

DATA SHEET: TEMBREAK 2 S1250-GE MCCB

MCCB Electrical Characteristics to IEC 60947-2, EN60947-2, JIS C 8201-2-1 ANN. 1, AS/NZS 3947-2, NEMA A B-1

| Frame reference | Quantity | Unit | Condition | TB2 1250 |
|--|--------------------------|------------------|-------------------|---------------------|
| Max In (A) of Frame | | | | 1250 |
| Model | | | | S1250 |
| Number of Poles | | | | 3, 4 |
| Type | | | | GE |
| Nominal current ratings | | | | |
| | I_n | (A) | 50°C | 1250 |
| 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 | 45 ^③ |
| | | | 525V AC | 65 |
| | | | 440V AC | 85 |
| | | | 400/415V AC | 100/85 ^① |
| | | | 220/240V AC | 125 |
| | | | 250V DC | - |
| Service breaking capacity (IEC, JIS, AS/NZS) | I_{cs} | (kA) | 690V AC | 34 ^③ |
| | | | 525V AC | 50 |
| | | | 440V AC | 65 |
| | | | 400/415V AC | 75/65 ^② |
| | | | 220/240V AC | 94 |
| | | | 250V DC | - |
| Rated breaking capacity (NEMA) | | (kA) | 480V AC | 65 |
| | | | 240V AC | 125 |
| 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 | 210 |
| | | | 4 pole | 280 |
| | depth | (mm) | | 120 |
| Weight | weight | (kg) | 3 pole | 19.8 |
| | | | 4 pole | 25.0 |
| 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 |
| | | | | 5,000 |

① 100KA at 400V

② 75KA at 400V

③ MCCB cannot be used in IT systems at this voltage

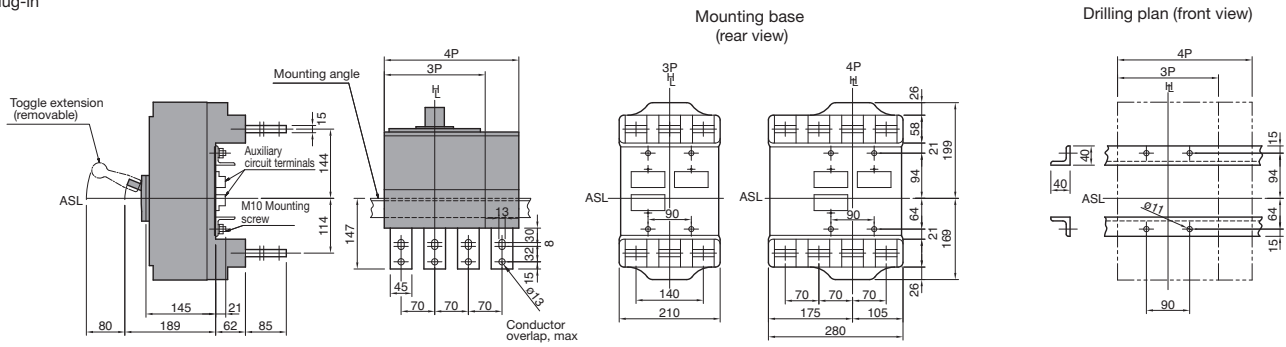
■ Standard ● Optional - Not Available

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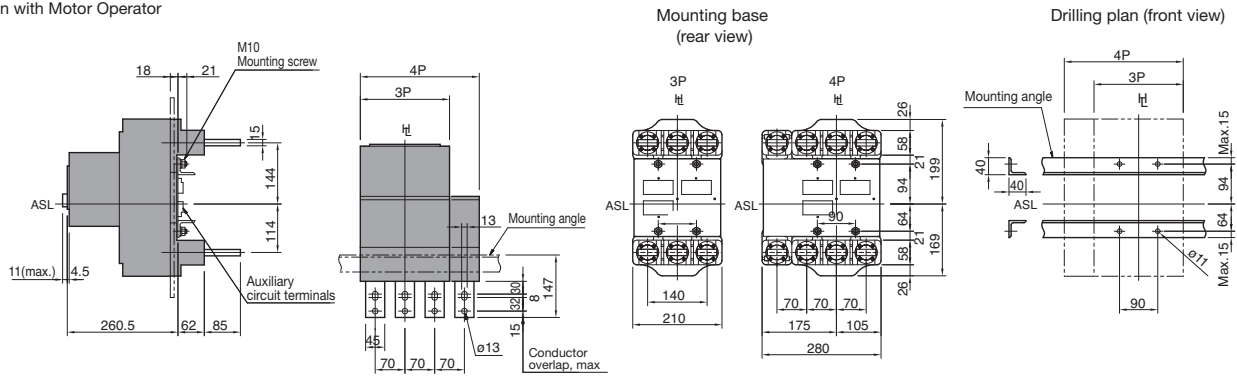
Outline Dimensions S1250-GE Plug in Version

ASL: Arrangement Standard Line \overline{H} : Handle Frame Centre Line

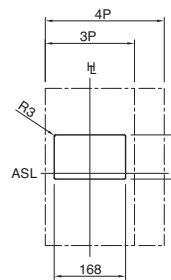
Plug-in



Plug-in with Motor Operator



Panel cutout (front view)

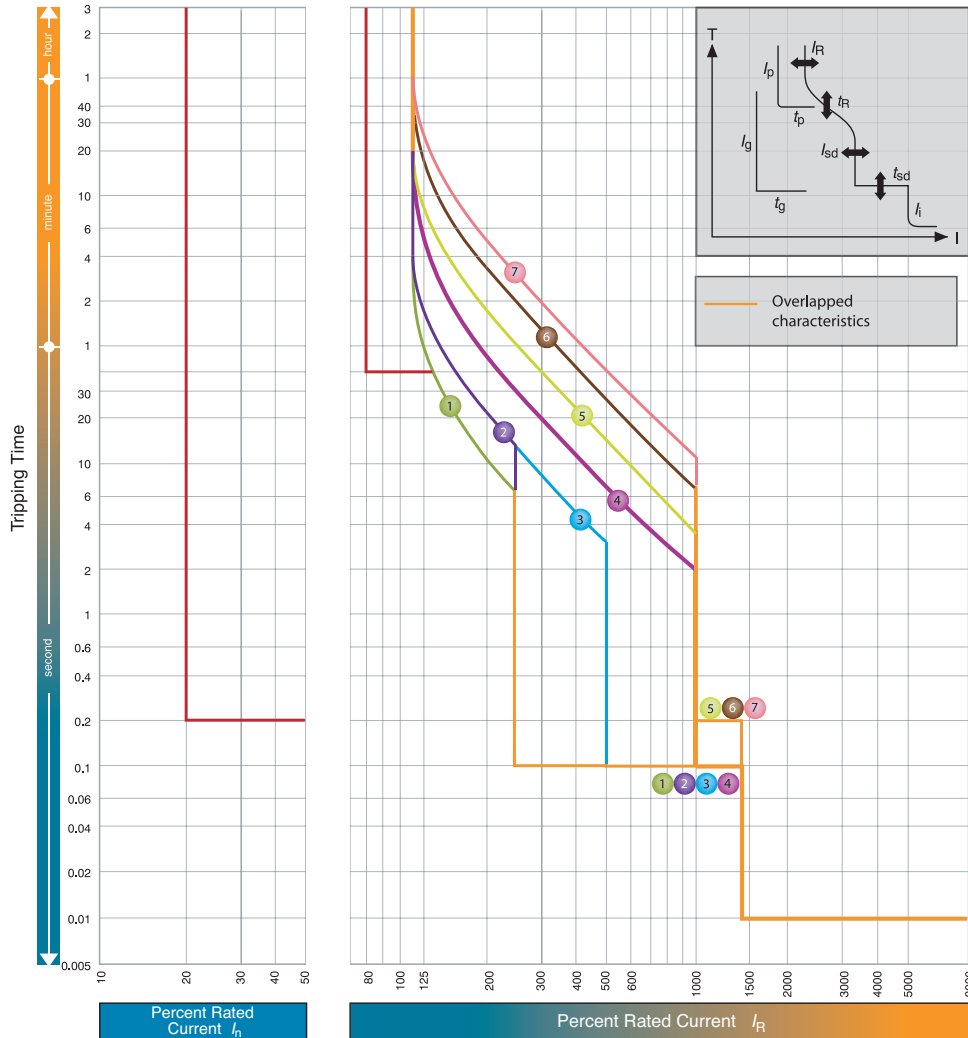


Panel cutout dimensions shown give an allowance of 1.0mm around motor operator.

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Time/Current Characteristic Curves

S1250-GE



$I_n = 1250A$

| | | 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 |
| Standard | LT | t_R | (s) | | 11 | 21 | 21 | 5 | 10 | 19 | 29 |
| | ST | I_{sd} | x/I_R | | 2.5 | | | 5 | | | |
| | | t_{sd} | (s) | | 0.1 | | | | 10 | | |
| | INST | I_i | x/I_n | | 14(Max: $12 \times I_n$) Note (1) | | | | | | |
| Option | PTA | I_p | x/I_R | | 0.8 | | | | | | |
| | | t_p | (s) | | 40 | | | | | | |
| | GF 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.