

DATA SHEET: TEMBREAK 2 S800-CJ MCCB - Updated Feb 2024

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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 1000
Max In (A) of Frame				800
Model				S800
Number of Poles				3, 4
Type				CJ
Nominal current ratings				
	I_n	(A)	50°C	630 800
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	10 ^① 15 ^① 30 36 50 50
Service breaking capacity (IEC, JIS, AS/NZS)	I_{cs}	(kA)	690V AC 525V AC 440V AC 400/415V AC 220/240V AC 250V DC	10 ^① 15 ^① 30 36 50 50
Rated breaking capacity (NEMA)		(kA)	480V AC 240V AC	15 50
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)				• ②
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	8.5 11.5
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

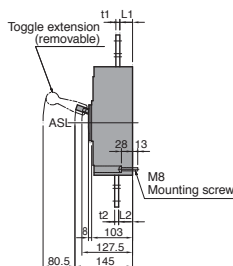
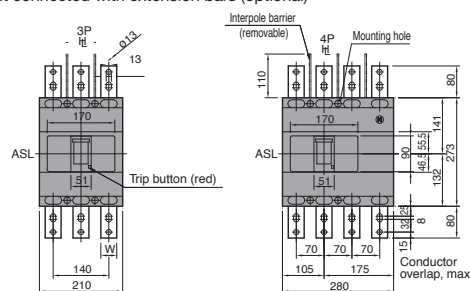
② 630A only

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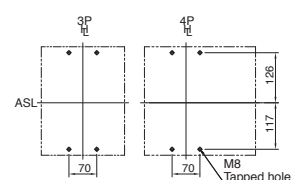
Outline Dimensions S800-CJ

ASL: Arrangement Standard Line H: Handle Frame Centre Line

Front connected with extension bars (optional)

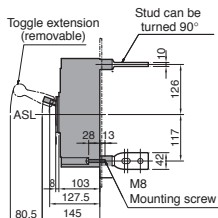


Drilling plan (front view)

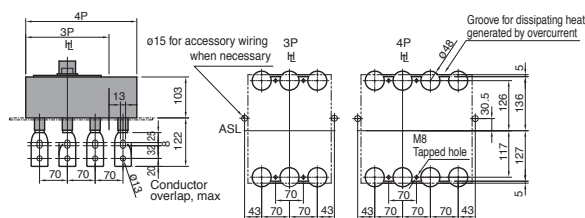


Breaker Type	Rated Current	t1	t2	L1	L2	W
S800-CJ, S800-NJ	630A	8	8	32	34	40
S800-RJ, S800-NN	800A	10	10	32	35	40
S800-NE, S800-RE	630A	8	8	32	36	40
	800A	10	10	32	36	40

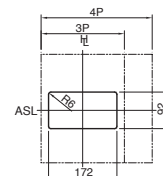
Rear connected



Drilling plan (front view)



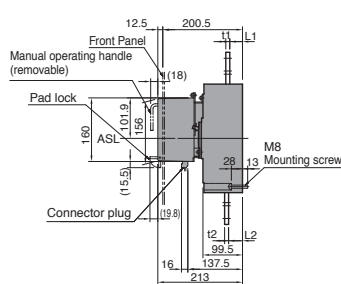
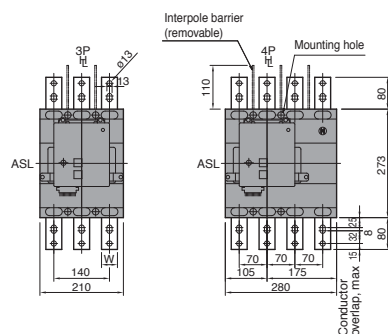
Panel cutout (front view)



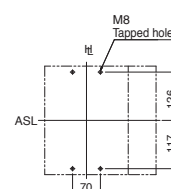
Panel cutout dimensions shown give an allowance of 1.0mm around the handle escutcheon.

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

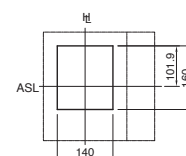
Front connected with Motor Operator



Drilling plan (front view)

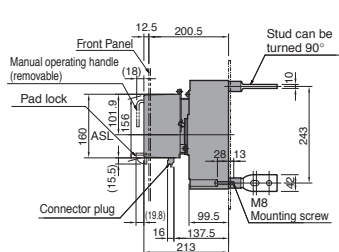


Panel cutout (front view)

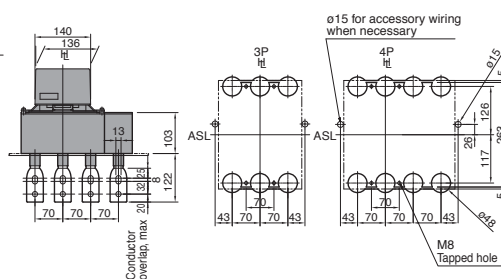


Panel cutout dimensions shown give an allowance of 1.5mm around motor operator.

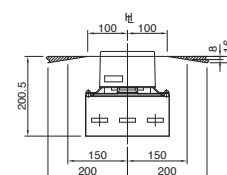
Rear connected with Motor Operator



Drilling plan (front view)



Panel hinge position (hatching area)
(bottom view)



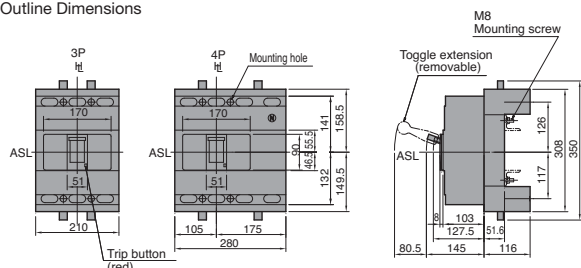
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Outline Dimensions S800-CJ Plug in Version

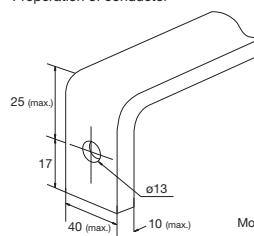
ASL: Arrangement Standard Line H: Handle Frame Centre Line

Outline Dimensions



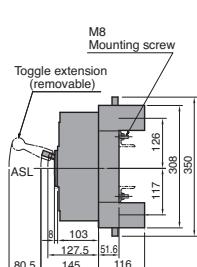
Termination of Busbar

Preparation of conductor

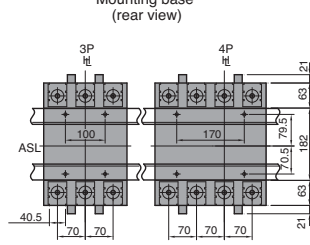


Mounting screw M12X25 max. Hex. sec. head bolt.

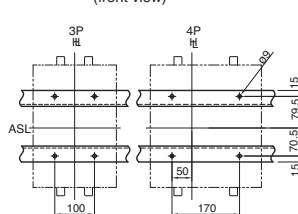
Mounting on a support or rails



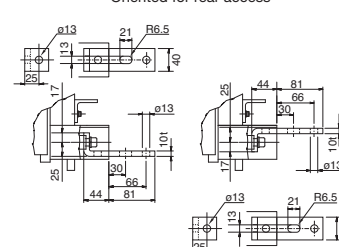
Mounting base



Drilling plan
(front view)

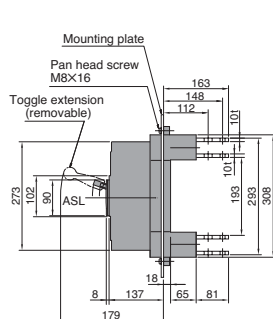


Detail of connecting part
Oriented for rear access

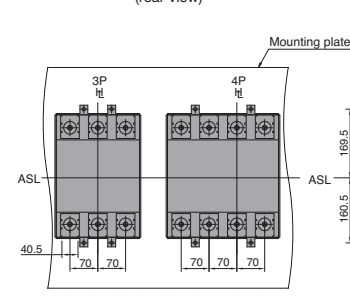


Terminal bars should be connected alternately on adjacent poles.

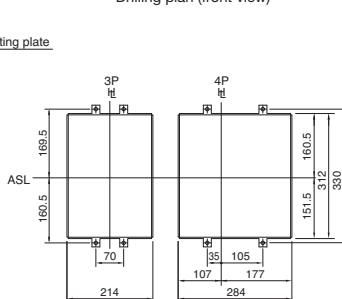
Mounting through the backplate (shown with optional connection bars oriented for rear access)



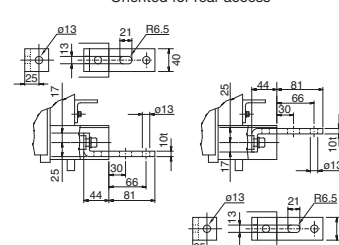
(rear view)



Drilling plan (front view)

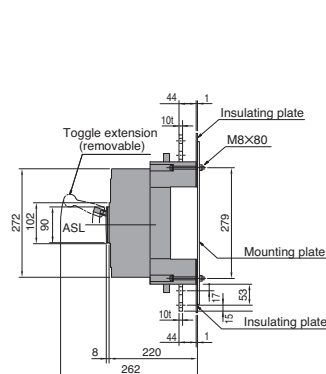


Detail of connecting part
Oriented for rear access

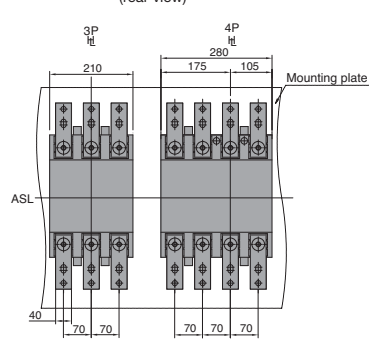


Terminal bars should be connected alternately on adjacent poles.

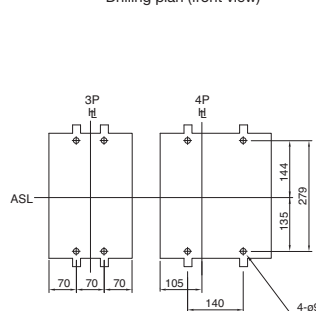
Mounting on the backplate (optional connection bars must be oriented for front access)



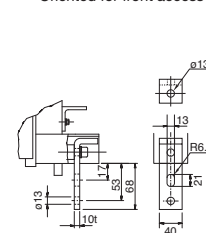
(rear view)



Drilling plan (front view)



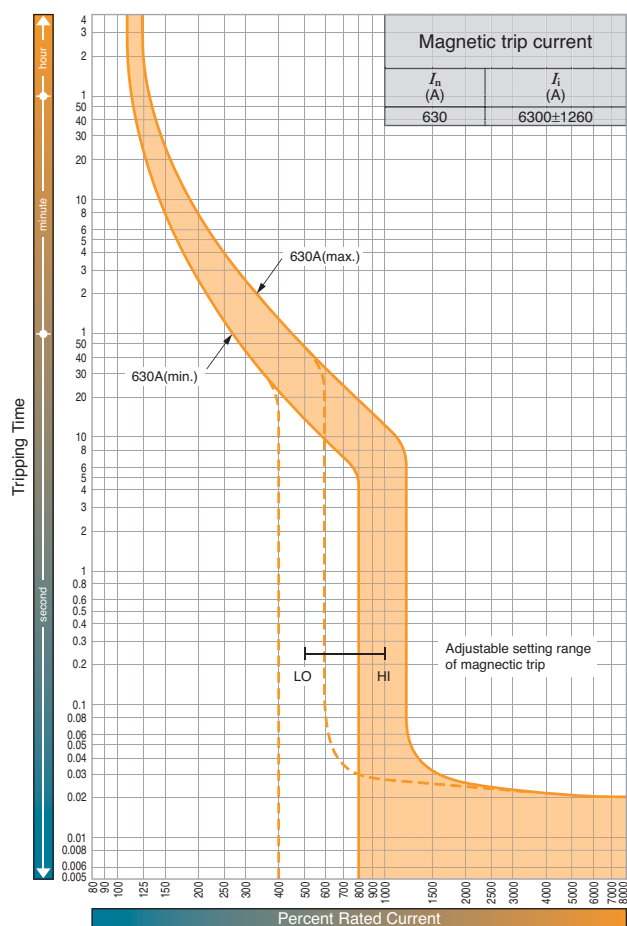
Detail of connecting part
Oriented for front access



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Time/Current Characteristic Curves

S800-CJ, (630A)



Time/Current Characteristic Curves

S800-CJ, (800A)

