

# DATA SHEET: TEMBREAK 2 S1250-SE 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

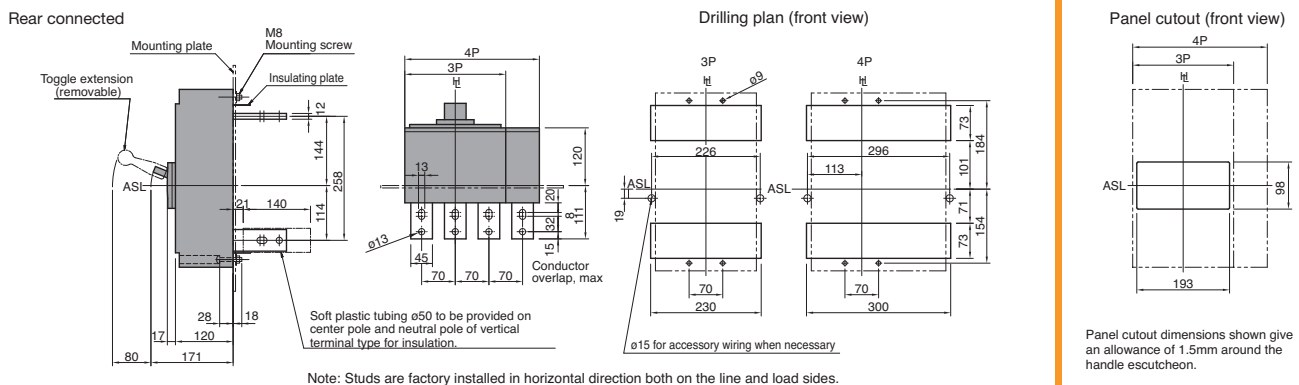
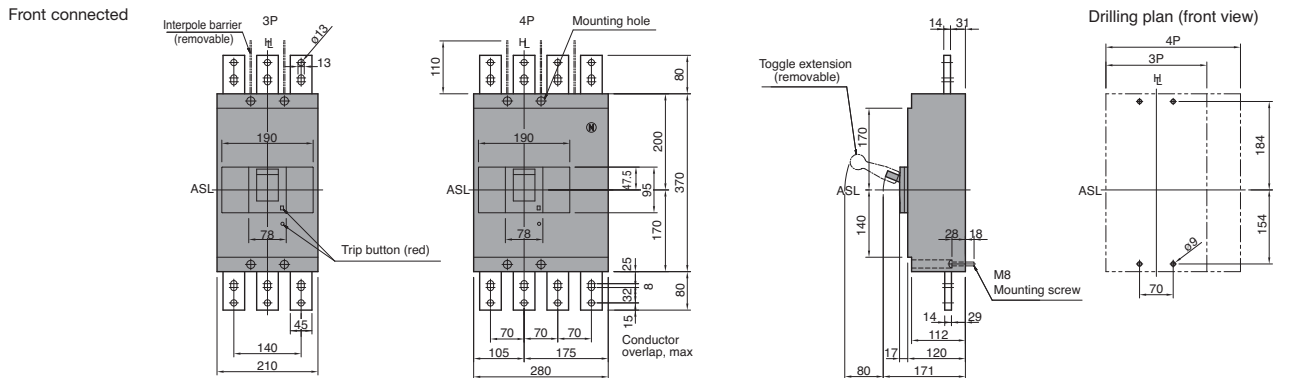
| Frame reference                                 | Quantity                 | Unit             | Condition                                                              | TB2 1250                                     |
|-------------------------------------------------|--------------------------|------------------|------------------------------------------------------------------------|----------------------------------------------|
| Max In (A) of Frame                             |                          |                  |                                                                        | 1250                                         |
| Model                                           |                          |                  |                                                                        | S1250                                        |
| Number of Poles                                 |                          |                  |                                                                        | 3, 4                                         |
| Type                                            |                          |                  |                                                                        | SE                                           |
| Nominal current ratings                         |                          |                  |                                                                        |                                              |
|                                                 | $I_n$                    | (A)              | 50°C                                                                   | 1250                                         |
| Electrical characteristics                      |                          |                  |                                                                        |                                              |
| Rated operational voltage                       | $U_e$                    | (V)              | 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 (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 | 20 <sup>①</sup><br>30<br>45<br>50<br>85<br>- |
| Service breaking capacity (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 | 15 <sup>①</sup><br>23<br>34<br>38<br>65<br>- |
| Rated breaking capacity (NEMA)                  |                          | (kA)             | 480V AC<br>240V AC                                                     | 30<br>85                                     |
| Rated short-time withstand current              | $I_{cw}$                 | (kA)             | 0.3 Seconds                                                            | 15                                           |
| Protection                                      |                          |                  |                                                                        |                                              |
| Adjustable thermal, adjustable magnetic         |                          |                  |                                                                        | ■                                            |
| Fixed thermal, fixed magnetic                   |                          |                  |                                                                        |                                              |
| Microprocessor                                  |                          |                  |                                                                        | ■                                            |
| Utilisation category                            |                          |                  |                                                                        | B                                            |
| Installation                                    |                          |                  |                                                                        |                                              |
| Front connection (FC)                           |                          |                  |                                                                        | -                                            |
| Extension bar (FB)                              |                          |                  |                                                                        | ■                                            |
| Cable clamp (FW)                                |                          |                  |                                                                        | -                                            |
| Rear connection (RC)                            |                          |                  |                                                                        | •                                            |
| Plug-in (PM)                                    |                          |                  |                                                                        | •                                            |
| DIN rail mounting (DA)                          |                          |                  |                                                                        | -                                            |
| Dimensions                                      | height                   | (mm)             |                                                                        | 370                                          |
|                                                 | width                    | (mm)             | 3 pole<br>4 pole                                                       | 210<br>280                                   |
|                                                 | depth                    | (mm)             |                                                                        | 120                                          |
| Weight                                          | weight                   | (kg)             | 3 pole<br>4 pole                                                       | 19.8<br>25.0                                 |
| Operation                                       |                          |                  |                                                                        |                                              |
| Direct Opening Action                           |                          |                  |                                                                        | ■                                            |
| Toggle operation                                |                          |                  |                                                                        | ■                                            |
| Door mounted (HS) / Breaker mounted handle (HB) |                          |                  |                                                                        | •                                            |
| Motor operation (MC)                            |                          |                  |                                                                        | •                                            |
| Endurance                                       | Electrical<br>Mechanical | cycles<br>cycles | 690V AC                                                                | 4,000<br>5,000                               |

① MCCB cannot be used in IT systems at this voltage

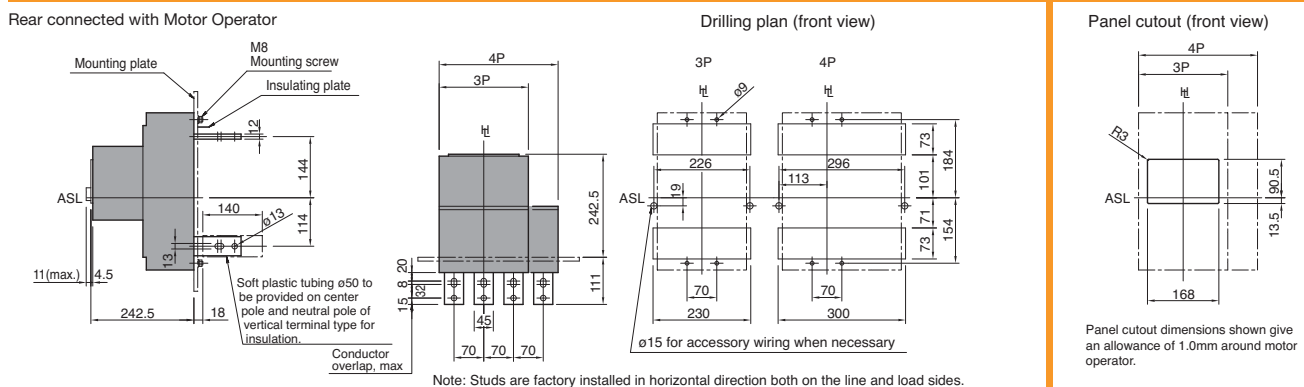
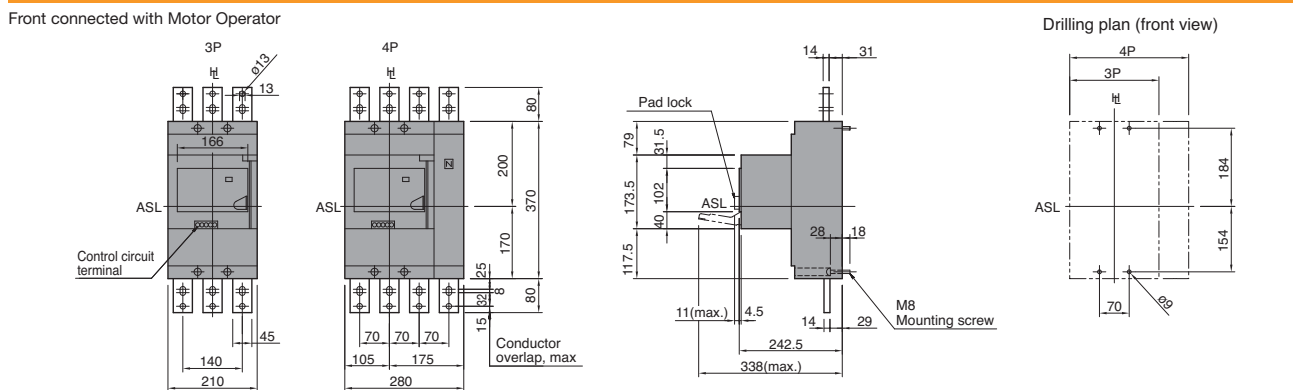
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## Outline Dimensions S1250-SE

ASL: Arrangement Standard Line H: Handle Frame Centre Line



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



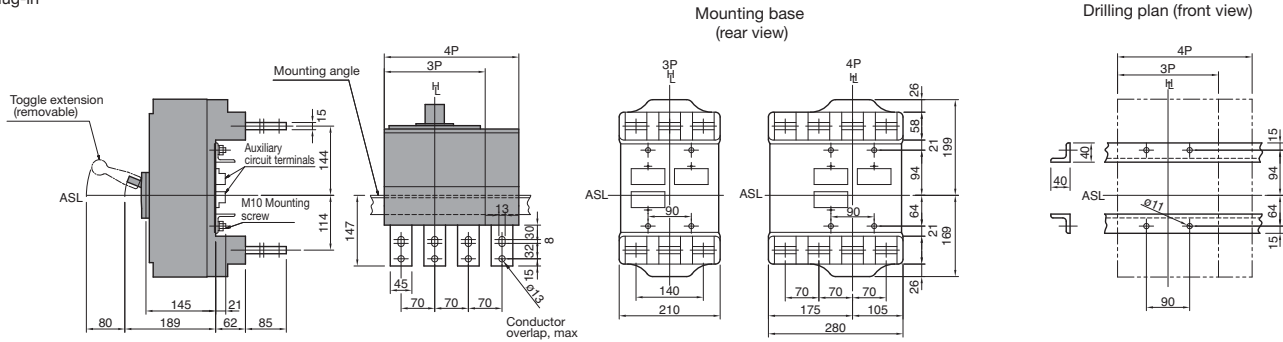
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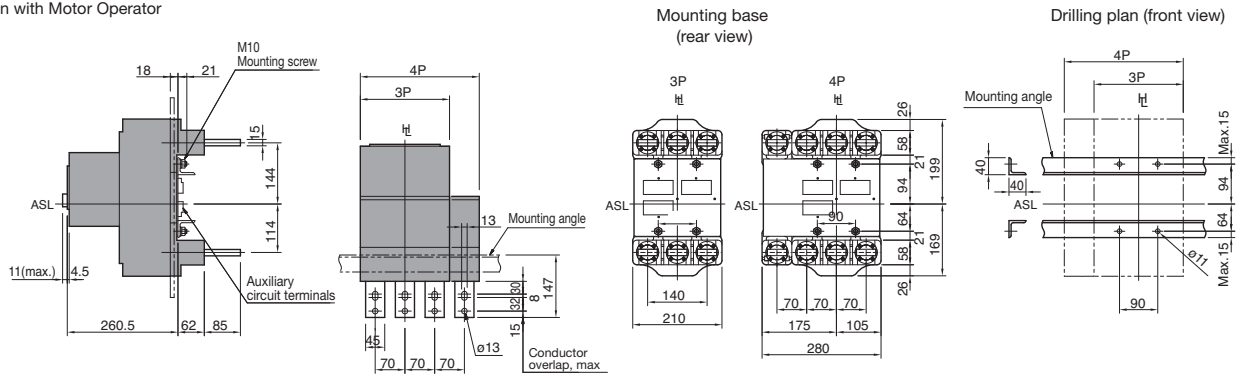
### Outline Dimensions S1250-SE Plug in Version

ASL: Arrangement Standard Line H: Handle Frame Centre Line

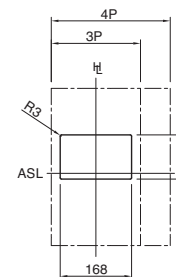
#### Plug-in



#### Plug-in with Motor Operator



#### Panel cutout (front view)

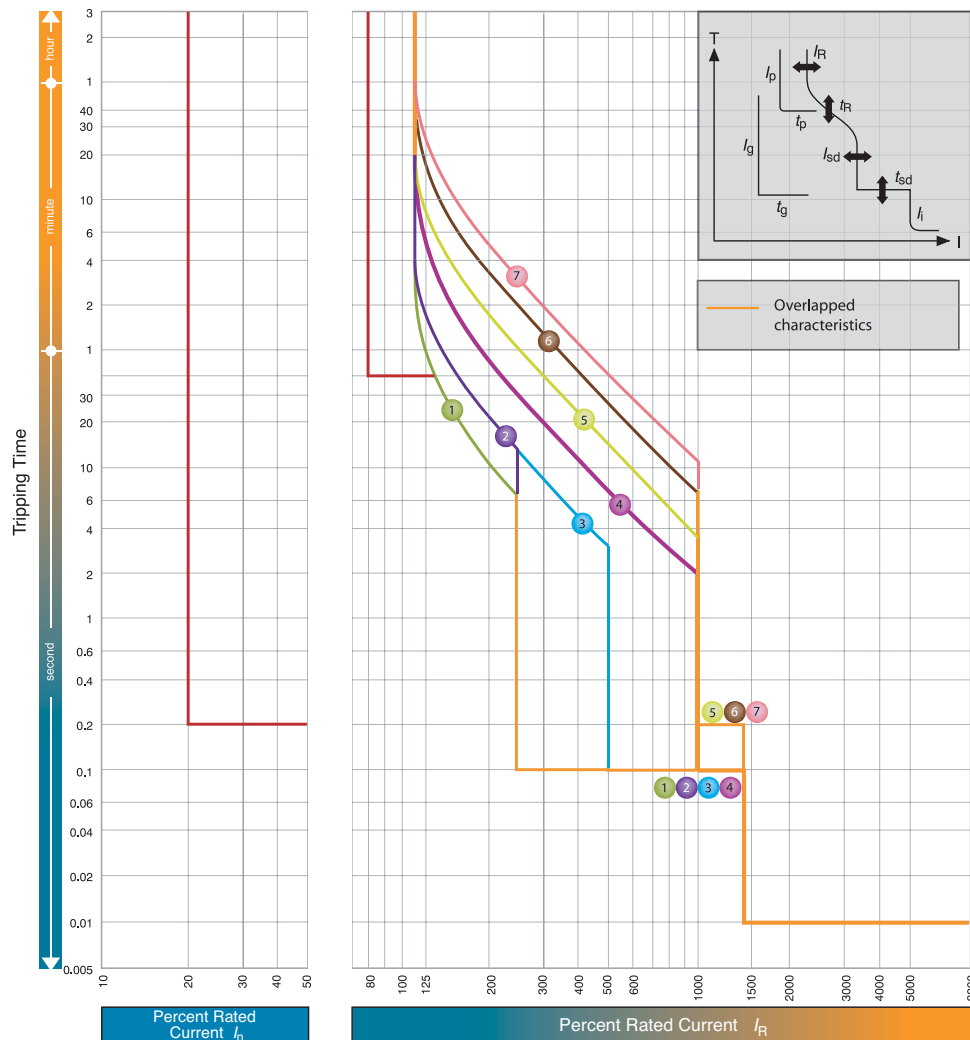


Panel cutout dimensions shown give an allowance of 1.0mm around motor operator.

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### Time/Current Characteristic Curves

S1250-SE



$$I_n = 1250A$$

|          |               | $I_R$ (A)           |                               |                 |     |     |                 |     |     |      |     |    |
|----------|---------------|---------------------|-------------------------------|-----------------|-----|-----|-----------------|-----|-----|------|-----|----|
|          |               | LTD Pick-up current | $I_R$                         | $x/I_n$         | 0.4 | 0.5 | 0.63            | 0.8 | 0.9 | 0.95 | 1.0 |    |
|          |               | Characteristics     |                               | No.             | 1   | 2   | 3               | 4   | 5   | 6    | 7   |    |
| Standard | LT            | $t_R$               | (s)                           | 11              |     |     | 21              | 21  | 5   | 10   | 19  | 29 |
|          |               |                     |                               | at 200% x $I_R$ |     |     | at 600% x $I_R$ |     |     |      |     |    |
|          | ST            | $I_{sd}$            | $x/I_R$                       | 2.5             |     | 5   | 10              |     |     |      |     |    |
|          |               |                     |                               | $t_{sd}$        | (s) | 0.1 |                 |     |     |      | 0.2 |    |
| INST     | $I_i$         | $x/I_R$             | 14(Max: 12 x $I_n$ ) Note (1) |                 |     |     |                 |     |     |      |     |    |
| Option   | PTA           | $I_p$               | $x/I_R$                       | 0.8             |     |     |                 |     |     |      |     |    |
|          |               | $t_p$               | (s)                           | 40              |     |     |                 |     |     |      |     |    |
|          | GF<br>Note(3) | $I_g$               | $x/I_n$                       | 0.2             |     |     |                 |     |     |      |     |    |
|          |               | $t_g$               | (s)                           | 0.2             |     |     |                 |     |     |      |     |    |
|          | NP            | $I_N$               | $x/I_R$                       | 1.0/0.5 Note(2) |     |     |                 |     |     |      |     |    |
|          |               | $t_N$               | (s)                           | $t_N=t_R$       |     |     |                 |     |     |      |     |    |

Note

(1)  $I_i$  max. =  $12 \times I_n$ . (2)  $1.0 \times I_R$  or  $0.5 \times I_R$  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.

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