

# GV2P01

TeSys Deca Manual Starter and Protector,  
thermal magnetic circuit protector, rotary  
handle, 0.1...0.16 A, screw clamp terminals



## 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 IEC 60947-2<br>AC-3 IEC 60947-4-1                                                                                                                                                                                     |
| Network frequency                                   | 50/60 Hz IEC 60947-4-1                                                                                                                                                                                                           |
| Fixing mode                                         | 35 mm symmetrical DIN rail clipped<br>Panel screwed with 2 x M4 screws)                                                                                                                                                          |
| 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>100 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                                  | 0.16 A                                                                                                                                                                                                                           |
| Thermal protection adjustment range                 | 0.1...0.16 A IEC 60947-4-1                                                                                                                                                                                                       |
| Magnetic tripping current                           | 1.5 A                                                                                                                                                                                                                            |
| [Ith] conventional free air thermal current         | 0.16 A IEC 60947-4-1                                                                                                                                                                                                             |
| [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                                                                                                                                                                                                                |
| Suitability for isolation                           | Yes IEC 60947-1 § 7-1-6                                                                                                                                                                                                          |
| Power dissipation per pole                          | 2.5 W                                                                                                                                                                                                                            |
| Mechanical durability                               | 100000 cycles                                                                                                                                                                                                                    |
| Electrical durability                               | 100000 cycles AC-3 415 V In                                                                                                                                                                                                      |
| Rated duty                                          | Continuous IEC 60947-4-1                                                                                                                                                                                                         |
| Tightening torque                                   | 15.05 lbf.in (1.7 N.m) screw clamp terminal                                                                                                                                                                                      |
| Width                                               | 1.77 in (45 mm)                                                                                                                                                                                                                  |
| Height                                              | 3.50 in (89 mm)                                                                                                                                                                                                                  |
| Depth                                               | 3.82 in (97 mm)                                                                                                                                                                                                                  |
| Color                                               | 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 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          | 22367-MANUAL STR PROTECTOR - GV2 |
| Discount Schedule | I11                              |
| GTIN              | 3389110213409                    |
| Returnability     | Yes                              |
| Country of origin | TH                               |

## Packing Units

|                              |                           |
|------------------------------|---------------------------|
| Unit Type of Package 1       | PCE                       |
| Number of Units in Package 1 | 1                         |
| Package 1 Height             | 3.70 in (9.4 cm)          |
| Package 1 Width              | 3.94 in (10 cm)           |
| Package 1 Length             | 1.85 in (4.7 cm)          |
| Package 1 Weight             | 9.45 oz (268 g)           |
| Unit Type of Package 2       | S02                       |
| Number of Units in Package 2 | 20                        |
| Package 2 Height             | 5.91 in (15 cm)           |
| Package 2 Width              | 11.81 in (30 cm)          |
| Package 2 Length             | 15.75 in (40 cm)          |
| Package 2 Weight             | 12.57 lb(US) (5.7 kg)     |
| Unit Type of Package 3       | P06                       |
| Number of Units in Package 3 | 320                       |
| Package 3 Height             | 29.53 in (75 cm)          |
| Package 3 Width              | 23.62 in (60 cm)          |
| Package 3 Length             | 31.50 in (80 cm)          |
| Package 3 Weight             | 223.86 lb(US) (101.54 kg) |

## Offer Sustainability

|                            |                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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> |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                         |
| EU RoHS Directive          | Compliant <a href="#">EU RoHS Declaration</a>                                                                                                                                                                                                             |
| Mercury free               | Yes                                                                                                                                                                                                                                                       |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                                                                                                                                                    |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                                                                                                                                                       |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.                                                                                                                              |

## Contractual warranty

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

### Thermal-Magnetic Tripping Curves for GV2ME and GV2P

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

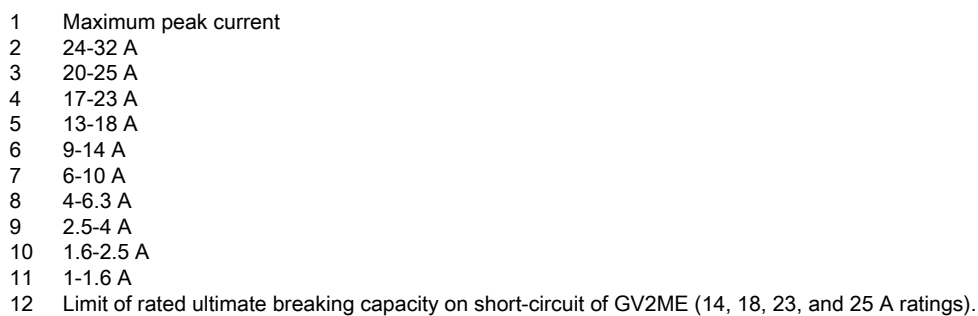


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

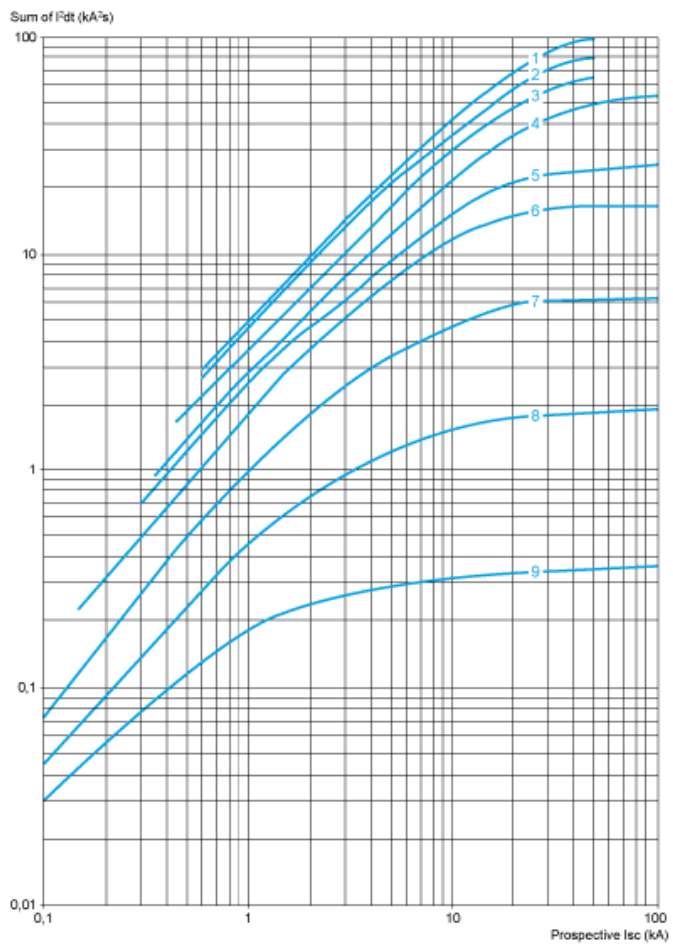
### Current Limitation on Short-Circuit for GV2ME and GV2P (3-Phase 400/415 V)

Dynamic Stress

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



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



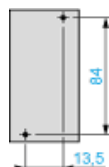
- 1 24-32 A
- 2 20-25 A
- 3 17-23 A
- 4 13-18 A
- 5 9-14 A
- 6 6-10 A
- 7 4-6.3 A
- 8 2.5-4 A
- 9 1.6-2.5 A
- 10 1-1.6 A

## GV2P

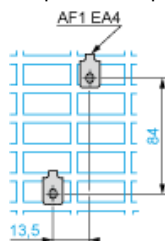
On rail AM1 DE200, ED200 (35 x 15)



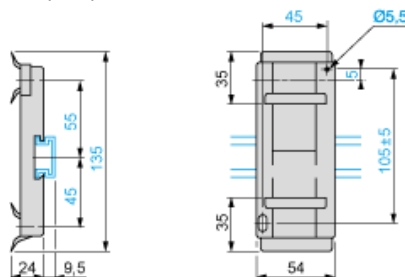
Panel mounted



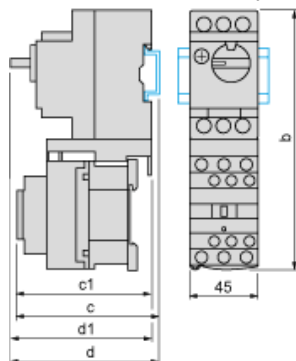
On pre-slotted plate AM1 PA



Adapter plate GK2AF01



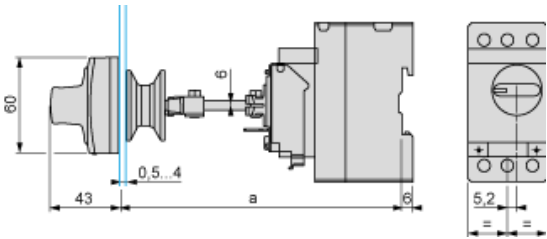
Combination GV2P + TeSys d contactor



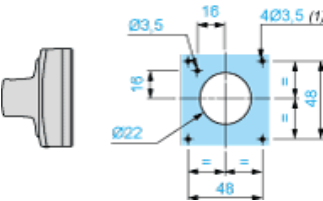
| GV2P + | LC1D09...D18 | LC1D25 and D32 |
|--------|--------------|----------------|
| b      | 176.4        | 186.8          |
| c1     | 100.1        | 106.4          |
| c      | 105.6        | 111.9          |
| d1     | 95           | 95             |
| d      | 100.5        | 100.5          |

Mounting

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

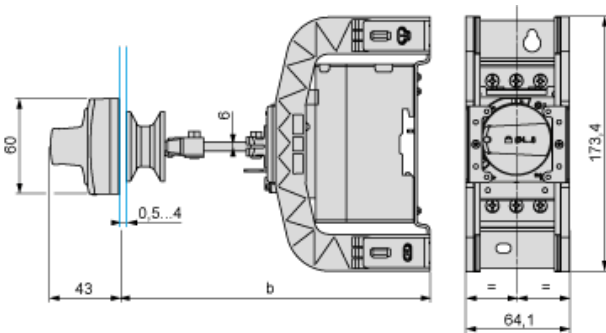


Door cut-out



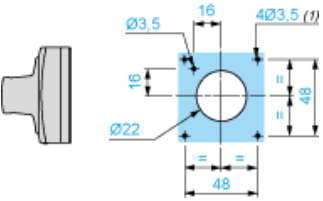
(1) For IP65 only.

Mounting of External Operator GVAPH02 for Motor Circuit Breakers GV2P



|                              | a       |         | b       |         |
|------------------------------|---------|---------|---------|---------|
|                              | Minimum | Maximum | Minimum | Maximum |
| GV2APN..                     | 140     | 250     | –       | –       |
| GV2APN.. + GVAPH02           | –       | –       | 151     | 250     |
| GV2APN.. + GVAPK11           | 250     | 434     | –       | –       |
| GV2APN.. + GVAPH02 + GVAPK11 | –       | –       | 250     | 445     |

Door cut-out



(1) For IP65 only.

GV2P••

