DATA SHEET: TEMBREAK 2 S630-CE 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 E/S 630
Max In (A) of Frame				630
Model				S630
Number of Poles				3, 4
Type				CE
Nominal current ratings				
	In	(A)	50°C	630
Electrical characteristics				
Rated operational voltage	Ue	(A)	AC 50/60 Hz	690 ①
			DC	-
Rated insulation voltage	Ui	(V)		800
Rated impulse withstand voltage	Uimp	(kV)		8
Ultimate breaking capacity (IEC, JIS, AS/NZS	Icu	(kA)	690VAC	20 ①
			525VAC	30
			440VAC	45
			400/415VAC	50
			220/240VAC	85
			250V DC	-
Service breaking capacity (IEC, JIS, AS/NZS	Ics	(kA)	690VAC	15 ①
			525VAC	30
			440VAC	45
			400/415VAC	50
			220/240VAC	85
			250V DC	-
Rated breaking capacity (NEMA)		(kA)	480VAC	25
			240VAC	85
Protection				
Adjustable thermal, adjustable magnetic				■
Fixed thermal, fixed magnetic				
Microprocessor				
Utilisation category				A
Installation				
Front connection (FC)				■
Extension bar (FB)				●
Cable clamp (FW)				-
Rear connecton (RC)				●
Plug-in (PM)				②
Din rail mounting (DA)				-
Dimensions	height	(mm)		260
	width	(mm)	3 pole, (1 pole)	140
			4 pole	185
Weight	depth	(mm)		103
	weight	(kg)	3 pole, (1 pole)	5.0
			4 pole	6.5
Operation				
Direct Opening Action				■
Toggle operation				■
Door mounted (HS) / breaker mounted handle (HB)				●
Motor operation (MC)				●
Endurance	Electrical	cycles	415VAC	4,500
	Mechanical	cycles		15,000

■ Standard ● Optional - Not Available

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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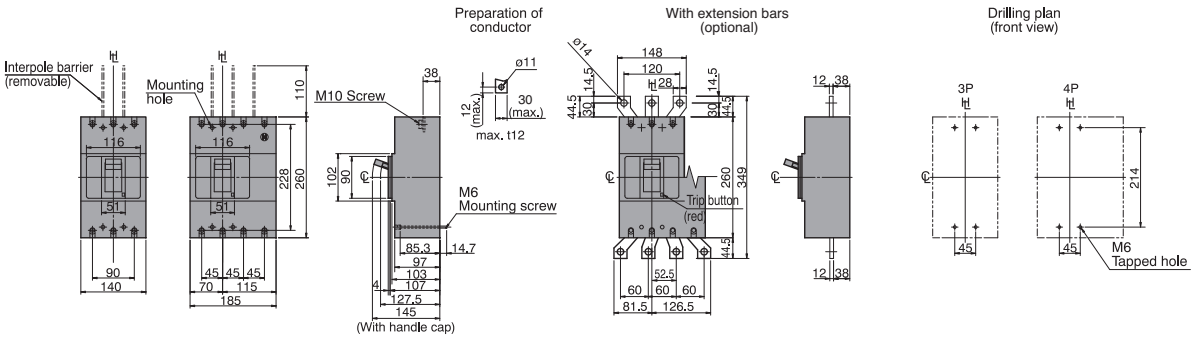
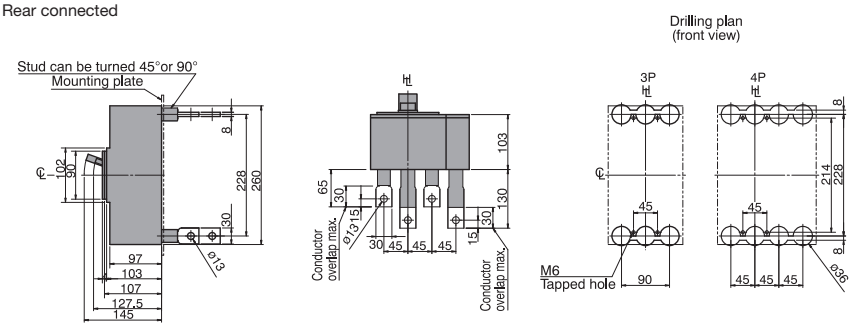
Outline Dimensions S630-CE

ASL: Arrangement Standard Line ℍ: Handle Frame Centre Line

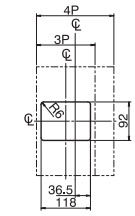
Front connected



Rear connected



Panel cutout (front view)



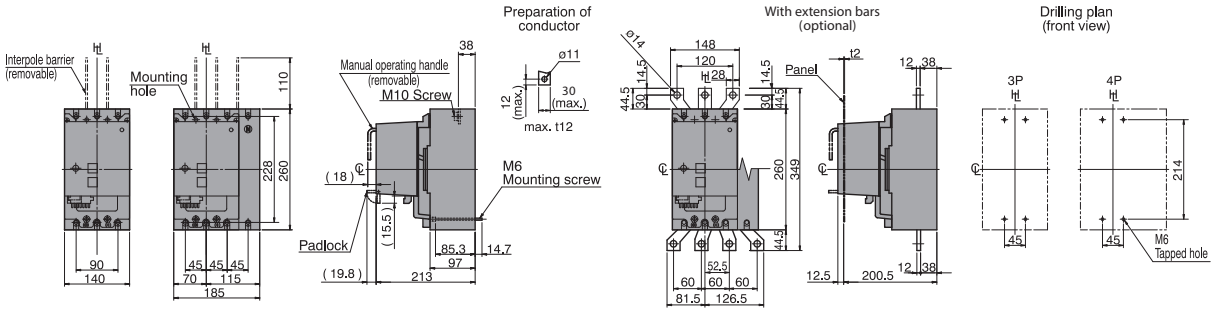
Panel cutout dimensions shown give an allowance of 1.0mm around the handle escutcheon.

DATA SHEET: TEMBREAK 2 S630-CE MCCB

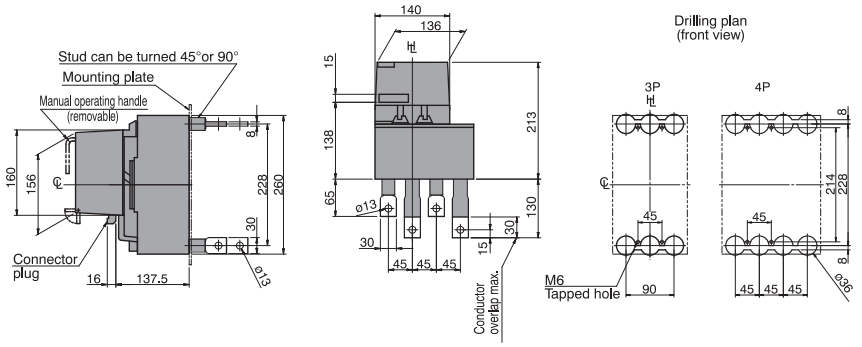
Outline Dimensions S630-CE with Motor Operators

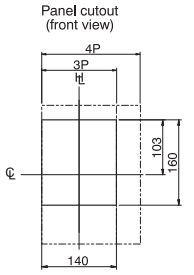
ASL: Arrangement Standard Line HL: Handle Frame Centre Line

Front connected

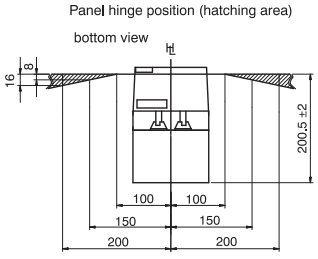


Rear connected with Motor Operator





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



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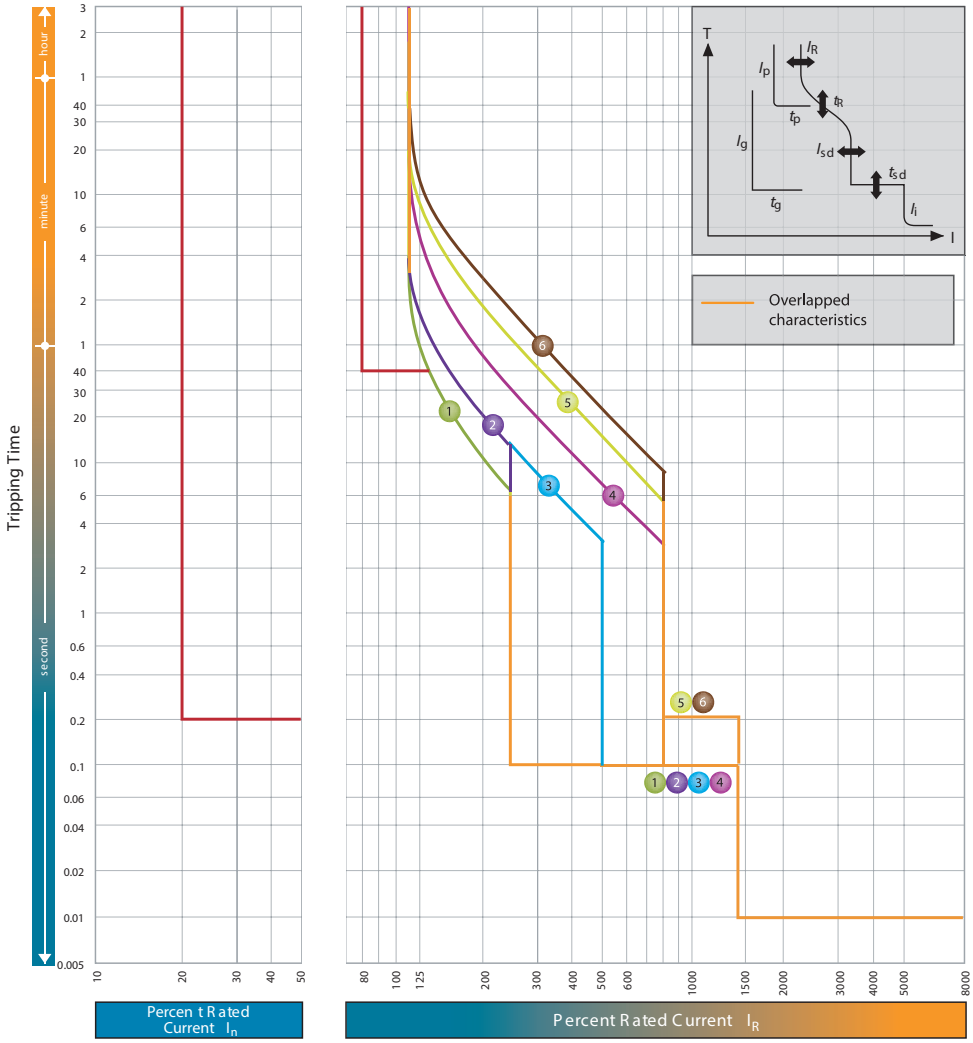
Time/Current Characteristic Curves

S630-CE



$I_n = 630A$

I_R (A)									
LTD Pick-up current	I_R	xIn	0.4	0.5	0.63	0.8	0.85	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}	xI_R	2.5		5	8		
		t_{sd}	(s)	0.1				0.2	
	INST	I_i	xI_R	14(Max: 10 x I_n) Note (1)					
Option	PTA	I_p	xI_R	0.8					
		t_p	(s)	40					
	GF Note(3)	I_g	xI_n	0.2					
		t_g	(s)	0.2					
	NP	I_N	xI_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.