

# GV2ME10

TeSys GV2 Manual Starter and Protector,  
thermal magnetic circuit protector, push  
buttons, 4 to 6.3 A, screw clamp



Product availability: Stock - Normally stocked in distribution facility



## Main

|                      |                  |
|----------------------|------------------|
| Range                | TeSys            |
| Product name         | TeSys GV2        |
| Device short name    | GV2ME            |
| 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                                      | 3 kW at 500 V AC 50/60 Hz<br>4 kW at 690 V AC 50/60 Hz<br>2.2 kW at 400/415 V AC 50/60 Hz                                                                                                                                                                                                                         |
| Breaking capacity                                   | 3 kA Icu at 690 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>50 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 |
| [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>75 % 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                                  | 6.3 A                                                                                                                                                                                                                                                                                                             |
| Thermal protection adjustment range                 | 4...6.3 A                                                                                                                                                                                                                                                                                                         |
| Magnetic tripping current                           | 78 A                                                                                                                                                                                                                                                                                                              |
| System Voltage                                      | 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         | 6.3 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) 0...0.01 in <sup>2</sup> (1...6 mm <sup>2</sup> ) solid<br>Screw clamp terminals 2 cable(s) 0...0.01 in <sup>2</sup> (1.5...6 mm <sup>2</sup> ) flexible without cable end<br>Screw clamp terminals 2 cable(s) 0...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> ) flexible with cable end |
| Tightening torque         | 15.04 lbf.in (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                             | IEC 60947-1<br>UL 508<br>EN 60204<br>CSA C22.2<br>IEC 60947-2<br>NF C 63-650<br>NF C 63-120<br>IEC 60947-4-1<br>VDE 0113<br>VDE 0660<br>NF C 79-130 |
| Product certifications                | EAC<br>TSE<br>EZU<br>ATEX<br>CSA<br>SETI<br>GL<br>LROS (Lloyds register of shipping)<br>BV<br>RINA<br>DNV<br>UL<br>CCC<br>CEBEC                     |
| 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)                                                                                                                                 |

## Ordering and shipping details

|                       |                                    |
|-----------------------|------------------------------------|
| Category              | 22367 - MANUAL STR PROTECTOR - GV2 |
| Discount Schedule     | I11                                |
| GTIN                  | 00785901211969                     |
| Nbr. of units in pkg. | 1                                  |
| Package weight(Lbs)   | 0.62                               |
| Returnability         | Y                                  |
| Country of origin     | TH                                 |

## Offer Sustainability

|                                  |                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                                                              |
| RoHS (date code: YYWW)           | Compliant - since 0631 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference contains SVHC above the threshold - Go to CaP for more details-<br><a href="#">Go to CaP for more details</a>            |
| Product environmental profile    | Available                                                                                                                          |
| Product end of life instructions | Need no specific recycling operations                                                                                              |

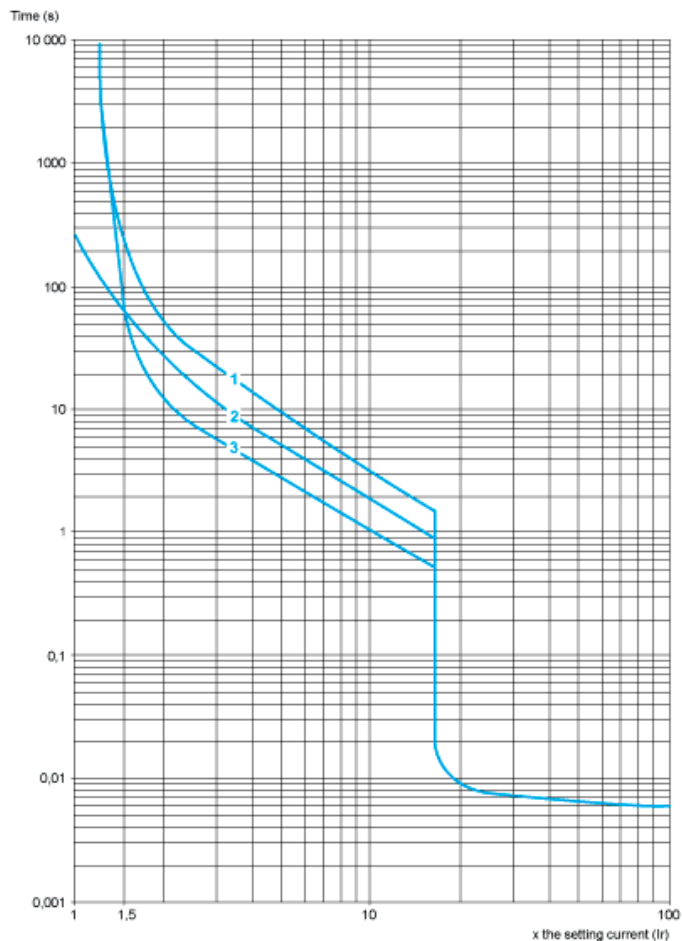
|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| California proposition 65  | WARNING: This product can expose you to chemicals including:                                   |
| - - - - - Substance 1      | Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. |
| - - - - - More information | 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

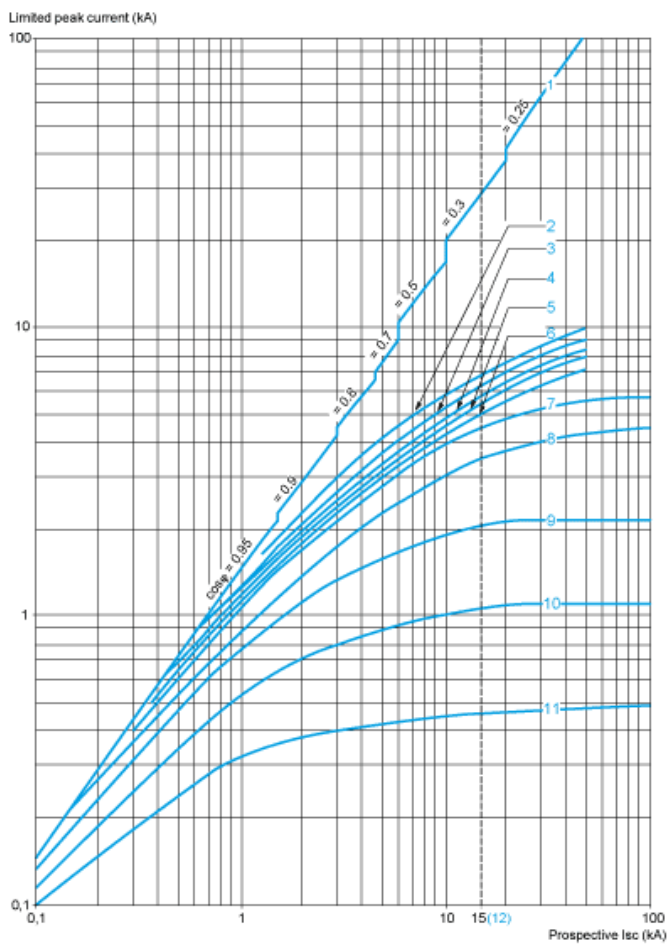


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

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

Dynamic Stress

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

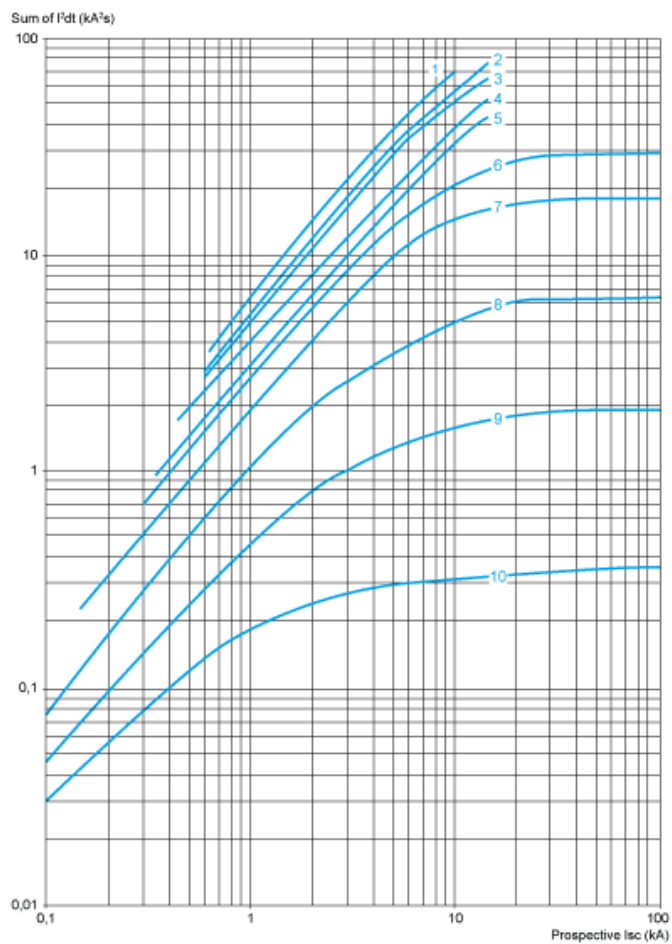


- 1 Maximum peak current
- 2 24-32 A
- 3 20-25 A
- 4 17-23 A
- 5 13-18 A
- 6 9-14 A
- 7 6-10 A
- 8 4-6.3 A
- 9 2.5-4 A
- 10 1.6-2.5 A
- 11 1-1.6 A
- 12 Limit of rated ultimate breaking capacity on short-circuit of GV2ME (14, 18, 23, and 25 A ratings).

### Thermal Limit on Short-Circuit for GV2ME

Thermal Limit in  $\text{kA}^2\text{s}$  in the Magnetic Operating Zone

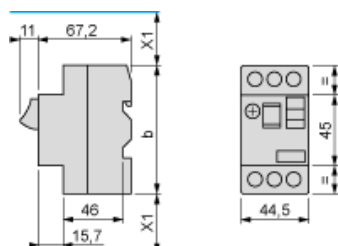
Sum of  $I^2 dt = f$  (prospective  $I_{sc}$ ) at  $1.05 U_e = 435 \text{ V}$



- 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



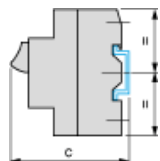
- (1) Maximum  
X1 Electrical clearance = 40 mm for  $U_e \leq 690$  V

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

## Mounting

GV2ME

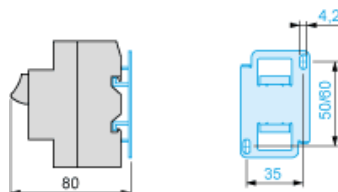
On 35 mm rail



$c = 78.5$  on AM1 DP200 (35 x 7.5)

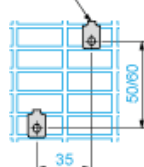
$c = 86$  on AM1 DE200, ED200 (35 x 15)

On panel with adapter plate GV2AF02

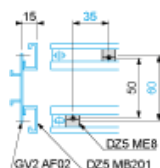


On pre-slotted plate AM1 PA

AF1 EA4

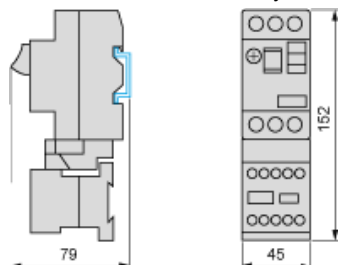


On rails DZ5 MB201



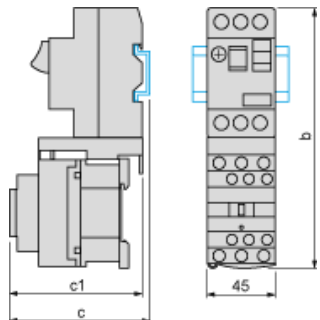
GV2AF01

### Combination GV2ME + TeSys k contactor



### GV2AF3

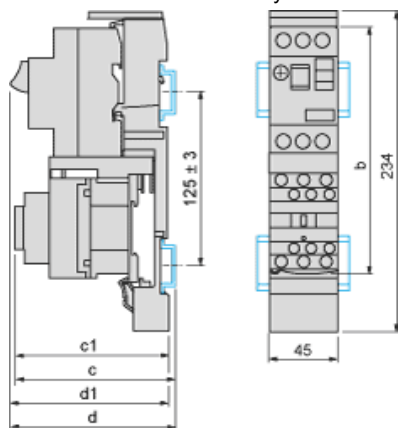
### Combination GV2ME + TeSys d contactor



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

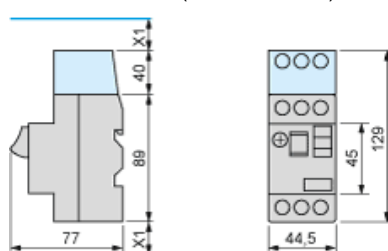
### GV2AF4 + LAD311

### 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          |

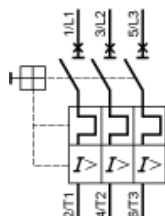
### GV2ME + GV1L3 (Current Limiter)



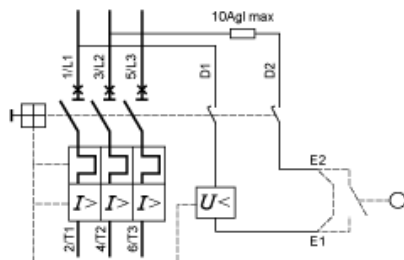
X1 = 10 mm for  $U_e = 230\text{ V}$  or 30 mm for  $230\text{ V} < U_e \leq 690\text{ V}$



GV2ME•• and GV2RT



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



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