



## Main

|                           |                         |
|---------------------------|-------------------------|
| Range                     | TeSys Deca              |
| Product name              | TeSys GV2<br>TeSys Deca |
| Product or Component Type | Motor circuit breaker   |
| Device short name         | GV2ME                   |
| 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 60947-4-1   |
| Fixing mode   | 35 mm symmetrical DIN rail clipped<br>Panel screwed with adaptor plate)  |
| Motor power kW                                      | 0.37 kW 400/415 V AC 50/60 Hz<br>0.55 kW 400/415 V AC 50/60 Hz<br>0.37 kW 500 V AC 50/60 Hz<br>0.55 kW 500 V AC 50/60 Hz<br>0.75 kW 500 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>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  | Push-button  |
| Line Rated Current                                  | 1.6 A  |
| Thermal protection adjustment range                 | 1...1.6 A IEC 60947-4-1  |
| Magnetic tripping current                           | 22.5 A   |
| [Ith] conventional free air thermal current         | 1.6 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<br>100000 cycles AC-3e 415 V In  |

|            |                          |
|------------|--------------------------|
| Rated duty | Continuous IEC 60947-4-1 |
| Width      | 1.77 in (45 mm)          |
| Height     | 3.98 in (101 mm)         |
| Depth      | 3.09 in (78.5 mm)        |
| Net Weight | 0.62 lb(US) (0.28 kg)    |
| Color      | Dark grey                |

## Environment

|                                       |   |
|---------------------------------------|---|
| Standards                             | EN/IEC 60947-2<br>EN/IEC 60947-4-1  |
| Product Certifications                | CCC[RETURN]JUL[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 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              | 3389110346411                    |
| Returnability     | Yes                              |
| Country of origin | FR                               |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Number of Units in Package 1 | 1                       |
| Package 1 Height             | 2.17 in (5.500 cm)      |
| Package 1 Width              | 4.33 in (11.000 cm)     |
| Package 1 Length             | 3.35 in (8.500 cm)      |
| Package 1 Weight             | 10.05 oz (284.900 g)    |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 20                      |
| Package 2 Height             | 5.91 in (15.000 cm)     |
| Package 2 Width              | 11.81 in (30.000 cm)    |
| Package 2 Length             | 15.75 in (40.000 cm)    |
| Package 2 Weight             | 13.26 lb(US) (6.014 kg) |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| 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 with Exemptions   |
| Mercury free               | Yes   |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>  |
| RoHS exemption information |  Yes   |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a>   |

---

Circularity Profile

 [End Of Life Information](#)

---

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

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

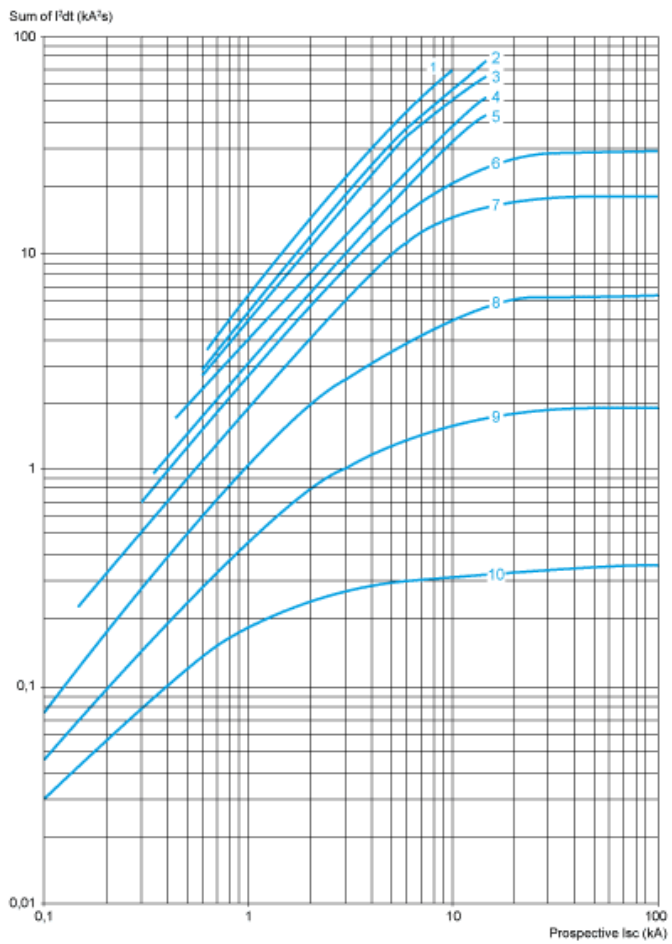


- 1 Maximum peak current
- 2 24-32 A
- 3 20-25 A
- 4 17-23 A
- 5 13-18 A
- 6 9-14 A
- 7 6-10 A
- 8 4-6.3 A
- 9 2.5-4 A
- 10 1.6-2.5 A
- 11 1-1.6 A
- 12 Limit of rated ultimate breaking capacity on short-circuit of GV2ME (14, 18, 23, and 25 A ratings).

### Thermal Limit on Short-Circuit for GV2ME

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

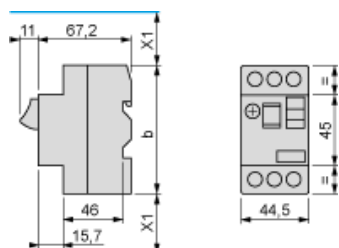
Sum of  $I^2dt = f$  (prospective Isc) at  $1.05 U_e = 435 V$



- 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

Dimension

GV2ME



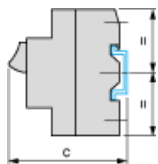
- (1) Maximum  
X1 Electrical clearance = 40 mm for  $U_e \leq 690$  V

|          | b   |
|----------|-----|
| GV2ME..  | 89  |
| GV2ME..3 | 101 |

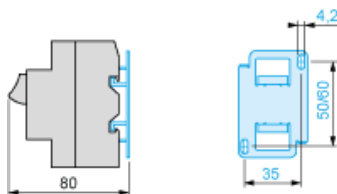
Mounting

GV2ME

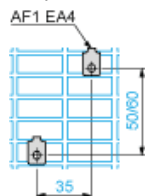
On 35 mm rail



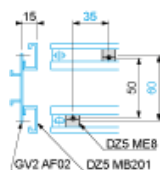
- $c = 78.5$  on AM1 DP200 (35 x 7.5)  
 $c = 86$  on AM1 DE200, ED200 (35 x 15)  
 On panel with adapter plate GV2AF02



On pre-slotted plate AM1 PA



On rails DZ5 MB201



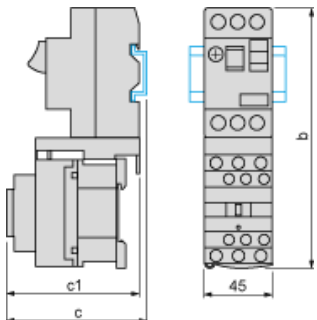
GV2AF01

Combination GV2ME + TeSys k contactor



GV2AF3

Combination GV2ME + TeSys d contactor



| GV2ME + | LC1D09...D18 | LC1D25 and D32 |
|---------|--------------|----------------|
| b       | 176.4        | 186.8          |
| c1      | 94.1         | 100.4          |
| c       | 99.6         | 105.9          |

GV2AF4 + LAD311

Combination GV2ME + TeSys d contactor



| GV2ME + | LC1D09...D18 | LC1D25 and D32 |
|---------|--------------|----------------|
| b       | 176.4        | 186.8          |
| c1      | 103.1        | 136.4          |
| c       | 135.6        | 141.9          |
| d1      | 107          | 107            |
| d       | 112.5        | 112.5          |

GV2ME + GV1L3 (Current Limiter)



X1 = 10 mm for Ue = 230 V or 30 mm for 230 V < Ue ≤ 690 V

GV2ME•• and GV2RT



Connection of Undervoltage Trip for Dangerous Machines (Conforming to INRS) on GV2ME Only

