

DATA SHEET: TEMBREAK 2 S1600-NE 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				NE
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	45 ^③ 65 85 100/85 ^① 125 -
Service breaking capacity (IEC, JIS, AS/NZS)	I_{cs}	(kA)	690V AC 525V AC 440V AC 400/415V AC 220/240V AC 250V DC	34 ^③ 50 65 75/65 ^② 94 -
Rated breaking capacity (NEMA)		(kA)	480V AC 240V AC	65 125
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 depth	(mm) (mm) (mm)	3 pole 4 pole	370 210 280 140
Weight	weight	(kg)	3 pole 4 pole	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 100KA at 400V

② 75KA at 400V

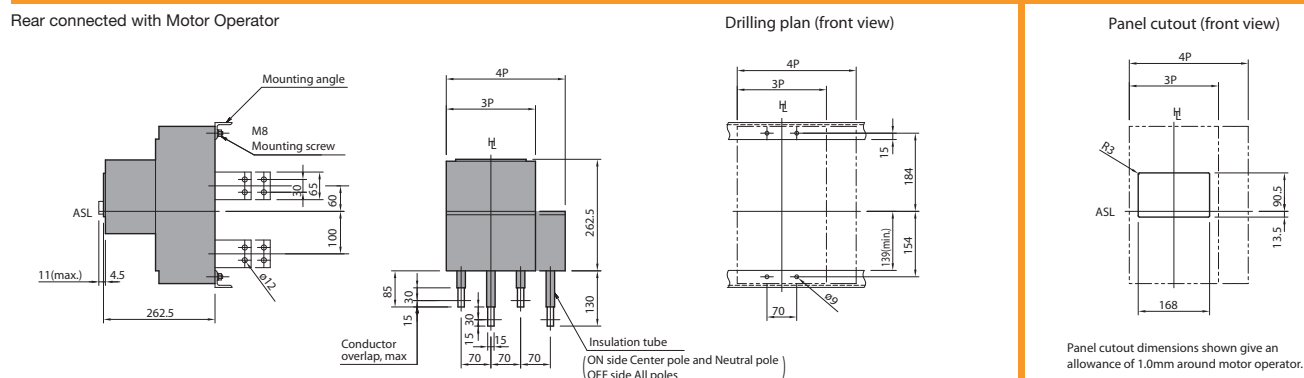
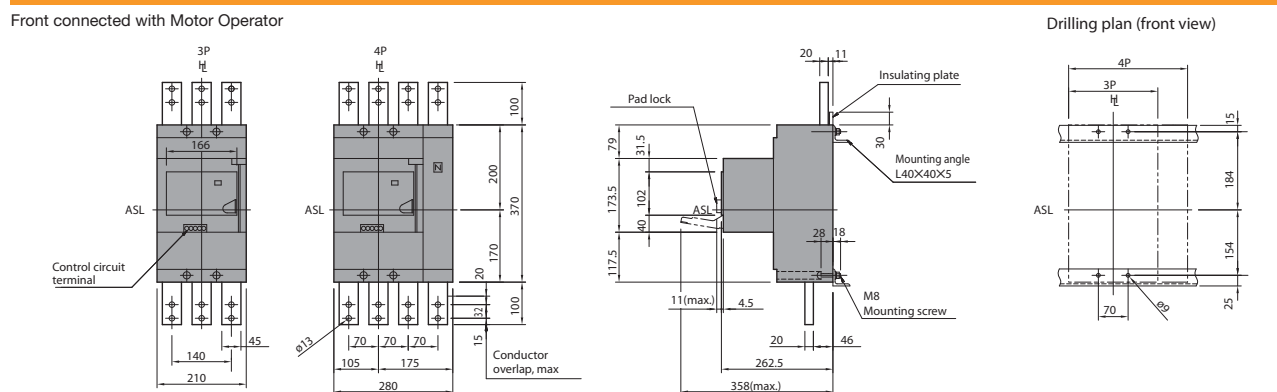
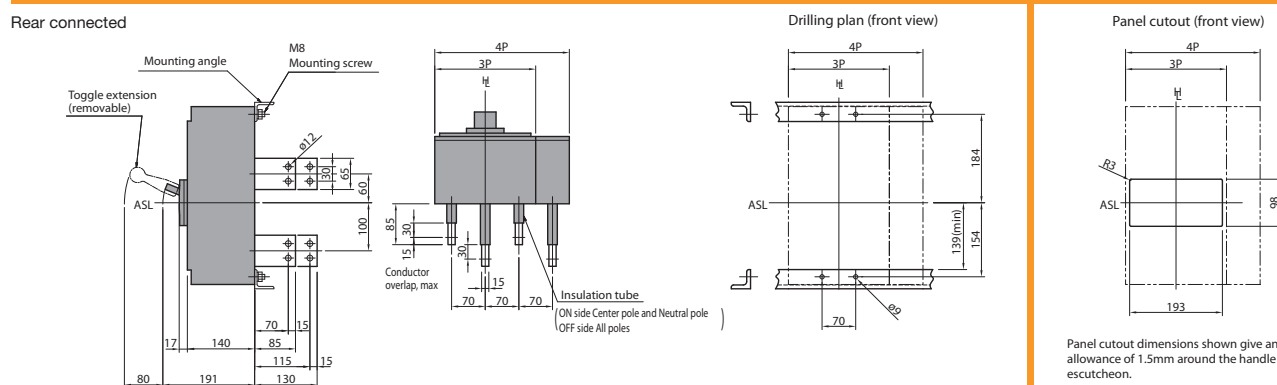
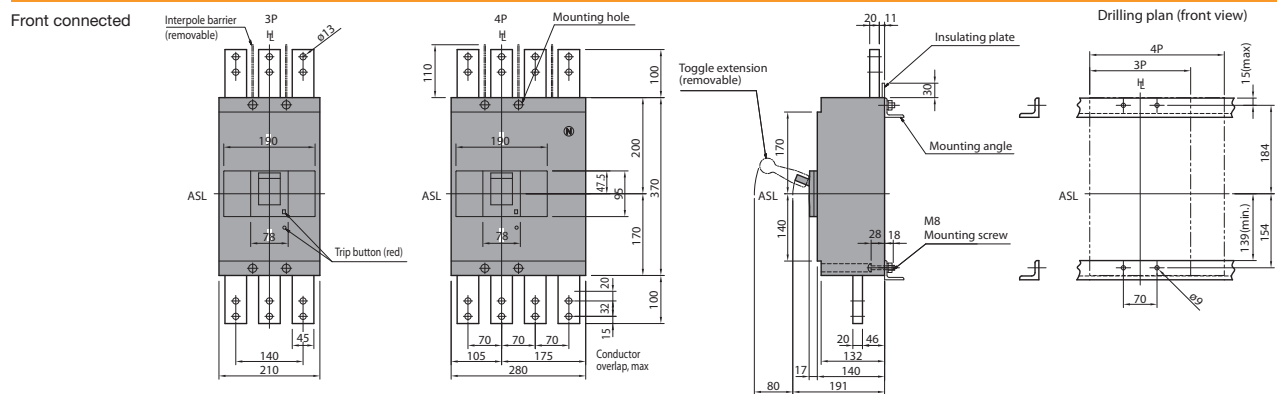
③ MCCB cannot be used in IT systems at this voltage

■ Standard • Optional - Not Available

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Outline Dimensions S1600-NE

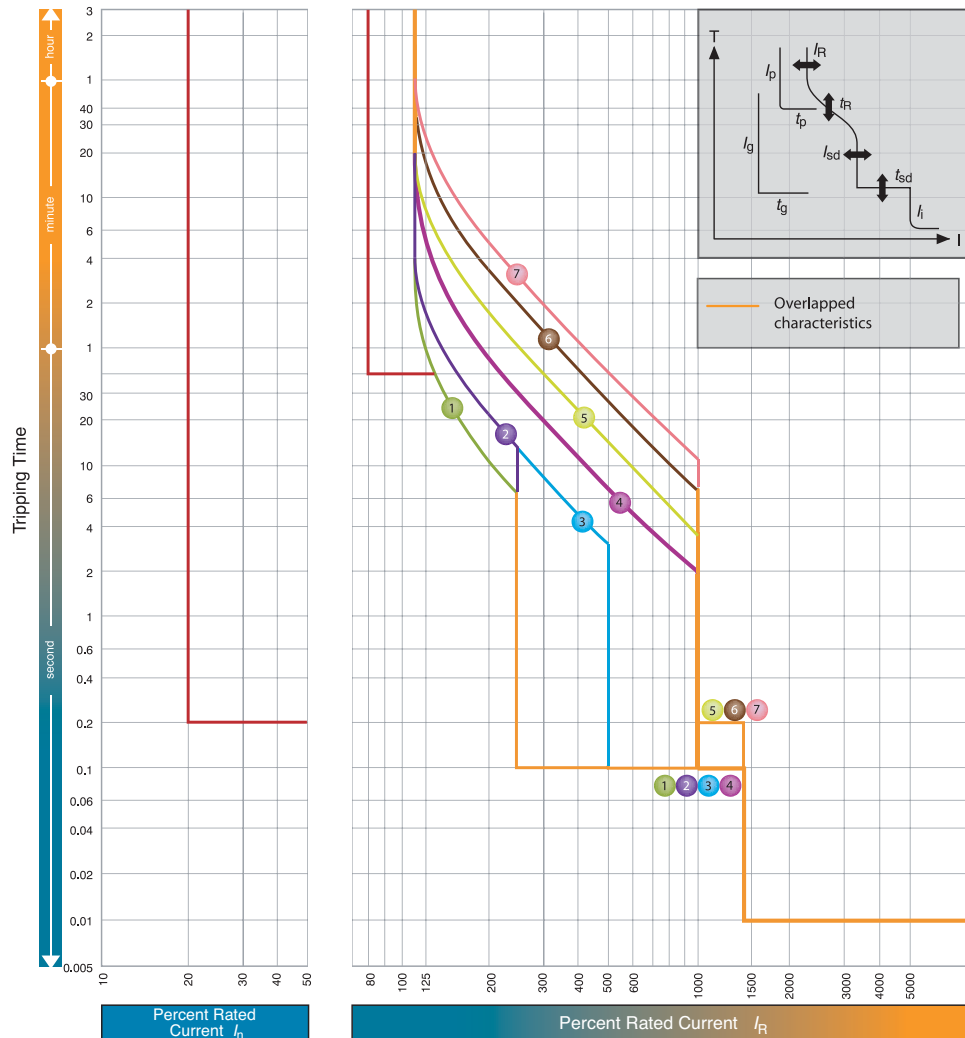
ASL: Arrangement Standard Line H: Handle Frame Centre Line



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Time/Current Characteristic Curves

S1600-NE



$$I_n = 1600A$$

		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
		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.