

## GV4P25B

TeSys GV4 - thermal magnetic circuit breaker - 25A  
3P - with Everlink



### Main

|                                       |   |
|---------------------------------------|---|
| Range                                 | TeSys   |
| Product name                          | TeSys GV4   |
| Device short name                     | GV4P  |
| Product or component type             | Circuit breaker   |
| Device application                    | Motor   |
| Poles description                     | 3P  |
| Utilisation category                  | Category A  |
| Trip unit technology                  | Electronic<br>Thermal-magnetic  |
| Protection type                       | Ground fault protection<br>Short time short-circuit protection<br>Short-circuit<br>Overload<br>Phase unbalance<br>Phase loss  |
| Motor tripping class                  | 10<br>20  |
| [In] rated current                    | 25 A  |
| Breaking capacity                     | 35 kA at 208Y/120 V AC 50/60 Hz according to UL 60947<br>35 kA at 240 V AC 50/60 Hz according to UL 60947<br>18 kA at 480Y/277 V AC 50/60 Hz according to UL 60947<br>14 kA at 600Y/347 V AC 50/60 Hz according to UL 60947<br>[Icu] : 50 kA at 220...240 V AC 50/60 Hz according to IEC 60947-2<br>[Icu] : 25 kA at 380...415 V AC 50/60 Hz according to IEC 60947-2<br>[Icu] : 20 kA at 440 V AC 50/60 Hz according to IEC 60947-2<br>[Icu] : 10 kA at 500 V AC 50/60 Hz according to IEC 60947-2 |
| [Ics] rated service breaking capacity | 50 kA : at 220...240 V AC 50/60 Hz according to IEC 60947-2<br>25 kA : at 380...415 V AC 50/60 Hz according to IEC 60947-2<br>20 kA : at 440 V AC 50/60 Hz according to IEC 60947-2<br>10 kA : at 500 V AC 50/60 Hz according to IEC 60947-2  |
| Trip unit rating                      | 10...25 A   |
| Control type                          | Rotary handle   |

### Complementary

|                                |  |
|--------------------------------|--|
| [Ue] rated operational voltage | 690 V AC 50/60 Hz conforming to IEC 60947-2  |
| Motor power kW                 | 11 kW at 400...415 V AC 50/60 Hz<br>11 kW at 500 V AC 50/60 Hz<br>11 kW at 660...690 V AC 50/60 Hz<br>15 kW at 500 V AC 50/60 Hz<br>15 kW at 660...690 V AC 50/60 Hz<br>9 kW at 400...415 V AC 50/60 Hz<br>9 kW at 500 V AC 50/60 Hz<br>9 kW at 660...690 V AC 50/60 Hz<br>7.5 kW at 400...415 V AC 50/60 Hz<br>7.5 kW at 500 V AC 50/60 Hz<br>7.5 kW at 660...690 V AC 50/60 Hz |

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|  |  |
|--|--|
|  | 18.5 kW at 660...690 V AC 50/60 Hz<br>5.5 kW at 400...415 V AC 50/60 Hz  |
| [Uimp] rated impulse withstand voltage | 8 kV according to IEC 60947-2  |
| [Ui] rated insulation voltage          | 800 V conforming to IEC 60947-2  |
| Mounting mode                          | By clips<br>By screws  |
| Mounting support                       | 35 mm symmetrical DIN rail<br>75 mm symmetrical DIN rail<br>Plate  |
| Suitability for isolation              | Yes according to IEC 60947-1   |
| Mechanical durability                  | 40000 cycles   |
| Electrical durability                  | 40000 cycles for AC-3 at 440 V In/2<br>20000 cycles for AC-3 at 440 V In   |
| Local signalling                       | Green flag for presence of auxiliary contacts  |
| Number of slots                        | 1 slot(s) for alarm switch fault signalling contact (plug-in)<br>1 slot(s) for voltage release electrical remote tripping (plug-in)<br>1 slot(s) for auxiliary switch open/close contact (plug-in)   |
| Rotary handle padlocking               | Padlock in OFF or ON position  |
| Connection pitch                       | 27 mm  |
| Connections - terminals                | EverLink BTR screw connectors - location: top socket 1 cable(s) 1.5...70 mm <sup>2</sup> (solid)<br>EverLink BTR screw connectors - location: top socket 1 cable(s) 1.5...50 mm <sup>2</sup> (flexible)<br>EverLink BTR screw connectors - location: bottom socket 1 cable(s) 2.5...95 mm <sup>2</sup> (solid)<br>EverLink BTR screw connectors - location: bottom socket 1 cable(s) 2.5...70 mm <sup>2</sup> (flexible) |
| Tightening torque                      | 9 N.m for 16...95 mm <sup>2</sup><br>5 N.m for 1.5...10 mm <sup>2</sup>  |
| Wire stripping length                  | 20 mm  |
| Quality labels                         | CE   |
| Standards                              | EN/IEC 60947-2<br>EN/IEC 60947-4-1<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1   |
| Height                                 | 155 mm   |
| Width                                  | 81 mm  |
| Depth                                  | 165 mm   |
| Product weight                         | 1.6 kg   |
| Colour                                 | Grey (RAL 7016)  |

## Environment

|                                       |  |
|---------------------------------------|--|
| product certifications                | IEC  |
| tropicalisation                       | 2 according to IEC 68-2  |
| IP degree of protection               | IP40 (front face) according to IEC 60529   |
| IK degree of protection               | IK07 according to IEC 62262  |
| pollution degree                      | 3 according to IEC 60947-1   |
| mechanical robustness                 | Shocks 15 Gn for 11 ms according to IEC 60068-2-27<br>Vibrations +/- 1 mm for 2...13.2 Hz according to IEC 60068-2-6<br>Vibrations 0.7 gn for 13.2...100 Hz according to IEC 60068-2-6 |
| ambient air temperature for operation | -25...70 °C  |
| ambient air temperature for storage   | -50...85 °C  |
| operating altitude                    | 2000 m without derating<br>> 2000...5000 m with derating   |

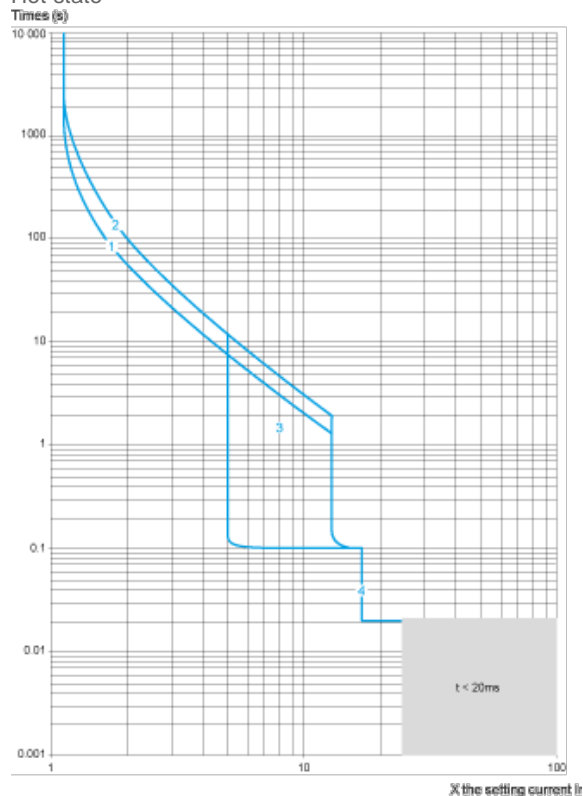
## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS (date code: YYWW)           | Compliant - since 1736 - Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                     |
| Product environmental profile    | Available   |
| Product end of life instructions | Available   |

## Thermal-Magnetic Tripping Curves for GV4P, GV4PE, GV4PEM

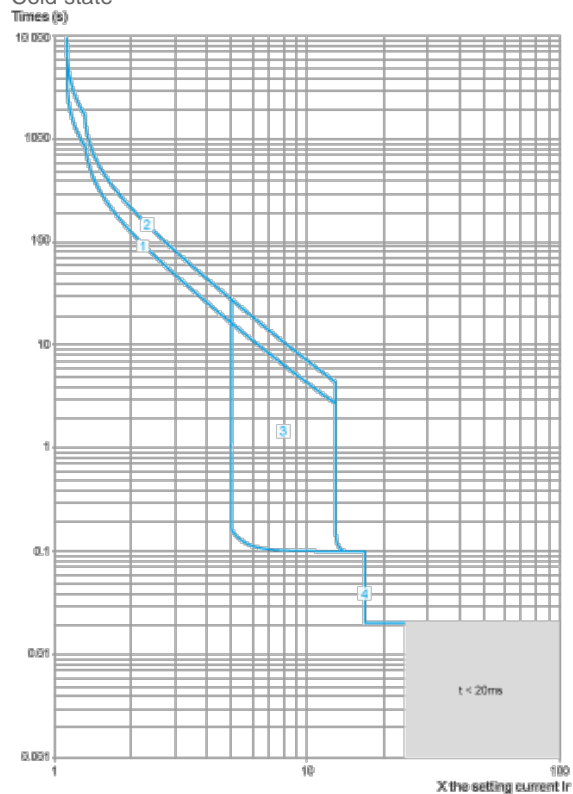
### Average Operating Times at 20 °C Related to Multiples of the Setting Current

Hot state



- 1 Class 10
- 2 Class 20
- 3  $I_{sd} = 5...13 \times I_r$
- 4  $I_i = 17 I_n$

Cold state

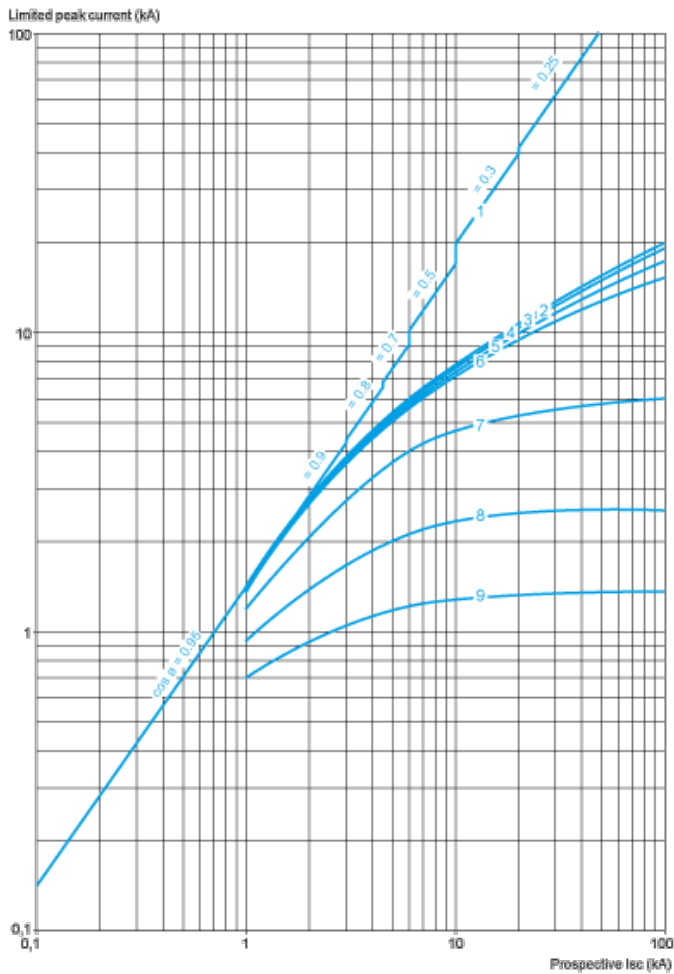


- 1 Class 10
- 2 Class 20
- 3  $I_{sd} = 5...13 \times I_r$

### Current Limitation on Short-Circuit for GV4P, GV4PE, GV4PEM (3-Phase 400/415 V)

#### Dynamic Stress

$I_{peak} = f$  (prospective  $I_{sc}$ ) at  $1.05 U_e = 435 V$

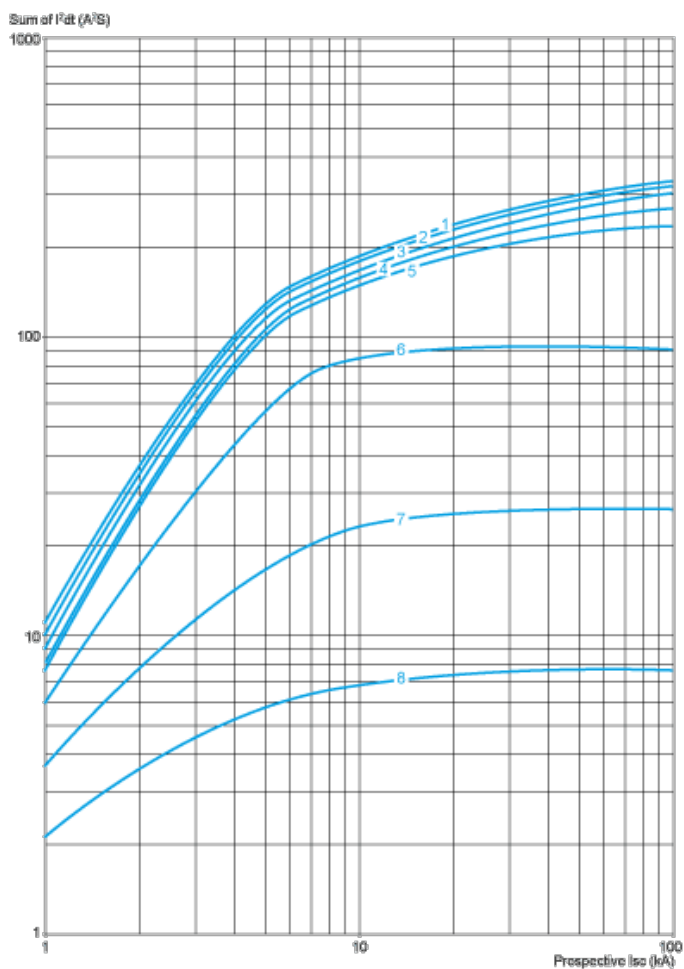


- 1 Maximum peak current
- 2 GV4P115
- 3 GV4P80
- 4 GV4P50
- 5 GV4P25
- 6 GV4P12
- 7 GV4P07
- 8 GV4P03
- 9 GV4P02

### Thermal Limit on Short-Circuit for GV4P, GV4PE, GV4PEM

#### Thermal Limit in $kA^2s$ in the Magnetic Operating Zone

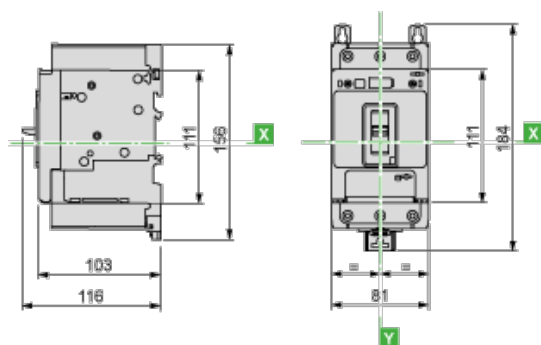
Sum of  $I^2dt = f$  (prospective  $I_{sc}$ ) at  $1.05 U_e = 435 V$



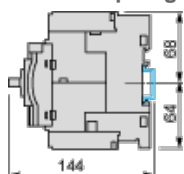
- 1 GV4P115
- 2 GV4P80
- 3 GV4P50
- 4 GV4P25
- 5 GV4P12
- 6 GV4P07
- 7 GV4P03
- 8 GV4P02

GV4 with Toggle: GV4LE, GV4PE, GV4PEM

With EverLink® Connector

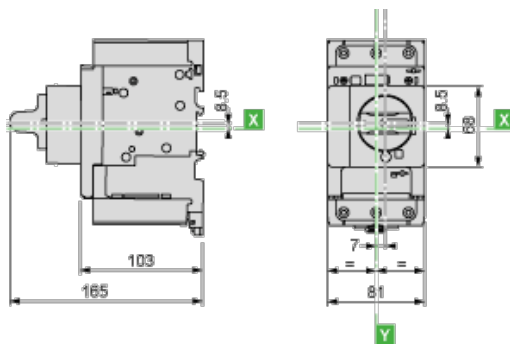


With Crimp Lug Connector



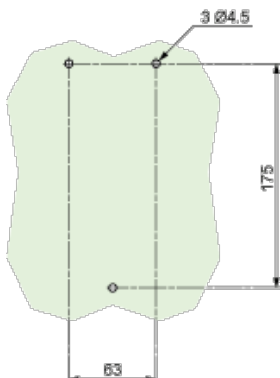
GV4 with Rotary Handle: GV4L, GV4P, or GV4LE, GV4PE, GV4PEM with GV4ADN01, GV4ADN02 Direct Mounting Rotary Handle

Dimensions

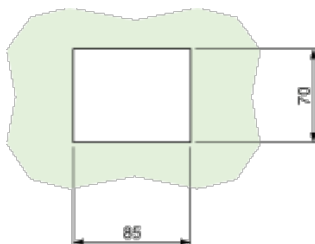


#### GV4L, GV4P, GV4LE, GV4PE, GV4PEM

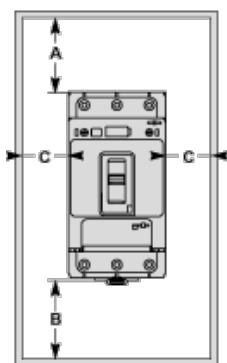
##### Panel Mounting with M4 Screws



##### Door Cut-Out for Rotary Handle



##### Minimum Safety Clearance



Toggle-type, rotary handle-type: identical clearance values.

| Safety Clearance (mm) |                     |   |   |                  |   |   |
|-----------------------|---------------------|---|---|------------------|---|---|
|                       | Painted Sheet Metal |   |   | Bare Sheet Metal |   |   |
|                       | A                   | B | C | A                | B | C |
| No accessory          | 30                  | 0 | 0 | 40               | 0 | 5 |
| Interphase barriers   | 0                   | 0 | 0 | 0                | 0 | 5 |
| Long terminal shield  | 0                   | 0 | 0 | 0                | 0 | 5 |

##### Magnetic Motor Circuit Breakers

GV4P, GV4PE, GV4PEM

