

GV3P25

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



Main

| | |
|---------------------------|--------------------------|
| Range of Product | TeSys GV3 |
| Range | TeSys Deca TeSys Deca |
| Device short name | GV3P |
| Product name | TeSys GV3 TeSys Deca |
| Product or Component Type | Motor circuit breaker |
| Device Application | Motor protection |
| Trip unit technology | Thermal-magnetic |

Complementary

| | |
|---|--|
| Poles description | 3P |
| Network type | AC |
| Utilisation category | AC-3 IEC 60947-4-1 |
| 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 handle |
| 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 | 25 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-3 415 V In |
| Maximum operating rate | 25 cyc/h |
| Rated duty | Continuous IEC 60947-4-1 |
| 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) |

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.

| | |
|---------------------------|---|
| Mechanical robustness | Shocks 15 Gn for 11 ms closed IEC 60068-2-27 Shocks 30 Gn for 11 ms opened IEC 60068-2-27 Vibrations 4 Gn, 5...300 Hz IEC 60068-2-6 |
| 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) |
| Color | Dark grey |
| Suitability for isolation | Yes IEC 60947-1 |

Environment

| | |
|---------------------------------------|--|
| Standards | EN/IEC 60947-2 EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 |
| Product Certifications | CCC EAC BV LROS (Lloyds register of shipping) DNV-GL ABS UL CSA UKCA ATEX |
| Climatic withstand | IACS E10 |
| IK degree of protection | IK09 enclosure |
| IP degree of protection | IP20 IEC 60529 |
| Ambient Air Temperature for Storage | -40...176 °F (-40...80 °C) |
| Fire resistance | 1760 °F (960 °C) IEC 60695-2-11 |
| Operating altitude | 9842.52 ft (3000 m) |
| Ambient air temperature for operation | -4...140 °F (-20...60 °C) |

Ordering and shipping details

| | |
|-----------------------|----------------------------------|
| Category | 22366-MAN STR PROTECTORS-GV1/GV3 |
| Discount Schedule | I11 |
| GTIN | 3389119405379 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 35.03 oz (993.0 g) |
| Returnability | Yes |
| Country of origin | FR |

Packing Units

| | |
|------------------------------|---------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 2.56 in (6.5 cm) |
| Package 1 width | 5.71 in (14.5 cm) |
| Package 1 Length | 6.30 in (16 cm) |
| Unit Type of Package 2 | P06 |
| Number of Units in Package 2 | 120 |
| Package 2 Weight | 291.36 lb(US) (132.16 kg) |
| Package 2 Height | 28.94 in (73.5 cm) |
| Package 2 width | 23.62 in (60 cm) |
| Package 2 Length | 31.50 in (80 cm) |

Offer Sustainability

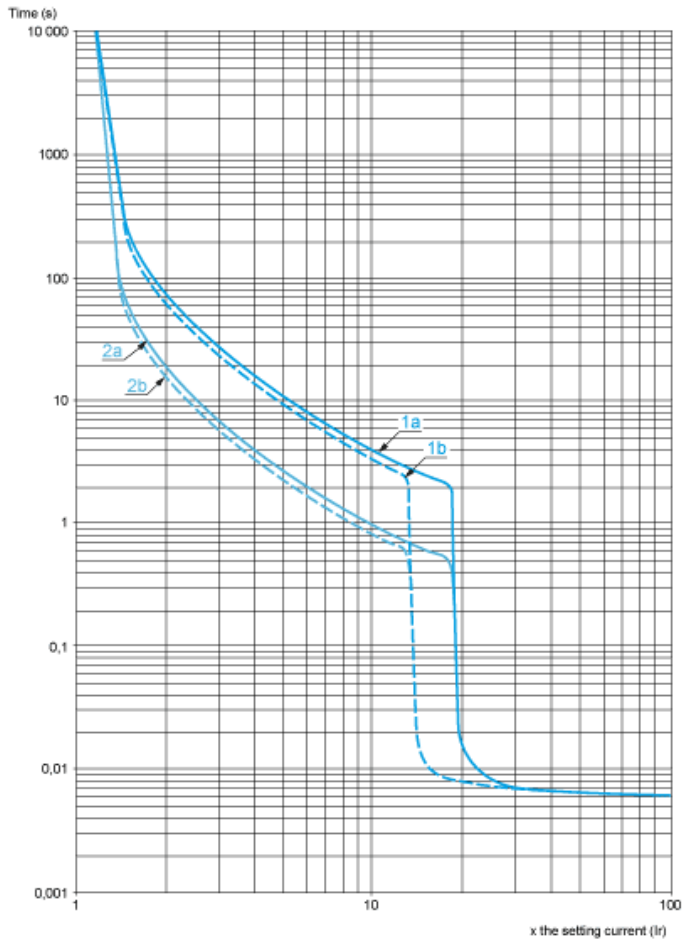
| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov |
| 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 | 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

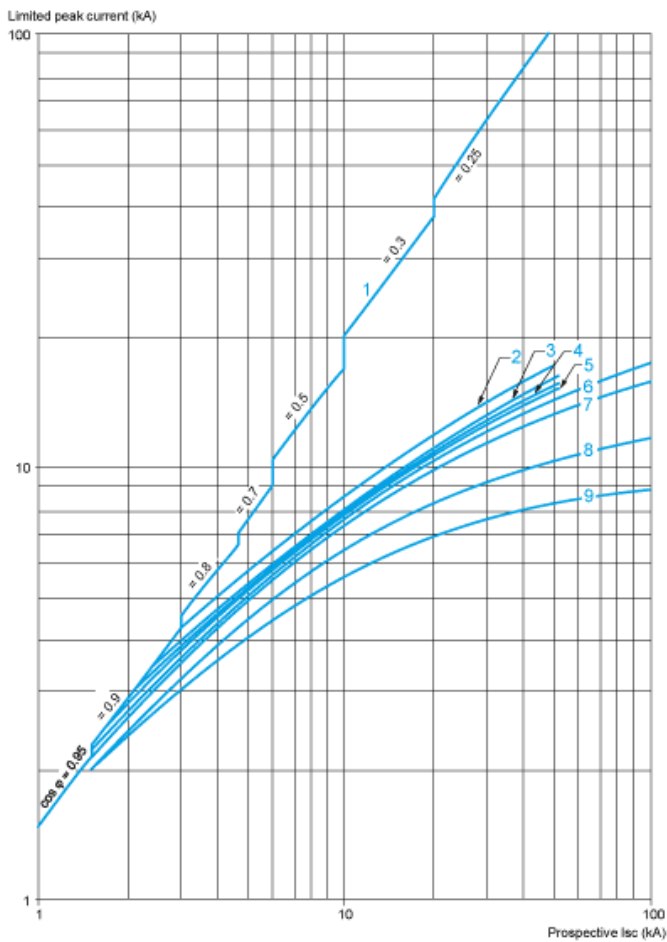


- 1a 3 poles from cold state (Ir minimum): GV3P
- 1b 3 poles from cold state (Ir maximum): GV3P
- 2a 3 poles from hot state (Ir minimum): GV3P
- 2b 3 poles from hot state (Ir maximum): GV3P

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

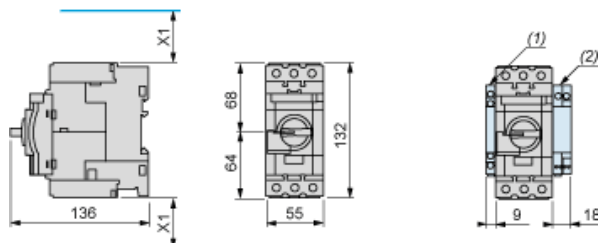
Sum of $I^2dt = f$ (prospective Isc) at $1.05 U_e = 435 \text{ V}$



- 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



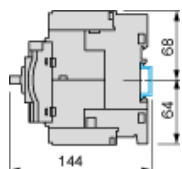
(1) Blocks GVAN.., GVAD.. and GVAM11.

(2) Blocks GV3AU.. and GV3AS..

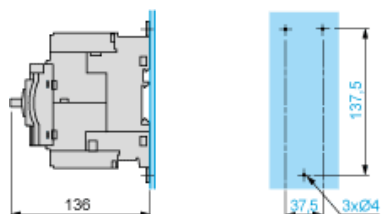
X1 = Electrical clearance (ISC max) 40 mm for $U_e \leq 500$ V, 50 mm for $U_e \leq 690$ V

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

