

## DATA SHEET: TEMBREAK 2 E160-SF MCCB

Código Larce 1P: 0403001019 0403001020 0403001021 0403001022 0403001023  
0403001024 0403001025 0403001026 0403001027 0403001028

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                        | $U_e$      | (V)              | AC 50/60 Hz<br>DC | 240<br>-                        | 525<br>250                          |
| Rated insulation voltage                         | $U_i$      | (V)              |                   | 690                             | 690                                 |
| Rated impulse withstand voltage                  | $U_{imp}$  | (kV)             |                   | 8                               | 8                                   |
| Ultimate breaking capacity<br>(IEC, JIS, AS/NZS) | $I_{cu}$   | (kA)             | 690V AC           | -                               | -                                   |
|                                                  |            |                  | 525V AC           | -                               | 6                                   |
|                                                  |            |                  | 440V AC           | -                               | 10                                  |
|                                                  |            |                  | 400/415V AC       | -                               | 16                                  |
|                                                  |            |                  | 220/240V AC       | 25                              | 25                                  |
|                                                  |            |                  | 250V DC           | -                               | 13                                  |
| Service breaking capacity<br>(IEC, JIS, AS/NZS)  | $I_{cs}$   | (kA)             | 690V AC           | -                               | -                                   |
|                                                  |            |                  | 525V AC           | -                               | 3                                   |
|                                                  |            |                  | 440V AC           | -                               | 5                                   |
|                                                  |            |                  | 400/415V AC       | -                               | 8                                   |
|                                                  |            |                  | 220/240V AC       | 13                              | 13                                  |
|                                                  |            |                  | 250V DC           | -                               | 7                                   |
| Rated breaking capacity (NEMA)                   |            | (kA)             | 480V AC<br>240VAC | -<br>25                         | 6<br>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     | (kg)             | 3 pole, (1 pole)  | (0.3)                           | 0.8                                 |
|                                                  |            |                  | 4 pole            | -                               | 1.0                                 |
| Weight                                           |            |                  |                   |                                 |                                     |
| Operation                                        |            |                  |                   |                                 |                                     |
| Direct Opening Action                            |            |                  |                   | ■                               | ■                                   |
| Toggle operation                                 |            |                  |                   | ■                               | ■                                   |
| Door mounted (HS) / Breaker mounted handle (HB)  |            |                  |                   | -                               | ●                                   |
| Motor operation                                  |            |                  |                   | -                               | -                                   |
| Endurance                                        | Electrical | cycles<br>cycles | 415V AC           | 10,000<br>20,000                | 10,000②<br>20,000                   |

■ Standard    ● Optional    - Not Available

① Factory-fit at time of order

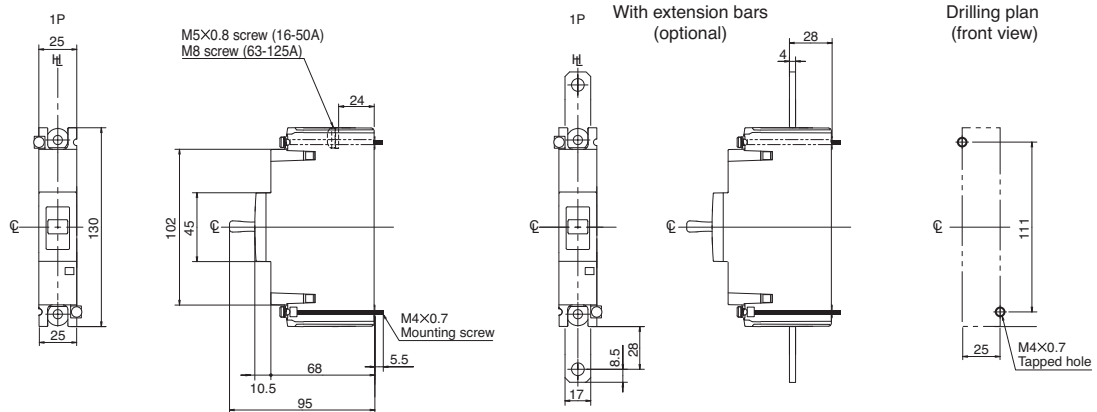
② 14,000 ≤125A

## DATA SHEET: TEMBREAK 2 E160-SF MCCB

### Outline Dimensions: E160-SF (1P)

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

Front connected

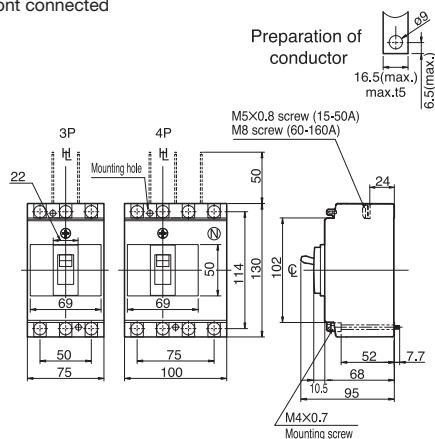


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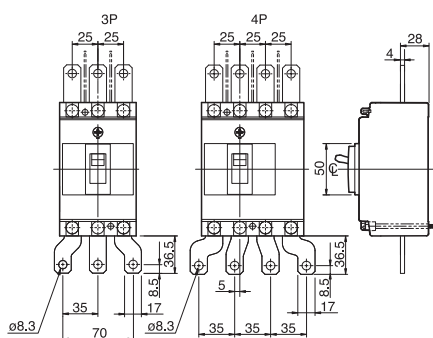
### Outline Dimensions: E160-SF

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

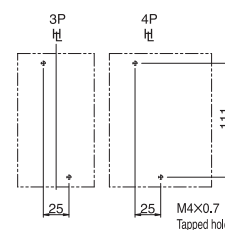
Front connected



With extension bars  
(optional)



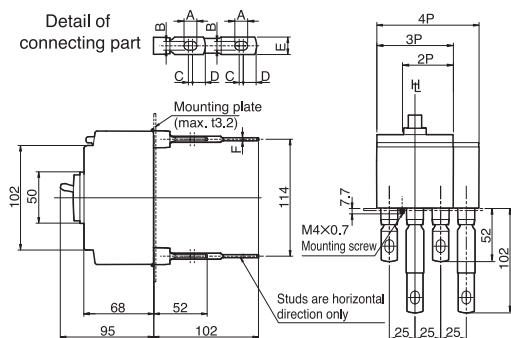
Drilling plan  
(front view)



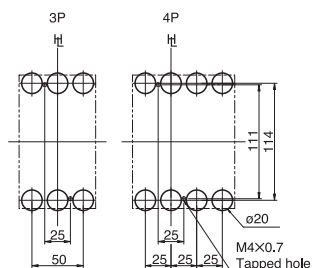
Note: For the extension bars, Straight bars or Spread bars can be supplied.  
2 poles is straight bars only.

Rear connected

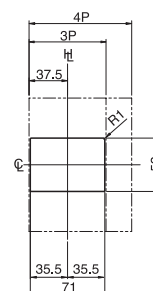
Detail of  
connecting part



Drilling plan (front view)



Panel cutout (front view)



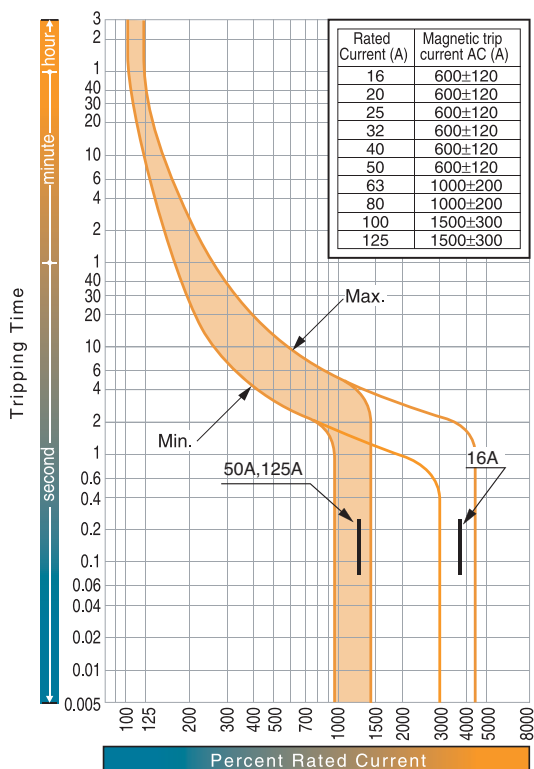
| Rated current (A) | A    | B   | C | D  | E  | F |
|-------------------|------|-----|---|----|----|---|
| 16-50             | 10.5 | 6.5 | 4 | 13 | 16 | 4 |
| 63-160            | 12.5 | 8.5 | 4 | 13 | 16 | 5 |

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

## DATA SHEET: TEMBREAK 2 E160-SF MCCB

### Time/Current Characteristic Curves

E160-SF (Single Pole)



### Time/Current Characteristic Curves

E160-SF

