

# Product data sheet

Specifications



Motor circuit breaker, TeSys Deca frame 2, 3P, 0.16-0.25A, thermal magnetic, push button, spring terminals

GV2ME023

## 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                                      | 0.06 kW 400/415 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                                                                                                                                                                                                                      |
| [In] rated current                                  | 0.25 A                                                                                                                                                                                                                           |
| Thermal protection adjustment range                 | 0.16...0.25 A IEC 60947-4-1                                                                                                                                                                                                      |
| Magnetic tripping current                           | 2.4 A                                                                                                                                                                                                                            |
| [Ith] conventional free air thermal current         | 0.25 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                                                                                                                                                                                                                |

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 § 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                      | 1.8 in (45 mm)                                              |
| Height                     | 4.0 in (101 mm)                                             |
| Depth                      | 3.09 in (78.5 mm)                                           |
| net weight                 | 0.62 lb(US) (0.28 kg)                                       |
| Colour                     | Dark grey                                                   |

## Environment

|                                       |                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------|
| 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                    | 2000 m                                                                                                |

## Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Number of Units in Package 1 | 1                        |
| Package 1 Height             | 2.2 in (5.5 cm)          |
| Package 1 Width              | 4.3 in (11 cm)           |
| Package 1 Length             | 3.3 in (8.5 cm)          |
| Package 1 Weight             | 9.2 oz (262 g)           |
| Unit Type of Package 2       | S02                      |
| Number of Units in Package 2 | 20                       |
| Package 2 Height             | 5.9 in (15 cm)           |
| Package 2 Width              | 11.8 in (30 cm)          |
| Package 2 Length             | 15.7 in (40 cm)          |
| Package 2 Weight             | 12.291 lb(US) (5.575 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

 Mercury Free

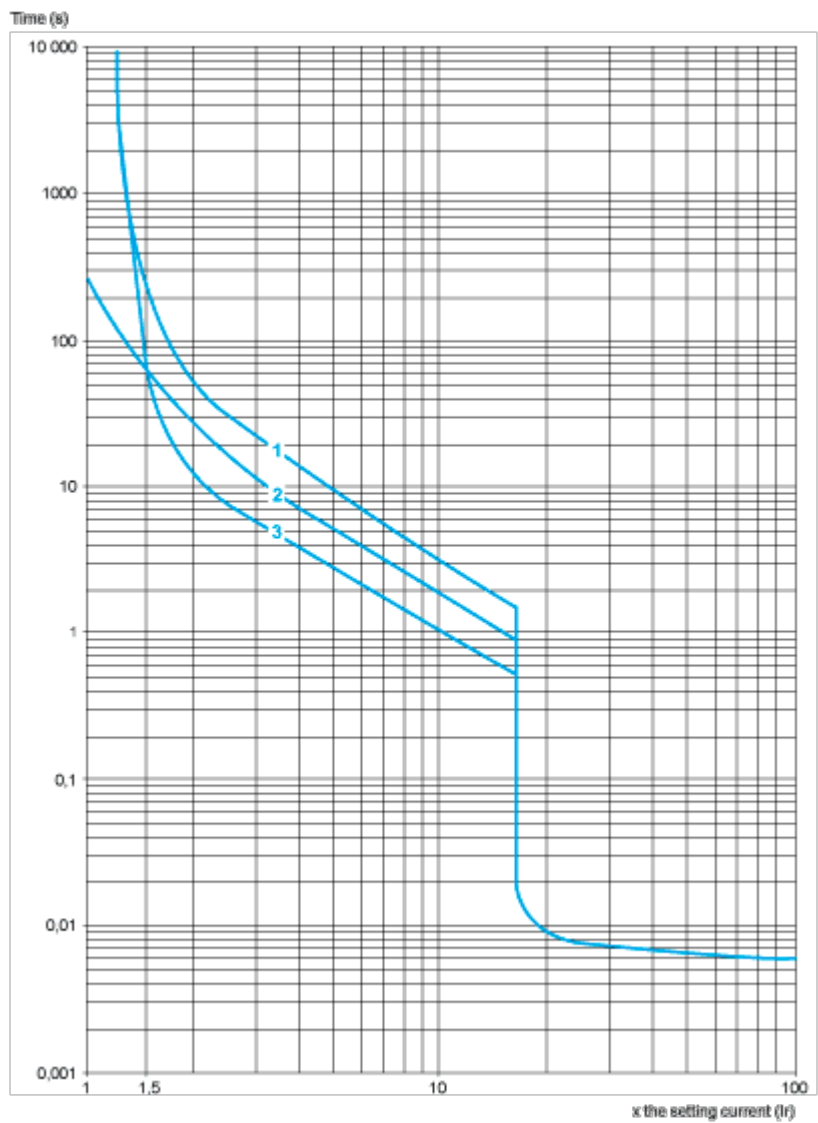
 RoHS Exemption Information   [Yes](#)

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

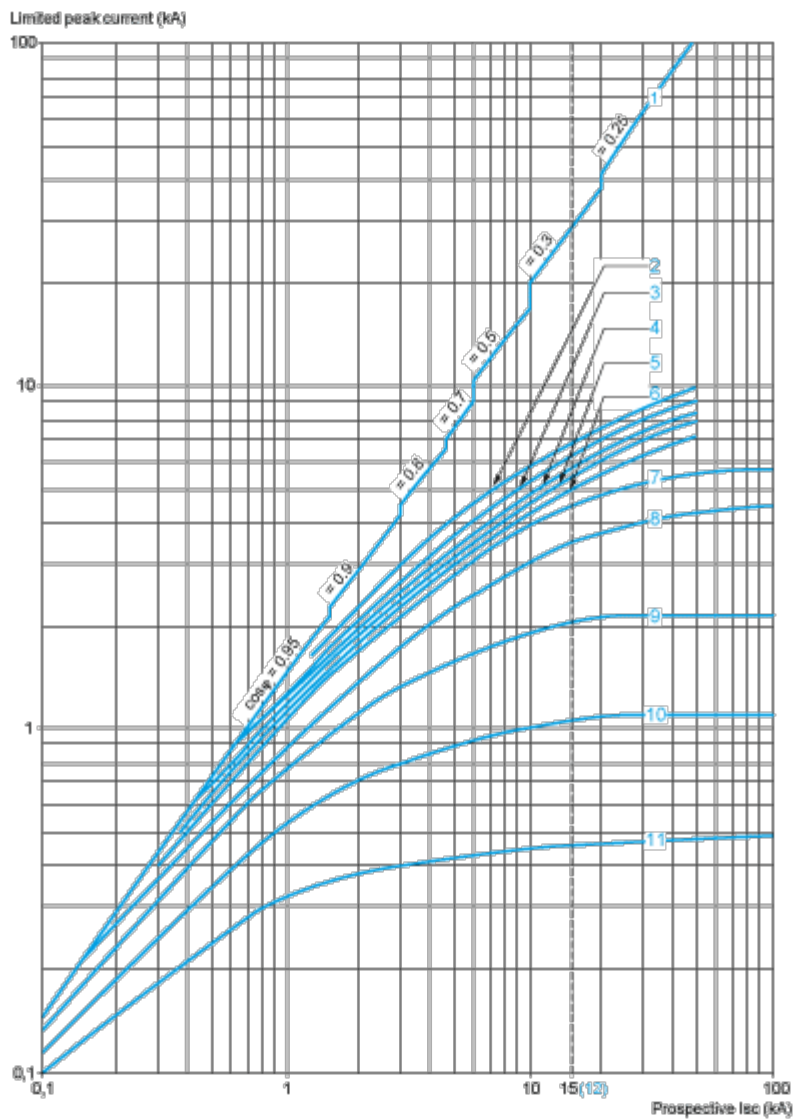


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

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

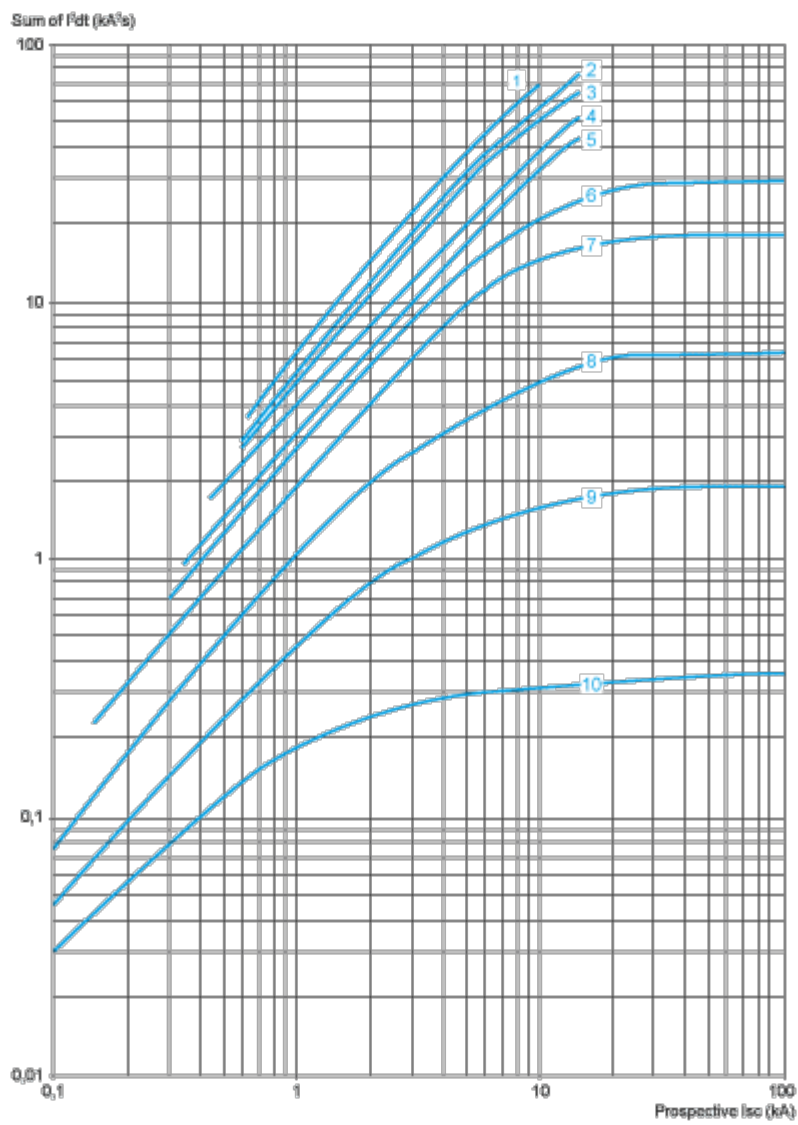
Dynamic Stress

I peak = f (prospective 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 GV2ME**  
**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

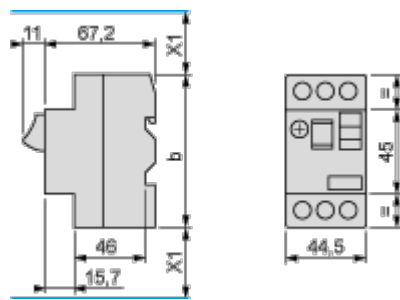


- 1 24-32 A
- 2 20-25 A
- 3 17-23 A
- 4 13-18 A
- 5 9-14 A
- 6 6-10 A
- 7 4-6.3 A
- 8 2.5-4 A
- 9 1.6-2.5 A
- 10 1-1.6 A

Dimensions Drawings

Dimension

GV2ME



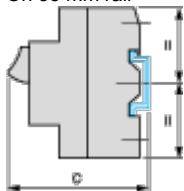
- (1) Maximum
- X1 Electrical clearance = 40 mm for  $U_e \leq 690$  V

|          | b   |
|----------|-----|
| GV2ME●●  | 89  |
| GV2ME●●3 | 101 |

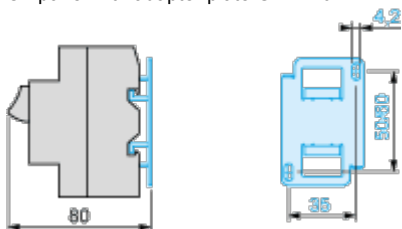
Mounting

GV2ME

On 35 mm rail

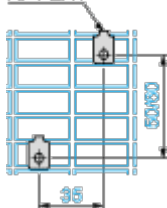


- c = 78.5 on AM1 DP200 (35 x 7.5)
- c = 86 on AM1 DE200, ED200 (35 x 15)
- On panel with adapter plate GV2AF02



On pre-slotted plate AM1 PA

AF1 EA4



On rails DZ5 MB201

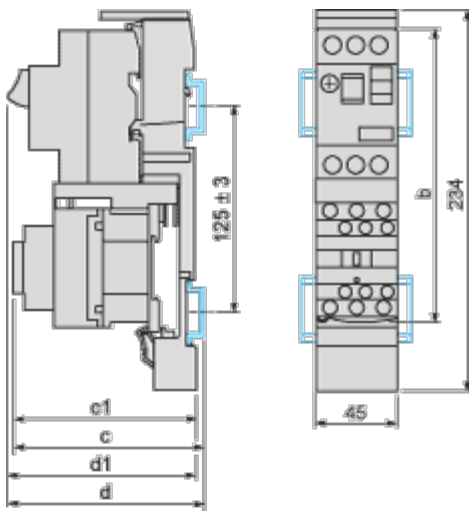
## GV2ME023



GV2AF3

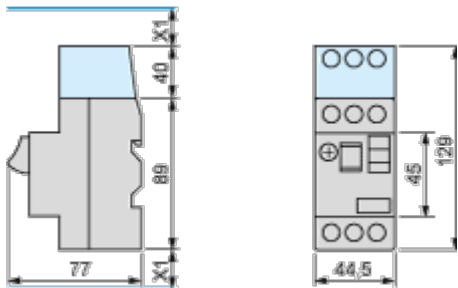
GV2AF4 + LAD311

9



| 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          |

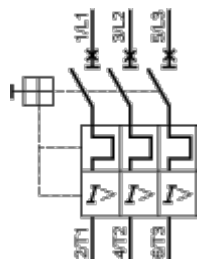
GV2ME + GV1L3 (Current Limiter)



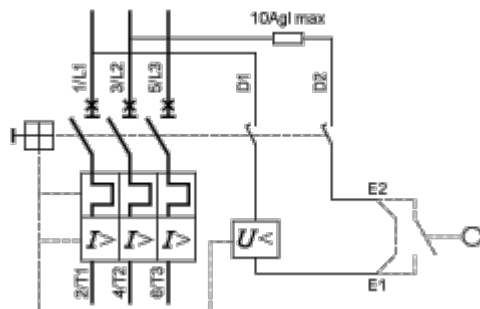
X1 = 10 mm for Ue = 230 V or 30 mm for 230 V < Ue ≤ 690 V

Connections and Schema

GV2ME•• and GV2RT



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



Offer Marketing Illustration

Product benefits / Features

---



The image shows a TeSys Deca Motor Circuit Breaker, a black industrial device with a red handle. It has three screw terminals at the top labeled 1, 2, and 3, and three at the bottom labeled 2, 4, and 6. The front panel features a red handle with 'ON' and 'OFF' markings, a 'RESET' button, and a 'STOP' button. A QR code is visible on the front panel. The device is set against a green circular background.

### TeSys Deca Motor Circuit Breakers

#### Technical Benefits

- 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



Energy Sensor



Mounting and adapters



Terminal block



Combination block



Motor starter adapter plate



Current limiter



Comb busbar



Auxiliary contact blocks

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.



14

Life Is On | Schneider Electric

Oct 16, 2024

Image of product / Alternate images

Alternative

---

