

DATA SHEET: TEMBREAK 2 E160-SF MCCB

Código Larce 3P: 0403001039 0403001040 0403001041 0403001042 0403001043 0403001044
0403001045 0403001046 0403001047 0403001048 0403001049

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

Frame Reference	Quantity	Unit	Condition	TB2 Lite 160	
Max in (A) of Frame				160	160
Model				E160	E160
Number of Poles				1	3,4
Type				SF	SF
Nominal current ratings					
	I_n	(A)	50°C	16,20,25,32,40,50,63,80,100,125	16,20,25,32,40,50,63,80,100,125,160
Electrical characteristics					
Rated operational voltage	U_c	(V)	AC 50/60 Hz DC	240 -	525 250
Rated insulation voltage	U_i	(V)		690	690
Rated impulse withstand voltage	U_{imp}	(kV)		8	8
Ultimate breaking capacity (IEC, JIS, AS/NZS)	I_{cu}	(kA)	690V AC	-	-
			525V AC	-	6
			440V AC	-	10
			400/415V AC	-	16
			220/240V AC 250V DC	25 -	25 13
Service breaking capacity (IEC, JIS, AS/NZS)	I_{cs}	(kA)	690V AC	-	-
			525V AC	-	3
			440V AC	-	5
			400/415V AC	-	8
			220/240V AC 250V DC	13 -	13 7
Rated breaking capacity (NEMA)		(kA)	480V AC 240VAC	- 25	6 25
Protection					
Fixed thermal, fixed magnetic				■	■
Adjustable thermal, fixed magnetic				-	-
Utilisation category				A	A
Installation					
Front connection (FC)				■	■
Extension bar (FB)				●	●
Cable clamp (FW)				■ ①	-
Rear connection (RC)				-	●
Plug-in (PM)				-	-
DIN rail mounting (DA)				-	●
Dimensions	height	(mm)	3 pole, (1 pole)	130	130
	width	(mm)	4 pole	(25)	75
				-	100
	depth	(mm)		68	68
Weight	weight	(kg)	3 pole, (1 pole)	(0.3)	0.8
			4 pole	-	1.0
Operation					
Direct Opening Action				■	■
Toggle operation				■	■
Door mounted (HS) / Breaker mounted handle (HB)				-	●
Motor operation				-	-
Endurance	Electrical	cycles cycles	415V AC	10,000 20,000	10,000② 20,000

■ Standard ● Optional - Not Available

① Factory-fit at time of order

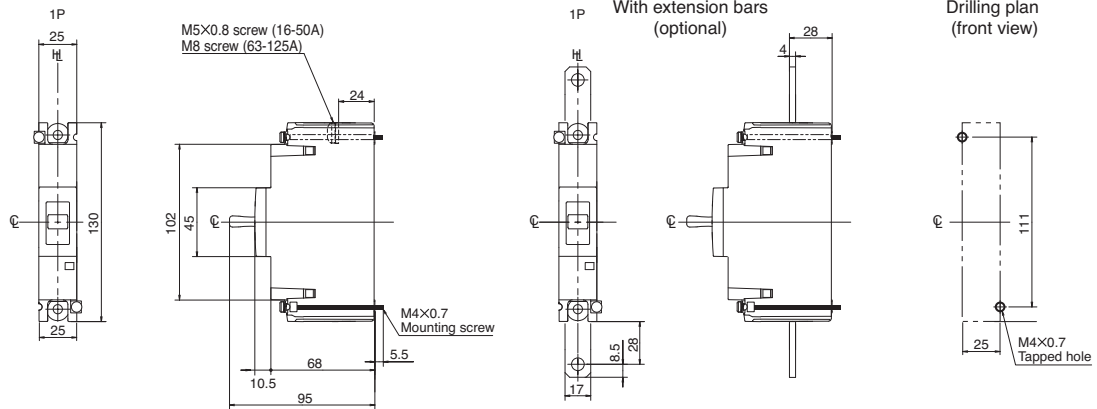
② 14,000 ≤125A

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Outline Dimensions: E160-SF (1P)

ASL: Arrangement Standard Line H: Handle Frame Centre Line C: Handle Centre Line

Front connected

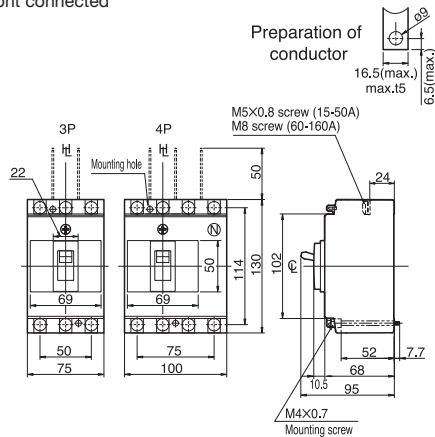


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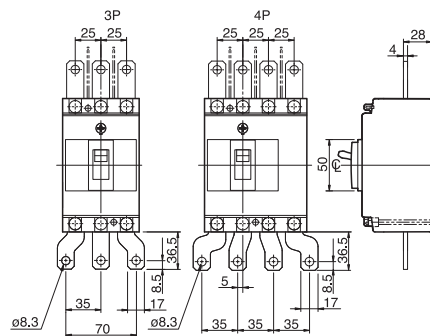
Outline Dimensions: E160-SF

ASL: Arrangement Standard Line H: Handle Frame Centre Line C: Handle Centre Line

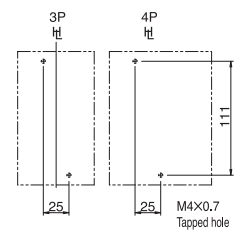
Front connected



With extension bars
(optional)



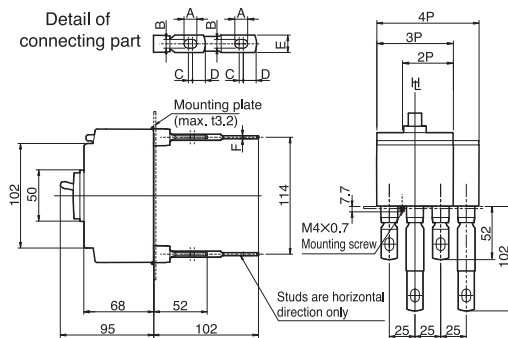
Drilling plan
(front view)



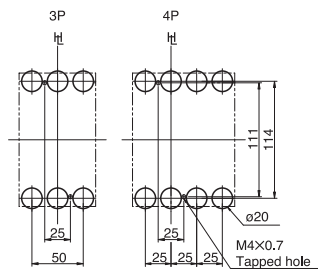
Note: For the extension bars, Straight bars or Spread bars can be supplied.
2 poles is straight bars only.

Rear connected

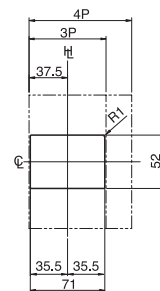
Detail of
connecting part



Drilling plan (front view)



Panel cutout (front view)



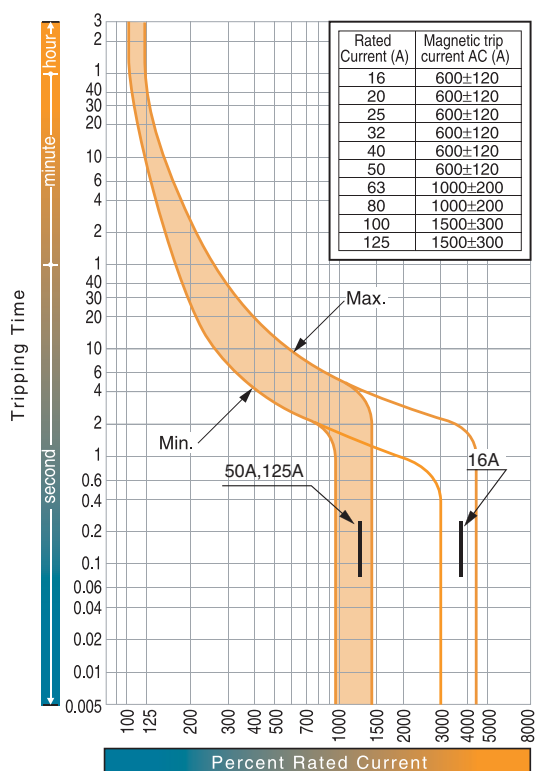
Rated current (A)	A	B	C	D	E	F
16-50	10.5	6.5	4	13	16	4
63-160	12.5	8.5	4	13	16	5

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

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Time/Current Characteristic Curves

E160-SF (Single Pole)



Time/Current Characteristic Curves

E160-SF

