

DATA SHEET: TEMBREAK 2 S1600-SE MCCB

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

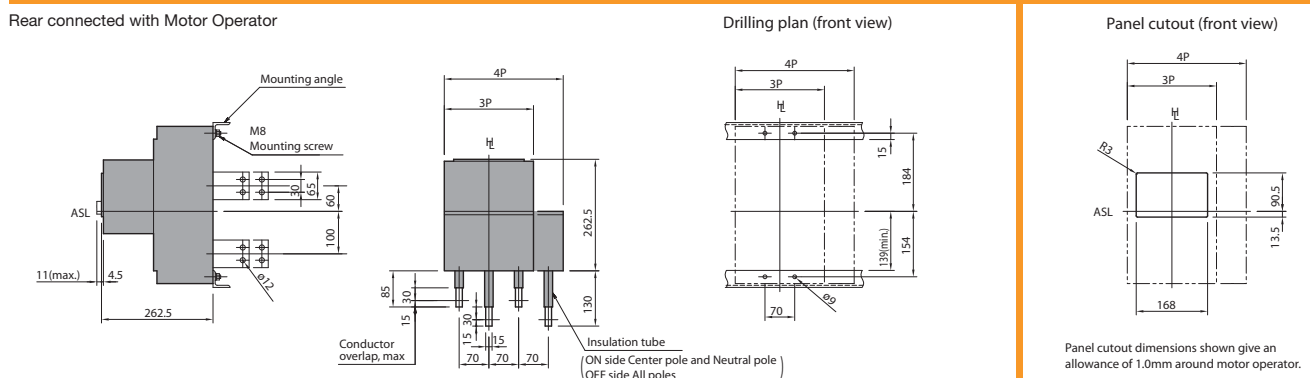
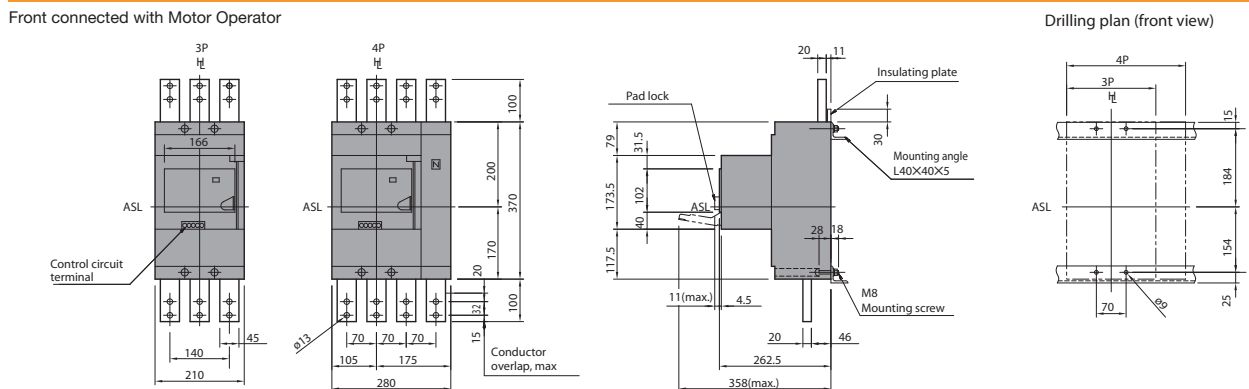
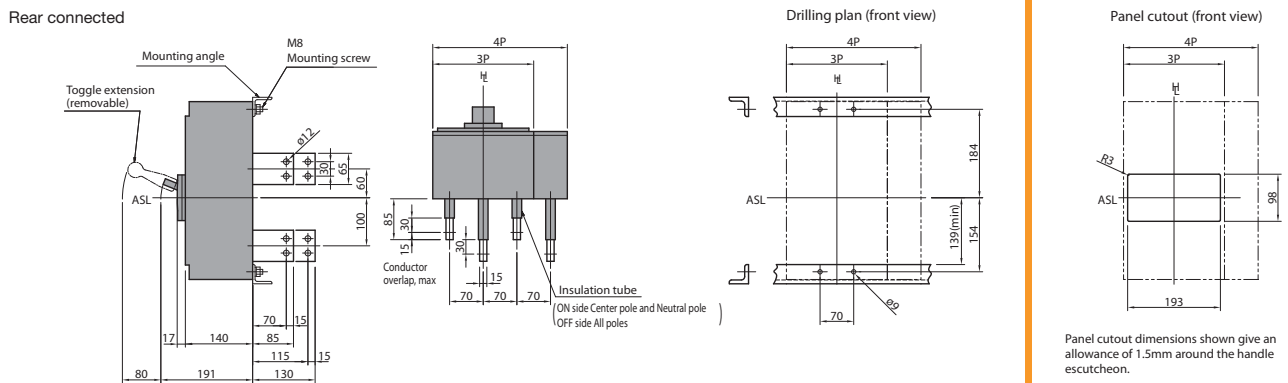
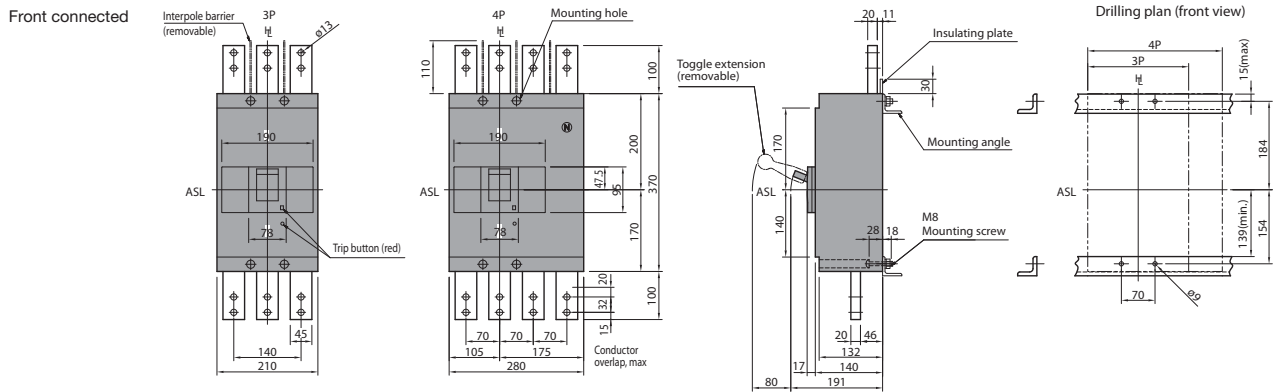
Frame reference	Quantity	Unit	Condition	TB2 1600
Max In (A) of Frame				1600
Model				S1600
Number of Poles				3, 4
Type				SE
Nominal current ratings				
	I_n	(A)	50°C	1600
Electrical characteristics				
Rated operational voltage	U_e	(V)	AC 50/60 Hz DC	690 -
Rated insulation voltage	U_i	(V)		800
Rated 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 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	20
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	(mm) (mm)	3 pole 4 pole	370 210 280
Weight	depth weight	(mm) (kg)	3 pole 4 pole	140 27.0 35.0
Operation				
Direct Opening Action				■
Toggle operation				■
Door mounted (HS) / Breaker mounted handle (HB)				•
Motor operation (MC)				•
Endurance	Electrical Mechanical	cycles cycles	690V AC	2,000 5,000

① MCCB cannot be used in IT systems at this voltage

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Outline Dimensions S1600-SE

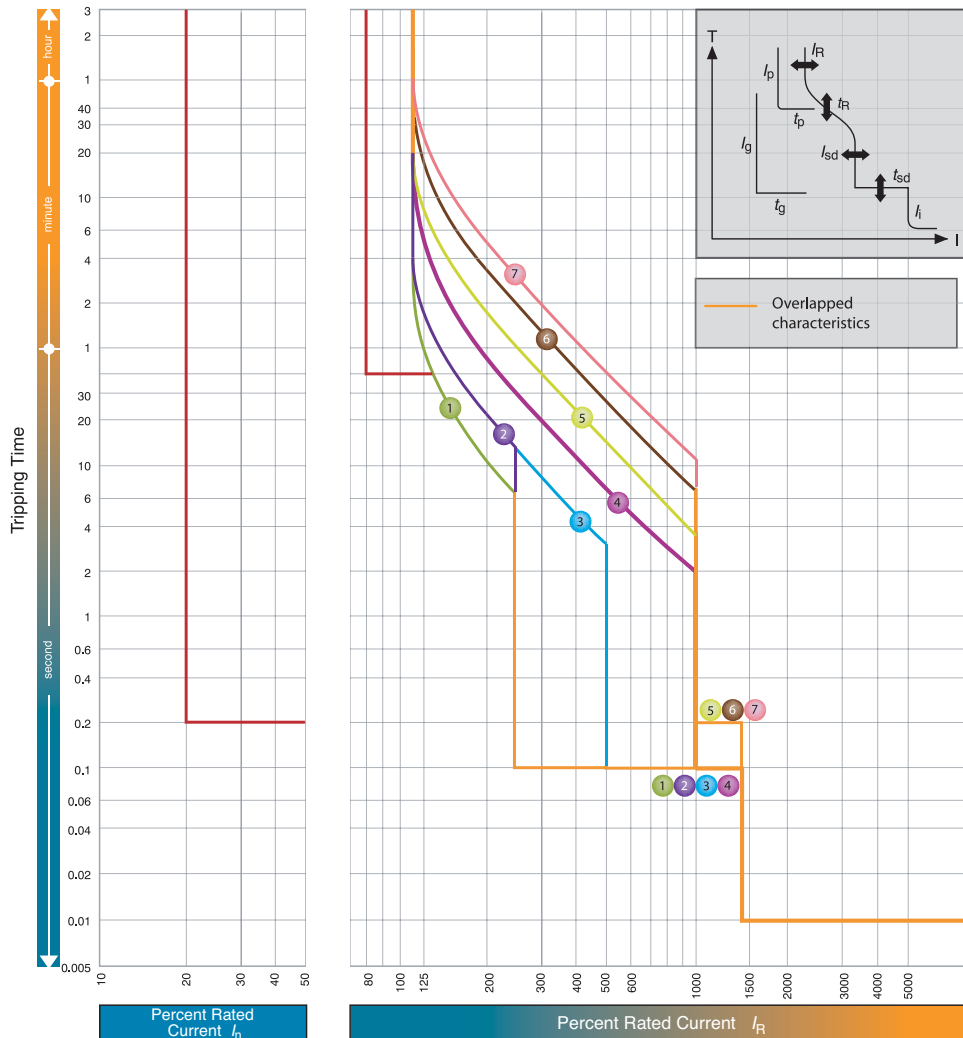
ASL: Arrangement Standard Line H: Handle Frame Centre Line



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Time/Current Characteristic Curves

S1600-SE



$$I_n = 1600A$$

		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	7					
Standard	LT	t_R	(s)	11		21		21		5		10		19		29	
				at 200% x I_R								at 600% x I_R					
	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: 12 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. = $12 \times I_n$. (2) $1.0 \times I_R$ 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). (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.