

## GV2LE14

TeSys GV2 – Prekidači – magnetski – 10 A –  
priključak vijčanim stezaljkama



### Glavno

|   |   |
|---|---|
| Range   | TeSys   |
| Product name  | TeSys GV2   |
| Device short name                                   | GV2LE   |
| Product or component type                           | Circuit breaker   |
| Device application                                  | Motor   |
| 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 60947-2  |
| Breaking capacity                                   | 3 kA Icu at 690 V AC 50/60 Hz conforming to IEC 60947-2<br>15 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>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                       |
| Trip unit technology                                | Magnetic  |
| Magnetic tripping current                           | 138 A   |

### Komplementarno

|  |  |
|--|--|
| 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 400/415 V AC 50/60 Hz<br>4 kW at 400/415 V AC 50/60 Hz<br>4 kW at 500 V AC 50/60 Hz<br>7.5 kW at 690 V AC 50/60 Hz<br>5.5 kW at 500 V AC 50/60 Hz<br>5.5 kW at 690 V AC 50/60 Hz |
| Control type                           | Rocker lever   |
| [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   |
| Power dissipation per pole             | 1.8 W  |
| Mechanical durability                  | 100000 cycles  |
| Electrical durability                  | 100000 cycles for AC-3 at 415 V  |
| Operating rate                         | 40 cyc/h   |
| Rated duty                             | Continuous conforming to IEC 60947-4-1   |

Informacije dane u ovoj dokumentaciji sadrže opće i/ili tehničke karakteristike o performansama ovdje sadržanih proizvoda. Ova dokumentacija nije namijenjena kao zamjena za niti bi se trebala koristiti za određivanje prikladnosti ili pouzdanosti predmetnih proizvoda za konkretne korisničke primjene. Svaki takav korisnik ili integrator dužan je provesti odgovarajuću i poplunu analizu rizika, procjenu i ispitivanje proizvoda u odnosu na odgovarajuću specifičnu primjenu ili uporabu istog. Niti društvo Schneider Electric, Industries SAS niti bilo koje od njegovih povezanih poduzeća ili podružnica neće preuzeti obvezu ili snositi odgovornost za pogrešnu upotrebu ovdje sadržanih informacija.

|                           |   |
|---------------------------|---|
| Connections - terminals   | Screw clamp terminals 2 cable(s) 1...6 mm <sup>2</sup> solid<br>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  |
| Mechanical robustness     | Shocks 30 Gn conforming to IEC 60068-2-27<br>Vibrations 5 Gn, 5...150 Hz conforming to IEC 60068-2-6  |
| Suitability for isolation | Yes conforming to IEC 60947-1   |
| Phase failure sensitivity | Yes   |
| Height                    | 89 mm   |
| Width                     | 45 mm   |
| Depth                     | 78.5 mm   |
| Product weight            | 0.33 kg   |

## Okolina

|                                       |   |
|---------------------------------------|---|
| standards                             | EN 60204<br>IEC 60947-1<br>IEC 60947-2<br>NF C 63-120<br>NF C 63-650<br>NF C 79-130<br>VDE 0113<br>VDE 0660 |
| product certifications                | CCC<br>CSA  |
| protective treatment                  | TH  |
| IK degree of protection               | IK04  |
| ambient air temperature for operation | -20...60 °C   |
| ambient air temperature for storage   | -40...80 °C   |
| fire resistance                       | 960 °C conforming to IEC 60695-2-1  |
| operating altitude                    | 0...2000 m  |

## Offer Sustainability

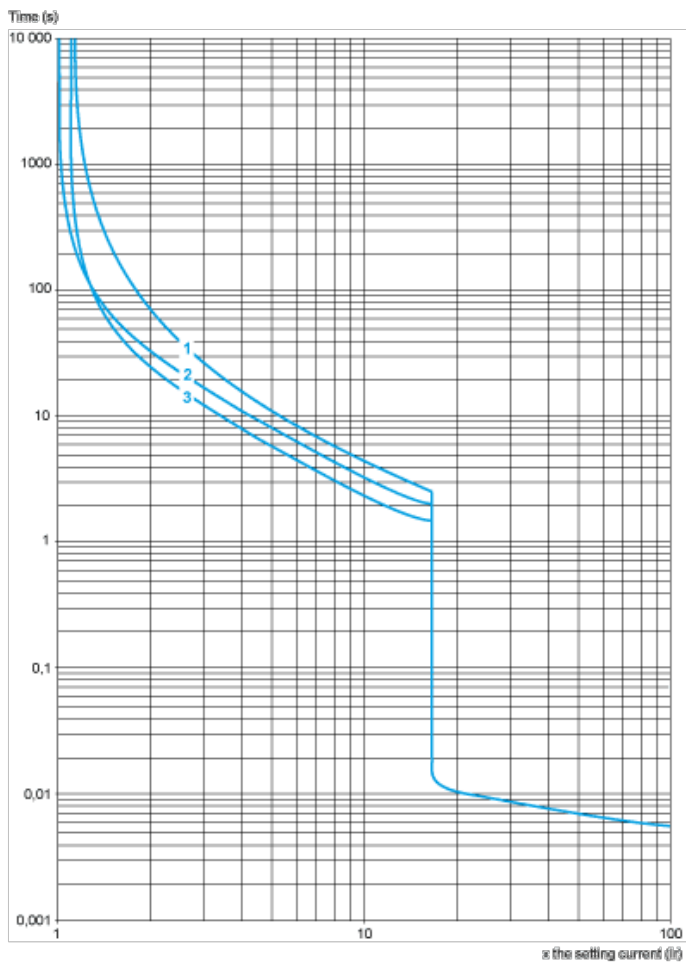
|  |   |
|--|---|
| Green Premium product  | Green Premium product   |
| Compliant - since 0631 - Schneider Electric declaration of conformity    | Compliant - since 0631 - Schneider Electric declaration of conformity |
| Reference contains SVHC above the threshold - go to CaP for more details | Reference contains SVHC above the threshold                           |
| Available  | Available   |
| Need no specific recycling operations                                    | Need no specific recycling operations                                 |

## Contractual warranty

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

## Tripping Curves for GV2L or LE Combined with Thermal Overload Relay LRD or LR2K

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

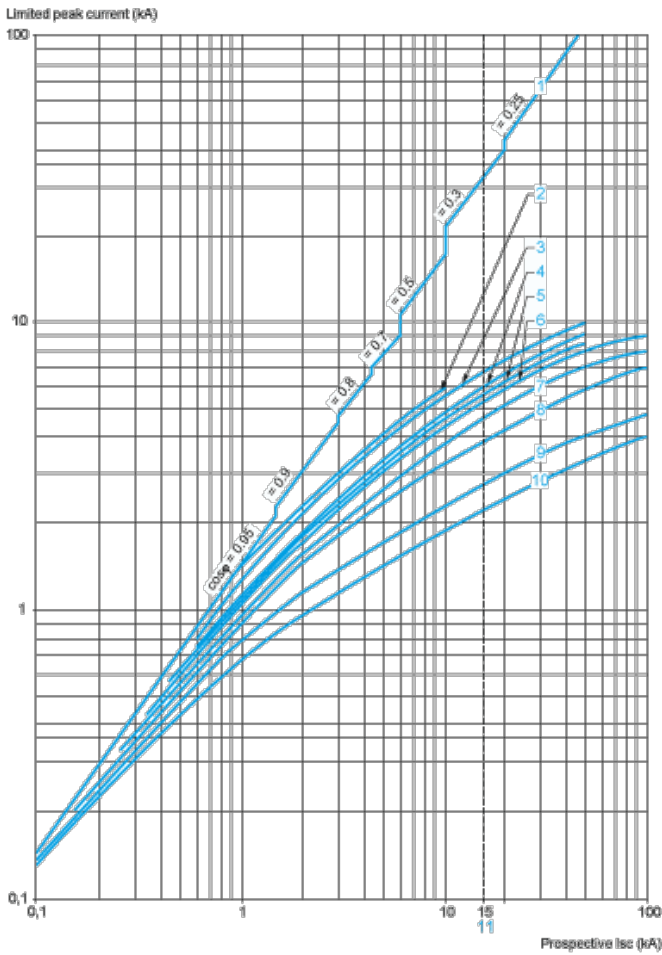


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

**Current Limitation on Short-Circuit for GV2L and GV2LE Only (3-Phase 400/415 V)**

**Dynamic Stress**

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

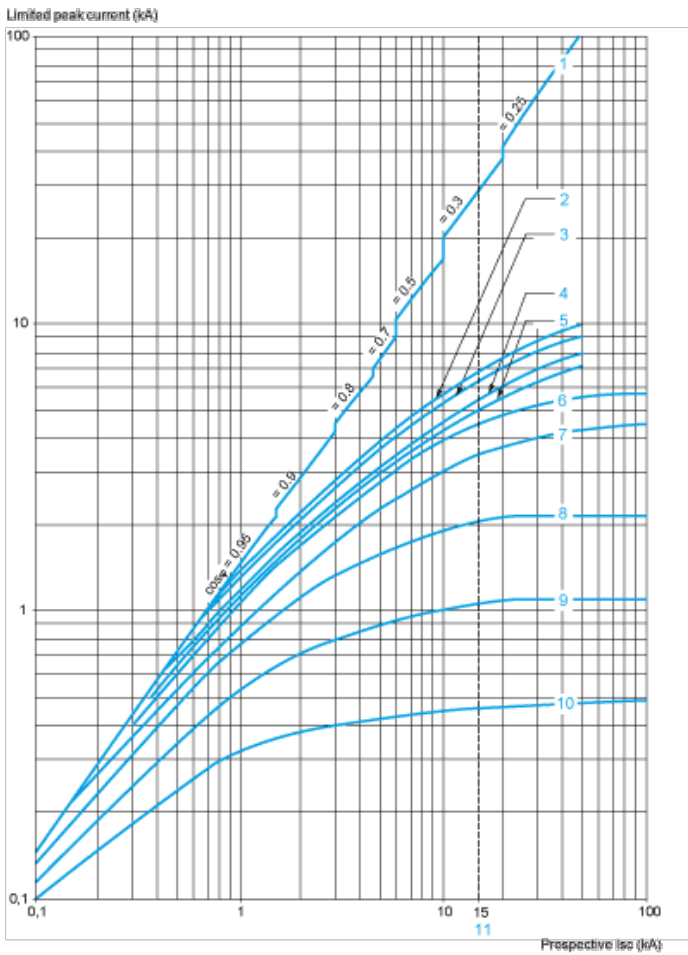


- 1 Maximum peak current
- 2 32 A
- 3 25 A
- 4 18 A
- 5 14 A
- 6 10 A
- 7 6.3 A
- 8 4 A
- 9 2.5 A
- 10 1.6 A
- 11 Limit of rated ultimate breaking capacity on short-circuit of GV2LE (14, 18, 23, and 25 A ratings).

**Current Limitation on Short-Circuit for GV2L and GV2LE + Thermal Overload Relay LRD or LR2K (3-Phase 400/415 V)**

**Dynamic Stress**

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

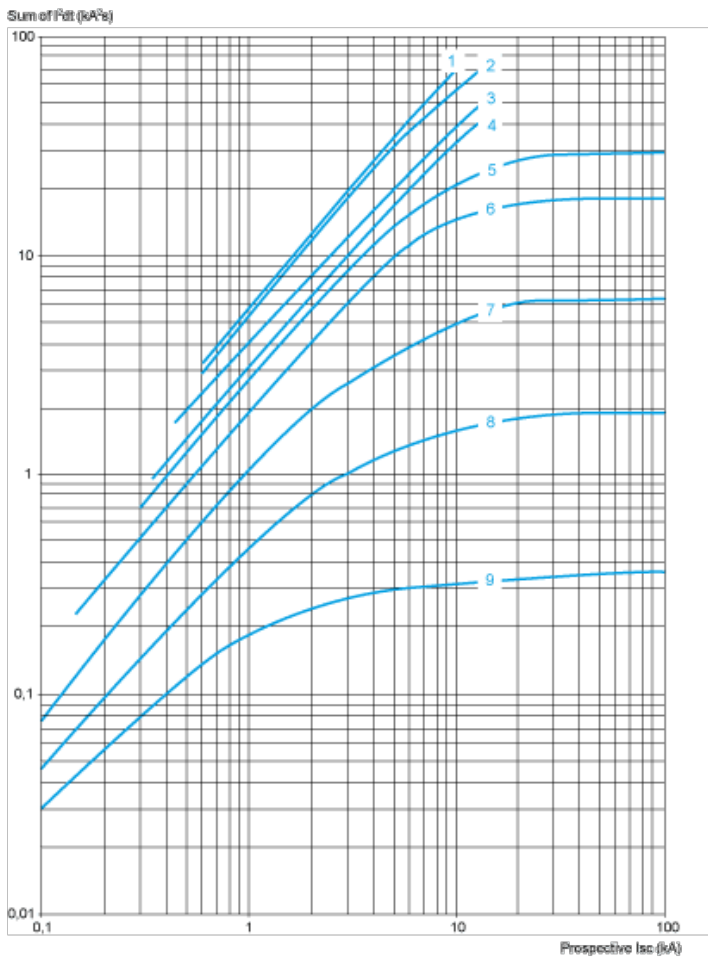


- 1 Maximum peak current
- 2 32 A
- 3 25 A
- 4 18 A
- 5 14 A
- 6 10 A
- 7 6.3 A
- 8 4 A
- 9 2.5 A
- 10 1.6 A
- 11 Limit of rated ultimate breaking capacity on short-circuit of GV2LE (14, 18, 23, and 25 A ratings).

**Thermal Limit on Short-Circuit for GV2LE Only**

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

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

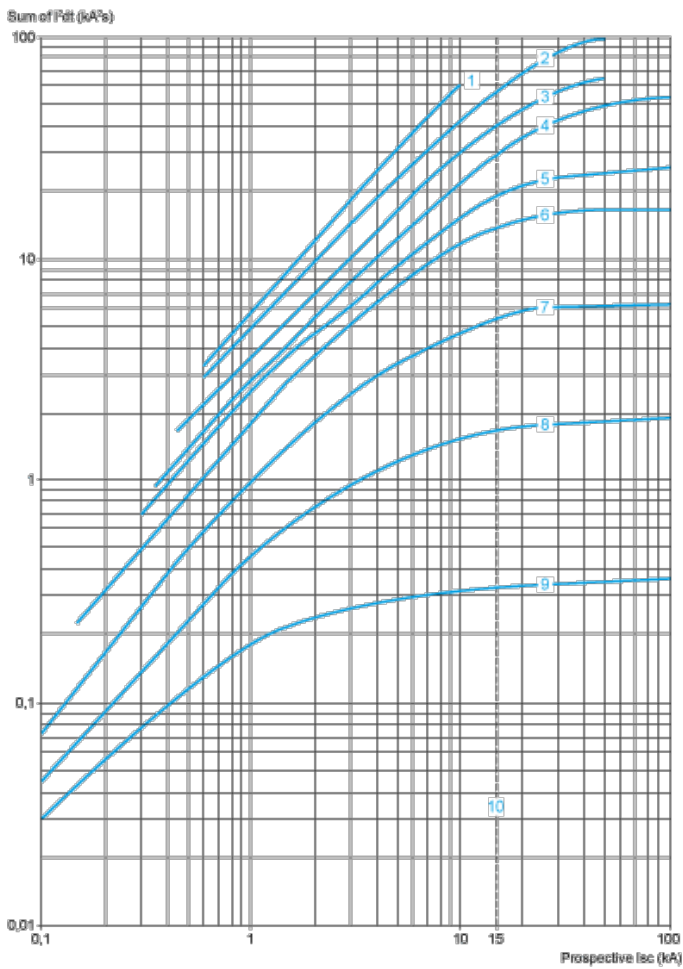


- 1 32 A
- 2 25 A
- 3 18 A
- 4 14 A
- 5 10 A
- 6 6.3 A
- 7 4 A
- 8 2.5 A
- 9 1.6 A

**Thermal Limit on Short-Circuit for GV2L and GV2LE + Thermal Overload Relay LRD or LR2K**

**Thermal Limit in kA²s in the Magnetic Operating Zone**

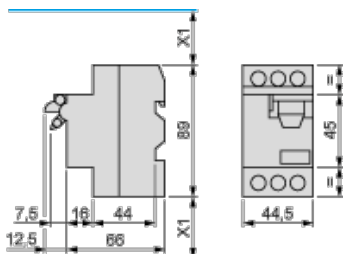
Sum of  $I^2dt = f$  (prospective Isc) at  $1.05 U_e = 435 V$



- 1 32 A (GV2LE32)
- 2 25 A and 32 A (GV2L32)
- 3 18 A
- 4 14 A
- 5 10 A
- 6 6.3 A
- 7 4 A
- 8 2.5 A
- 9 1.6 A
- 10 Limit of rated ultimate breaking capacity on short-circuit of GV2 LE (14, 18, 23, and 25 A ratings).

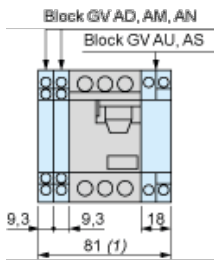
**GV2LE**

**Dimensions**



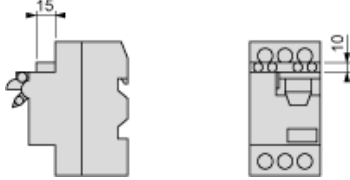
X1 Electrical clearance = 40 mm for  $U_e \leq 690$  V.

**GVAD, AM, AN, AU, AS**



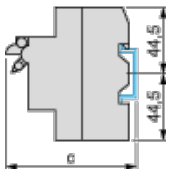
1 Maximum

**GVAE**



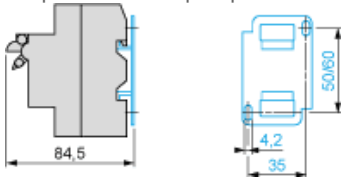
**Mounting**

On 35 mm rail

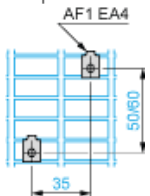


c = 80 on AM1 DP200 (35 x 7.5) and 88 on AM1 DE200, ED200 (35 x 15)

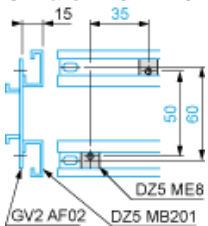
On panel with adapter plate GV2 AF02



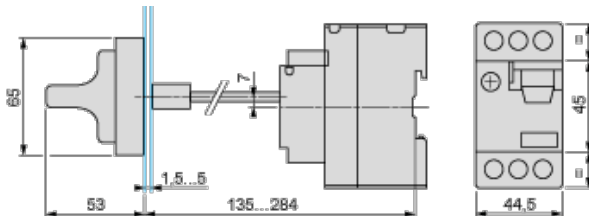
On pre-slotted plate AM1 PA



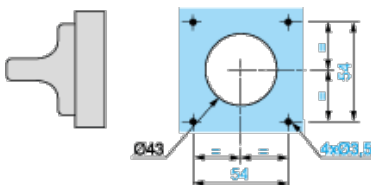
On rails DZ5 MB201



**Mounting of External Operator GV2AP03 for GV2LE**



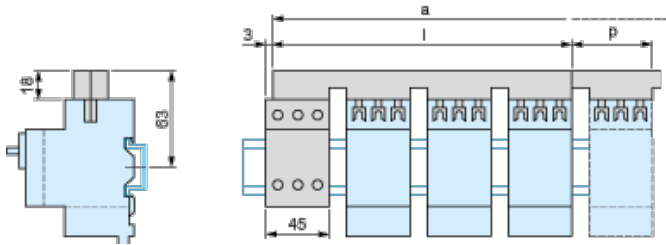
Door cut-out



GV2L and GV2LE



Sets of busbars GV2G445, GV2G454, GV2G472, with terminal block GV2G05

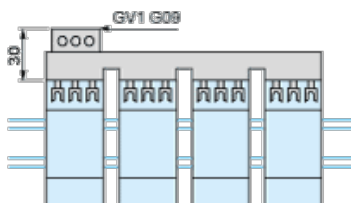


|                     | l   | p  |
|---------------------|-----|----|
| GV2G445 (4 x 45 mm) | 179 | 45 |
| GV2G454 (4 x 54 mm) | 206 | 54 |
| GV2G472 (4 x 72 mm) | 260 | 72 |

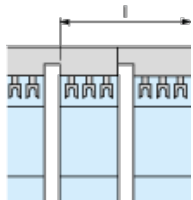
| Number of tap-offs | a   |     |     |     |
|--------------------|-----|-----|-----|-----|
|                    | 5   | 6   | 7   | 8   |
| GV2G445            | 224 | 269 | 314 | 359 |
| GV2G454            | 260 | 314 | 368 | 422 |
| GV2G472            | 332 | 404 | 476 | 548 |

**Sets of Busbars for GV2L and GV2LE**

Sets of busbars GV2G... with terminal block GV1G09

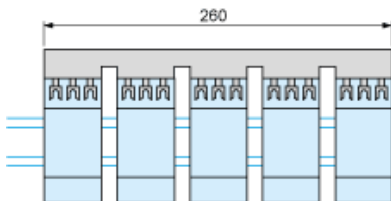


Sets of busbars GV2G245, GV2G254, GV2GR272

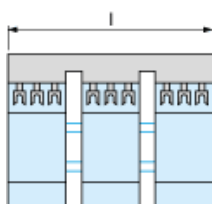


|                     | l   |
|---------------------|-----|
| GV2G245 (2 x 45 mm) | 89  |
| GV2G254 (2 x 54 mm) | 98  |
| GV2G272 (2 x 72 mm) | 116 |

Set of busbars GV2G554



Sets of busbars GV2G345 and GV2G354



|  | l |
|--|---|
|  |   |

|                     |     |
|---------------------|-----|
| GV2G345 (3 x 45 mm) | 134 |
| GV2G354 (3 x 54 mm) | 152 |

GV2LE••

