

DATA SHEET: TEMBREAK 2 S250-PE 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 S/H/L 250
Max In (A) of Frame				250
Model				S250
Number of Poles				3, 4
Type				PE
Nominal current ratings				
	I_n	(A)	50°C	40 125 160 250
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 35 50 70 125 -
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 35 50 70 125 -
Rated breaking capacity (NEMA)		(kA)	480V AC 240V AC	35 125
Rated short-time withstand current	I_{cw}	(kA)	0.3 Seconds	-
Protection				
Adjustable thermal, adjustable magnetic Fixed thermal, fixed magnetic Microprocessor Utilisation category				■ A
Installation				
Front connection (FC) Extension bar (FB) Cable clamp (FW) Rear connection (RC) Plug-in (PM) DIN rail mounting (DA) Dimensions				■ ●② ●② ●② - -
	height	(mm)		165
	width	(mm)	3 pole	105
		(mm)	4 pole	140
	depth	(mm)		103
Weight	weight	(kg)	3 pole 4 pole	2.5 3.3
Operation				
Direct Opening Action Toggle operation Door mounted (HS) / Breaker mounted handle (HB) Motor operation (MC) Endurance				■ ■ ● ●
	Electrical Mechanical	cycles cycles	415V AC	10,000 30,000

■ Standard ● Optional - Not Available

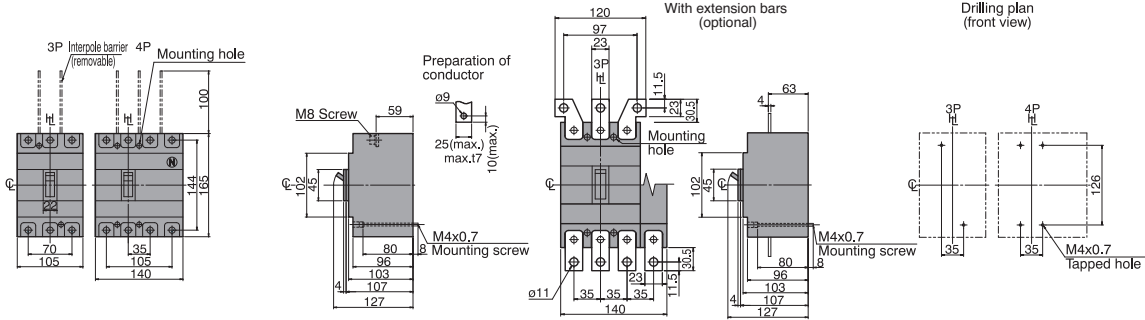
② Not fully rated at 50°C refer to Temperature Ratings

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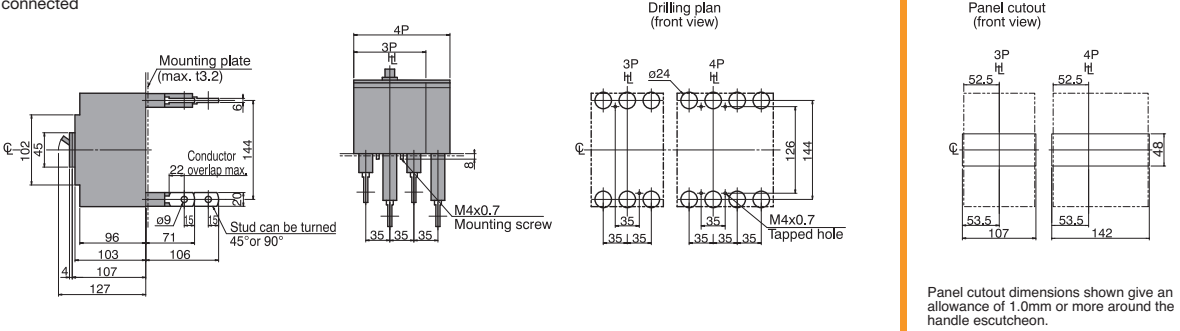
Outline Dimensions S250-PE

ASL: Arrangement Standard Line HL: Handle Frame Centre Line

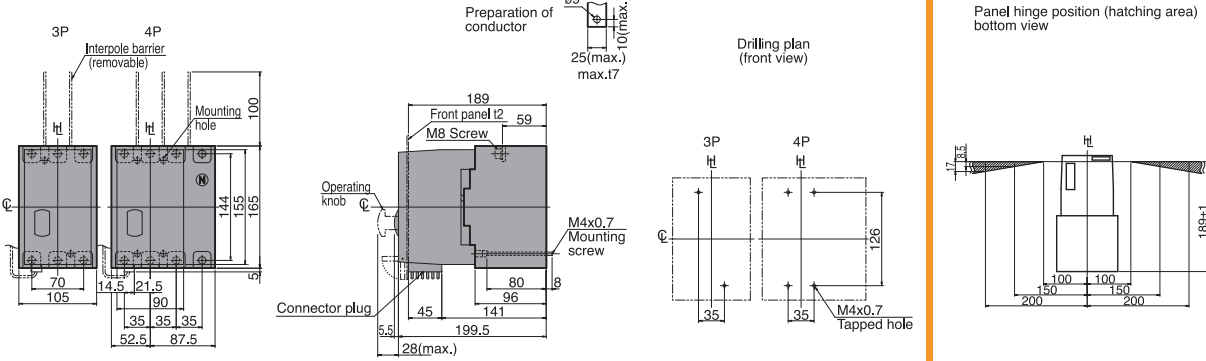
Front connected



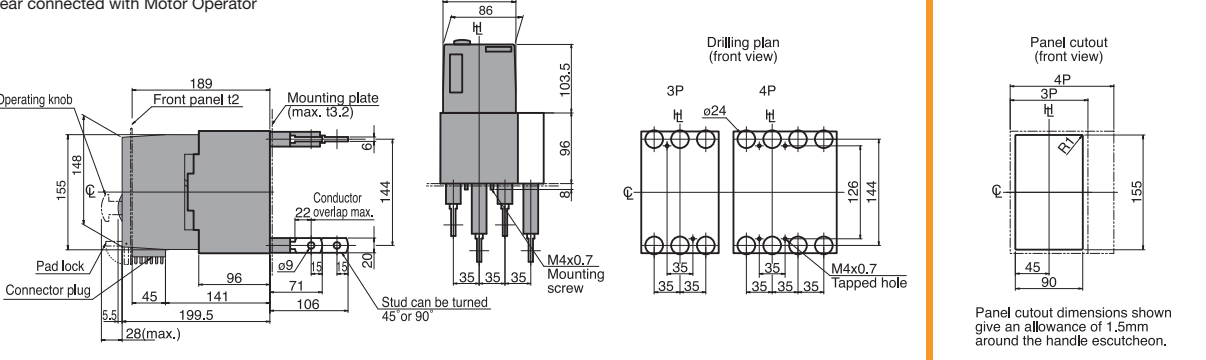
Rear connected



Front connected with Motor Operator



Rear connected with Motor Operator

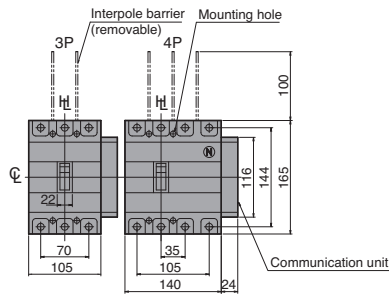


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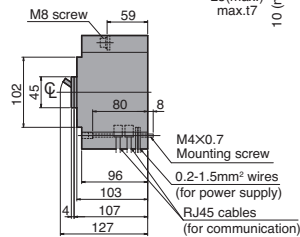
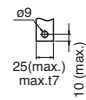
Outline Dimensions S250-PE with Communication Module

ASL: Arrangement Standard Line HL : Handle Frame Centre Line

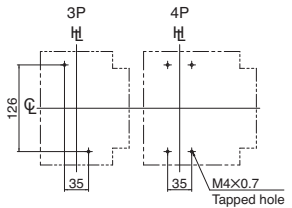
Front connected



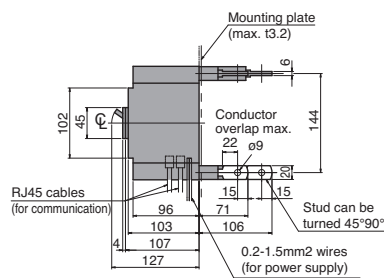
Preparation of conductor



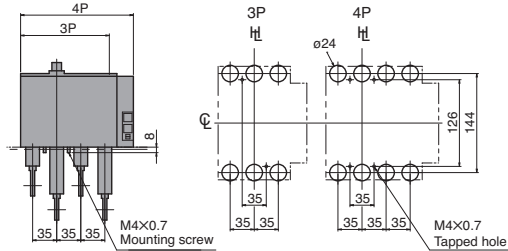
Drilling plan (front view)



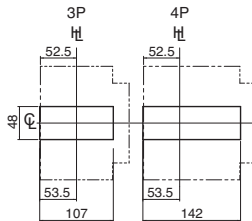
Rear connected



Drilling plan (front view)

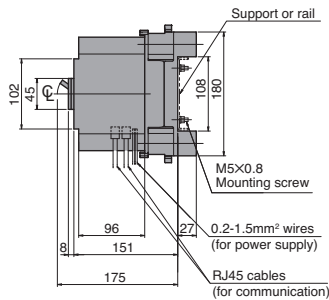
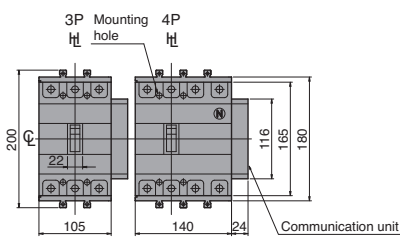


Panel cutout (front view)



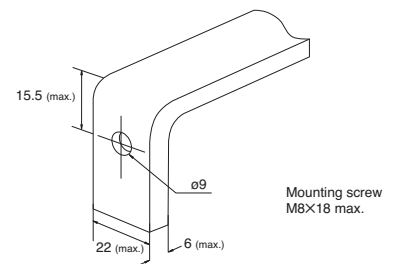
Panel cutout dimensions shown give an allowance of 1.0mm or more around the handle escutcheon.

Plug-in

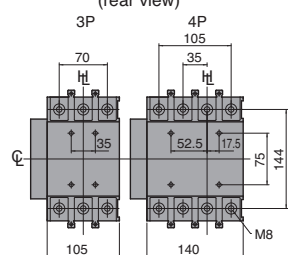
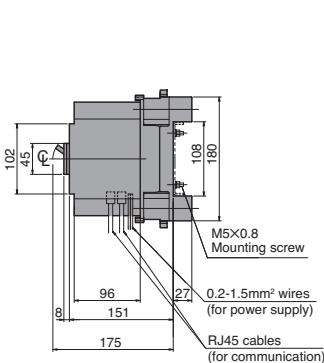


Termination of Busbar

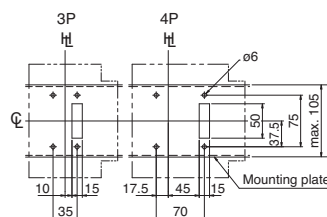
Preparation of conductor



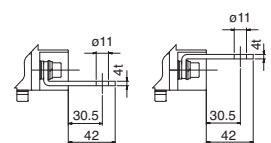
Mounting on a support or rails (shown with optional connection bars oriented for rear access)



Drilling plan (front view)



Detail of connecting part Oriented for rear access

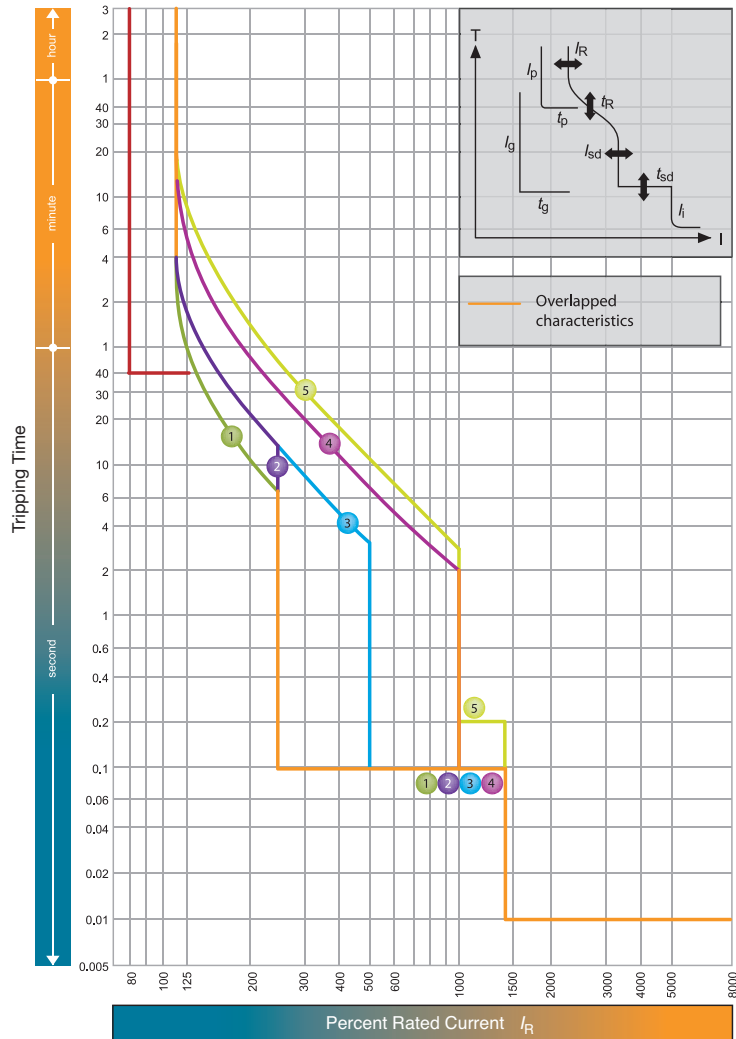


Terminal bars should be connected alternately on adjacent poles.

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Time/Current Characteristic Curves

S250-PE



$I_n = 250A; 160A; 125A; 40A$ 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
Standard	Characteristics	No.	1	2	3	4	5				
	LT	t_R (s)	11	21	21	5	7.5				
	ST	I_{sd}	at 200% x I_R		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							
	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).