

# DATA SHEET: TEMBREAK 2 S250-GE 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 S/H/L 250                          |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------|------------------------------------------------------------------------|----------------------------------------|
| Max In (A) of Frame                                                                                                                            |                          |                  |                                                                        | 250                                    |
| Model                                                                                                                                          |                          |                  |                                                                        | S250                                   |
| Number of Poles                                                                                                                                |                          |                  |                                                                        | 3,4                                    |
| Type                                                                                                                                           |                          |                  |                                                                        | GE                                     |
| Nominal current ratings                                                                                                                        |                          |                  |                                                                        |                                        |
|                                                                                                                                                | $I_n$                    | (A)              | 50°C                                                                   | 40<br>125<br>160<br>250                |
| Electrical characteristics                                                                                                                     |                          |                  |                                                                        |                                        |
| Rated operational voltage                                                                                                                      | $U_e$                    | (A)              | AC 50/60 Hz<br>DC                                                      | 690<br>-                               |
| Rated insulation voltage                                                                                                                       | $U_i$                    | (V)              |                                                                        | 800                                    |
| Rated impulse withstand voltage                                                                                                                | $U_{imp}$                | (kV)             |                                                                        | 8                                      |
| Ultimate breaking capacity<br>(IEC, JIS, AS/NZS)                                                                                               | $I_{cu}$                 | (kA)             | 690V AC<br>525V AC<br>440V AC<br>400/415V AC<br>220/240V AC<br>250V DC | 7.5<br>25<br>50<br>65<br>85<br>-       |
| Service breaking capacity<br>(IEC, JIS, AS/NZS)                                                                                                | $I_{cs}$                 | (kA)             | 690V AC<br>525V AC<br>440V AC<br>400/415V AC<br>220/240V AC<br>250V DC | 7.5<br>25<br>25<br>36<br>85<br>-       |
| Rated breaking capacity (NEMA)                                                                                                                 |                          | (kA)             | 480V AC<br>240V AC                                                     | 25<br>65                               |
| Protection                                                                                                                                     |                          |                  |                                                                        |                                        |
| Adjustable thermal, adjustable magnetic<br>Fixed thermal, fixed magnetic<br>Microprocessor<br>Utilisation category                             |                          |                  |                                                                        | ■<br>A                                 |
| Installation                                                                                                                                   |                          |                  |                                                                        |                                        |
| Front connection (FC)<br>Extension bar (FB)<br>Cable clamp (FW)<br>Rear connector (RC)<br>Plug-in (PM)<br>Din rail mounting (DA)<br>Dimensions | height<br>width          | (mm)<br>(mm)     | 3 pole, (1 pole)<br>4 pole                                             | ■<br>●<br>●<br>●<br>●<br>● * *<br>-    |
| Weight                                                                                                                                         | depth<br>weight          | (mm)<br>(kg)     | 3 pole, (1 pole)<br>4 pole                                             | 165<br>105<br>140<br>103<br>2.3<br>3.1 |
| Operation                                                                                                                                      |                          |                  |                                                                        |                                        |
| Direct Opening Action<br>Toggle operation<br>Door mounted (HS) / breaker mounted handle (HB)<br>Motor operation (MC)                           |                          |                  |                                                                        | ■<br>■<br>●<br>●                       |
| Endurance                                                                                                                                      | Electrical<br>Mechanical | cycles<br>cycles | 415V AC                                                                | 30,000<br>30,000                       |

■ Standard ● Optional - Not Available

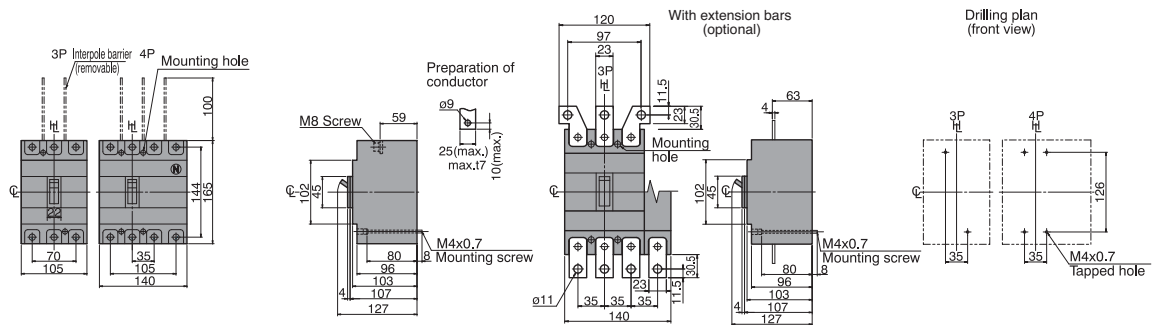
\* \* Max. rating 200A for Plug-in

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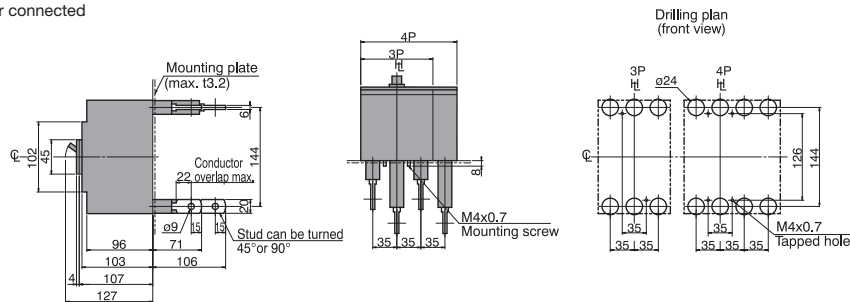
## Outline Dimensions S250-GE

ASL: Arrangement Standard Line H<sub>L</sub>: Handle Frame Centre Line

Front connected



## Rear connected



Panel cutout (front view)

3P

4P

52.5

52.5

53.5

53.5

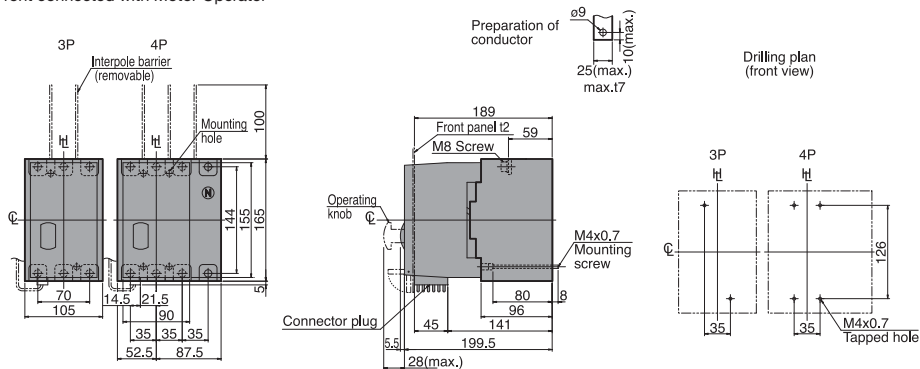
107

142

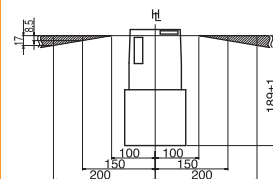
48

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

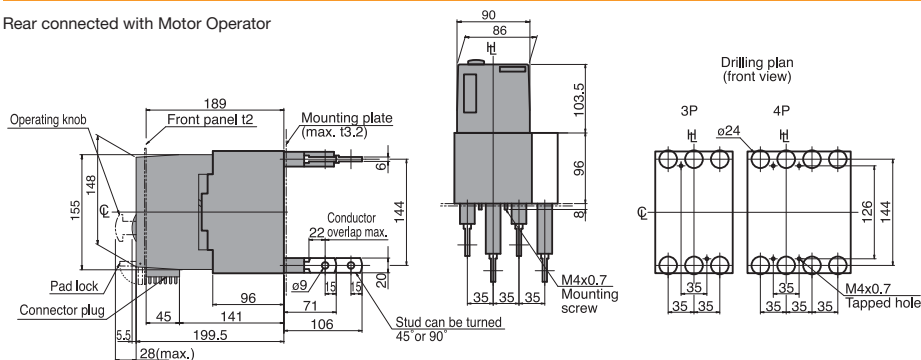
### Front connected with Motor Operator



Panel hinge position (hatching area)  
bottom view



### Rear connected with Motor Operator



Panel cutout (front view)

Technical drawing showing the front view of a panel cutout. The overall dimensions are 4P (width) and 155 (height). The cutout dimensions are 3P (width) and H (height). The cutout is positioned 45 units from the bottom and 90 units from the right edge. A handle cutout is shown within the panel, with a width of 45 units and a height of 90 units. The handle cutout is positioned 45 units from the bottom and 90 units from the right edge. The drawing includes a 1.5mm allowance around the handle cutout.

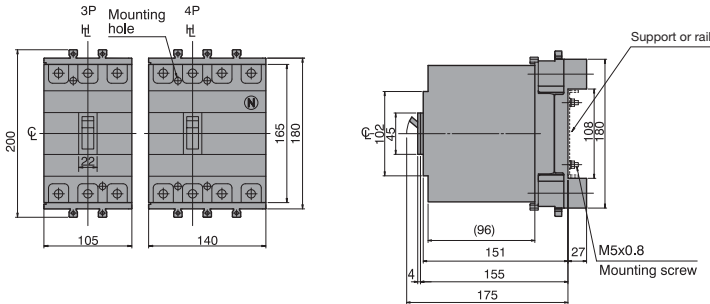
Panel cutout dimensions shown give an allowance of 1.5mm around the handle cutout.

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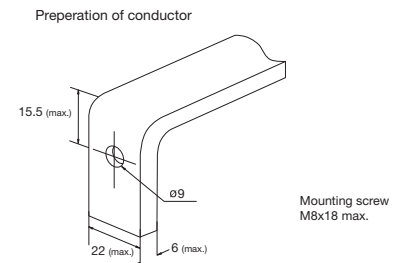
## Outline Dimensions S250-GE Plug-in Version

ASL: Arrangement Standard Line H: Handle Frame Centre Line

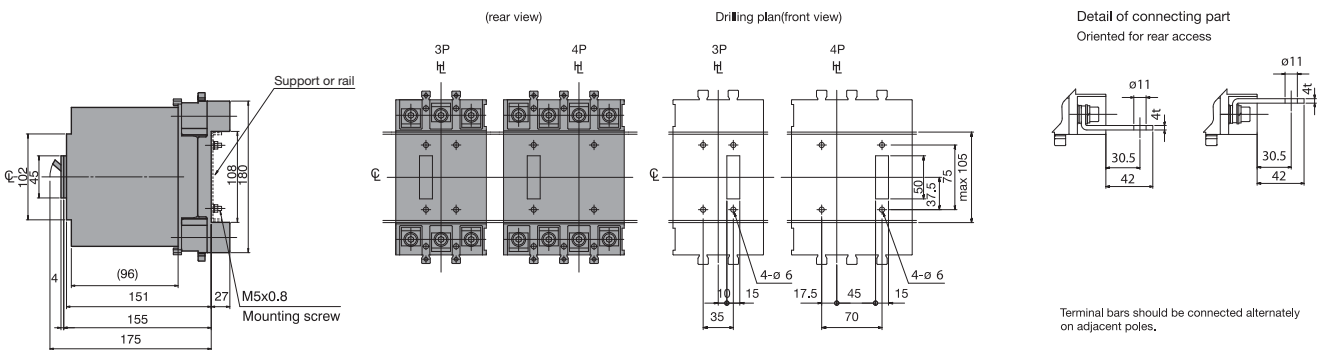
## Outline Dimensions



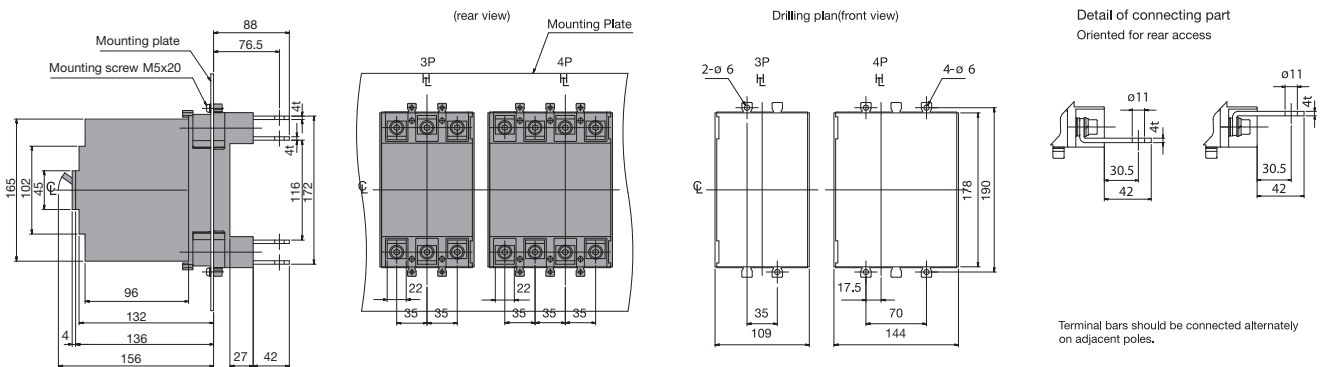
### Termination of Busbar



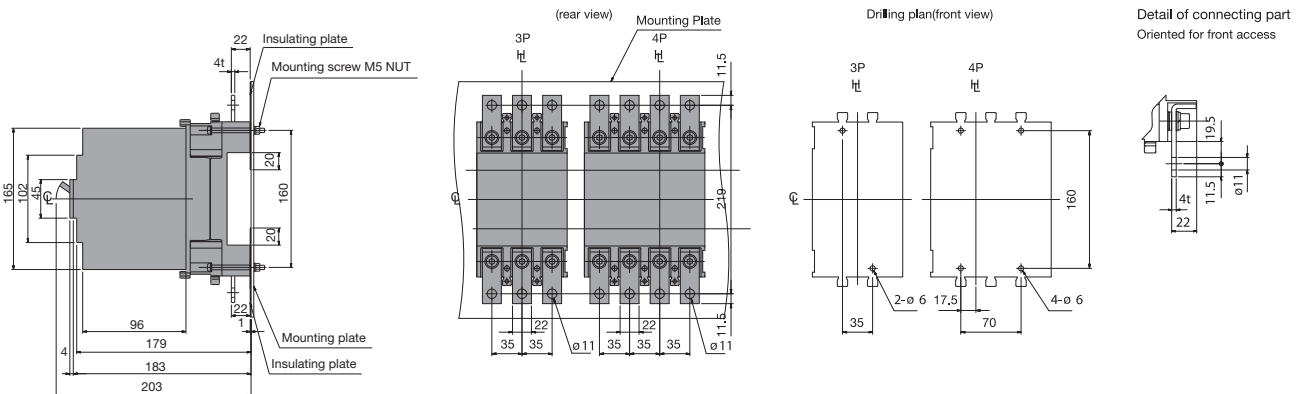
**Mounting on a support or rails** (shown with optional connection bars oriented for rear access)



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



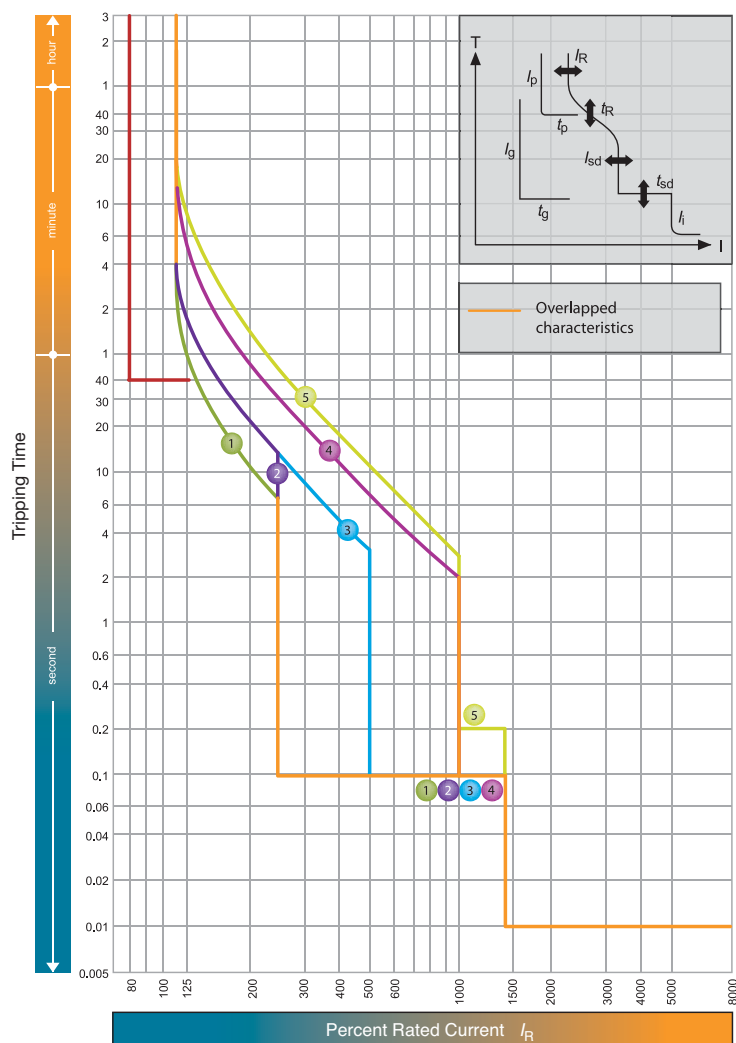
**Mounting on the backplate** (optional connection bars must be oriented for front access)



# DATA SHEET: TEMBREAK 2 S250-GE MCCB

## Time/Current Characteristic Curves

S250-GE



$I_n = 250A; 160A; 125A; 40A$  Note(1)

|          |      | $I_R$ (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   |      |     |
| Standard | LT   | $t_R$               | (s)     | 11                            | 21  | 21  | 5               | 7.5 |     |      |     |
|          | ST   | $I_{sd}$            | $x/I_R$ | at 200% x $I_R$               |     |     | at 600% x $I_R$ |     |     |      |     |
|          |      | $t_{sd}$            | (s)     | 2.5                           | 5   | 10  | 0.2             |     |     |      |     |
|          | INST | $I_i$               | $x/I_R$ | 14(Max: 13 x $I_n$ ) Note (2) |     |     |                 |     |     |      |     |
| Option   | PTA  | $I_p$               | $x/I_R$ | 0.8                           |     |     |                 |     |     |      |     |
|          |      | $t_p$               | (s)     | 40                            |     |     |                 |     |     |      |     |
|          | NP   | $I_N$               | $x/I_R$ | 1.0 Note (3)                  |     |     |                 |     |     |      |     |
|          |      | $t_N$               | (s)     | $t_N = t_R$                   |     |     |                 |     |     |      |     |

Note

(1) For Plug-in (PM), max. setting for  $I_R$  should be less than 225A. When  $I_n=250A$ ,  $I_R$  should be  $I_n \times 0.9$  or less.

(2)  $I_i$  max. = 13 x  $I_n$ . (3) Characteristic of neutral protection ( $t_N$  vs.  $I_N$ ) is identical to characteristic of phase protection ( $t_R$  vs.  $I_R$ ).