

DATA SHEET: TEMBREAK 2 S630-GE MCCB

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 E/S 630 |
|--|--------------------------|------------------|----------------------------|---|
| Max In (A) of Frame | | | | 630 |
| Model Number of Poles Type | | | | S630 3, 4 GE |
| Nominal current ratings | In | (A) | 50°C | 630 |
| Electrical characteristics | | | | |
| Rated operational voltage | U _e | (A) | AC 50/60 Hz DC | 690 ① - |
| 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 | 20 ① |
| | | | 525V AC | 30 |
| | | | 440V AC | 65 |
| | | | 400/415V AC | 70 |
| | | | 220/240V AC 250V DC | 100 - |
| Service breaking capacity (IEC, JIS, AS/NZS) | I _{cs} | (kA) | 690V AC | 15 ① |
| | | | 525V AC | 30 |
| | | | 440V AC | 50 |
| | | | 400/415V AC | 50 |
| | | | 220/240V AC 250V DC | 85 - |
| Rated breaking capacity (NEMA) | | (kA) | 480V AC 240V AC | 30 100 |
| Protection | | | | |
| Adjustable thermal, adjustable magnetic Fixed thermal, fixed magnetic Microprocessor Utilisation category | | | | ■ A |
| Installation | | | | |
| Front connection (FC) Extension bar (FB) Cable clamp (FW) Rear connecton (RC) Plug-in (PM) Din rail mounting (DA) Dimensions | height width | (mm) (mm) | 3 pole, (1 pole) 4 pole | ■ ● - ● ② - 260 140 185 |
| Weight | depth weight | (mm) (kg) | 3 pole, (1 pole) 4 pole | 103 5.0 6.5 |
| Operation | | | | |
| Direct Opening Action Toggle operation Door mounted (HS) / breaker mounted handle (HB) Motor operation (MC) | | | | ■ ■ ● ● |
| Endurance | Electrical Mechanical | cycles cycles | 415V AC | 4,500 15,000 |

■ Standard ● Optional - Not Available

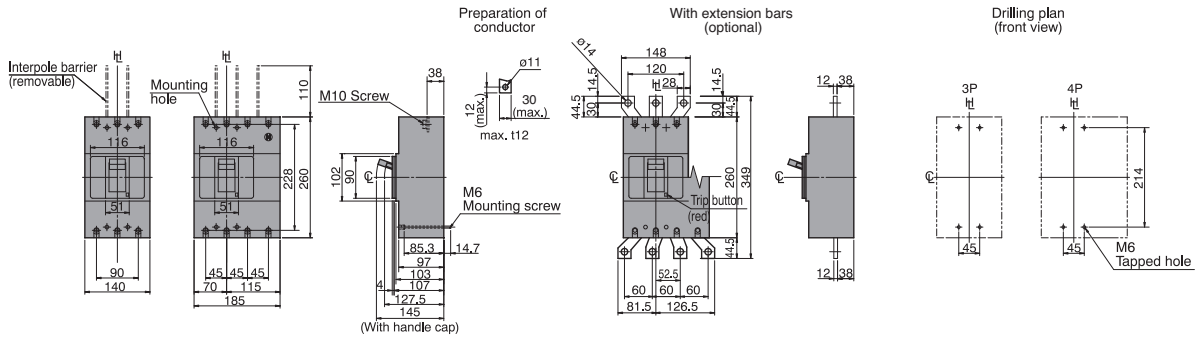
① MCCB cannot be used in IT systems at this voltage.
② Not fully rated at 50°C refer to Temperature Ratings

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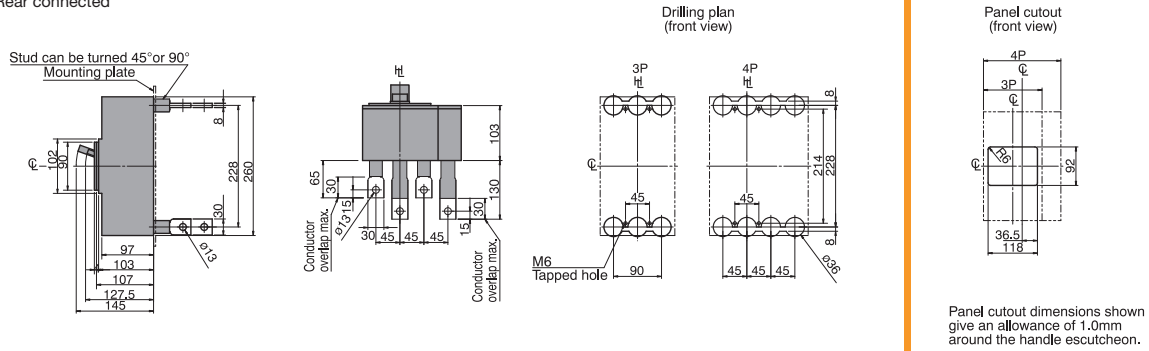
Outline Dimensions S630-GE

ASL: Arrangement Standard Line H_L: Handle Frame Centre Line

Front connected



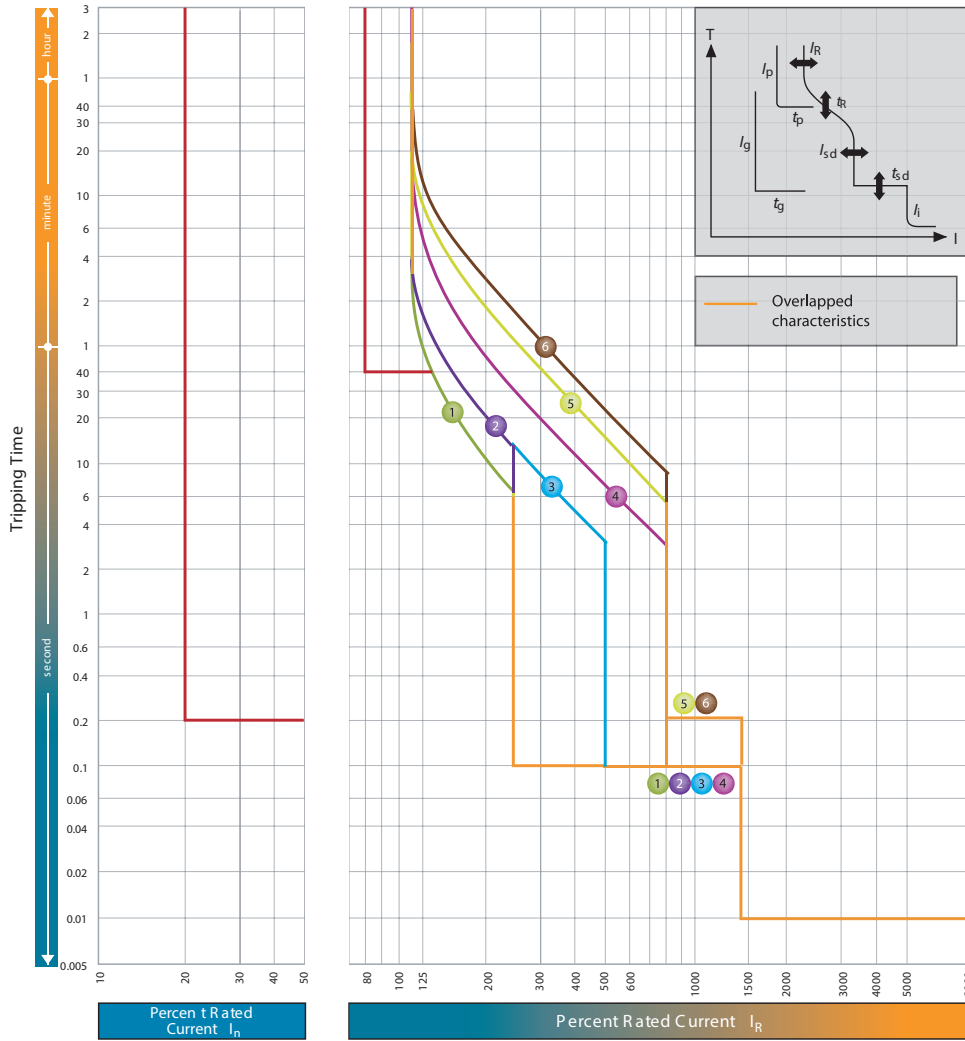
Rear connected



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Time/Current Characteristic Curves

S630-GE



$I_n = 630A$

| | | I_R (A) | | LTD Pick-up current $I_R \times I_n$ | | | | | | | |
|----------|---------------|-----------|--------------|--------------------------------------|-----|------|-------------|-----------------|-----|------|-----|
| | | I_R | $\times I_n$ | 0.4 | 0.5 | 0.63 | 0.8 | 0.85 | 0.9 | 0.95 | 1.0 |
| Standard | LT | t_R | (s) | 11 | 21 | 21 | 5 | 10 | 16 | | |
| | ST | I_{sd} | $\times I_R$ | 2.5 | | 5 | | 8 | | | |
| | | t_{sd} | (s) | 0.1 | | | | 0.2 | | | |
| | INST | I_i | $\times I_R$ | 14(Max: $10 \times I_n$) Note (1) | | | | | | | |
| Option | PTA | I_p | $\times I_R$ | | | | | 0.8 | | | |
| | | t_p | (s) | | | | | 40 | | | |
| | GF Note(3) | I_g | $\times I_n$ | | | | | 0.2 | | | |
| | | t_g | (s) | | | | | 0.2 | | | |
| | NP | I_N | $\times I_R$ | | | | | 1.0/0.5 Note(2) | | | |
| | t_N | (s) | | | | | $t_N = t_R$ | | | | |

Note

(1) I_i max. = $10 \times I_n$. (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. See terminal bl