# Product data sheet

Specifications



## Motor circuit breaker, TeSys GV4, 3P, 7A, Icu 100kA, thermal magnetic, Everlink terminals

GV4PE07S

**Product availability: Non-Stock - Not normally stocked in distribution facility**

## Main

| | |
|---|---|
| **Range** | TeSys Deca |
| **Range of Product** | TeSys GV4 |
| **Device short name** | GV4PE |
| **Product name** | TeSys GV4 |
| **Product or Component Type** | Motor circuit breaker |
| **Device Application** | Motor protection |
| **Trip unit technology** | Electronic<br>Thermal-magnetic |

## Complementary

| | |
|---|---|
| **Poles description** | 3P |
| **Utilisation category** | Category A IEC 60947-2<br>AC-3 IEC 60947-4-1 |
| **Operating position** | Any position |
| **Motor power kW** | 1.5 kW 400...415 V AC 50/60 Hz<br>2.2 kW 400...415 V AC 50/60 Hz<br>2.5 kW 400...415 V AC 50/60 Hz<br>3 kW 400...415 V AC 50/60 Hz<br>2.2 kW 500 V AC 50/60 Hz<br>2.5 kW 500 V AC 50/60 Hz<br>3 kW 500 V AC 50/60 Hz<br>4 kW 500 V AC 50/60 Hz<br>3 kW 660...690 V AC 50/60 Hz<br>4 kW 660...690 V AC 50/60 Hz<br>5.5 kW 660...690 V AC 50/60 Hz<br>7.5 kW 660...690 V AC 50/60 Hz |
| **Breaking capacity** | 120 kA Icu 220...240 V AC 50/60 Hz IEC 60947-2<br>100 kA Icu 380...415 V AC 50/60 Hz IEC 60947-2<br>70 kA Icu 440 V AC 50/60 Hz IEC 60947-2<br>30 kA Icu 500 V AC 50/60 Hz IEC 60947-2<br>18 kA Icu 525 V AC 50/60 Hz IEC 60947-2<br>100 kA 208Y/120 V AC 50/60 Hz UL 60947<br>100 kA 240 V AC 50/60 Hz UL 60947<br>65 kA 480Y/277 V AC 50/60 Hz UL 60947<br>10 kA Icu 660...690 V AC 50/60 Hz IEC 60947-2<br>25 kA 600Y/347 V AC 50/60 Hz UL 60947 |
| **Control Type** | Toggle |
| **Line Rated Current** | 7 A |
| **Magnetic tripping current** | 119 A |
| **[Ue] rated operational voltage** | 690 V AC 50/60 Hz IEC 60947-2 |
| **[Ui] rated insulation voltage** | 800 V AC 50/60 Hz IEC 60947-2 |
| **[Ith] conventional free air thermal current** | 115 A IEC 60947-4-1 |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **[Uimp] rated impulse withstand voltage** | 8 kV IEC 60947-2 |
| **Power dissipation per pole** | 4.6 W |
| **Mechanical durability** | 40000 cycles |
| **Electrical durability** | 5000 cycles AC-3 415 V opening<br>5000 cycles AC-3 415 V closing |
| **maximum operating rate** | 25 cyc/h |
| **Rated duty** | Continuous IEC 60947-4-1 |
| **Connections - terminals** | EverLink BTR screw connectors (top): 1 cable(s) 0.002…0.1 in² (1.5…70 mm²) - solid<br>EverLink BTR screw connectors (top): 1 cable(s) 0.002…0.08 in² (1.5…50 mm²) - flexible<br>EverLink BTR screw connectors (bottom): 1 cable(s) 0.004…0.1 in² (2.5…95 mm²) - solid<br>EverLink BTR screw connectors (bottom): 1 cable(s) 0.004…0.1 in² (2.5…70 mm²) - flexible |
| **Tightening torque** | 79.7 lbf.in (9 N.m) 0.02…0.1 in² (16…95 mm²)<br>44.3 lbf.in (5 N.m) 0.002…0.02 in² (1.5…10 mm²) |
| **Mechanical robustness** | Vibrations +/- 1 mm 2...13.2 Hz IEC 60068-2-6<br>Vibrations 0.7 gn 13.2...100 Hz IEC 60068-2-6<br>Shocks 15 gn 11 ms IEC 60068-2-27 |
| **Phase failure sensitivity** | Yes IEC 60947-4-1 |
| **Height** | 6.1 in (155 mm) |
| **Width** | 3.2 in (81 mm) |
| **Depth** | 4.6 in (116 mm) |
| **Net Weight** | 3.20 lb(US) (1.45 kg) |
| **color** | Gray RAL 7016) |
| **Suitability for isolation** | Yes IEC 60947-1 |

## Environment

| | |
|---|---|
| **Standards** | CSA C22.2 No 60947-4-1<br>UL 60947-4-1<br>EN/IEC 60947-4-1<br>EN/IEC 60947-2 |
| **Product Certifications** | IEC<br>UL<br>CSA<br>CCC<br>EAC<br>ATEX<br>EU-RO MR |
| **Climatic withstand** | IACS E10 |
| **IK degree of protection** | IK07 IEC 62262 |
| **Pollution degree** | 3 |
| **IP degree of protection** | IP40 IEC 60529 |
| **Ambient Air Temperature for Storage** | -58…185 °F (-50…85 °C) |
| **Fire resistance** | 1760 °F (960 °C) IEC 60695-2-11 |
| **Operating altitude** | 5000 m |
| **Ambient air temperature for operation** | -13…158 °F (-25…70 °C) |

## Ordering and shipping details

| | |
|---|---|
| **Category** | US1CTR121253 |

| | |
|---|---|
| **Discount Schedule** | CTR1 |
| **GTIN** | 3606481310576 |
| **Returnability** | No |
| **Country of origin** | PL |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 6.7 in (17.0 cm) |
| **Package 1 Width** | 4.3 in (11.0 cm) |
| **Package 1 Length** | 8.7 in (22.0 cm) |
| **Package weight(Lbs)** | 3.68 lb(US) (1.67 kg) |
| **Unit Type of Package 2** | S03 |
| **Number of Units in Package 2** | 5 |
| **Package 2 Height** | 11.8 in (30.0 cm) |
| **Package 2 Width** | 11.8 in (30.0 cm) |
| **Package 2 Length** | 15.7 in (40.0 cm) |
| **Package 2 Weight** | 19.8 lb(US) (9.0 kg) |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **90 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **11 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0.5 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0.4 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **74 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **4 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| SCIP Number | **1b259a2c-3a3c-401a-acdd-f0837efd4018** |
| EU RoHS Directive | **Compliant By Exemption** |
| REACh Regulation | **Reference contains Substances of Very High Concern above the threshold** |
| California proposition 65 | **WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov** |
| Halogen content performance | **Halogen free plastic parts product** |
| PVC free | **Yes** |

## Use Again

### Repack and remanufacture

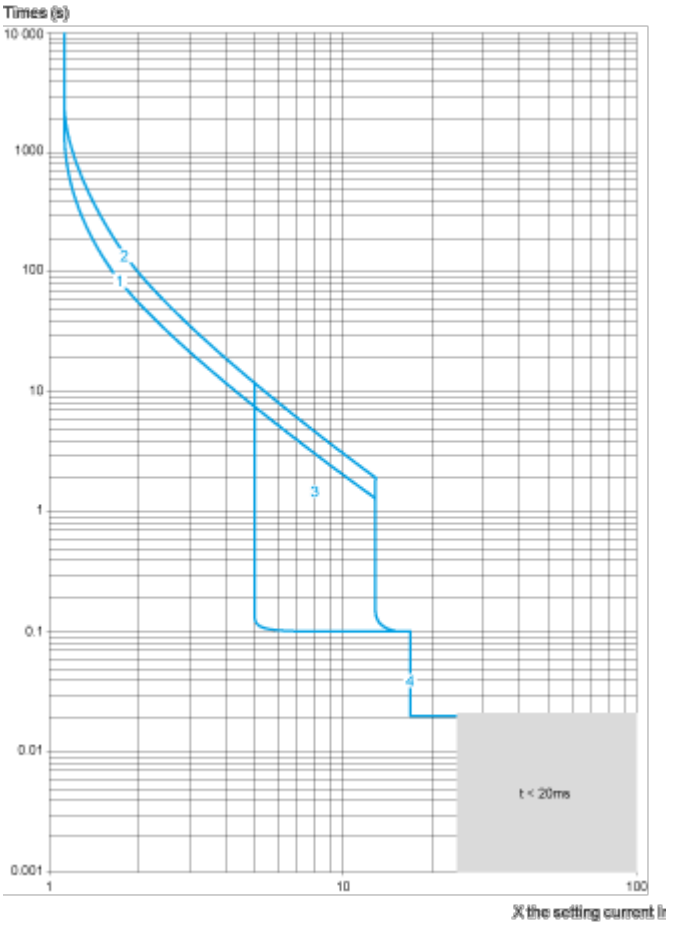
| | |
|---|---|
| Recyclability potential, in % | **49** |
| Circularity Profile | **End of Life Information** |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.** |

## Performance Curves

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

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

Hot state



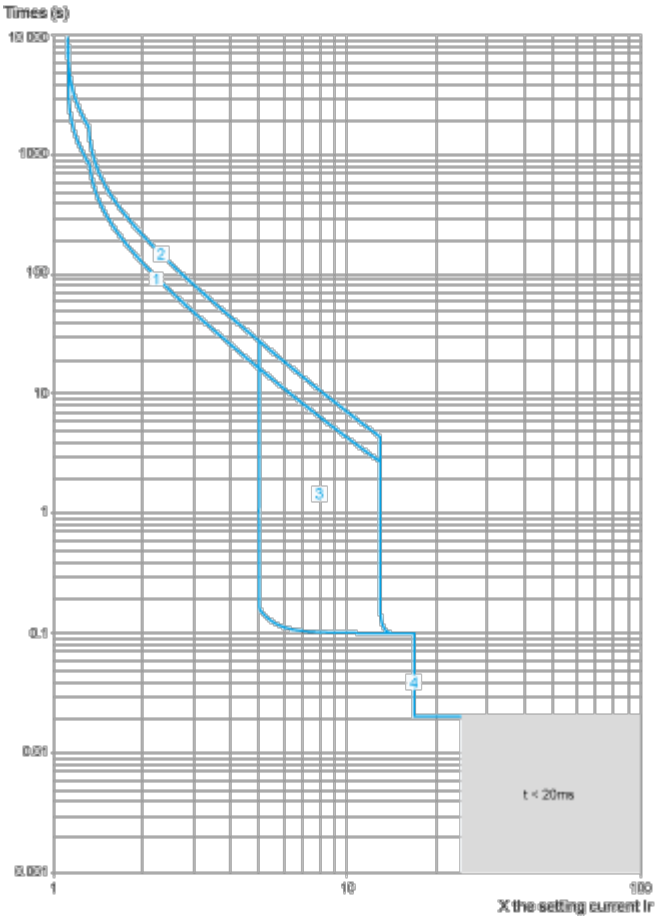

1 Class 10

2 Class 20

3 Isd = 5...13x Ir

4 Ii = 17 In

Cold state




1 Class 10

2 Class 20

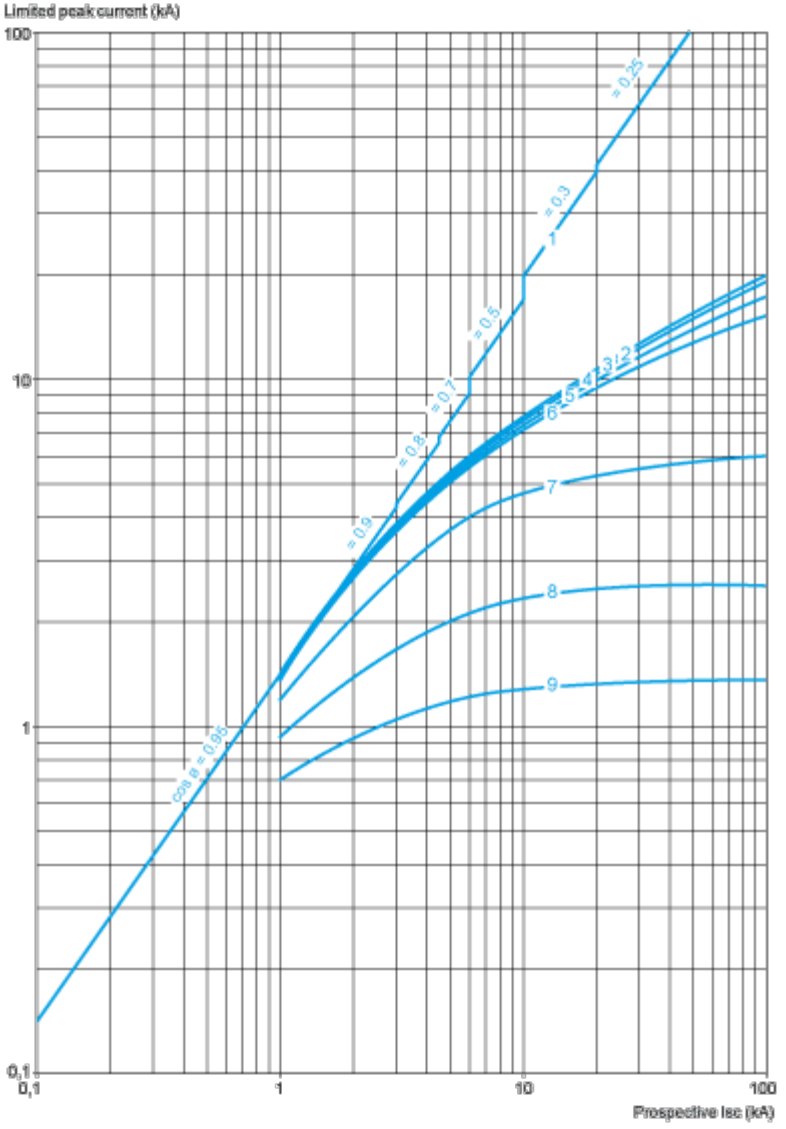
3 Isd = 5...13x Ir

4 Ii = 17 In

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

**Dynamic Stress**

I peak = f (prospective Isc) at 1.05 Ue = 435 V




1 Maximum peak current

2 GV4P115

3 GV4P80

4 GV4P50

5 GV4P25

6 GV4P12

7 GV4P07

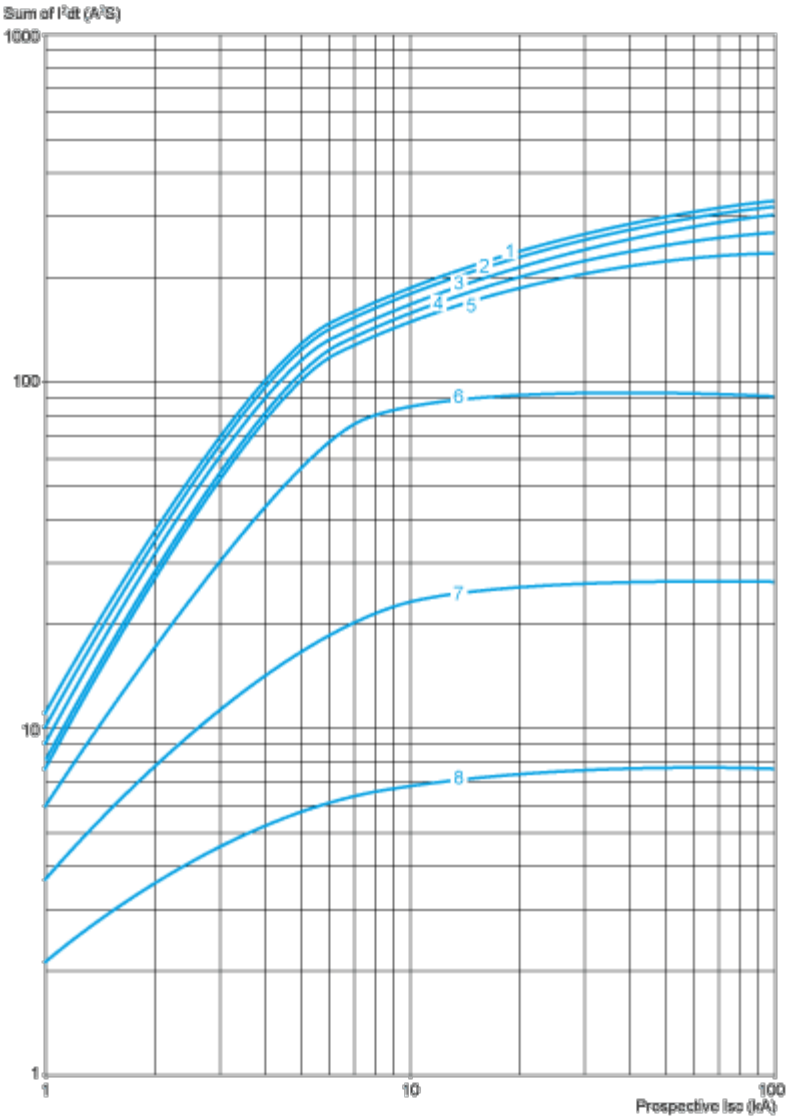
8 GV4P03

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 Isc) at 1.05 Ue = 435 V




1 GV4P115

2 GV4P80

3 GV4P50

4 GV4P25

5 GV4P12

6 GV4P07

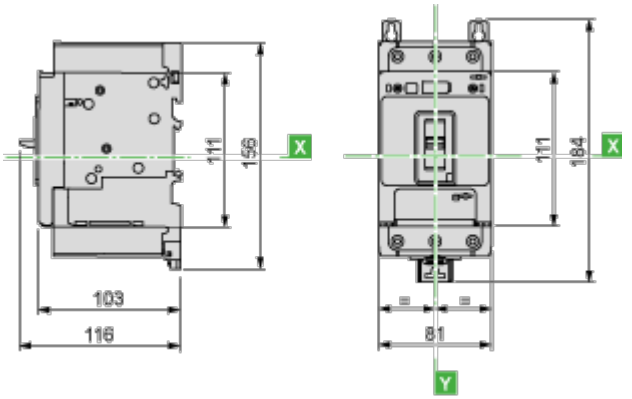
7 GV4P03

8 GV4P02

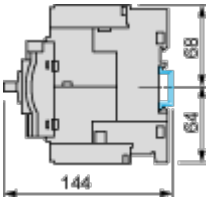
Dimensions Drawings

### GV4 with Toggle: GV4LE, GV4PE, GV4PEM

**With EverLink® Connector**

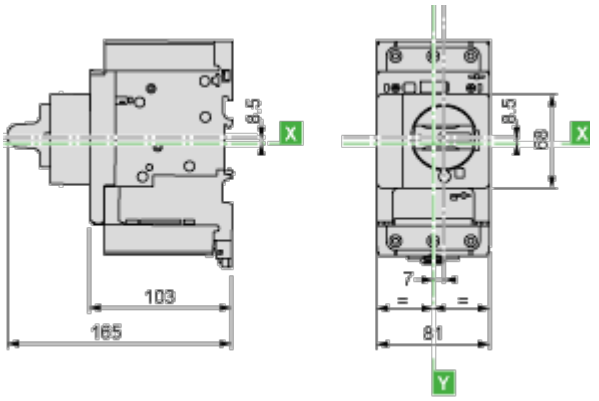



**With Crimp Lug Connector**



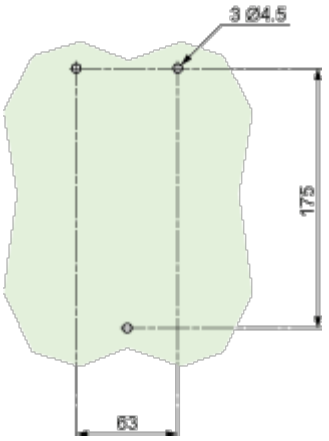

### GV4 with Rotary Handle: GV4L, GV4P, or GV4LE, GV4PE, GV4PEM with GV4ADN01, GV4ADN02 Direct Mounting Rotary Handle

**Dimensions**

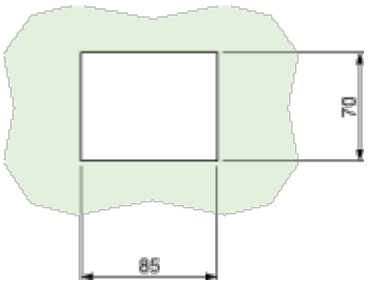



### GV4L, GV4P, GV4LE, GV4PE, GV4PEM

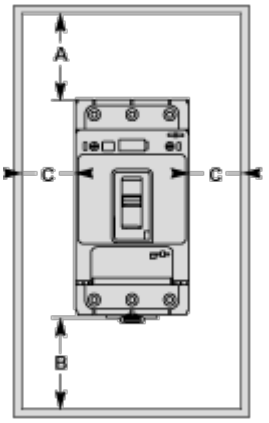
**Panel Mounting with M4 Screws**




**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 |

## Connections and Schema

**Magnetic Motor Circuit Breakers**
GV4P, GV4PE, GV4PEM

