Product data sheet

Specifications





TeSys Deca Manual Starter and Protector, thermal magnetic circuit protector, rotary knob, 12...18 A, EverLink BTR connectors

GV3P18

Product availability: Stock - Normally stocked in distribution facility

Price*: 404.00 USD

Main

| Range | TeSys Deca |
|---------------------------|-------------------------|
| Product Name | TeSys GV3 TeSys Deca |
| Product Or Component Type | Motor circuit breaker |
| Device Short Name | GV3P |
| 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) |
| Motor Power Kw | 7.5 kW 400/415 V AC 50/60 Hz 9 kW 500 V AC 50/60 Hz 15 kW 690 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 12 kA Icu 500 V AC 50/60 Hz IEC 60947-2 6 kA Icu 690 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 % 400/415 V AC 50/60 Hz IEC 60947-2 100 % 440 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 | 18 A |
| Thermal Protection Adjustment Range | 1218 A IEC 60947-4-1 |
| Magnetic Tripping Current | 252 A |
| [Ith] Conventional Free Air Thermal Current | 18 A IEC 60947-4-1 |
| [Ue] Rated Operational Voltage | 690 V AC 50/60 Hz IEC 60947-2 |

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

| [Ui] Rated Insulation Voltage | 690 V AC 50/60 Hz IEC 60947-2 |
|--|---|
| [Uimp] Rated Impulse Withstand Voltage | 6 kV IEC 60947-2 |
| Phase Failure Sensitivity | Yes IEC 60947-4-1 |
| Suitability For Isolation | Yes IEC 60947-1 |
| Power Dissipation Per Pole | 8 W |
| Mechanical Durability | 50000 cycles |
| Electrical Durability | 50000 cycles AC-3 415 V In |
| Rated Duty | Continuous IEC 60947-4-1 |
| Tightening Torque | 44.25 lbf.in (5 N.m) screw clamp terminal |
| Width | 2.17 in (55 mm) |
| Height | 5.20 in (132 mm) |
| Depth | 5.35 in (136 mm) |
| Net Weight | 2.12 lb(US) (0.96 kg) |
| Color | Dark grey |

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 UL CSA EAC ATEX LROS (Lloyds register of shipping) BV ABS DNV-GL UKCA |
| Ik Degree Of Protection | IK09 enclosure |
| Ip Degree Of Protection | IP20 IEC 60529 |
| Climatic Withstand | IACS E10 |
| Ambient Air Temperature For Storage | -40176 °F (-4080 °C) |
| Fire Resistance | 1760 °F (960 °C) IEC 60695-2-11 |
| Ambient Air Temperature For Operation | -4140 °F (-2060 °C) |
| Mechanical Robustness | Shocks 15 Gn for 11 ms contactor open Shocks 30 Gn for 11 ms contactor closed Vibrations 4 Gn, 5300 Hz |
| Operating Altitude | 9842.52 ft (3000 m) |

Ordering and shipping details

| Category | US10I1122366 |
|-------------------|---------------|
| Discount Schedule | 0111 |
| Gtin | 3389119405362 |
| Returnability | Yes |
| Country Of Origin | FR |

Packing Units

| 9 | |
|------------------------------|---------------------------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 2.56 in (6.500 cm) |
| Package 1 Width | 6.30 in (16.000 cm) |
| Package 1 Length | 5.71 in (14.500 cm) |
| Package 1 Weight | 35.13 oz (996.000 g) |
| Unit Type Of Package 2 | P06 |
| Number Of Units In Package 2 | 60 |
| Package 2 Height | 29.53 in (75.000 cm) |
| Package 2 Width | 23.62 in (60.000 cm) |
| Package 2 Length | 31.50 in (80.000 cm) |
| Package 2 Weight | 160.41 lb(US) (72.760 kg) |

Contractual warranty

Warranty 18 months

Sustainability Green Premium

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

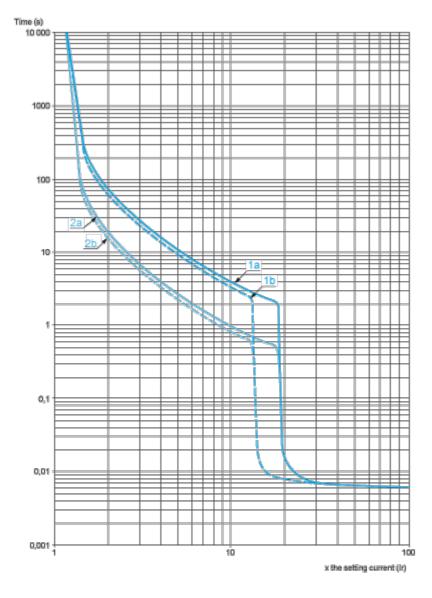
Certifications & Standards

| Reach Regulation | REACh Declaration |
|---------------------------|---|
| Eu Rohs Directive | Compliant with Exemptions |
| China Rohs Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information. |
| Environmental Disclosure | Product Environmental Profile |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| Circularity Profile | End of Life Information |
| 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 |

Performance Curves

Thermal-Magnetic Tripping Curves

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

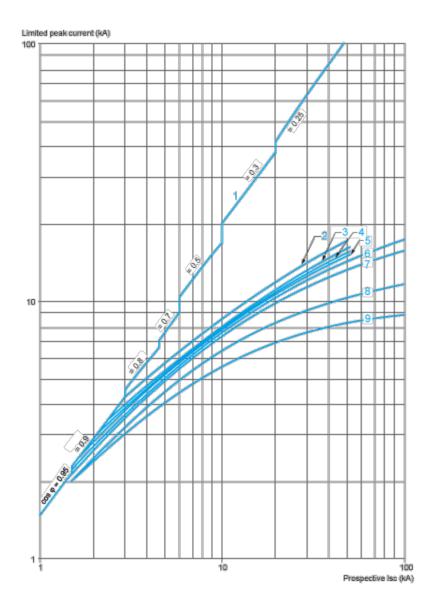


- 1a 3 poles from cold state (Ir minimum): GV3P
- 1b 3 poles from cold state (Ir maximum): GV3P
- 2a 3 poles from hot state (Ir minimum): GV3P
- 2b 3 poles from hot state (Ir maximum): GV3P

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

Dynamic Stress

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

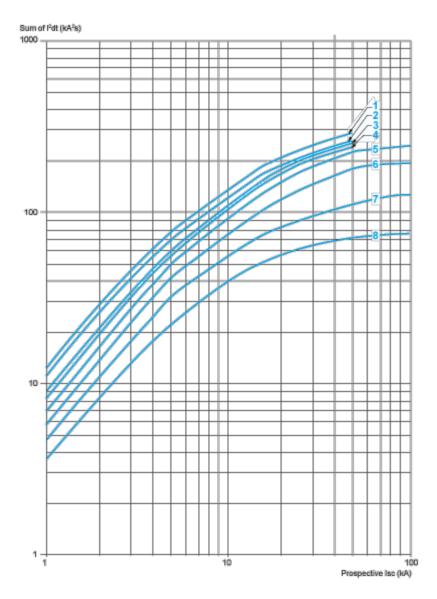
Maximum Thermal Limit on Short-Circuit

Thermal Limit in ${\rm kA}^2{\rm s}$ in the Magnetic Operating Zone

Sum of I^2 dt = f (prospective lsc) at 1.05 Ue = 435 V

Jun 12, 2024

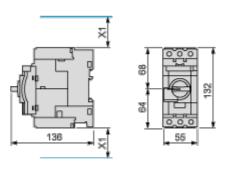
GV3P18

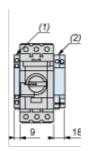


- 1 70-80 (GV3P80) 62-73 (GV3P73)
- 2 48-65 A (GV3P65)
- 3 37-50 A (GV3P50)
- 4 30-40 A (GV3P40)
- 5 23-32 A (GV3P32)
- 6 17-25 A (GV3P25)
- 7 12-18 A (GV3P18)
- 8 9-13 A (GV3P13)

Dimensions Drawings

GVI3L, GV3P Dimensions



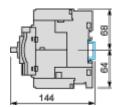


- (1) Blocks $\text{GVAN}_{\bullet \bullet}$, $\text{GVAD}_{\bullet \bullet}$ and GVAM11.
- Blocks GV3AU and GV3AS.

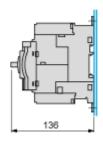
X1 = Electrical clearance (ISC max) 40 mm for Ue ≤ 500 V, 50 mm for Ue ≤ 690 V

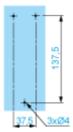
NOTE: Leave a space of 9 mm between 2 circuit breakers: either an empty space or side-mounting add-on contact blocks. Side by side mounting is possible up to 40 °C.

Mounting on Rail AM1 DE200 or AM1 ED201

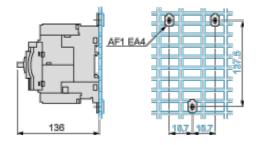


Panel Mounting, using M4 Screws





Mounting on Pre-Slotted Plate AM1 PA



Connections and Schema

GV3P••

