

GV3P25

TeSys GV3 Manual Starter and Protector,
thermal magnetic circuit protector, rotary knob,
17...25 A, EverLink BTR connectors



Product availability: Stock - Normally stocked in distribution facility



Main

| | |
|----------------------|------------------|
| Range | TeSys |
| Product name | TeSys GV3 |
| Device short name | GV3P |
| Device application | Motor |
| Trip unit technology | Thermal-magnetic |

Complementary

| | |
|---|--|
| Poles description | 3P |
| Network type | AC |
| Utilisation category | AC-3 IEC 60947-4-1 Category A IEC 60947-2 |
| Network frequency | 50/60 Hz IEC 60947-4-1 |
| Fixing mode | 35 mm symmetrical DIN rail clipped Panel screwed with 3 x M4 screws) |
| Operating position | Any position |
| Motor power kW | 18.5 kW 690 V AC 50/60 Hz 11 kW 400/415 V AC 50/60 Hz 15 kW 500 V AC 50/60 Hz |
| Breaking capacity | 100 KA Icu 230/240 V AC 50/60 Hz IEC 60947-2 100 KA Icu 400/415 V AC 50/60 Hz IEC 60947-2 50 KA Icu 440 V AC 50/60 Hz IEC 60947-2 6 KA Icu 690 V AC 50/60 Hz IEC 60947-2 12 kA Icu 500 V AC 50/60 Hz IEC 60947-2 |
| [Ics] rated service short-circuit breaking capacity | 100 % 230/240 V AC 50/60 Hz IEC 60947-2 100 % 440 V AC 50/60 Hz IEC 60947-2 100 % 400/415 V AC 50/60 Hz IEC 60947-2 50 % 500 V AC 50/60 Hz IEC 60947-2 50 % 690 V AC 50/60 Hz IEC 60947-2 |
| Control type | Rotary knob |
| Line Rated Current | 25 A |
| Thermal protection adjustment range | 17...25 A |
| Magnetic tripping current | 350 A |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz IEC 60947-2 |
| [Ui] rated insulation voltage | 690 V AC 50/60 Hz IEC 60947-2 |
| [Ith] conventional free air thermal current | 2 A IEC 60947-4-1 |
| [Uimp] rated impulse withstand voltage | 6 kV IEC 60947-2 |
| Power dissipation per pole | 8 W |
| Mechanical durability | 50000 cycles |
| Electrical durability | 50000 cycles AC-3 440 V In |
| Maximum operating rate | 25 cyc/h |
| Rated duty | Continuous IEC 60947-4-1 |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| | |
|---------------------------|--|
| Connections - terminals | EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²) solid EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²) flexible without cable end EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²) flexible with cable end |
| Tightening torque | 44.25 Lbf.in (5 N.m) EverLink BTR screw connectors 0.04 in ² (25 mm ²) 70.81 lbf.in (8 N.m) EverLink BTR screw connectors 0.05 in ² (35 mm ²) |
| Suitability for isolation | Yes IEC 60947-1 |
| Phase failure sensitivity | Yes IEC 60947-4-1 |
| Height | 5.20 in (132 mm) |
| Width | 2.17 in (55 mm) |
| Depth | 5.35 in (136 mm) |
| Net weight | 2.12 lb(US) (0.96 kg) |

Environment

| | |
|---------------------------------------|---|
| Standards | EN/IEC 60947-2 EN/IEC 60947-4-1 CSA C22.2 No 60947-4-1 UL 60947-4-1 |
| Product certifications | IECEE CB Scheme UL CSA CCC EAC ATEX BV LROS (Lloyds register of shipping) DNV-GL ABS |
| Protective treatment | TH |
| IP degree of protection | IP20 IEC 60529 |
| IK degree of protection | IK09 |
| Ambient air temperature for operation | -4...140 °F (-20...60 °C) |
| Ambient air temperature for storage | -40...176 °F (-40...80 °C) |
| Fire resistance | 1760 °F (960 °C) IEC 60695-2-1 |
| Operating altitude | 9842.52 ft (3000 m) |

Ordering and shipping details

| | |
|---------------------|------------------------------------|
| Category | 22366 - MAN STR PROTECTORS-GV1/GV3 |
| Discount Schedule | I11 |
| GTIN | 00785901492320 |
| Package weight(Lbs) | 1.02 kg (2.24 lb(US)) |
| Returnability | Yes |
| Country of origin | FR |

Offer Sustainability

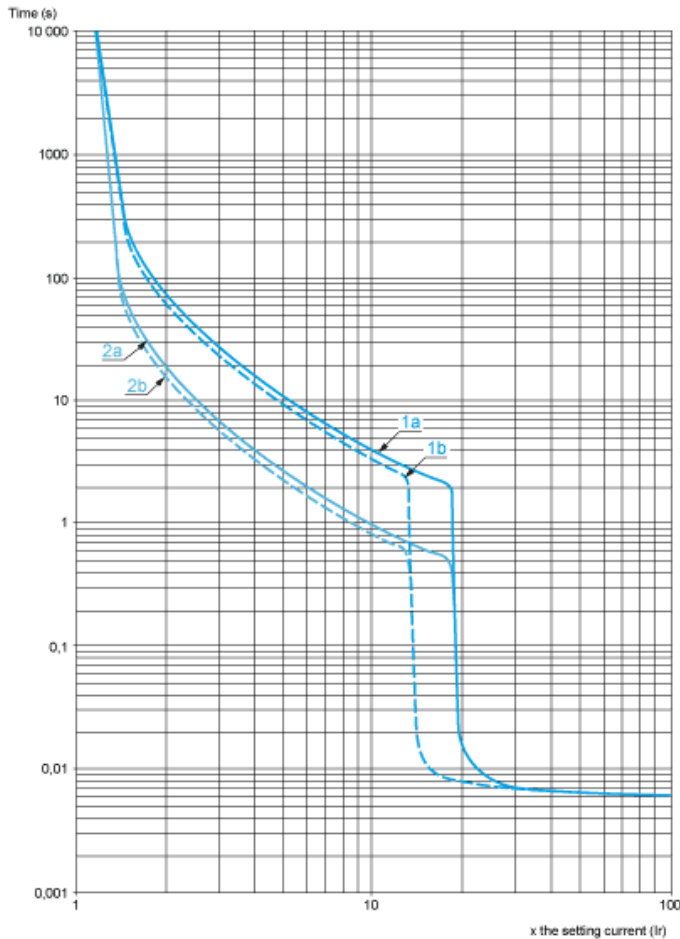
| | |
|----------------------------|--|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | No need of specific recycling operations End of Life Information |

Contractual warranty

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|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Thermal-Magnetic Tripping Curves

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

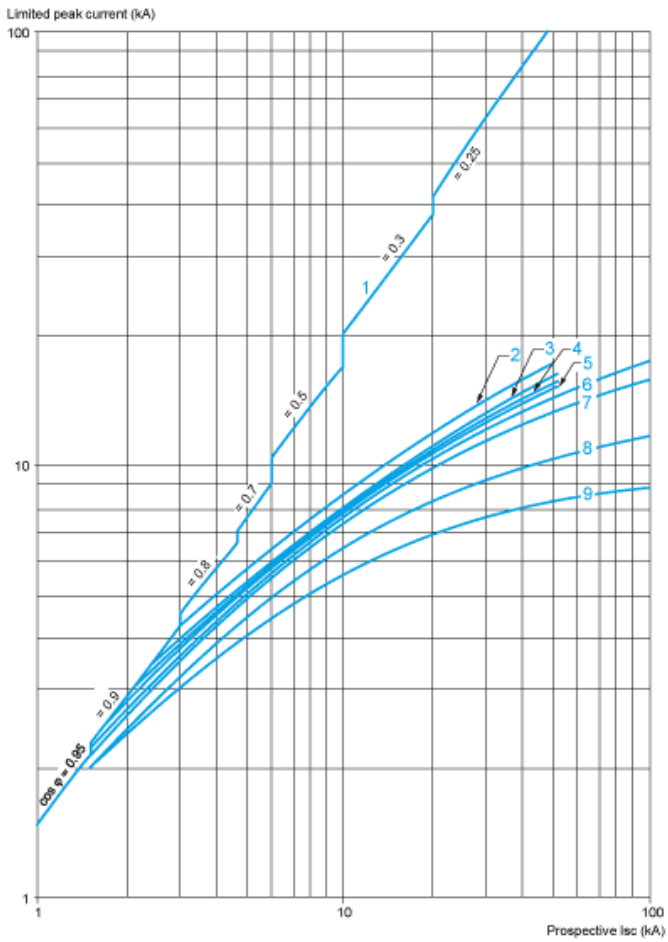


- 1a 3 poles from cold state (Ir minimum): GV3P
- 1b 3 poles from cold state (Ir maximum): GV3P
- 2a 3 poles from hot state (Ir minimum): GV3P
- 2b 3 poles from hot state (Ir maximum): GV3P

Current Limitation on Short-Circuit (3-Phase 400/415 V)

Dynamic Stress

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

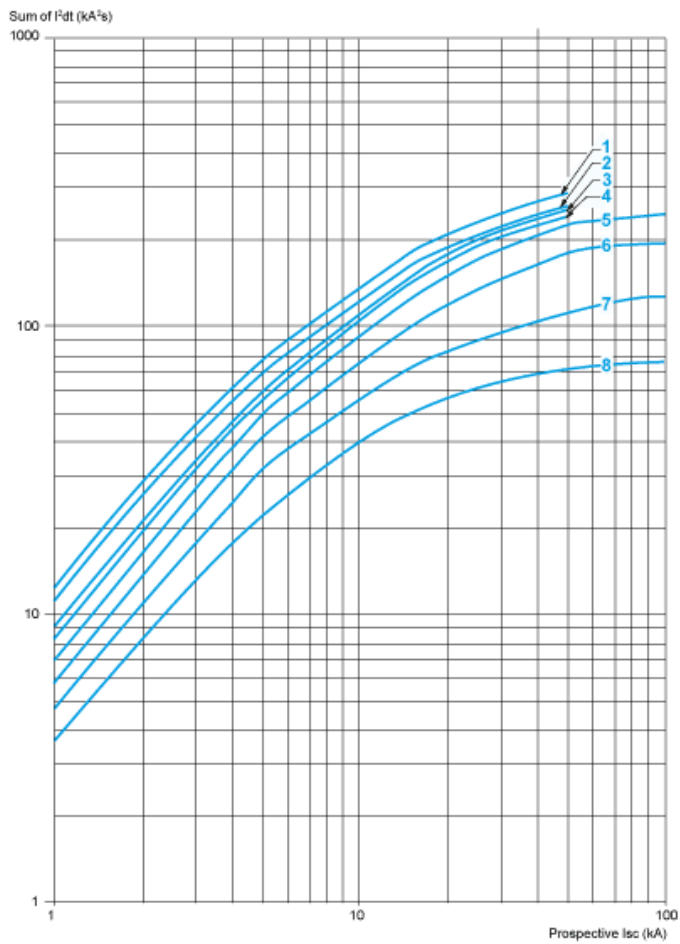


- 1 Maximum peak current
- 2 70-80 A (GV3P80), 62-73 A (GV3P73)
- 3 48-65 A (GV3P65)
- 4 37-50 A (GV3P50)
- 5 30-40 A (GV3P40)
- 6 23-32 A (GV3P32)
- 7 17-25 A (GV3P25)
- 8 12-18 A (GV3P18)
- 9 9-13 A (GV3P13)

Maximum Thermal Limit on Short-Circuit

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

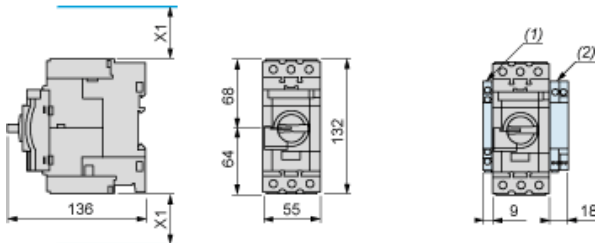
Sum of $I^2dt = f$ (prospective Isc) at $1.05 U_e = 435 V$



- 1 70-80 (GV3P80) - 62-73 (GV3P73)
- 2 48-65 A (GV3P65)
- 3 37-50 A (GV3P50)
- 4 30-40 A (GV3P40)
- 5 23-32 A (GV3P32)
- 6 17-25 A (GV3P25)
- 7 12-18 A (GV3P18)
- 8 9-13 A (GV3P13)

GVI3L, GV3P

Dimensions



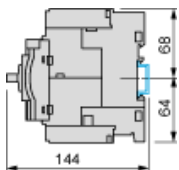
(1) Blocks GVAN... GVAD... and GVAM11.

(2) Blocks GV3AU... and GV3AS...

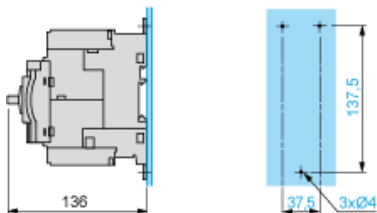
X1 = Electrical clearance (ISC max) 40 mm for $U_e \leq 500$ V, 50 mm for $U_e \leq 690$ V

NOTE: Leave a space of 9 mm between 2 circuit breakers: either an empty space or side-mounting add-on contact blocks. Side by side mounting is possible up to 40 °C.

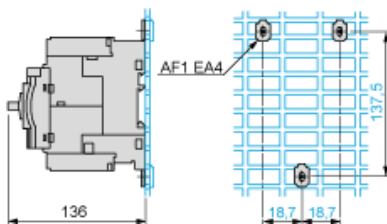
Mounting on Rail AM1 DE200 or AM1 ED201



Panel Mounting, using M4 Screws



Mounting on Pre-Slotted Plate AM1 PA



GV3P••

