

## DATA SHEET: TEMBREAK 2 S400-GE MCCB

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

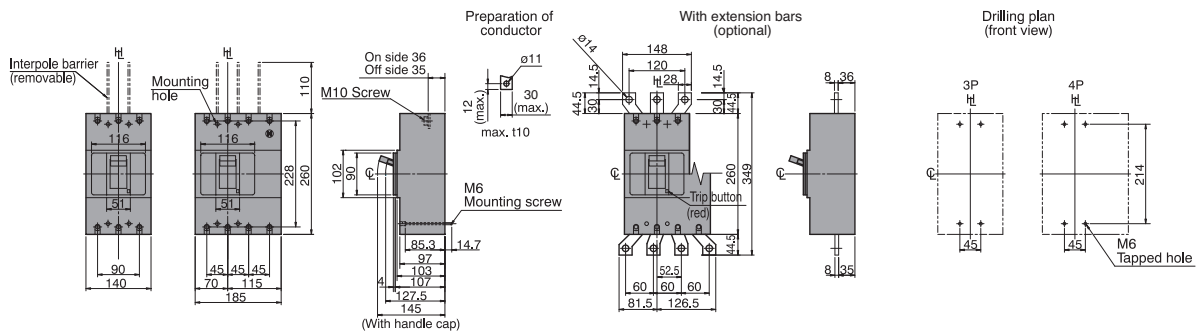
Frame Reference	Quantity	Unit	Condition	TB2 E/S 630
<b>Max In (A) of Frame</b>				<b>630</b>
Model				S400
Number of Poles				3, 4
Type				GE
<b>Nominal current ratings</b>				
	$I_n$	(A)	50°C	250 400
<b>Electrical characteristics</b>				
Rated operational voltage	$U_e$	(V)	AC 50/60 Hz DC	690 -
Rated 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	20 30 65 70 100 -
Service breaking capacity (IEC, JIS, AS/NZS)	$I_{cs}$	(kA)	690V AC 525V AC 440V AC 400/415V AC 220/240V AC 250V DC	15 30 50 50 85 -
Rated breaking capacity (NEMA)		(kA)	480V AC 240V AC	30 100
Rated short-time withstand current	$I_{cw}$	(kA)	0.3 Seconds	5
<b>Protection</b>				
Adjustable thermal, adjustable magnetic Fixed thermal, fixed magnetic Microprocessor Utilisation category				■ B
<b>Installation</b>				
Front connection (FC) Extension bar (FB) Cable clamp (FW) Rear connection (RC) Plug-in (PM) DIN rail mounting (DA) Dimensions	height width depth	(mm) (mm) (mm)	3 pole 4 pole	■ • • • • - 260 140 185
Weight	weight	(kg)	3 pole 4 pole	103 4.3 5.7
<b>Operation</b>				
Direct Opening Action Toggle operation Door mounted (HS) / Breaker mounted handle (HB) Motor operation (MC) Endurance	Electrical Mechanical	cycles cycles	415V AC	■ ■ • • 4,500 15,000

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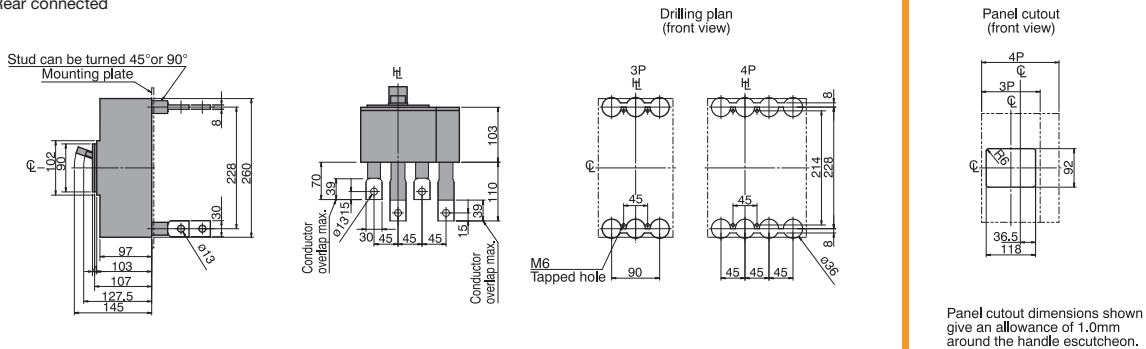
## Outline Dimensions S400-GE

ASL: Arrangement Standard Line  $\text{Ht}$ : Handle Frame Centre Line

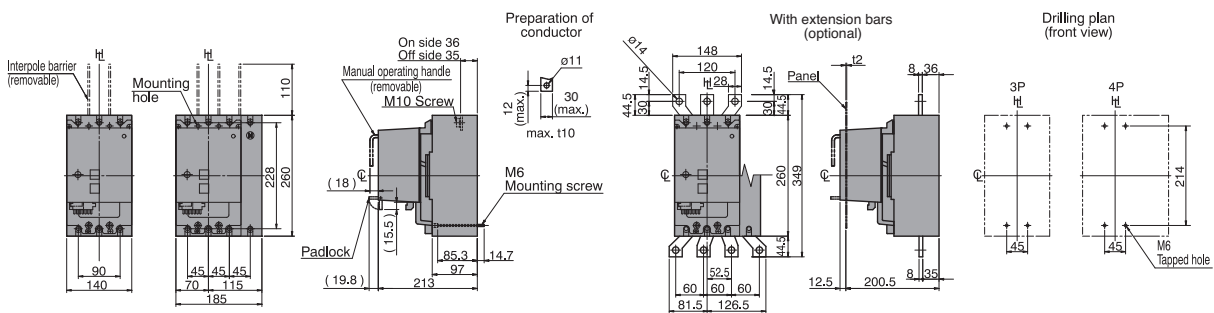
Front connected



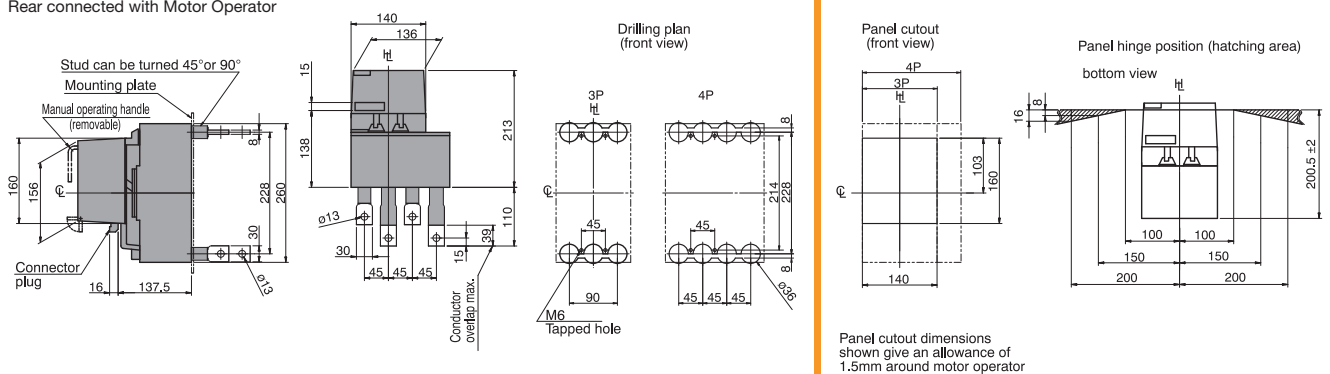
Rear connected



Front connected with Motor Operator



Rear connected with Motor Operator

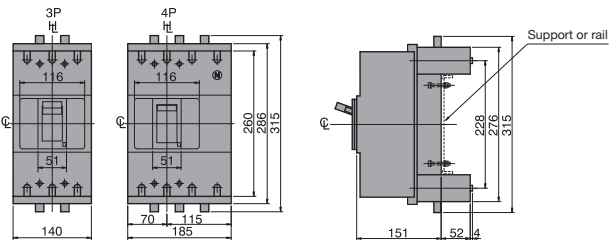


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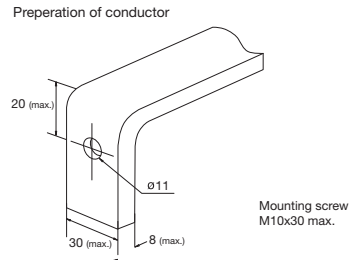
## Outline Dimensions S400-GE Plug-in Version

ASL: Arrangement Standard Line  $\overline{HL}$ : Handle Frame Centre Line

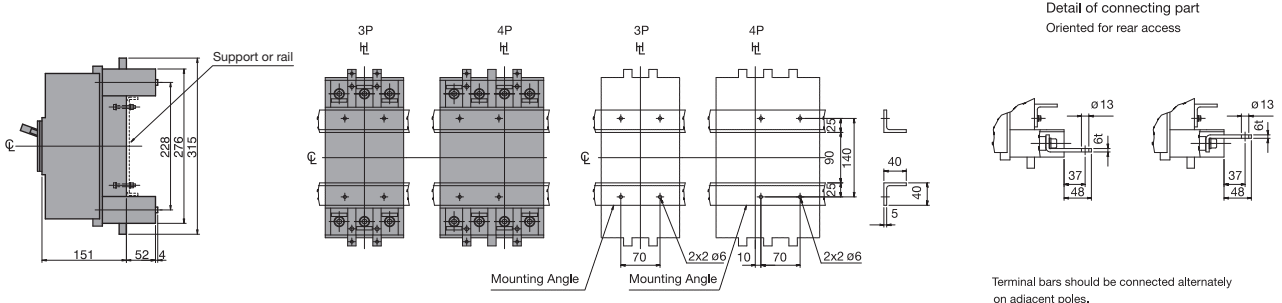
### Outline Dimensions



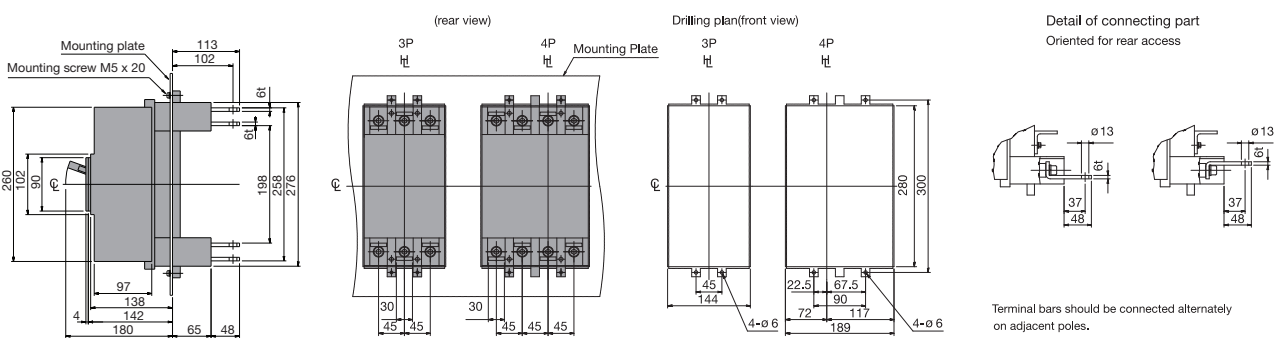
### Termination of Busbar



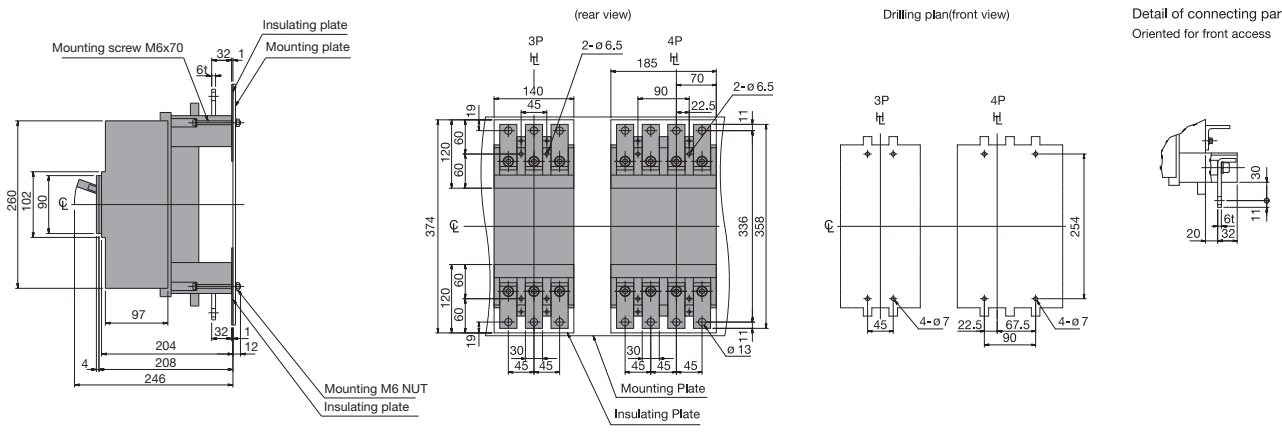
### Mounting on a support or rails (shown with optional connection bars oriented for rear access)



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



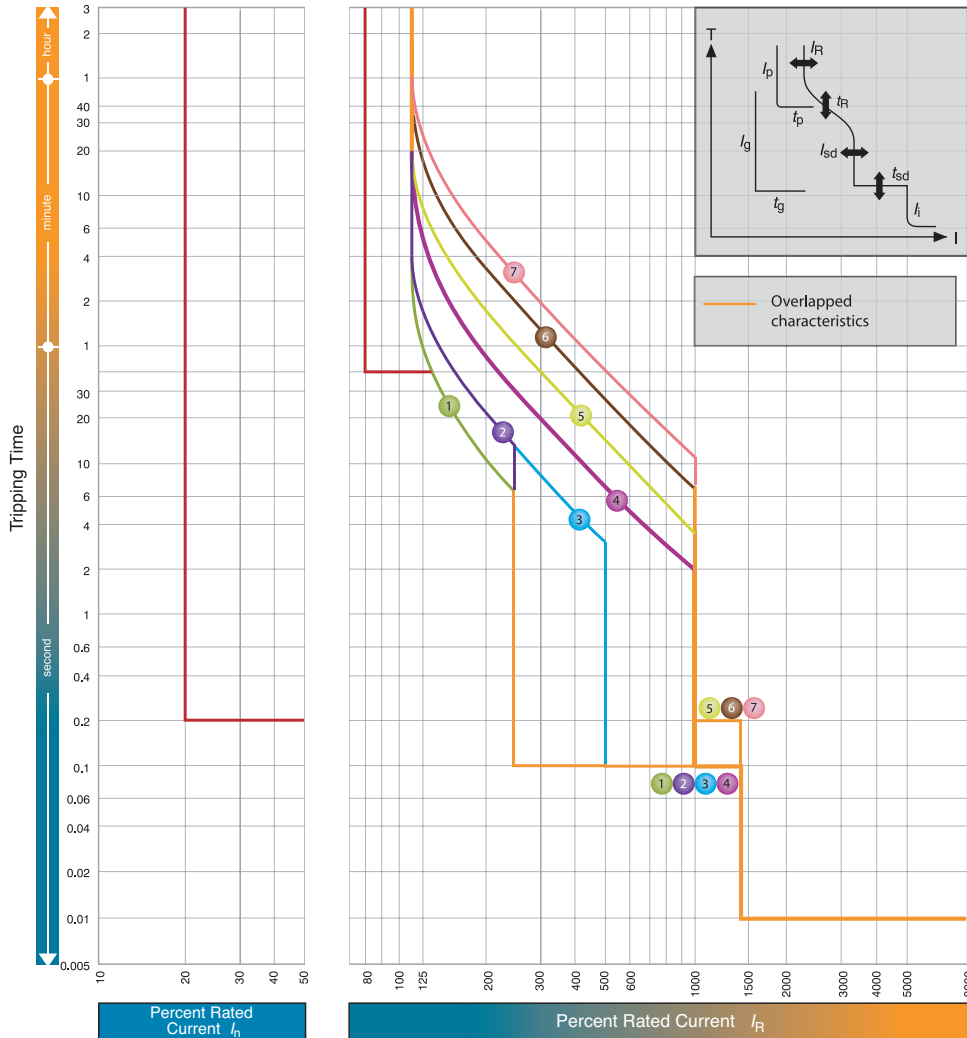
### Mounting on the backplate (optional connection bars must be oriented for front access)



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## Time/Current Characteristic Curves

### S400-GE



$I_n = 400A; 250A$  Note (1)

		$I_R$ (A)		LTD Pick-up current $I_R$ x $I_n$							
				0.4	0.5	0.63	0.8	0.9	0.95	1.0	
Standard	LT	$t_R$	(s)	11	21	21	5	10	19	29	
	ST	$I_{sd}$	x $I_R$	2.5			5		10		
		$t_{sd}$	(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							
	GF Note(4)	$I_g$	x $I_n$	0.2							
		$t_g$	(s)	0.2							
NP	$I_N$	x $I_R$	1.0/0.5 Note (3)								
	$t_N$	(s)	$t_N = t_R$								

**Note**

(1) GF is not available when  $I_n$  is 250A. (2)  $I_i$  max. = 13 x  $I_n$ . (3) 1.0 x  $I_R$  or 0.5 x  $I_R$  can be selected. Characteristic of neutral protection ( $t_N$  vs.  $I_N$ ) is identical to characteristic of phase protection ( $t_R$  vs.  $I_R$ ). (4) When you specify GF on MCCBs with 3 poles the terminal block is automatically fitted to connect with the external neutral CT for 3 phases 4 wires system. See terminal blocks in section 4.