

# Product datasheet

Specifications



Motor circuit breaker. TeSys GV2.  
3P. 0.16-0.25 A. thermal magnetic.  
screw clamp terminals

GV2P02

Price: 1,141.36 ZAR

## Main

|                           |                         |
|---------------------------|-------------------------|
| Range                     | TeSys Deca              |
| Product Name              | TeSys GV2<br>TeSys Deca |
| Product Or Component Type | Motor circuit breaker   |
| Device Short Name         | GV2P                    |
| Device Application        | Motor protection        |
| Trip Unit Technology      | Thermal-magnetic        |

## Complementary

|                                                     |                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poles Description                                   | 3P                                                                                                                                                                                                                                                                                                                    |
| Network Type                                        | AC                                                                                                                                                                                                                                                                                                                    |
| Utilisation Category                                | Category A conforming to IEC 60947-2<br>AC-3 conforming to IEC 60947-4-1<br>AC-3e conforming to IEC 60947-4-1                                                                                                                                                                                                         |
| Network Frequency                                   | 50/60 Hz conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                                  |
| Fixing Mode                                         | 35 mm symmetrical DIN rail: clipped<br>Panel: screwed (with 2 x M4 screws)                                                                                                                                                                                                                                            |
| Motor Power Kw                                      | 0.06 kW at 400/415 V AC 50/60 Hz                                                                                                                                                                                                                                                                                      |
| Breaking Capacity                                   | 100 kA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] Rated Service Short-Circuit Breaking Capacity | 100 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 690 V AC 50/60 Hz conforming to IEC 60947-2                          |
| Control Type                                        | Rotary handle                                                                                                                                                                                                                                                                                                         |
| [In] Rated Current                                  | 0.25 A                                                                                                                                                                                                                                                                                                                |
| Thermal Protection Adjustment Range                 | 0.16...0.25 A conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                             |
| Magnetic Tripping Current                           | 2.4 A                                                                                                                                                                                                                                                                                                                 |
| [Ith] Conventional Free Air Thermal Current         | 0.25 A conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                                    |
| [Ue] Rated Operational Voltage                      | 690 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                                                                                           |
| [Ui] Rated Insulation Voltage                       | 690 V AC 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                                                                                                                                                                                                                                                                                       |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

|                            |                                                                           |
|----------------------------|---------------------------------------------------------------------------|
| Suitability For Isolation  | Yes conforming to IEC 60947-1 § 7-1-6                                     |
| Power Dissipation Per Pole | 2.5 W                                                                     |
| Mechanical Durability      | 100000 cycles                                                             |
| Electrical Durability      | 100000 cycles for AC-3 at 415 V In<br>100000 cycles for AC-3e at 415 V In |
| Rated Duty                 | Continuous conforming to IEC 60947-4-1                                    |
| Tightening Torque          | 1.7 N.m - on screw clamp terminal                                         |
| Width                      | 45 mm                                                                     |
| Height                     | 89 mm                                                                     |
| Depth                      | 97 mm                                                                     |
| Colour                     | Dark grey                                                                 |

## Environment

|                                       |                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60947-2<br>EN/IEC 60947-4-1                                                                    |
| Product Certifications                | CCC<br>UL<br>CSA<br>EAC<br>ATEX<br>LROS (Lloyds register of shipping)<br>BV<br>RINA<br>DNV-GL<br>UKCA |
| Ik Degree Of Protection               | IK04                                                                                                  |
| 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: 30 Gn for 11 ms<br>Vibrations: 5 Gn, 5...150 Hz                                               |
| Operating Altitude                    | 2000 m                                                                                                |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type Of Package 1       | PCE       |
| Number Of Units In Package 1 | 1         |
| Package 1 Height             | 4.700 cm  |
| Package 1 Width              | 9.300 cm  |
| Package 1 Length             | 10.000 cm |
| Package 1 Weight             | 262.000 g |
| Unit Type Of Package 2       | S02       |
| Number Of Units In Package 2 | 20        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |

|                  |          |
|------------------|----------|
| Package 2 Weight | 5.570 kg |
|------------------|----------|

## Contractual warranty

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

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> 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



Rohs Exemption Information

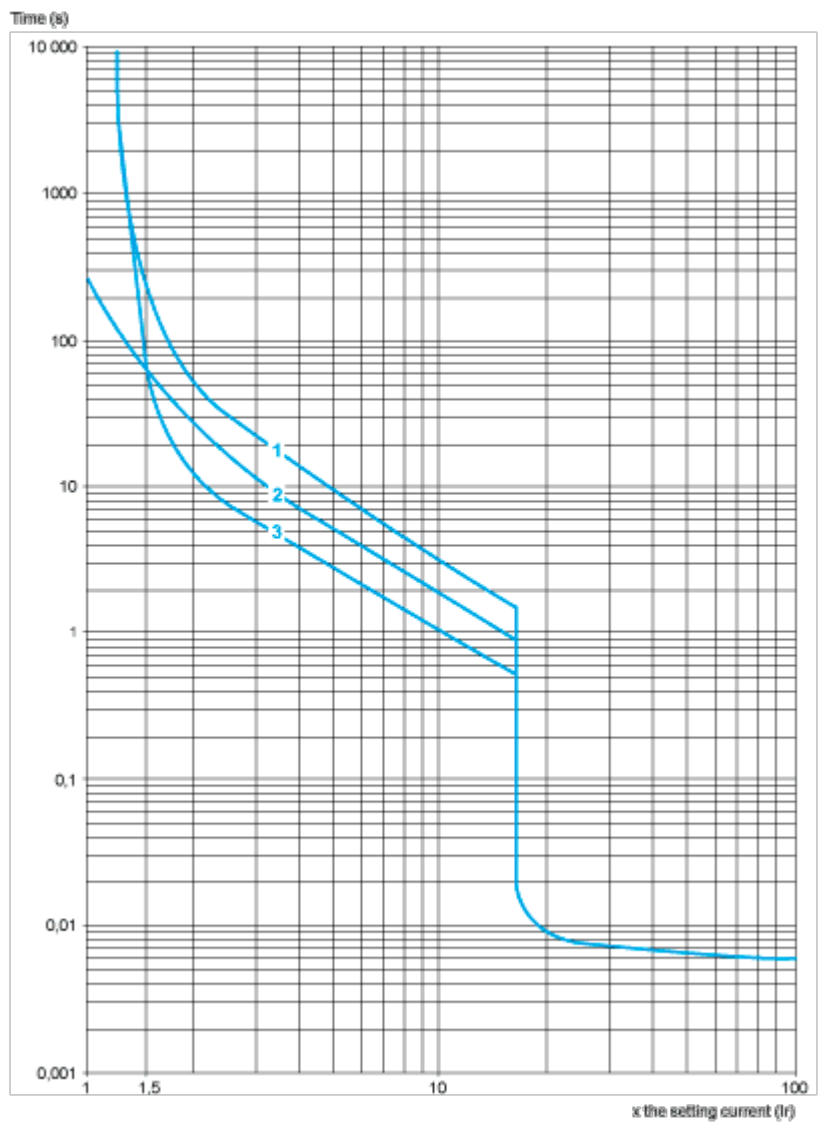
Yes

Certifications & Standards

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

Performance Curves

Thermal-Magnetic Tripping Curves for GV2ME and GV2P  
Average Operating Times at 20 °C Related to Multiples of the Setting Current

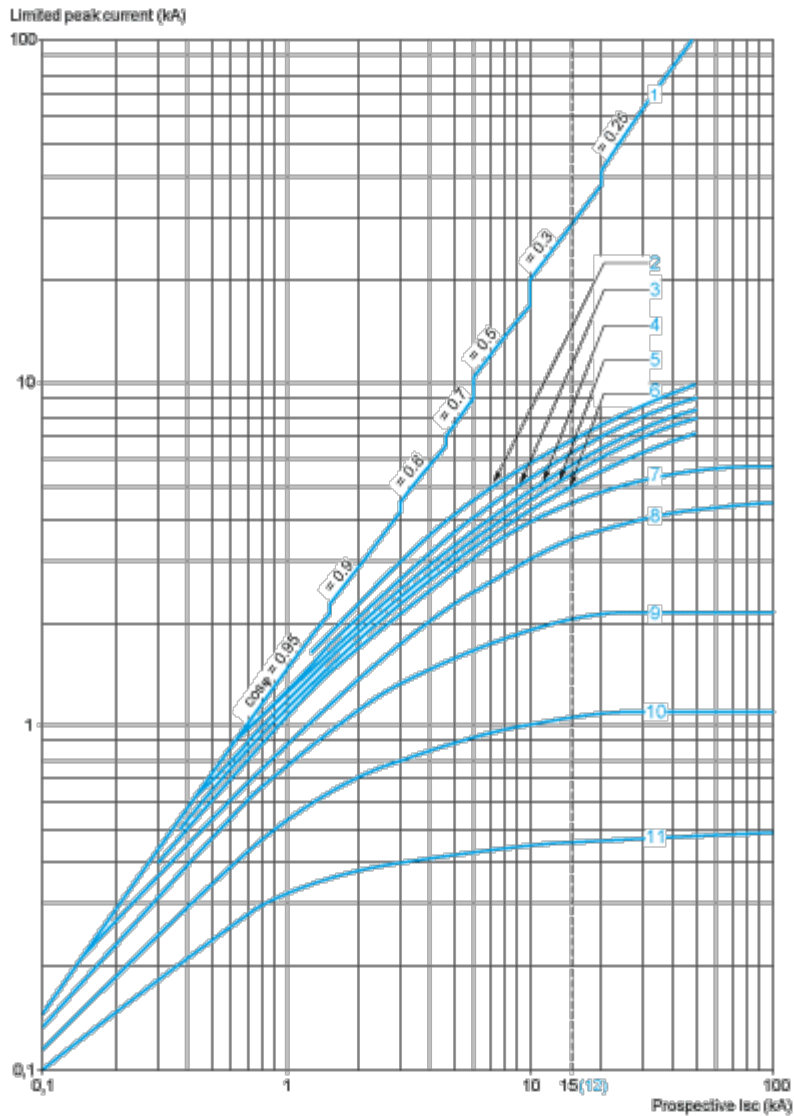


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

Current Limitation on Short-Circuit for GV2ME and GV2P (3-Phase 400/415 V)

Dynamic Stress

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

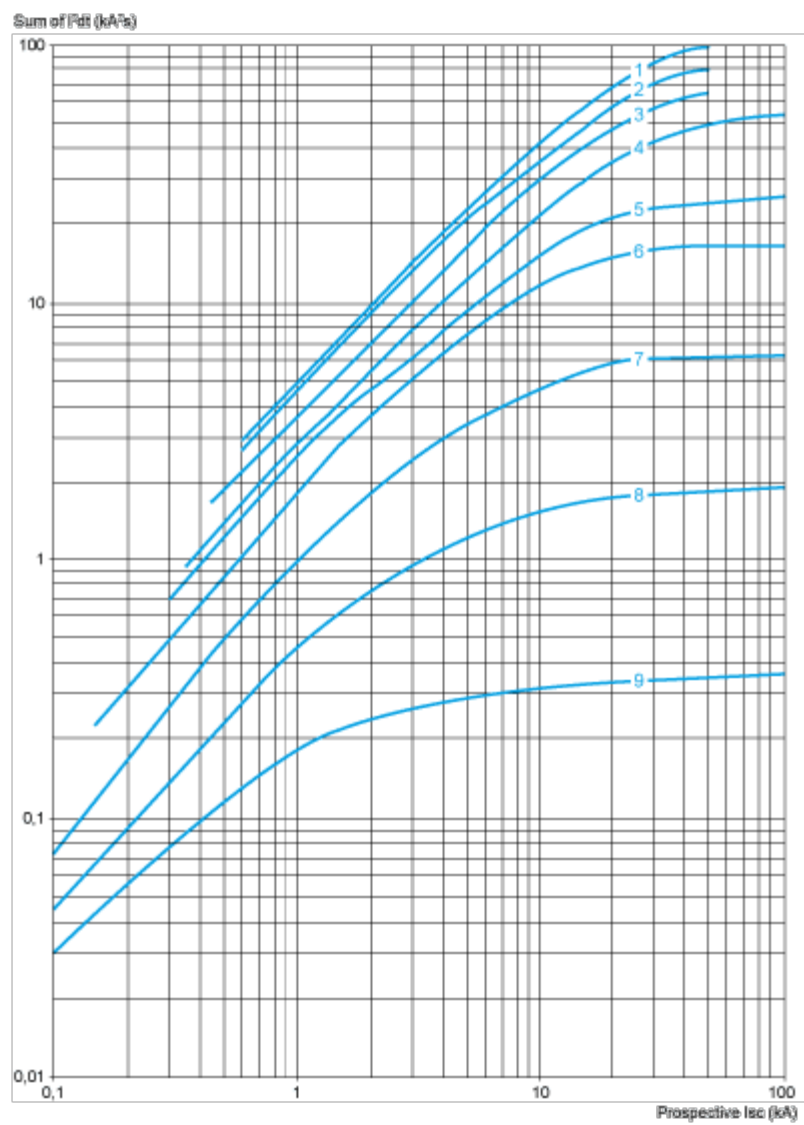


- 1 Maximum peak current
- 2 24-32 A
- 3 20-25 A
- 4 17-23 A
- 5 13-18 A
- 6 9-14 A
- 7 6-10 A
- 8 4-6.3 A
- 9 2.5-4 A
- 10 1.6-2.5 A
- 11 1-1.6 A
- 12 Limit of rated ultimate breaking capacity on short-circuit of GV2ME (14, 18, 23, and 25 A ratings).

Thermal Limit on Short-Circuit for GV2P

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

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

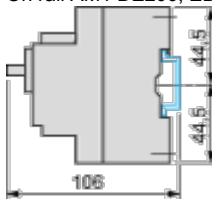


- 1 24-32 A
- 2 20-25 A
- 3 17-23 A
- 4 13-18 A
- 5 9-14 A
- 6 6-10 A
- 7 4-6.3 A
- 8 2.5-4 A
- 9 1.6-2.5 A
- 10 1-1.6 A

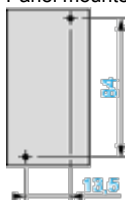
Dimensions Drawings

GV2P

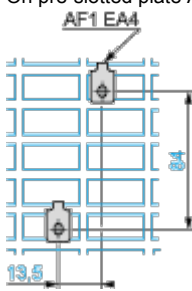
On rail AM1 DE200, ED200 (35 x 15)



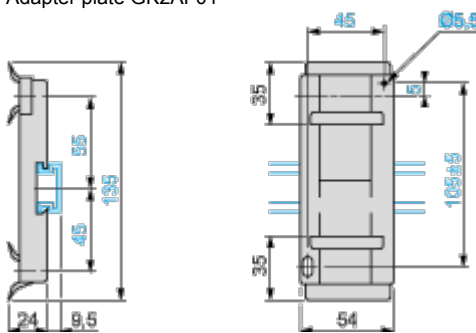
Panel mounted



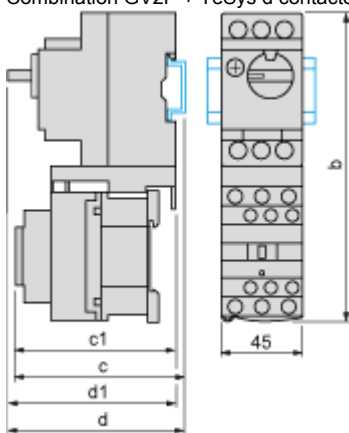
On pre-slotted plate AM1 PA



Adapter plate GK2AF01



Combination GV2P + TeSys d contactor

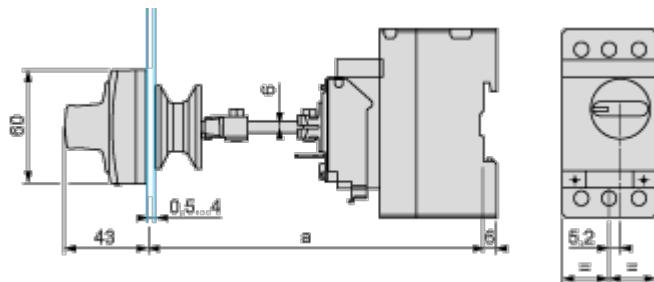




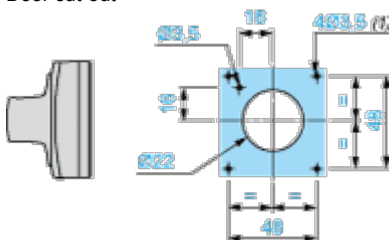
| GV2P + | LC1D09...D18 | LC1D25 and D32 |
|--------|--------------|----------------|
| b      | 176.4        | 186.8          |
| c1     | 100.1        | 106.4          |
| c      | 105.6        | 111.9          |
| d1     | 95           | 95             |
| d      | 100.5        | 100.5          |

Mounting

Mounting of External Operator GV2APN01, GV2APN02 or GV2APN04 for Motor Circuit Breakers GV2P

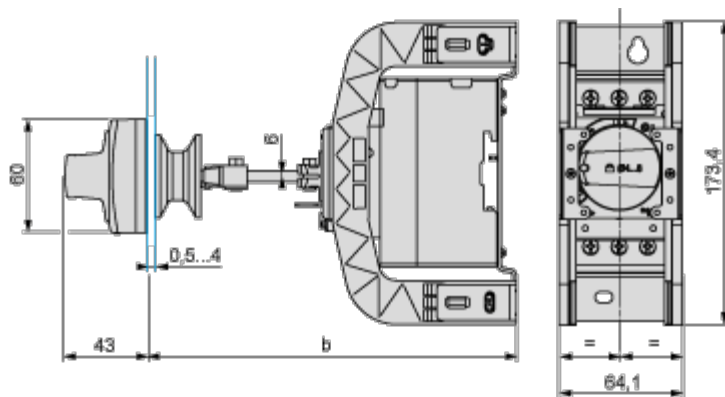


Door cut-out



(1) For IP65 only.

Mounting of External Operator GVAPH02 for Motor Circuit Breakers GV2P



|                                | a       |         | b       |         |
|--------------------------------|---------|---------|---------|---------|
|                                | Minimum | Maximum | Minimum | Maximum |
| GV2APN <sub>..</sub>           | 140     | 250     | –       | –       |
| GV2APN <sub>..</sub> + GVAPH02 | –       | –       | 151     | 250     |

## GV2P02

|                                          | a       |         | b       |         |
|------------------------------------------|---------|---------|---------|---------|
|                                          | Minimum | Maximum | Minimum | Maximum |
| GV2APN <sub>●●</sub> + GVAPK11           | 250     | 434     | –       | –       |
| GV2APN <sub>●●</sub> + GVAPH02 + GVAPK11 | –       | –       | 250     | 445     |

(1) For IP65 only.

Connections and Schema

GV2P••

