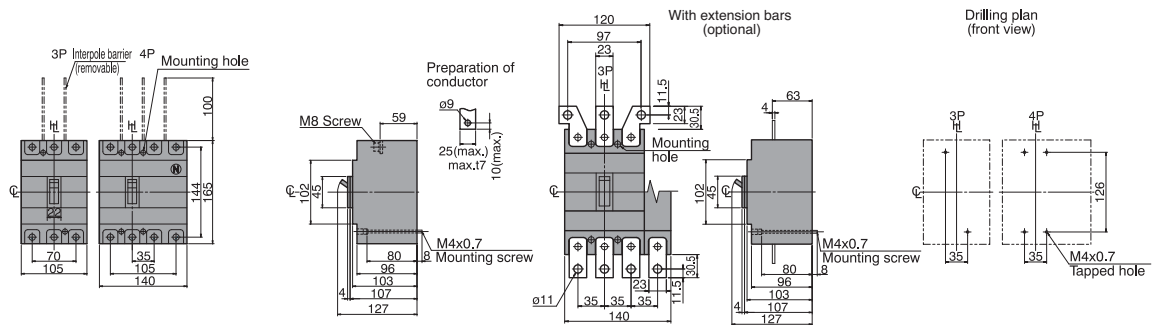
* * Max. rating 200A for Plug-in

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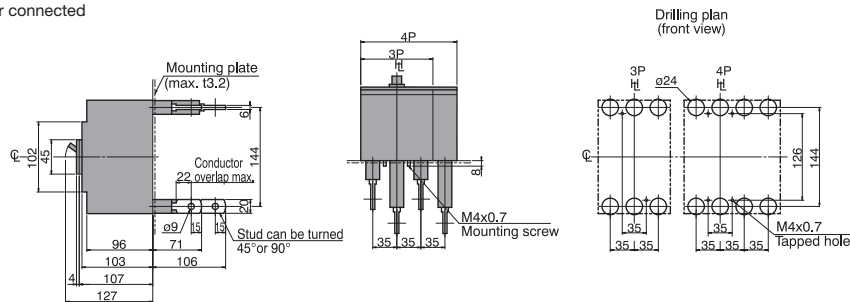
Outline Dimensions S250-GE

ASL: Arrangement Standard Line H_L: Handle Frame Centre Line

Front connected



Rear connected



Panel cutout (front view)

3P

4P

52.5

52.5

53.5

53.5

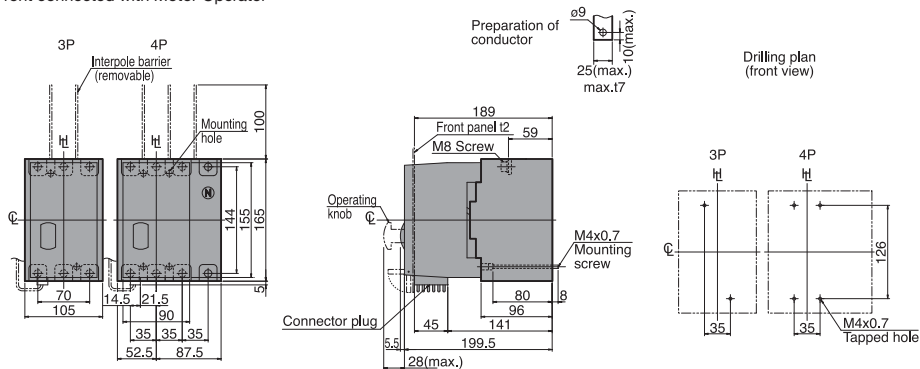
107

142

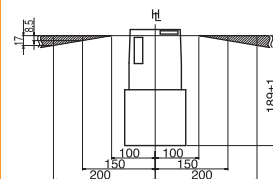
48

Panel cutout dimensions shown give an allowance of 1.0mm or more around the handle escutcheon.

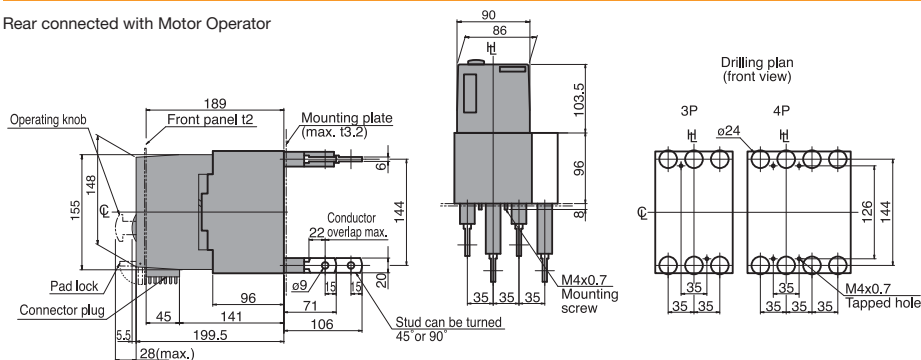
Front connected with Motor Operator



Panel hinge position (hatching area)
bottom view



Rear connected with Motor Operator



Panel cutout (front view)

Technical drawing showing the front view of a panel cutout. The drawing includes dimensions: 4P, 3P, H, 155, 45, and 90. A handle cutout is indicated by a dashed line and labeled 'H'. A center line is shown with the letter 'C'.

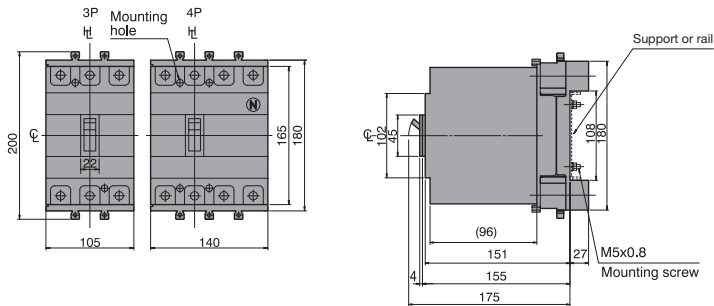
Panel cutout dimensions shown give an allowance of 1.5mm around the handle escutcheon.

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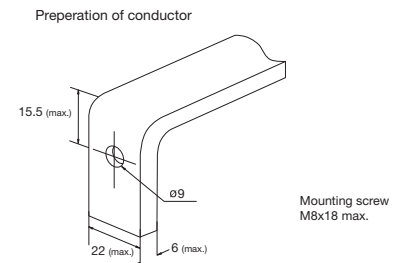
Outline Dimensions S250-GE Plug-in Version

ASL: Arrangement Standard Line H: Handle Frame Centre Line

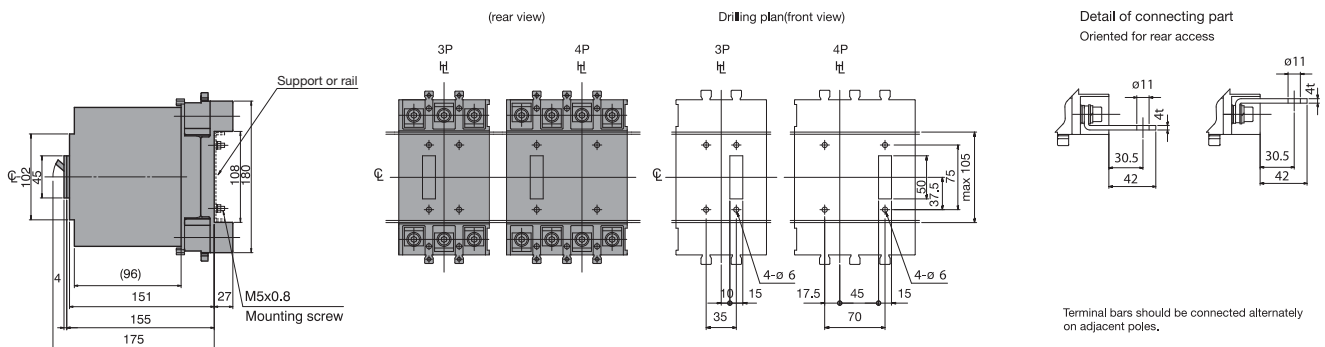
Outline Dimensions



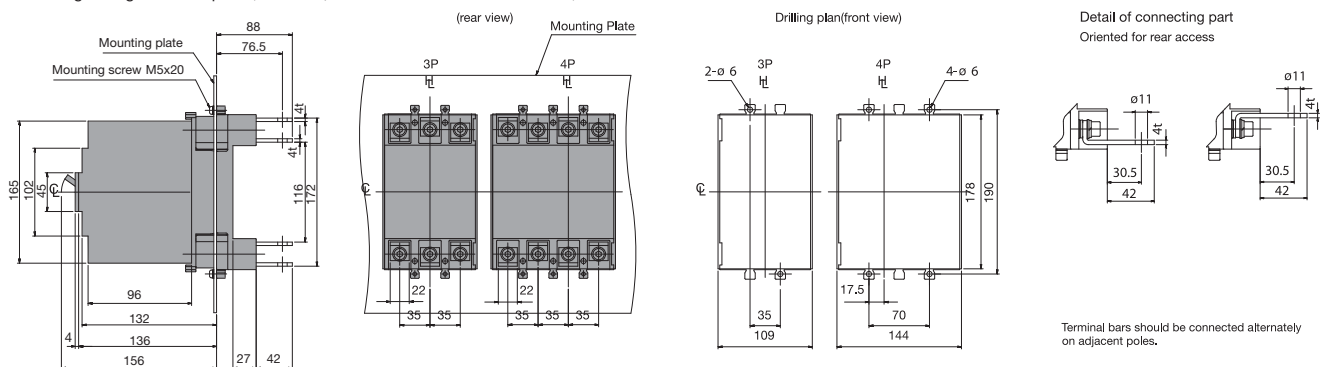
Termination of Busbar



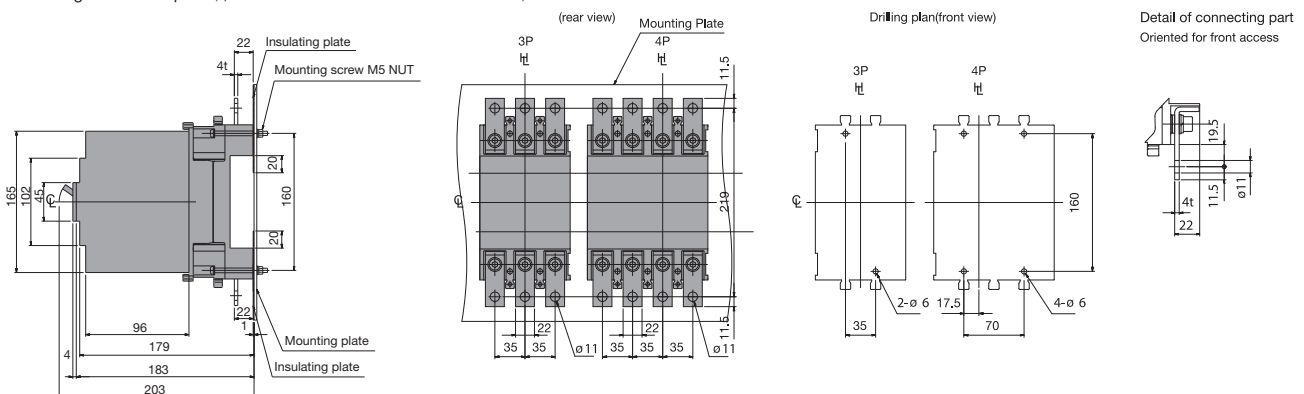
Mounting on a support or rails (shown with optional connection bars oriented for rear access)



Mounting through the backplate (shown with optional connection bars oriented for rear access)



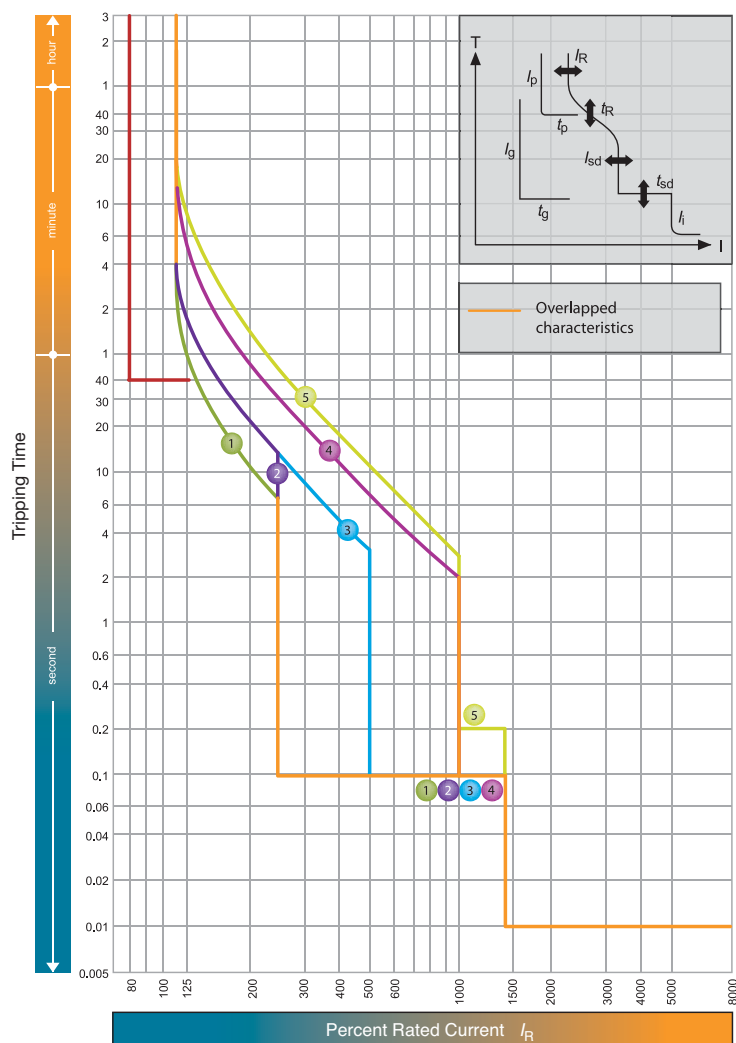
Mounting on the backplate (optional connection bars must be oriented for front access)



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Time/Current Characteristic Curves

S250-GE



$I_n = 250A; 160A; 125A; 40A$ Note(1)

		I_R (A)									
		LTD Pick-up current	I_R	x/n	0.4	0.5	0.63	0.8	0.9	0.95	1.0
		Characteristics		No.	1	2	3	4	5		
Standard	LT	t_R	(s)	11	21	21	5	7.5			
	ST	I_{sd}	x/I_R	at 200% x I_R				at 600% x I_R			
		t_{sd}	(s)	0.1				0.2			
		INST	I_i	x/I_R	14(Max: 13 x I_n) Note (2)						
Option	PTA	I_p	x/I_R	0.8							
		t_p	(s)	40							
	NP	I_N	x/I_R	1.0 Note (3)							
		t_N	(s)	$t_N = t_R$							

Note

(1) For Plug-in (PM), max. setting for I_R should be less than 225A. When $I_n=250A$, I_R should be $I_n \times 0.9$ or less.

(2) I_i max. = 13 x I_n . (3) Characteristic of neutral protection (t_N vs. I_N) is identical to characteristic of phase protection (t_R vs. I_R).