

# GV2P32

Motor circuit breaker, TeSys Deca, 3P, 24 to 32A, thermal magnetic, screw clamp terminals, rotary handle



## 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                                      | 15 kW at 400/415 V AC 50/60 Hz<br>18.5 kW at 500 V AC 50/60 Hz<br>22 kW at 690 V AC 50/60 Hz   |
| Breaking capacity                                   | 100 kA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>20 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>4 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>50 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>75 % at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>75 % 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                                  | 32 A   |
| Thermal protection adjustment range                 | 24...32 A conforming to IEC 60947-4-1  |
| Magnetic tripping current                           | 416 A  |
| [Ith] conventional free air thermal current         | 32 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  |
| 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   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                   |                                   |
|-------------------|-----------------------------------|
| 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[RETURN]UL[RETURN]CSA[RETURN]EAC[RETURN]ATEX[RETURN]LROS<br>(Lloyds register of shipping)[RETURN]BV[RETURN]RINA[RETURN]DNV-<br>GL[RETURN]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             | 4.800 cm   |
| Package 1 Width              | 9.300 cm   |
| Package 1 Length             | 10.000 cm  |
| Package 1 Weight             | 329.000 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             | 6.828 kg   |
| Unit Type of Package 3       | P06        |
| Number of Units in Package 3 | 320        |
| Package 3 Height             | 75.000 cm  |
| Package 3 Width              | 60.000 cm  |
| Package 3 Length             | 80.000 cm  |
| Package 3 Weight             | 116.704 kg |

## Offer Sustainability

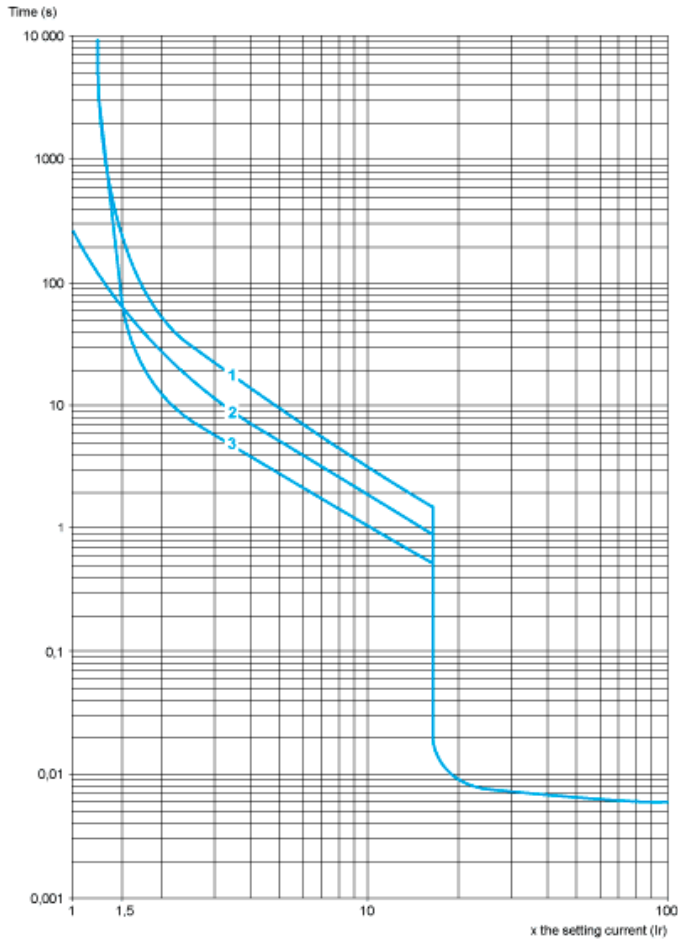
|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant with Exemptions   |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>        |
| RoHS exemption information |  <a href="#">Yes</a>                           |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |
| Circularity Profile        |  <a href="#">End Of Life Information</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

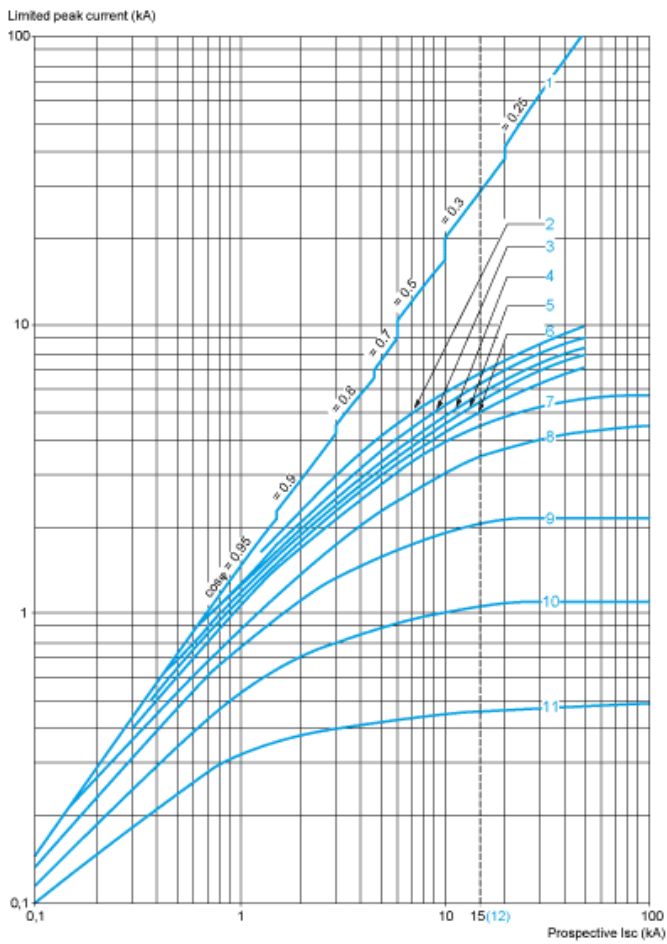


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

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

Dynamic Stress

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

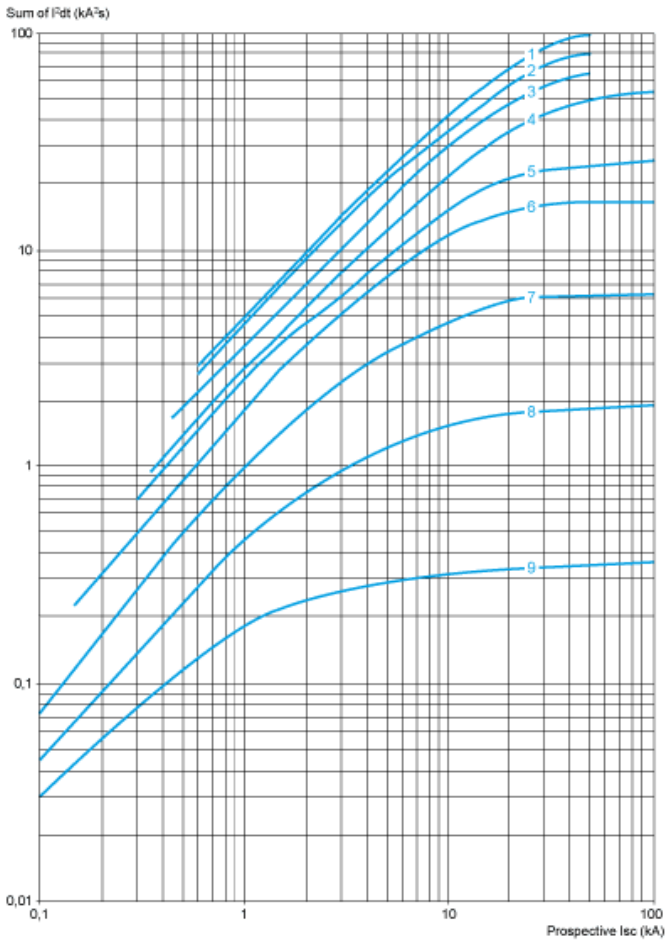


- 1 Maximum peak current
- 2 24-32 A
- 3 20-25 A
- 4 17-23 A
- 5 13-18 A
- 6 9-14 A
- 7 6-10 A
- 8 4-6.3 A
- 9 2.5-4 A
- 10 1.6-2.5 A
- 11 1-1.6 A
- 12 Limit of rated ultimate breaking capacity on short-circuit of GV2ME (14, 18, 23, and 25 A ratings).

### Thermal Limit on Short-Circuit for GV2P

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

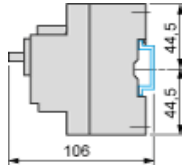
Sum of  $I^2dt = f$  (prospective Isc) at 1.05 Ue = 435 V



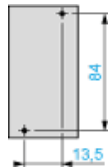
- 1 24-32 A
- 2 20-25 A
- 3 17-23 A
- 4 13-18 A
- 5 9-14 A
- 6 6-10 A
- 7 4-6.3 A
- 8 2.5-4 A
- 9 1.6-2.5 A
- 10 1-1.6 A

GV2P

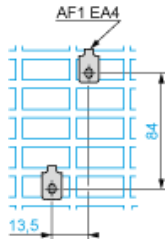
On rail AM1 DE200, ED200 (35 x 15)



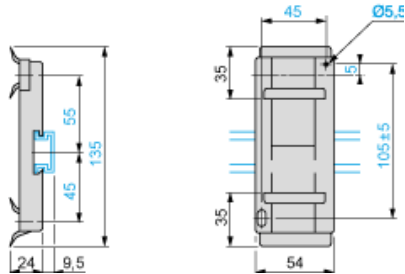
Panel mounted



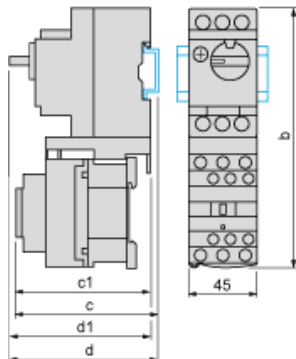
On pre-slotted plate AM1 PA



Adapter plate GK2AF01



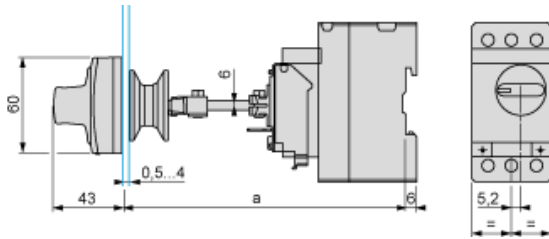
Combination GV2P + TeSys d contactor



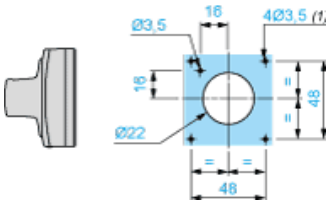
| GV2P + | LC1D09...D18 | LC1D25 and D32 |
|--------|--------------|----------------|
| b      | 176.4        | 186.8          |
| c1     | 100.1        | 106.4          |
| c      | 105.6        | 111.9          |
| d1     | 95           | 95             |
| d      | 100.5        | 100.5          |

## Mounting

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

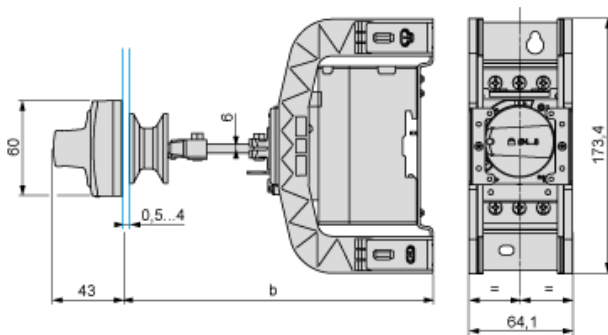


Door cut-out



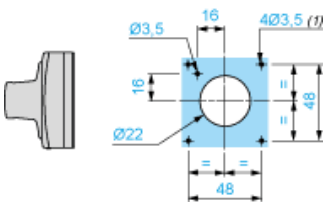
(1) For IP65 only.

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••

