

Product datasheet

Specifications



Motor circuit breaker, TeSys GV3, 3P, 48-65 A, thermal magnetic, EverLink terminals

GV3P65

Main

| | |
|---------------------------|-----------------------|
| Range | TeSys Deca |
| product name | TeSys GV3 |
| 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 | CA |
| Utilisation category | Category A conforming to IEC 60947-2 AC-3 conforming to IEC 60947-4-1 |
| Network frequency | 50/60 Hz conforming to IEC 60947-2 |
| Motor power kW | 30 kW at 400/415 V CA 50/60 Hz 45 kW at 500 V CA 50/60 Hz 55 kW at 690 V CA 50/60 Hz |
| Breaking capacity | 100 kA Icu at 230/240 V CA 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 400/415 V CA 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 440 V CA 50/60 Hz conforming to IEC 60947-2 12 kA Icu at 500 V CA 50/60 Hz conforming to IEC 60947-2 6 kA Icu at 690 V CA 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service short-circuit breaking capacity | 100 % at 230/240 V CA 50/60 Hz conforming to IEC 60947-2 100 % at 400/415 V CA 50/60 Hz conforming to IEC 60947-2 100 % at 440 V CA 50/60 Hz conforming to IEC 60947-2 50 % at 500 V CA 50/60 Hz conforming to IEC 60947-2 50 % at 690 V CA 50/60 Hz conforming to IEC 60947-2 |
| Control type | Rotary handle |
| [In] rated current | 65 A |
| Thermal protection adjustment range | 48...65 A conforming to IEC 60947-2 |
| Magnetic tripping current | 910 A |
| [Ith] conventional free air thermal current | 65 A conforming to IEC 60947-2 |
| [Ue] rated operational voltage | 690 V CA 50/60 Hz conforming to IEC 60947-2 |
| [Ui] rated insulation voltage | 690 V CA 50/60 Hz conforming to IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947-2 |
| Phase failure sensitivity | Yes conforming to IEC 60947-4-1 |
| Suitability for isolation | Yes conforming to IEC 60947-1 |

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

| | |
|-----------------------------------|--|
| Power dissipation per pole | 8 W |
| Mechanical durability | 50000 cycles |
| Electrical durability | 50000 cycles for AC-3 at 415 V In |
| Rated duty | Uninterrupted conforming to IEC 60947-4-1 |
| Tightening torque | 5 N.m - on screw clamp terminal |
| Fixing mode | 35 mm symmetrical DIN rail: clipped Panel: screwed (with 3 x M4 screws) |
| Mounting position | Horizontal Vertical |
| Width | 55 mm |
| Height | 132 mm |
| Depth | 136 mm |
| Net weight | 0.96 kg |
| Colour | Dark grey |

Environment

| | |
|--|--|
| Standards | EN/IEC 60947-2 EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 IEC/EN 60335-1:Clause 30.2 IEC/EN 60335-2-40:Annex JJ |
| 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 conforming to IEC 60529 |
| Climatic withstand | conforming to IACS E10 |
| Ambient air temperature for storage | -40...80 °C |
| Fire resistance | 960 °C conforming to IEC 60695-2-11 |
| Ambient air temperature for operation | -20...60 °C |
| Mechanical robustness | Shocks: 15 Gn for 11 ms contactor open Shocks: 30 Gn for 11 ms contactor closed Vibrations: 4 Gn, 5...300 Hz |
| Operating altitude | 3000 m |

Packing Units

| | |
|-------------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 16.000 cm |
| Package 1 Width | 6.500 cm |
| Package 1 Length | 14.600 cm |
| Package 1 Weight | 1.016 kg |

| | |
|-------------------------------------|------------|
| Unit Type of Package 2 | P06 |
| Number of Units in Package 2 | 120 |
| Package 2 Height | 75.000 cm |
| Package 2 Width | 60.000 cm |
| Package 2 Length | 80.000 cm |
| Package 2 Weight | 134.920 kg |

Contractual warranty

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



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

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) **30**

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **Yes**

[EU RoHS Directive](#) **Compliant with Exemptions**

SCIP Number **2057c252-f956-4ac1-a3d9-75119bc8a000**

REACH Regulation [REACH Declaration](#)

Use Again

Repack and remanufacture

Circularity Profile [End of Life Information](#)

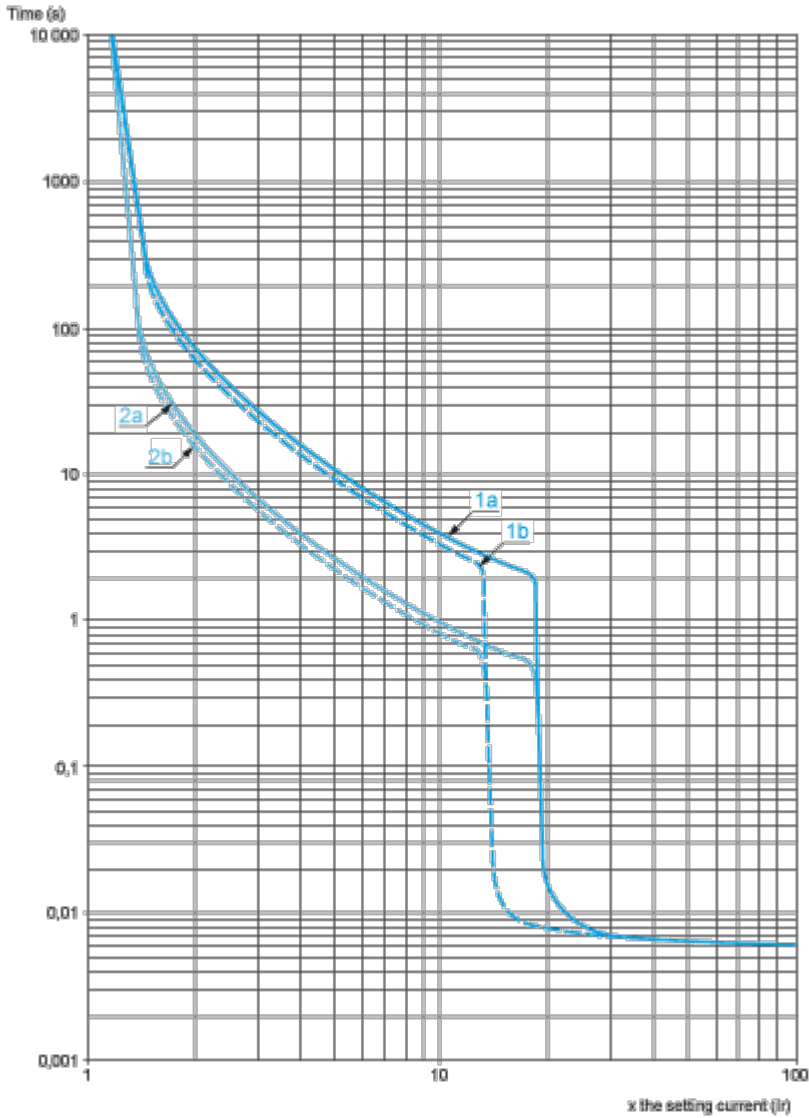
Take-back **No**

WEEE  **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

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



1a 3 poles from cold state (I_r minimum): GV3P

1b 3 poles from cold state (I_r maximum): GV3P

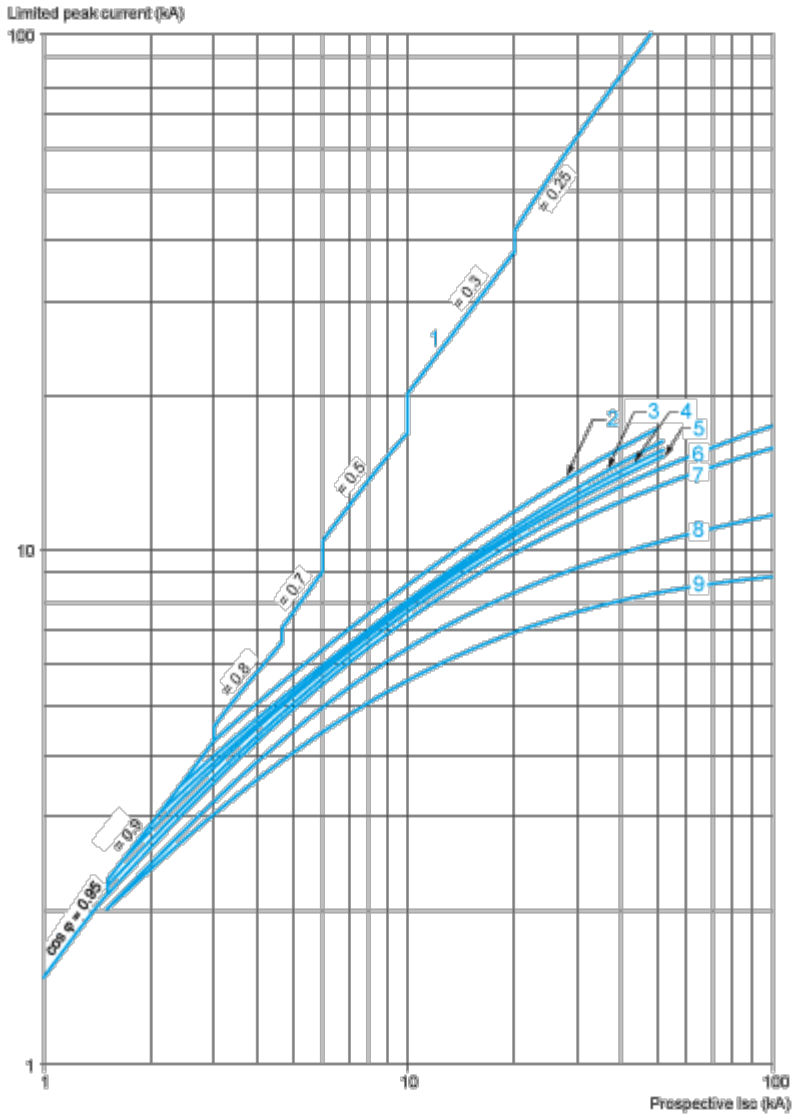
2a 3 poles from hot state (I_r minimum): GV3P

2b 3 poles from hot state (I_r maximum): GV3P

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

Dynamic Stress

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

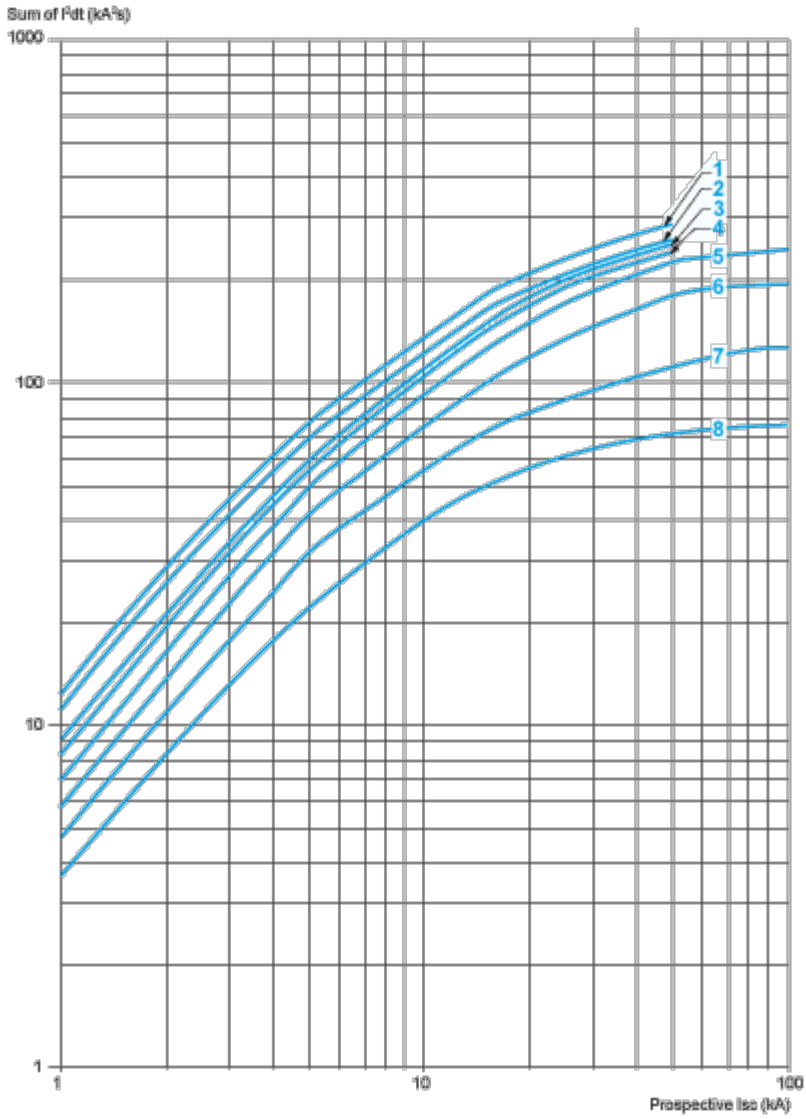


- 1 Maximum peak current
- 2 70-80 A (GV3P80), 62-73 A (GV3P73)
- 3 48-65 A (GV3P65)
- 4 37-50 A (GV3P50)
- 5 30-40 A (GV3P40)
- 6 23-32 A (GV3P32)
- 7 17-25 A (GV3P25)
- 8 12-18 A (GV3P18)
- 9 9-13 A (GV3P13)

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 Ue = 435 V

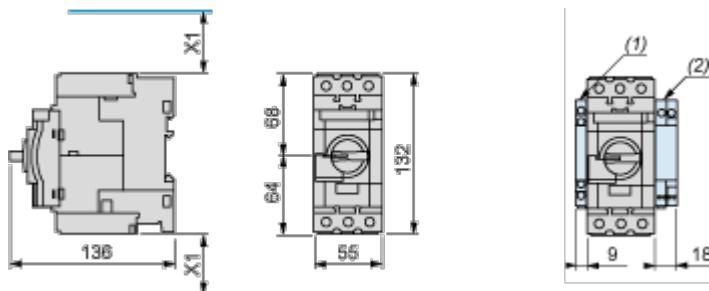


- 1 70-80 (GV3P80) - 62-73 (GV3P73)
- 2 48-65 A (GV3P65)
- 3 37-50 A (GV3P50)
- 4 30-40 A (GV3P40)
- 5 23-32 A (GV3P32)
- 6 17-25 A (GV3P25)
- 7 12-18 A (GV3P18)
- 8 9-13 A (GV3P13)

Dimensions Drawings

GV13L, GV3P

Dimensions



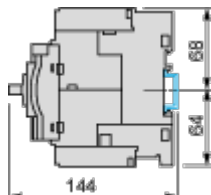
(1) Blocks GVAN_{..}, GVAD_{..} and GVAM11.

(2) Blocks GV3AU_{..} and GV3AS_{..}.

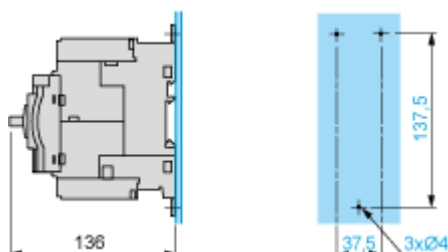
X1 = Electrical clearance (ISC max) 40 mm for U_e ≤ 500 V, 50 mm for U_e ≤ 690 V

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.

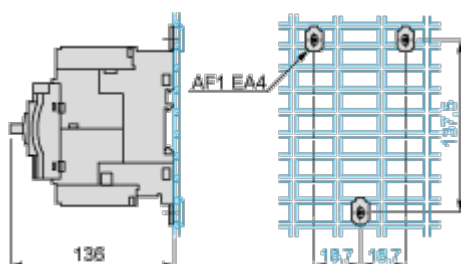
Mounting on Rail AM1 DE200 or AM1 ED201



Panel Mounting, using M4 Screws

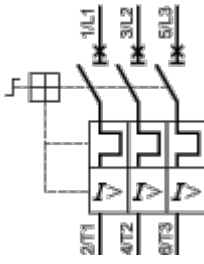


Mounting on Pre-Slotted Plate AM1 PA



Connections and Schema

GV3P••



Offer Marketing Illustration

Product benefits / Features



TeSys Deca Motor Circuit Breakers
Range Accessories

Auxiliary contact blocks

Comb busbar

Current limiter

Energy Sensor

Large spacing cover

Terminal block

Combination block

Extended rotary handle

The image displays a collection of accessories for TeSys Deca Motor Circuit Breakers. At the top left is a large black motor circuit breaker. Below it, eight different accessories are arranged in two rows of four. Each accessory is shown with a small image and a text label underneath. The accessories include auxiliary contact blocks, a comb busbar, a current limiter, an energy sensor, a large spacing cover, a terminal block, a combination block, and an extended rotary handle.

Offer Marketing Illustration

Product benefits / Features



The image shows a TeSys Deca Motor Circuit Breaker, a black industrial device with a green rotary handle and terminal block. It is mounted on a DIN rail. The device has three main terminals on top and three on the bottom. The handle is in the 'Stop' position. The Schneider logo is visible on the front panel.

TeSys Deca Motor Circuit Breakers

Technical Benefits

- Easily integrated within multiple configurations, thanks to its 55 mm standard width and mounting on DIN rail.
- 9 ratings in total
- Magnetic and thermal overload protection, covers 9 to 80 A, 7.5 to 40 hp motor with 65 kA / 480 Y Type F
- Sturdy and long-lasting power connection with EverLink terminals
- Three-position (Start/Stop/Tripped) rotary handle, front face padlocking and other accessories
- Operating temperature from -20° C to +60° C open operation

Offer Marketing Illustration

Product benefits / Features

TeSys Deca Motor Circuit Breakers



Operation and maintenance

Digital customer experience for technical documents and maintenance guide via EcoStruxure™ Facility Expert



Build and commissioning

Easier to install and operate with multi-standard screws, safe and long-lasting power connection with EverLink terminals.



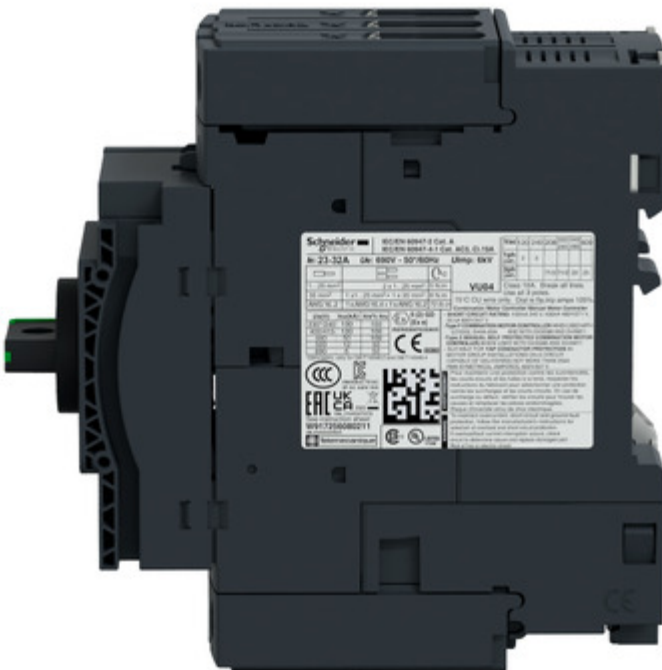
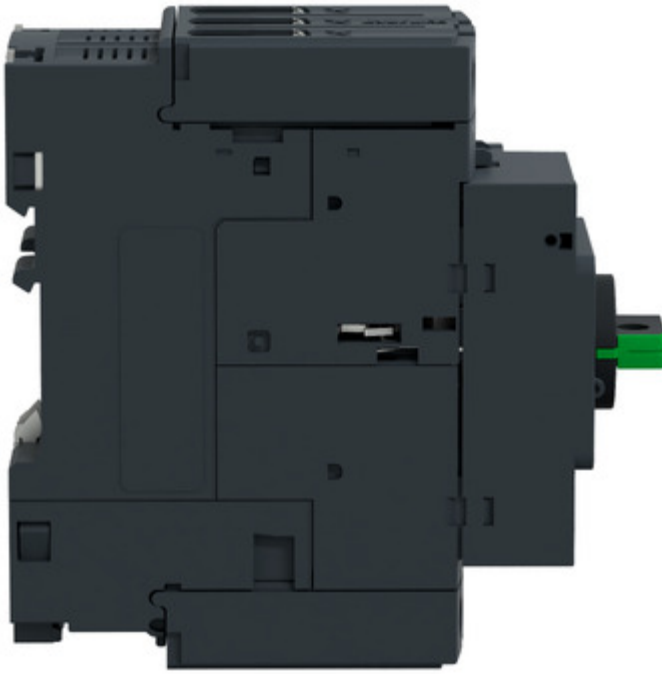
Universal Integration

Can be used for all type of applications across industry, infrastructure and buildings.



Image of product / Alternate images

Alternative





Technical Illustration

Assembly's dimensions

