

## DATA SHEET: TEMBREAK 2 S1000-NE MCCB

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

Frame reference	Quantity	Unit	Condition	TB2 1000
Max In (A) of Frame				1000
Model				S1000
Number of Poles				3, 4
Type				NE
Nominal current ratings				
	$I_n$	(A)	50°C	1000 <sup>①</sup>
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	25 <sup>②</sup> 45 <sup>②</sup> 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	20 <sup>②</sup> 34 50 50 75 -
Rated breaking capacity (NEMA)		(kA)	480V AC 240V AC	45 100
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	height	(mm)		273
	width	(mm)	3 pole 4 pole	210 280
	depth	(mm)		103
Weight	weight	(kg)	3 pole 4 pole	11.0 14.8
Operation				
Direct Opening Action				■
Toggle operation				■
Door mounted (HS) / Breaker mounted handle (HB)				•
Motor operation (MC)				•
Endurance	Electrical Mechanical		690V AC	4,000 10,000
		cycles cycles		

① Not fully rated at 50°C, refer to temperature ratings

② MCCB cannot be used in IT systems at this voltage

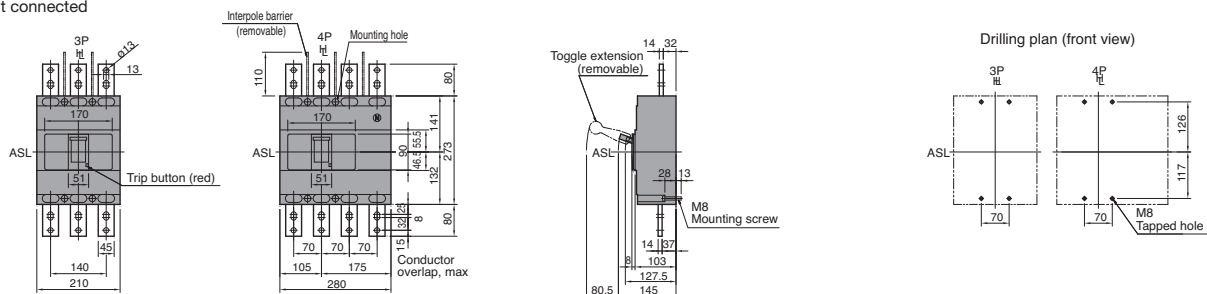
■ Standard    • Optional    - Not Available

# DATA SHEET: TEMBREAK 2 S1000-NE MCCB

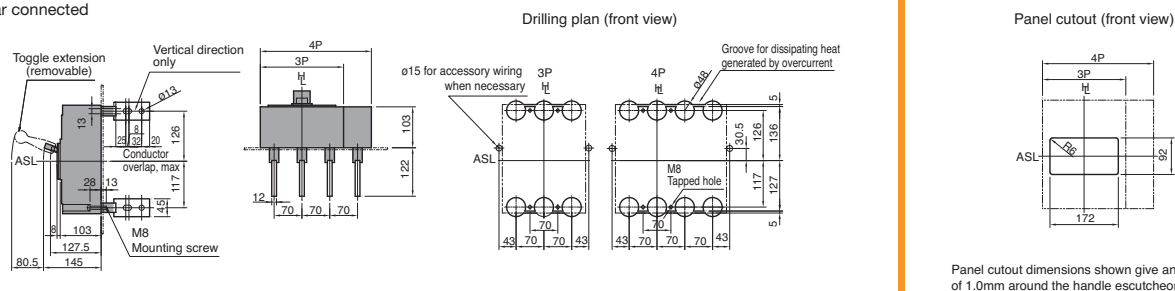
## Outline Dimensions S1000-NE

ASL: Arrangement Standard Line H<sub>L</sub>: Handle Frame Centre Line

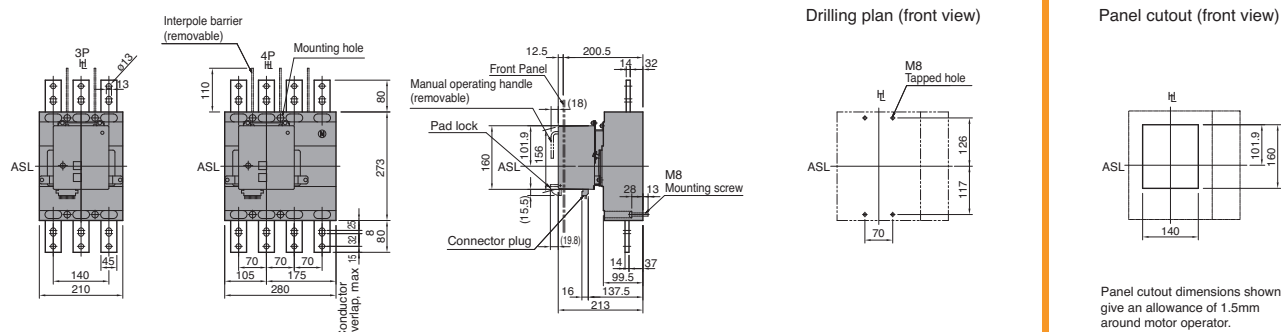
### Front connected



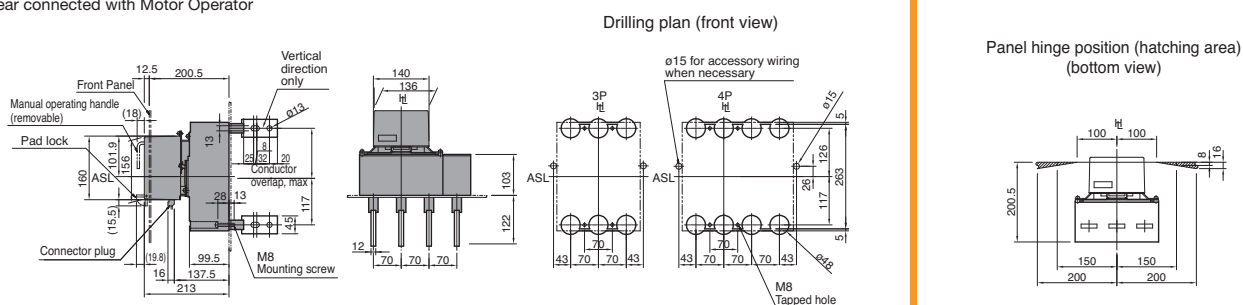
### Rear connected



### Front connected with Motor Operator



### Rear connected with Motor Operator

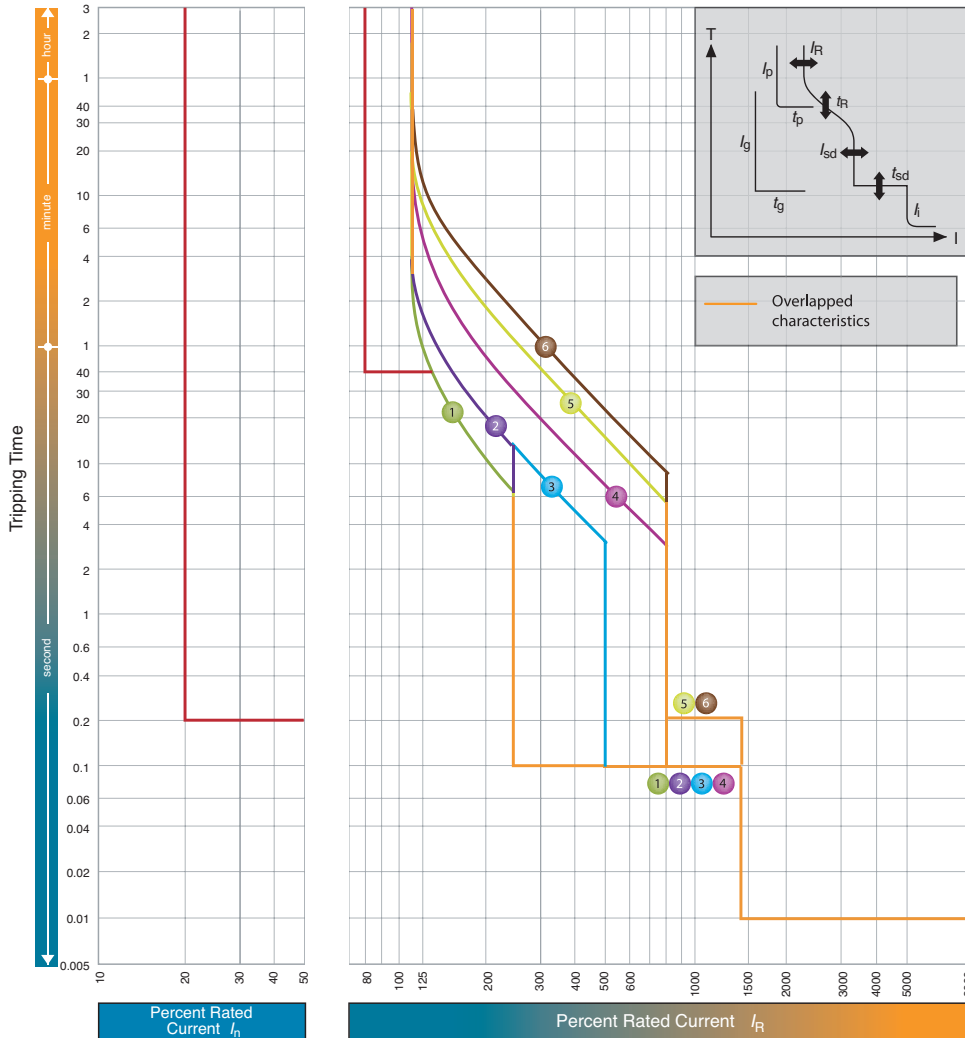


Note: Studs are factory installed in horizontal direction both on the line and load sides.

# DATA SHEET: TEMBREAK 2 S1000-NE MCCB

## Time/Current Characteristic Curves

S1000-NE



$I_n = 1000A$

		$I_R$ (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	Characteristics	No.	1	2	3	4	5	6			
	LT	$t_R$	(s)	11	21	21	5	10	16		
	ST	$I_{sd}$	$x/I_R$	2.5			5			8	
		$t_{sd}$	(s)	0.1			0.2				
INST	$I_i$	$x/I_R$	14(Max: 10 x $I_n$ ) Note (1)								
Option	PTA	$I_p$	$x/I_R$	0.8							
		$t_p$	(s)	40							
	GF Note(3)	$I_g$	$x/I_n$	0.2							
		$t_g$	(s)	0.2							
	NP	$I_N$	$x/I_R$	1.0/0.5 Note(2)							
		$t_N$	(s)	$t_N = t_R$							

Note

(1)  $I_i$  max. = 10 x  $I_n$ . (2) 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.  $I_R$ ). (3) 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.