

DATA SHEET: TEMBREAK 2 S1000-SE MCCB

Código Larce 3P: 0403011001

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				SE
Nominal current ratings				
	I_n	(A)	50°C	1000 ^②
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 ^① 30 ^① 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 ^① 23 34 38 65 -
Rated breaking capacity (NEMA)		(kA)	480V AC 240V AC	30 85
Rated short-time withstand current	I_{cw}	(kA)	0.3 Seconds	-
Protection				
Adjustable thermal, adjustable magnetic				■
Fixed thermal, fixed magnetic				A
Microprocessor				
Utilisation category				
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	cycles cycles	690V AC	4,000 10,000

① MCCB cannot be used in IT systems at this voltage

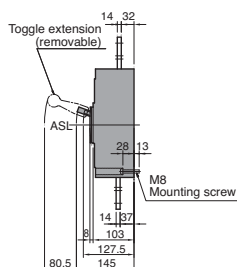
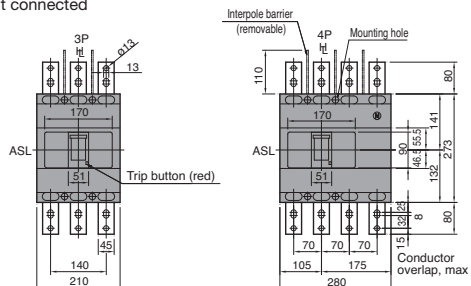
② Not fully rated at 50°C, refer to temperature ratings

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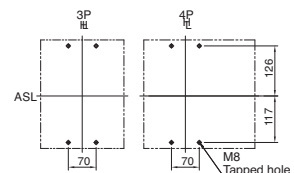
Outline Dimensions S1000-SE

ASL: Arrangement Standard Line H: Handle Frame Centre Line

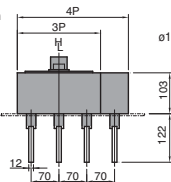
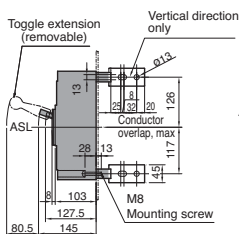
Front connected



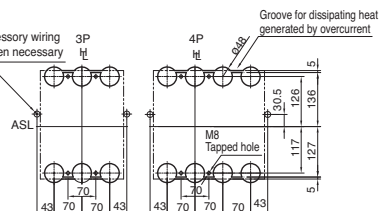
Drilling plan (front view)



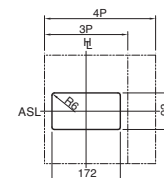
Rear connected



Drilling plan (front view)

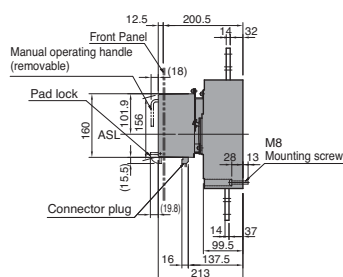
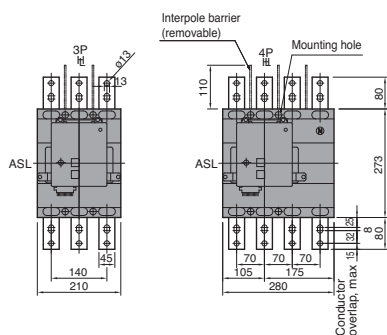


Panel cutout (front view)

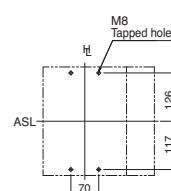


Panel cutout dimensions shown give an allowance of 1.0mm around the handle escutcheon.

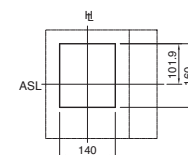
Front connected with Motor Operator



Drilling plan (front view)

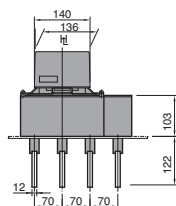
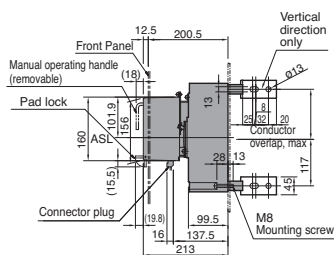


Panel cutout (front view)

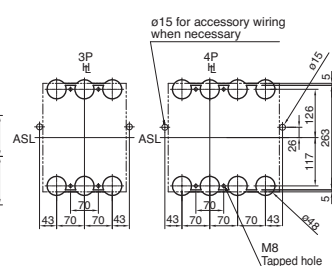


Panel cutout dimensions shown give an allowance of 1.5mm around motor operator.

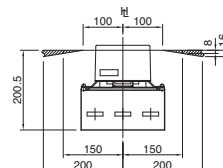
Rear connected with Motor Operator



Drilling plan (front view)



Panel hinge position (hatching area)
(bottom view)

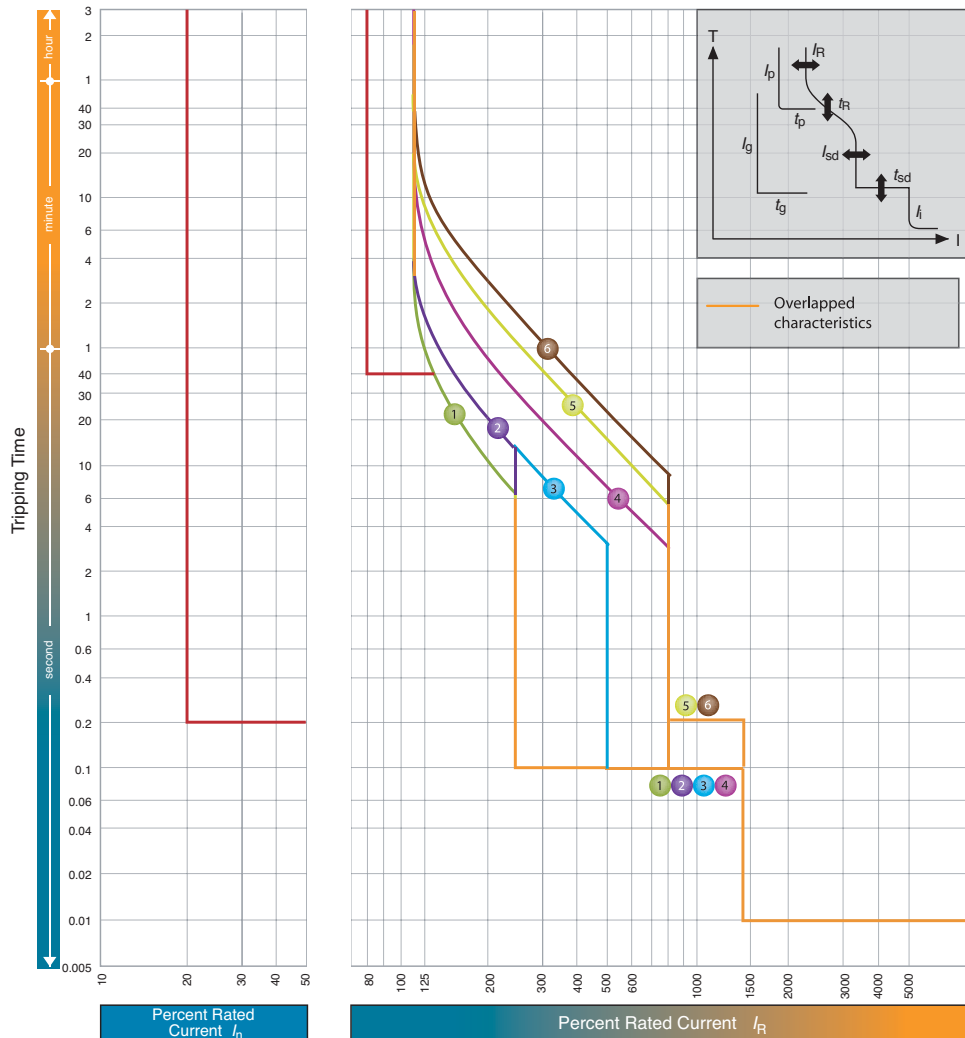


Note: Studs are factory installed in horizontal direction both on the line and load sides.

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Time/Current Characteristic Curves

S1000-SE



$$I_n = 1000A$$

		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	
		Characteristics		No.	1	2	3	4	5	6		
Standard	LT	t_R	(s)		11	21	21	5	10	16		
					at 200% x I_R			at 600% x I_R				
	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.