

# Product data sheet

Specifications



## TeSys Deca Manual Starter and Protector, thermal magnetic circuit protector, rotary handle, 4 to 6.3 A, screw clamp

GV2P10

Product availability: Stock - Normally stocked in distribution facility

### Main

|                           |                       |
|---------------------------|-----------------------|
| Range                     | TeSys Deca            |
| Product name              | TeSys GV2             |
| 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 IEC 60947-2<br>AC-3 IEC 60947-4-1<br>AC-3e IEC 60947-4-1                                                                                                                                                            |
| Network frequency                                   | 50/60 Hz IEC 60947-2                                                                                                                                                                                                           |
| Motor power kW                                      | 2.2 kW 400/415 V AC 50/60 Hz<br>3 kW 500 V AC 50/60 Hz<br>4 kW 690 V AC 50/60 Hz                                                                                                                                               |
| Breaking capacity                                   | 100 kA Icu 230/240 V AC 50/60 Hz IEC 60947-2<br>100 kA Icu 400/415 V AC 50/60 Hz IEC 60947-2<br>100 kA Icu 440 V AC 50/60 Hz IEC 60947-2<br>100 kA Icu 500 V AC 50/60 Hz IEC 60947-2<br>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<br>100 % 400/415 V AC 50/60 Hz IEC 60947-2<br>100 % 440 V AC 50/60 Hz IEC 60947-2<br>100 % 500 V AC 50/60 Hz IEC 60947-2<br>100 % 690 V AC 50/60 Hz IEC 60947-2                        |
| Control Type                                        | Rotary handle                                                                                                                                                                                                                  |
| Line Rated Current                                  | 6.3 A                                                                                                                                                                                                                          |
| Thermal protection adjustment range                 | 4...6.3 A IEC 60947-2                                                                                                                                                                                                          |
| Magnetic tripping current                           | 91 A                                                                                                                                                                                                                           |
| [Ith] conventional free air thermal current         | 6.3 A IEC 60947-2                                                                                                                                                                                                              |
| [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                                                                                                                                                                                                  |
| [Uimp] rated impulse withstand voltage              | 6 kV IEC 60947-2                                                                                                                                                                                                               |
| Phase failure sensitivity                           | Yes IEC 60947-4-1                                                                                                                                                                                                              |

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

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 IEC 60947-1                                                                                                                                                                                                                                                        |
| Power dissipation per pole | 2.5 W                                                                                                                                                                                                                                                                  |
| Mechanical durability      | 100000 cycles                                                                                                                                                                                                                                                          |
| Electrical durability      | 100000 cycles AC-3 415 V In<br>100000 cycles AC-3e 415 V In                                                                                                                                                                                                            |
| Rated duty                 | Uninterrupted IEC 60947-4-1                                                                                                                                                                                                                                            |
| Connections - terminals    | Power circuit screw clamp terminal 2 0.002...0.009 in² (1...6 mm²)solid<br>Power circuit screw clamp terminal 2 0.002...0.009 in² (1.5...6 mm²)flexible without cable end<br>Power circuit screw clamp terminal 2 0.002...0.006 in² (1...4 mm²)flexible with cable end |
| Tightening torque          | 15.05 lbf.in (1.7 N.m) screw clamp terminal                                                                                                                                                                                                                            |
| Fixing mode                | 35 mm symmetrical DIN rail clipped<br>Panel screwed with 2 x M4 screws)                                                                                                                                                                                                |
| Mounting position          | Horizontal<br>Vertical                                                                                                                                                                                                                                                 |
| Width                      | 1.8 in (45 mm)                                                                                                                                                                                                                                                         |
| Height                     | 3.5 in (89 mm)                                                                                                                                                                                                                                                         |
| Depth                      | 3.8 in (97 mm)                                                                                                                                                                                                                                                         |
| color                      | Dark grey                                                                                                                                                                                                                                                              |

## Environment

|                                       |                                                                                                                                          |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60947-2<br>EN/IEC 60947-4-1<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>IEC/EN 60335-2-40:Annex JJ<br>IEC/EN 60335-1:Clause 30.2 |
| 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 IEC 60529                                                                                                                           |
| Climatic withstand                    | IACS E10                                                                                                                                 |
| Ambient Air Temperature for Storage   | -40...176 °F (-40...80 °C)                                                                                                               |
| Fire resistance                       | 1760 °F (960 °C) IEC 60695-2-11                                                                                                          |
| Ambient air temperature for operation | -4...140 °F (-20...60 °C)                                                                                                                |
| Mechanical robustness                 | Shocks 30 Gn for 11 ms<br>Vibrations 5 Gn, 5...150 Hz                                                                                    |
| Operating altitude                    | <= 6561.68 ft (2000 m)                                                                                                                   |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US10I1122367  |
| Discount Schedule | 0I11          |
| GTIN              | 3389110213485 |

|                   |     |
|-------------------|-----|
| Returnability     | Yes |
| Country of origin | TH  |

## Packing Units

|                              |                             |
|------------------------------|-----------------------------|
| Unit Type of Package 1       | PCE                         |
| Nbr. of units in pkg.        | 1                           |
| Package 1 Height             | 1.890 in (4.800 cm)         |
| Package 1 Width              | 3.740 in (9.500 cm)         |
| Package 1 Length             | 3.937 in (10.000 cm)        |
| Package weight(Lbs)          | 11.358 oz (322.000 g)       |
| Unit Type of Package 2       | S02                         |
| Number of Units in Package 2 | 20                          |
| Package 2 Height             | 5.906 in (15.000 cm)        |
| Package 2 Width              | 11.811 in (30.000 cm)       |
| Package 2 Length             | 15.748 in (40.000 cm)       |
| Package 2 Weight             | 14.899 lb(US) (6.758 kg)    |
| Unit Type of Package 3       | P06                         |
| Number of Units in Package 3 | 320                         |
| Package 3 Height             | 29.528 in (75.000 cm)       |
| Package 3 Width              | 23.622 in (60.000 cm)       |
| Package 3 Length             | 31.496 in (80.000 cm)       |
| Package 3 Weight             | 252.668 lb(US) (114.608 kg) |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|

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 CO2 eq, Total Life cycle) | 9                                             |
| Environmental Disclosure                       | <a href="#">Product Environmental Profile</a> |

Use Better

| Materials and Substances               |                                                                                                                                                                                                                                                           |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                                                                                                                                                                                       |
| Packaging without single use plastic   | No                                                                                                                                                                                                                                                        |
| <a href="#">EU RoHS Directive</a>      | Compliant with Exemptions                                                                                                                                                                                                                                 |
| SCIP Number                            | D00ae559-7af7-448b-acee-face193f5d1c                                                                                                                                                                                                                      |
| REACH Regulation                       | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                         |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

Use Again

| Repack and remanufacture |                                                                                                                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                                                                                                                          |
| Take-back                | No                                                                                                                                                                                                               |
| WEEE Label               |  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 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 I<sub>sc</sub>) at 1.05 U<sub>e</sub> = 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<sup>2</sup>s in the Magnetic Operating Zone

Sum of I<sup>2</sup>dt = 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

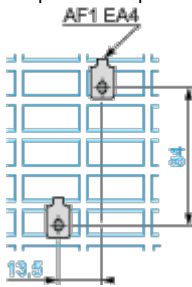
On rail AM1 DE200, ED200 (35 x 15)



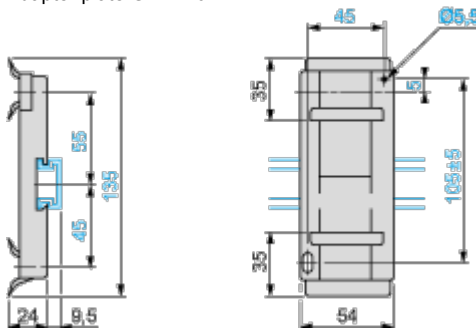
Panel mounted



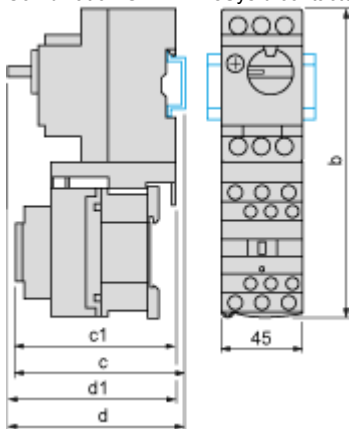
On pre-slotted plate AM1 PA



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

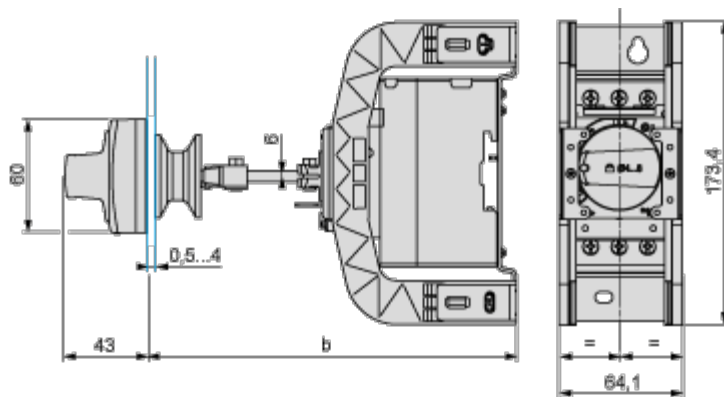


Door cut-out



(1) For IP65 only.

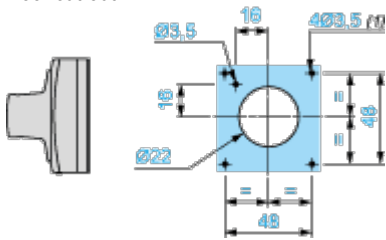
Mounting of External Operator GVAPH02 for Motor Circuit Breakers GV2P



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

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

Door cut-out



(1) For IP65 only.

Connections and Schema

---

GV2P••



Offer Marketing Illustration

Product benefits / Features

---

TeSys Deca  
Motor Circuit Breakers



Universal Integration

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



Complete protection

Provide short circuit protection, overload protection, motor (ON/OFF) control, all in a single product.



Standard Sync

Compliant to motor control and protection, in accordance with standards.



Offer Marketing Illustration

Product benefits / Features

---

### TeSys Deca Motor Circuit Breakers

#### Technical Benefits



A black TeSys Deca Motor Circuit Breaker (GV2P10) is shown against a green circular background. The device has a large green handle in the center, a 'TEST' button on the left, and a 'RESET' button on the right. The top has three screw terminals labeled 1L1, 3L2, and 5L3. The bottom has three screw terminals labeled 2T1, 4T2, and 6T3. A QR code is visible on the front panel.

- High breaking capacity up to 100 kA.
- Screw clamp for the connection, with lug and spring terminals.
- Easily identify the tripped breaker.
- Padlockable in all versions.
- Sealable thermal overload settings without additional accessories.
- Short circuit indication for better diagnostics when a trip occurs.
- Maximum 15 current ratings to cover from 0.1 A to 32 A motor current with a IP20 level for finger safety.

Offer Marketing Illustration

Product benefits / Features

---



### TeSys Deca Motor Circuit Breakers

Range Accessories



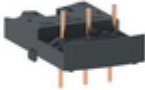
Auxiliary  
contact blocks



Energy Sensor



Terminal block



Combination block



Current limiter



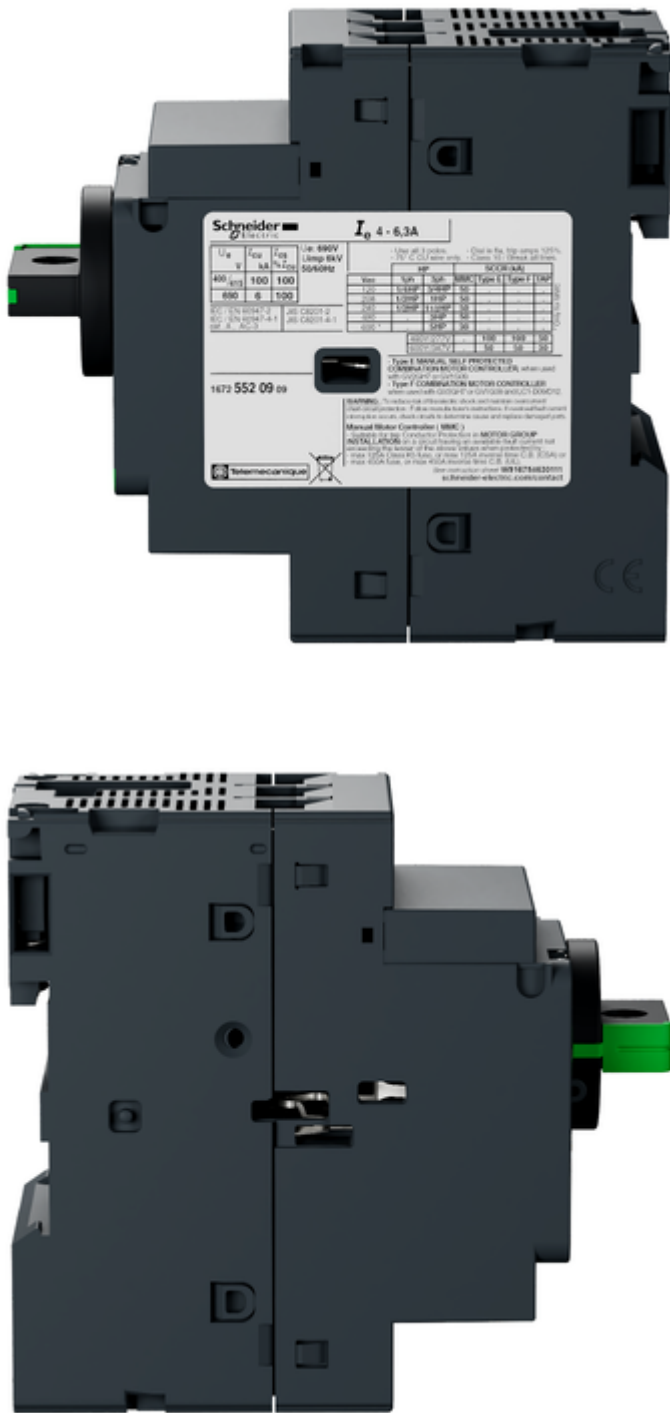
Comb busbar



Extended  
rotary handle

Image of product / Alternate images

Alternative





Technical Illustration

Assembly's dimensions

