

DATA SHEET: TEMBREAK 2 S400-NE 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
Max In (A) of Frame				630
Model				S400
Number of Poles				3, 4
Type				NE
Nominal current ratings				
	I_n	(A)	50°C	250 400
Electrical characteristics				
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 45 50 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	15 30 45 50 85 -
Rated breaking capacity (NEMA)		(kA)	480V AC 240V AC	25 85
Rated short-time withstand current	I_{cw}	(kA)	0.3 Seconds	5
Protection				
Adjustable thermal, adjustable magnetic Fixed thermal, fixed magnetic Microprocessor Utilisation category				■ B
Installation				
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	■ • • • • - 260 140 185 103
Weight	weight	(kg)	3 pole 4 pole	4.2 5.6
Operation				
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

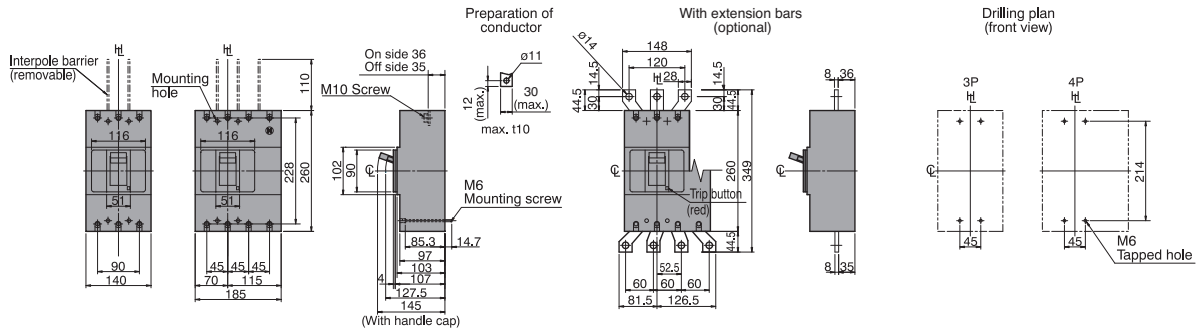
■ Standard • Optional - Not Available

DATA SHEET: TEMBREAK 2 S400-NE MCCB

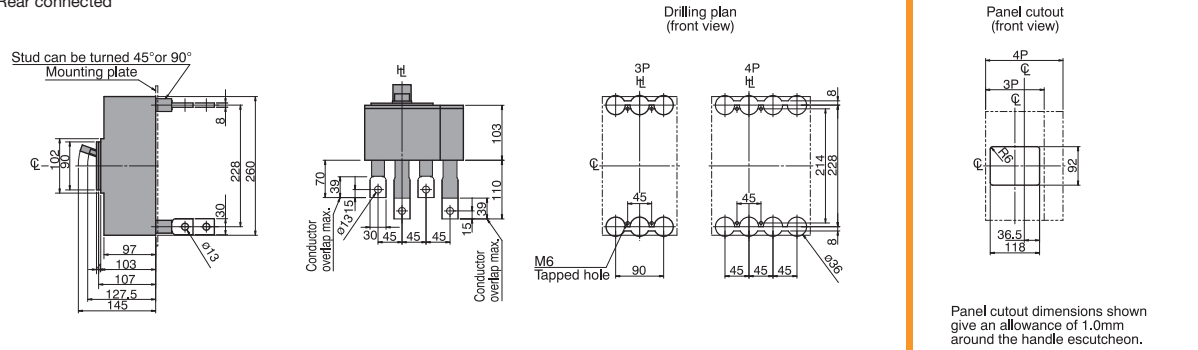
Outline Dimensions S400-NE

ASL: Arrangement Standard Line **Ht**: Handle Frame Centre Line

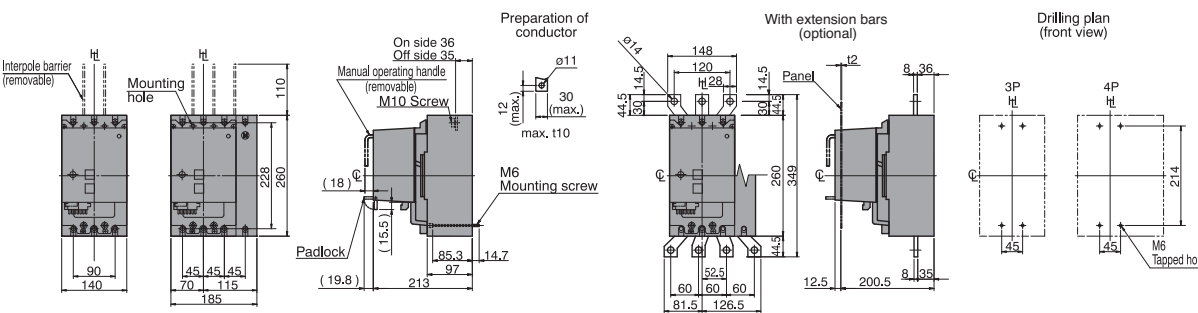
Front connected



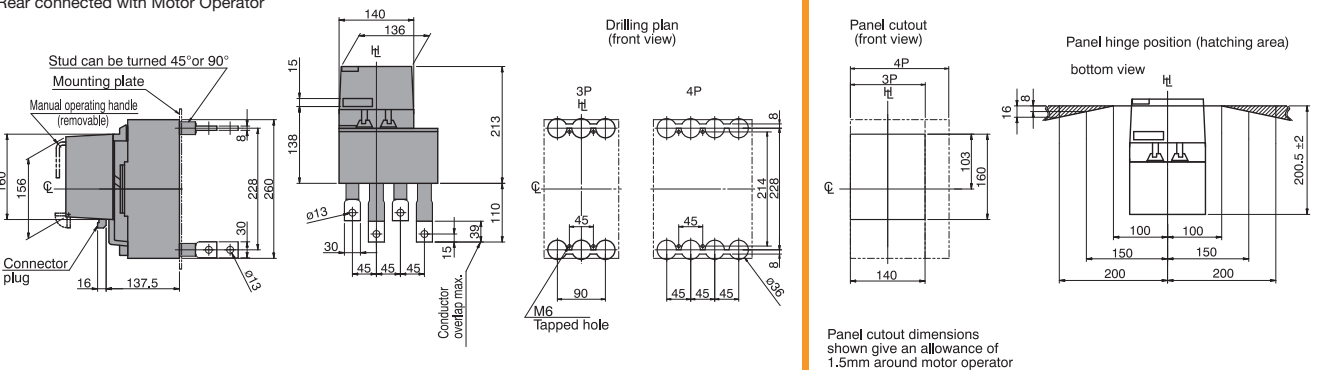
Rear connected



Front connected with Motor Operator



Rear connected with Motor Operator

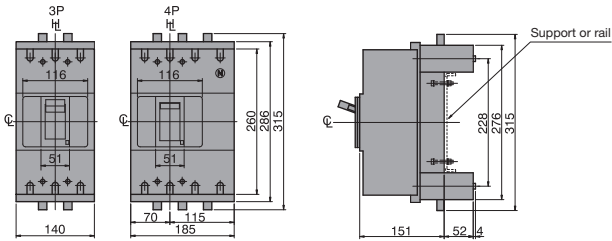


DATA SHEET: TEMBREAK 2 S400-NE MCCB

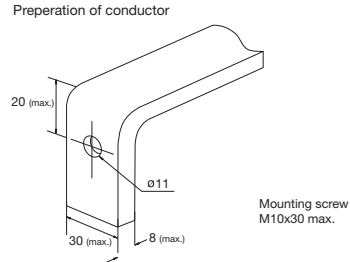
Outline Dimensions S400-NE Plug-in Version

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

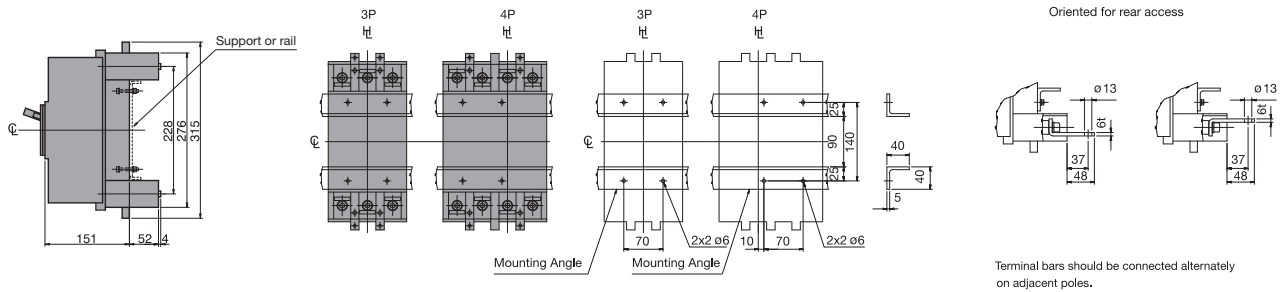
Outline Dimensions



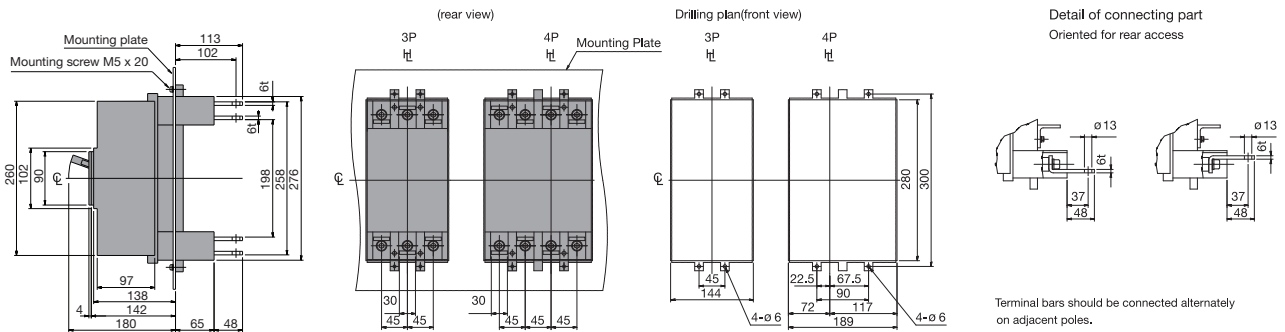
Termination of Busbar



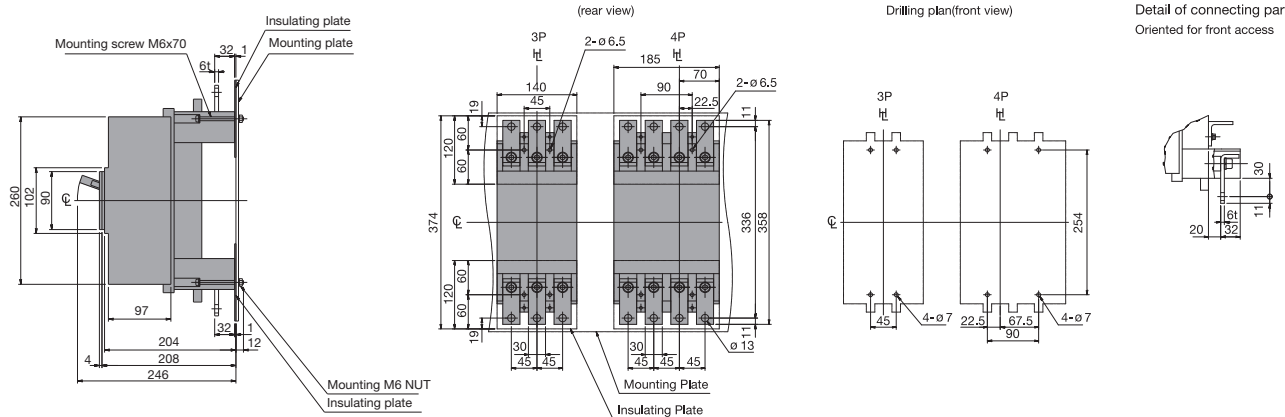
Mounting on a support or rails (shown with optional connection bars oriented for rear access)



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



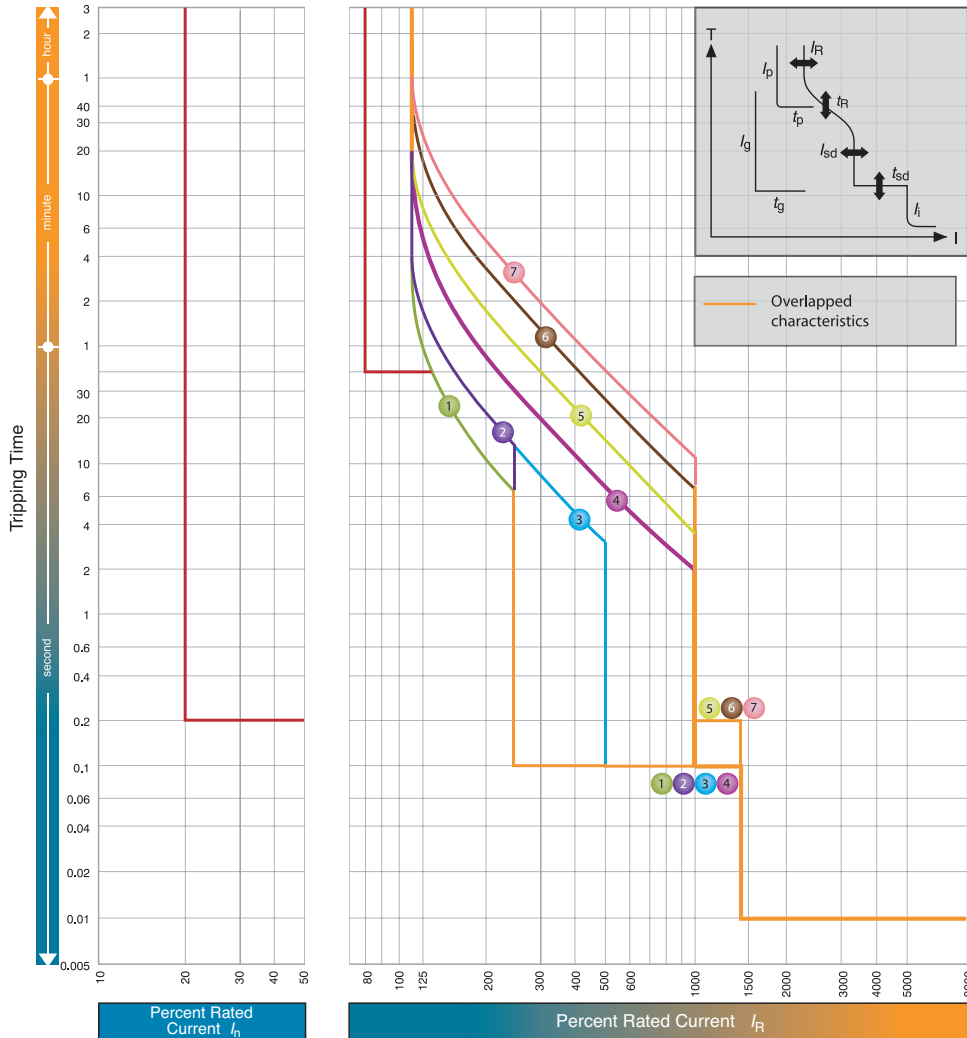
Mounting on the backplate (optional connection bars must be oriented for front access)



DATA SHEET: TEMBREAK 2 S400-NE MCCB

Time/Current Characteristic Curves

S400-NE



$I_n = 400A; 250A$ 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: $13 \times I_n$) 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. = $13 \times I_n$. (3) $1.0 \times I_R$ or $0.5 \times I_R$ 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.