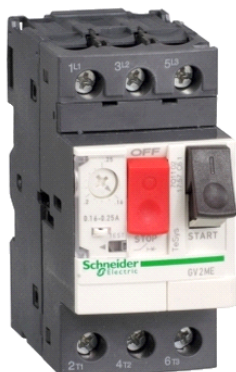


## GV2ME06

TeSys GV2 Manual Starter and Protector, thermal magnetic circuit protector, push buttons, 1...1.6 A, screw clamp terminals



### Main

|                           |                  |
|---------------------------|------------------|
| Range                     | TeSys            |
| Product name              | TeSys GV2        |
| Device short name         | GV2ME            |
| Product or component type | Circuit breaker  |
| Device application        | Motor            |
| Trip unit technology      | Thermal-magnetic |

### Complementary

|                                                     |                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Poles description                                   | 3P                                                                                                                                                                                                                                                                                                                    |
| Network type                                        | AC                                                                                                                                                                                                                                                                                                                    |
| Utilisation category                                | AC-3 conforming to IEC 60947-4-1<br>Category A conforming to IEC 60947-2                                                                                                                                                                                                                                              |
| Network frequency                                   | 50/60 Hz conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                                  |
| Fixing mode                                         | Clipped on 35 mm symmetrical DIN rail<br>Screwed on panel (with adaptor plate)                                                                                                                                                                                                                                        |
| Operating position                                  | Any position                                                                                                                                                                                                                                                                                                          |
| Motor power kW                                      | 0.37 kW at 400/415 V AC 50/60 Hz<br>0.37 kW at 500 V AC 50/60 Hz<br>0.55 kW at 400/415 V AC 50/60 Hz<br>0.55 kW at 500 V AC 50/60 Hz<br>0.75 kW at 500 V AC 50/60 Hz<br>0.75 kW at 690 V AC 50/60 Hz<br>1.1 kW at 690 V AC 50/60 Hz                                                                                   |
| Breaking capacity                                   | 100 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>100 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>100 % at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % 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<br>100 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2                          |
| Control type                                        | Push-button                                                                                                                                                                                                                                                                                                           |
| [In] rated current                                  | 1.6 A                                                                                                                                                                                                                                                                                                                 |
| Trip unit rating                                    | 1...1.6 A                                                                                                                                                                                                                                                                                                             |
| Magnetic tripping current                           | 22.5 A                                                                                                                                                                                                                                                                                                                |
| System 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                                                                                                                                                                                                                                                                           |
| [Ith] conventional free air thermal current         | 1.6 A conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                                     |
| [Uimp] rated impulse withstand voltage              | 6 kV conforming to IEC 60947-2                                                                                                                                                                                                                                                                                        |
| Power dissipation per pole                          | 2.5 W                                                                                                                                                                                                                                                                                                                 |
| Mechanical durability                               | 100000 cycles                                                                                                                                                                                                                                                                                                         |
| Electrical durability                               | 100000 cycles AC-3 at 440 V                                                                                                                                                                                                                                                                                           |
| Operating rate                                      | 25 cyc/h                                                                                                                                                                                                                                                                                                              |
| Rated duty                                          | Continuous conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                                |
| Connections - terminals                             | Screw clamp terminals 2 cable(s) 1...6 mm <sup>2</sup> solid                                                                                                                                                                                                                                                          |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the Schneider Electric group. It 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 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.

|                           |                                                                                                                                                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | Screw clamp terminals 2 cable(s) 1.5...6 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> flexible with cable end |
| Tightening torque         | 1.7 N.m on screw clamp terminals                                                                                                                                      |
| Suitability for isolation | Yes conforming to IEC 60947-1                                                                                                                                         |
| Phase failure sensitivity | Yes conforming to IEC 60947-4-1                                                                                                                                       |
| Height                    | 3.5 in (89 mm)                                                                                                                                                        |
| Width                     | 1.77 in (45 mm)                                                                                                                                                       |
| Depth                     | 3.08 in (78.2 mm)                                                                                                                                                     |
| Product weight            | 0.57 lb(US) (0.26 kg)                                                                                                                                                 |

## Environment

|                                       |                                                                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| standards                             | EN 60204<br>IEC 60947-1<br>IEC 60947-2<br>IEC 60947-4-1<br>NF C 63-120<br>NF C 63-650<br>NF C 79-130<br>UL 508<br>VDE 0113<br>VDE 0660<br>CSA C22.2 |
| product certifications                | ATEX<br>BV<br>CCC<br>CEBEC<br>CSA<br>DNV<br>EZU<br>GL<br>LROS (Lloyds register of shipping)<br>RINA<br>SETI<br>TSE<br>UL<br>EAC                     |
| protective treatment                  | TH                                                                                                                                                  |
| IP degree of protection               | IP20 conforming to IEC 60529                                                                                                                        |
| IK degree of protection               | IK04                                                                                                                                                |
| ambient air temperature for operation | -4...140 °F (-20...60 °C)                                                                                                                           |
| ambient air temperature for storage   | -40...176 °F (-40...80 °C)                                                                                                                          |
| fire resistance                       | 1760 °F (960 °C) conforming to IEC 60695-2-1                                                                                                        |
| operating altitude                    | 6561.68 ft (2000 m)                                                                                                                                 |

## Offer Sustainability

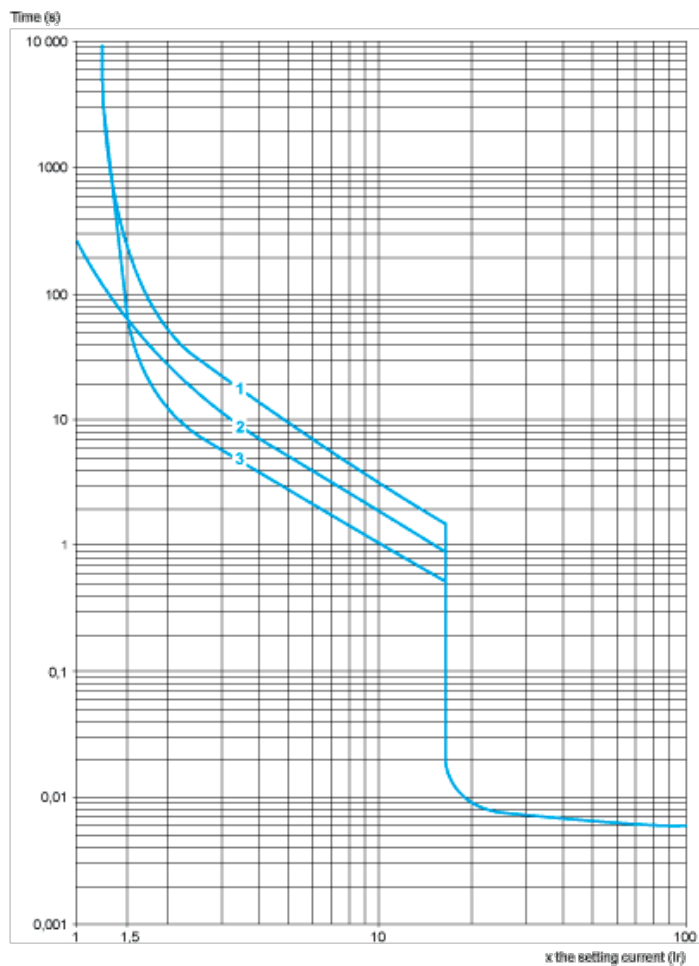
|                                                                                                |                                                                                                |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Green Premium product                                                                          | Green Premium product                                                                          |
| Compliant - since 0631 - Schneider Electric declaration of conformity                          | Compliant - since 0631 - Schneider Electric declaration of conformity                          |
| Reference contains SVHC above the threshold - go to CaP for more details                       | Reference contains SVHC above the threshold                                                    |
| Available                                                                                      | Available                                                                                      |
| Need no specific recycling operations                                                          | Need no specific recycling operations                                                          |
| WARNING: This product can expose you to chemicals including:                                   | WARNING: This product can expose you to chemicals including:                                   |
| Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. | 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>  | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>  |

## Contractual warranty

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

## Thermal-Magnetic Tripping Curves for GV2ME and GV2P

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

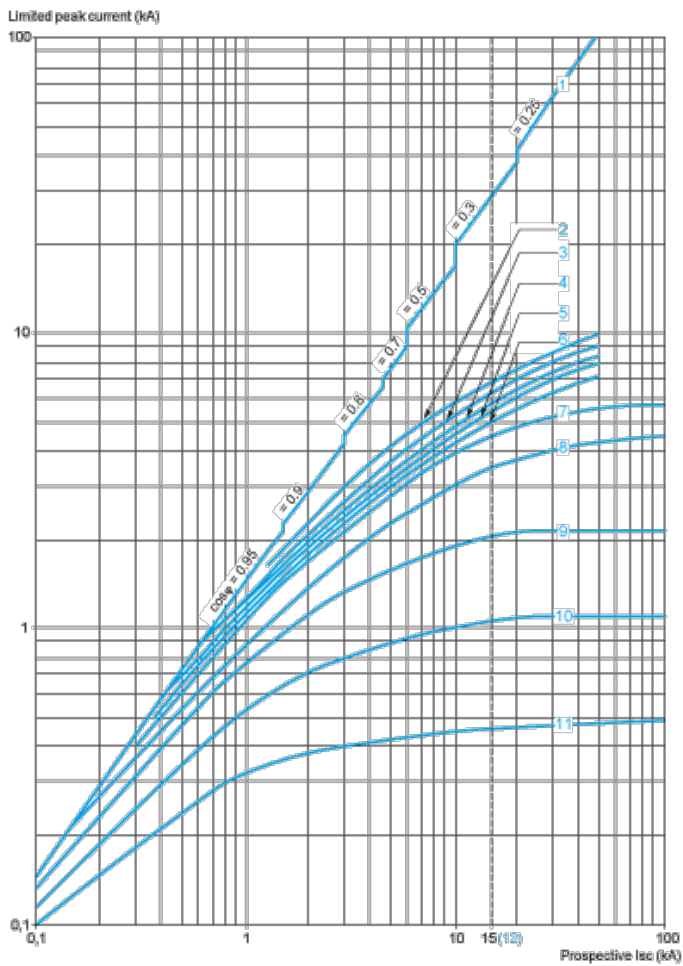


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

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

#### Dynamic Stress

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

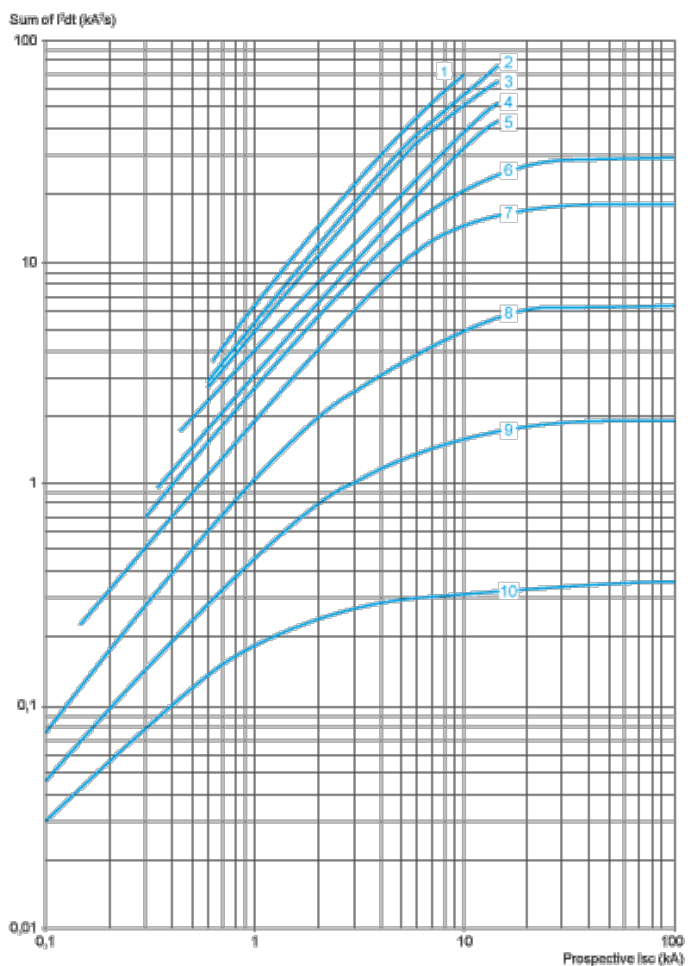


- 1 Maximum peak current
- 2 24-32 A
- 3 20-25 A
- 4 17-23 A
- 5 13-18 A
- 6 9-14 A
- 7 6-10 A
- 8 4-6.3 A
- 9 2.5-4 A
- 10 1.6-2.5 A
- 11 1-1.6 A
- 12 Limit of rated ultimate breaking capacity on short-circuit of GV2ME (14, 18, 23, and 25 A ratings).

#### Thermal Limit on Short-Circuit for GV2ME

#### Thermal Limit in kA<sup>2</sup>s in the Magnetic Operating Zone

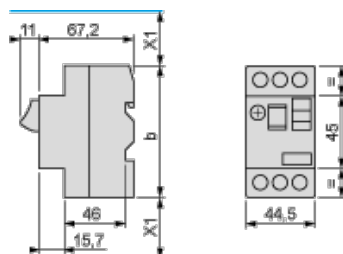
Sum of  $I^2dt = f$  (prospective  $I_{sc}$ ) at  $1.05 U_e = 435 V$



- 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

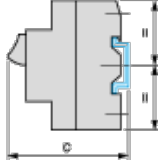
X1 Electrical clearance = 40 mm for  $U_e \leq 690$  V

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

### Mounting

## GV2ME

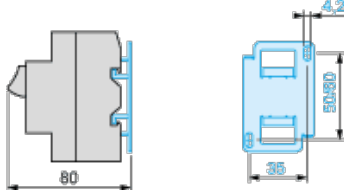
On 35 mm rail



c = 78.5 on AM1 DP200 (35 x 7.5)

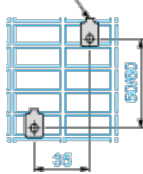
c = 86 on AM1 DE200, ED200 (35 x 15)

On panel with adapter plate GV2AF02

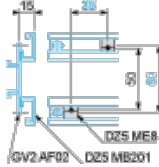


On pre-slotted plate AM1 PA

AF1 EA4

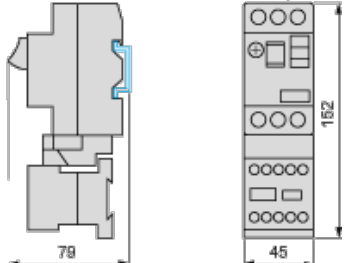


On rails DZ5 MB201



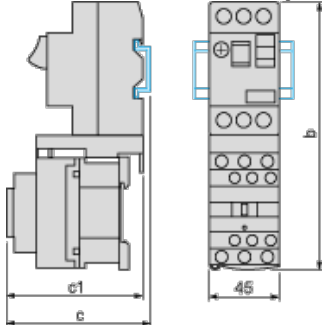
## GV2AF01

Combination GV2ME + TeSys k contactor



## GV2AF3

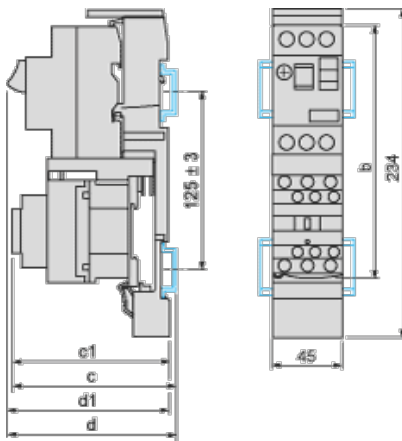
Combination GV2ME + TeSys d contactor



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

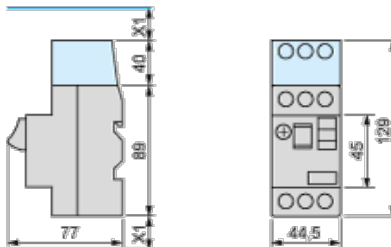
## GV2AF4 + LAD311

Combination GV2ME + TeSys d contactor



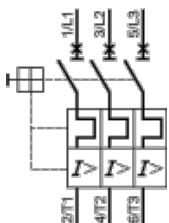
| GV2ME + | LC1D09...D18 | LC1D25 and D32 |
|---------|--------------|----------------|
| b       | 176.4        | 186.8          |
| c1      | 103.1        | 136.4          |
| c       | 135.6        | 141.9          |
| d1      | 107          | 107            |
| d       | 112.5        | 112.5    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

#### GV2ME + GV1L3 (Current Limiter)

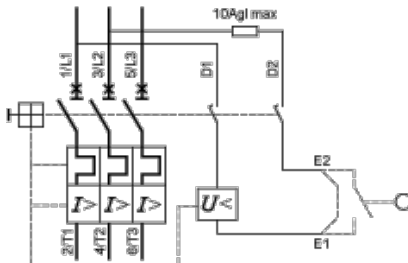


X1 = 10 mm for  $U_e = 230\text{ V}$  or 30 mm for  $230\text{ V} < U_e \leq 690\text{ V}$

#### GV2ME•• and GV2RT



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





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Электрон  
Связь**

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