

## GV2L07

TeSys GV2 Manual Starter and Protector, magnetic circuit protector, rotary handle, 2.5 A, screw clamp terminals



### Main

|                                                     |                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                               | TeSys                                                                                                                                                                                                                                                                                                               |
| Product name                                        | TeSys GV2                                                                                                                                                                                                                                                                                                           |
| Device short name                                   | GV2L                                                                                                                                                                                                                                                                                                                |
| 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                                   | 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>4 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                        |
| Trip unit technology                                | Magnetic                                                                                                                                                                                                                                                                                                            |
| Magnetic tripping current                           | 33.5 A                                                                                                                                                                                                                                                                                                              |

### Complementary

|                                        |                                                                                                                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fixing mode                            | Clipped on 35 mm symmetrical DIN rail<br>Screwed on panel (with 2 x M4 screws)                                                                                                                                                        |
| Operating position                     | Any position                                                                                                                                                                                                                          |
| Motor power kW                         | 0.75 kW at 400/415 V AC 50/60 Hz<br>1.1 kW at 500 V AC 50/60 Hz<br>1.5 kW at 690 V AC 50/60 Hz                                                                                                                                        |
| Control type                           | Rotary knob                                                                                                                                                                                                                           |
| 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                                                                                                                                                                                           |
| [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 AC-3 at 415 V                                                                                                                                                                                                           |
| Operating rate                         | 40 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<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 |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such 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.

|                           |                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------|
| 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                    | 3.5 in (89 mm)                                                                                       |
| Width                     | 1.77 in (45 mm)                                                                                      |
| Depth                     | 3.82 in (97 mm)                                                                                      |
| Product weight            | 0.73 lb(US) (0.33 kg)                                                                                |

## Environment

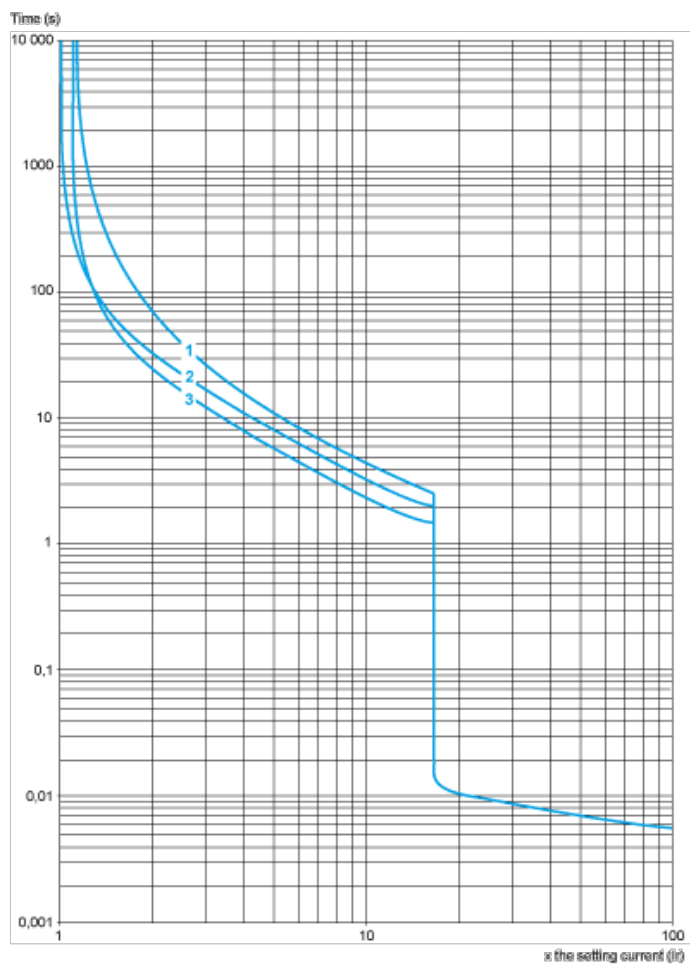
|                                       |                                                                                                             |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 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                | BV<br>CCC<br>CSA<br>DNV<br>GL<br>LROS (Lloyds register of shipping)<br>RINA                                 |
| protective treatment                  | TH                                                                                                          |
| 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                    | 0...6561.68 ft (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                                                          |
| 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>  |

### 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

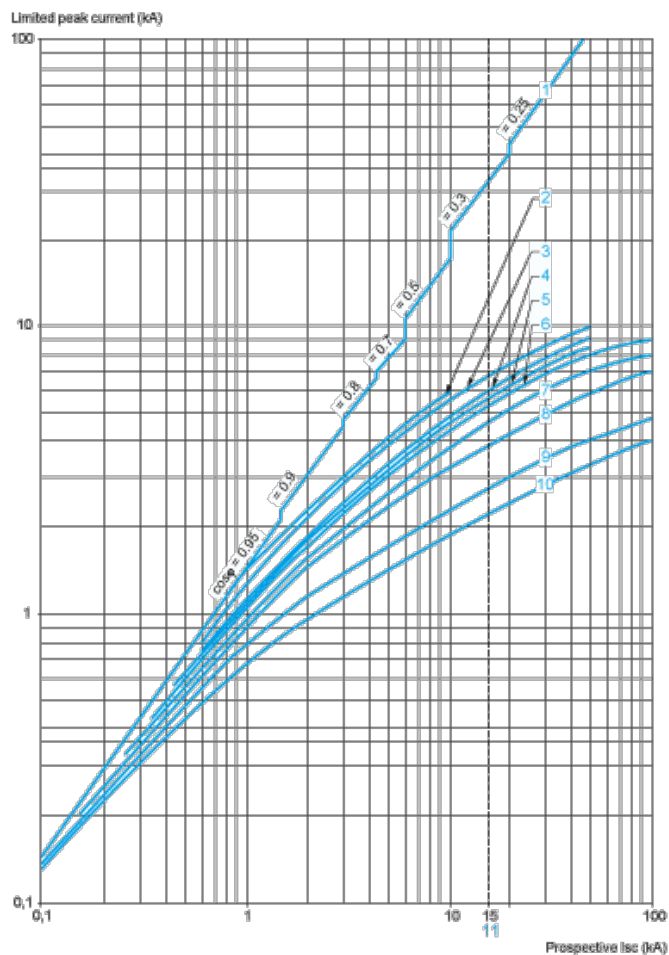


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

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

##### Dynamic Stress

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

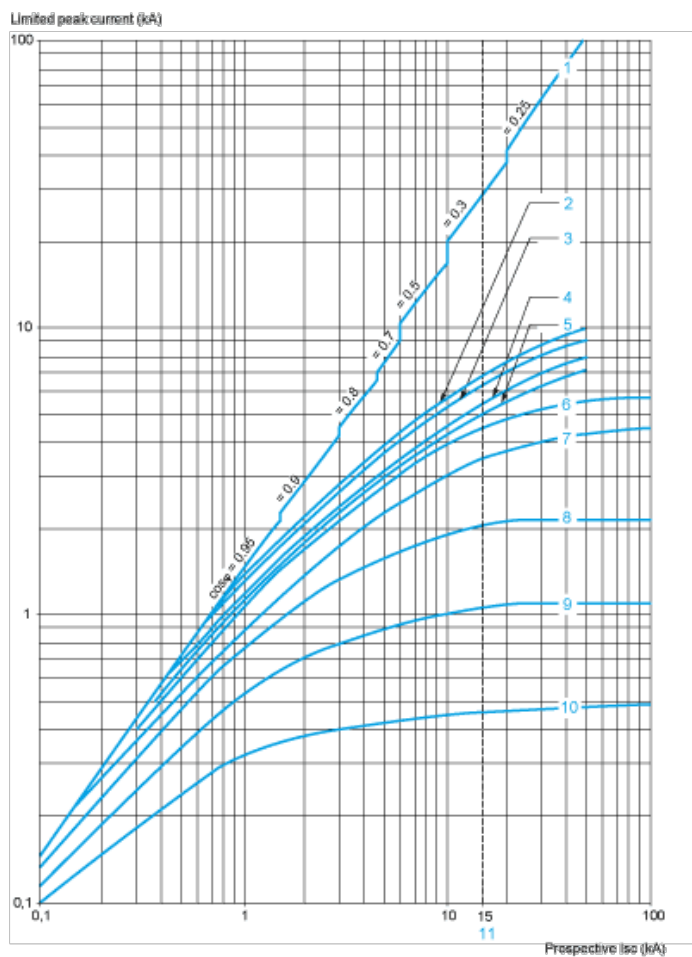


- 1 Maximum peak current
- 2 32 A
- 3 25 A
- 4 18 A
- 5 14 A
- 6 10 A
- 7 6.3 A
- 8 4 A
- 9 2.5 A
- 10 1.6 A
- 11 Limit of rated ultimate breaking capacity on short-circuit of GV2LE (14, 18, 23, and 25 A ratings).

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

##### Dynamic Stress

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

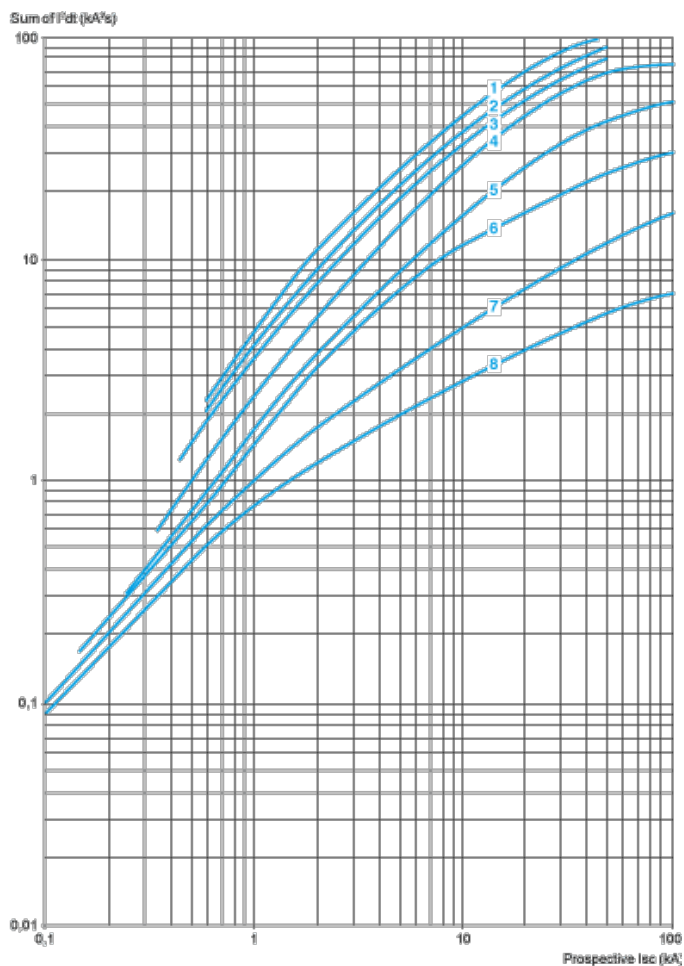


- 1 Maximum peak current
- 2 32 A
- 3 25 A
- 4 18 A
- 5 14 A
- 6 10 A
- 7 6.3 A
- 8 4 A
- 9 2.5 A
- 10 1.6 A
- 11 Limit of rated ultimate breaking capacity on short-circuit of GV2LE (14, 18, 23, and 25 A ratings).

#### Thermal Limit on Short-Circuit for GV2L 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

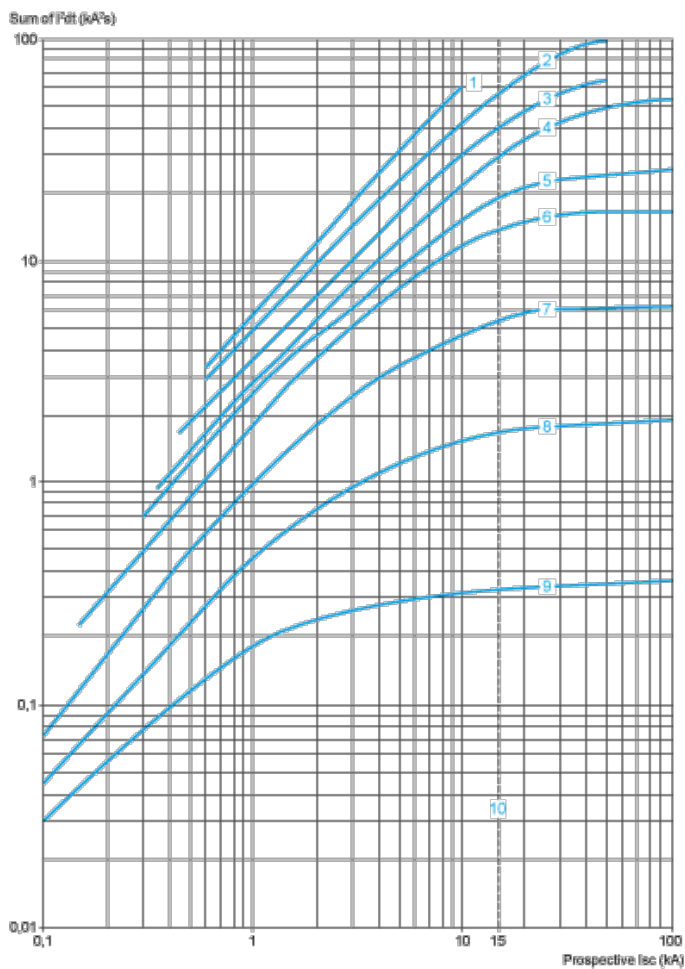


- 1 25 A and 32 A
- 2 18 A
- 3 14 A
- 4 10 A
- 5 6.3 A
- 6 4 A
- 7 2.5 A
- 8 1.6 A

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

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

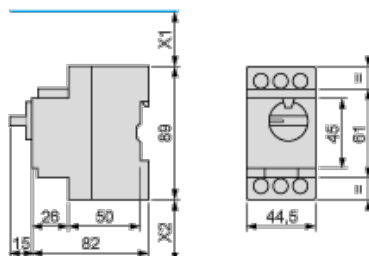
Sum of  $I^2dt = f$  (prospective Isc) at  $1.05 U_e = 435 V$



- 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).

## GV2L

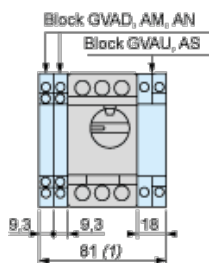
### Dimensions



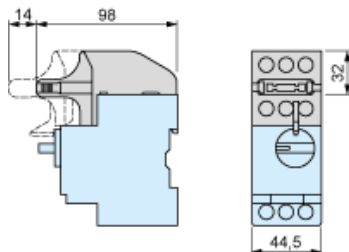
X1 Electrical clearance = 40 mm for  $U_e \leq 415$  V, or 80 mm for  $U_e = 440$  V, or 120 mm for  $U_e = 500$  and 690 V.

X2 = 40 mm.

GVAD, AM, AN, AU, AS

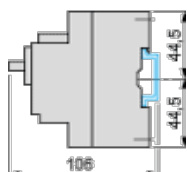


1 Maximum  
GV2AK00

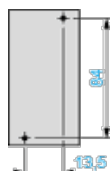


### Mounting

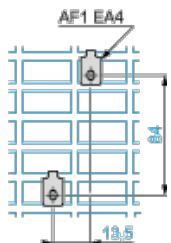
On rail AM1 DE200, AM1 ED200 (35 x 15)



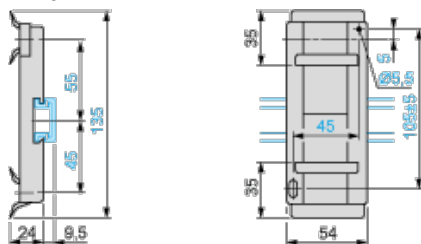
Panel mounted



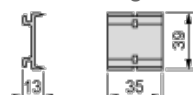
On pre-slotted mounting plate AM1 PA



Adapter Plate GK2AF01

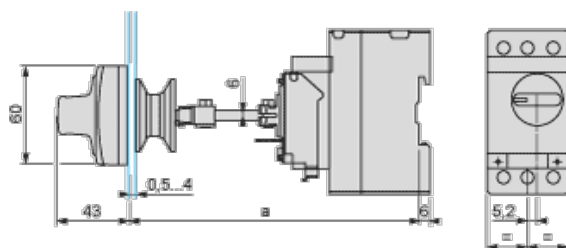


7.5 mm Height Compensation Plate GV1F03

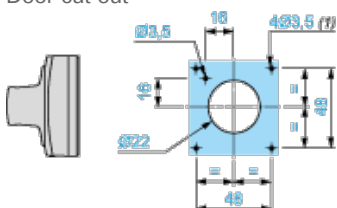


### Mounting

Mounting of External Operator GV2APN01, GV2APN02 or GV2APN04 for Motor Circuit Breakers GV2L

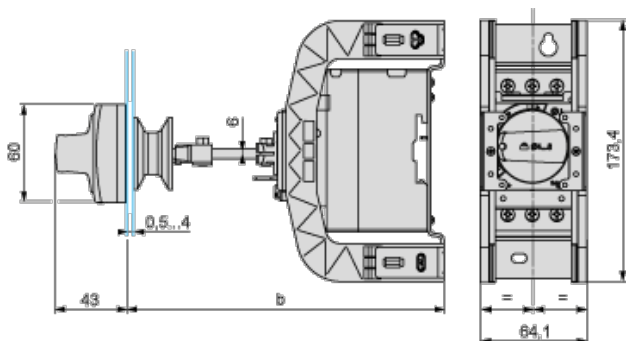


Door cut-out



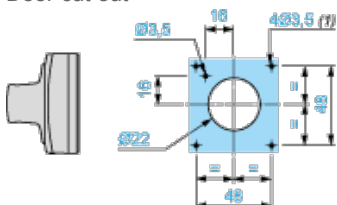
(1) For IP65 only.

#### Mounting of External Operator GVAPH02 for Motor Circuit Breakers GV2L



|                                 | b       |         |
|---------------------------------|---------|---------|
|                                 | Minimum | Maximum |
| GV2 APN.. + GV APH02            | 151     | 250     |
| GV2 APN.. + GV APH02 + GV APK11 | 250     | 445     |

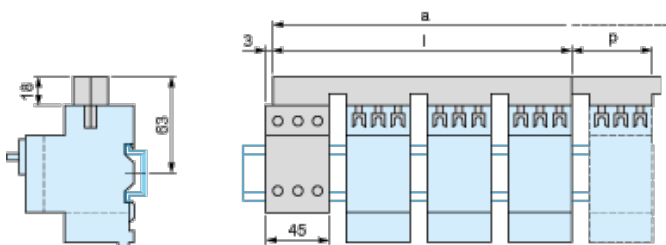
Door cut-out



(1) For IP65 only.

#### GV2L and GV2LE

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



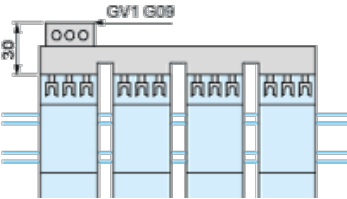
|                     | l   | p  |
|---------------------|-----|----|
| GV2G445 (4 x 45 mm) | 179 | 45 |
| GV2G454 (4 x 54 mm) | 206 | 54 |
| GV2G472 (4 x 72 mm) | 260 | 72 |

| Number of tap-offs | a |   |   |   |
|--------------------|---|---|---|---|
|                    | 5 | 6 | 7 | 8 |

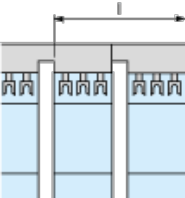
|         |     |     |     |     |
|---------|-----|-----|-----|-----|
| GV2G445 | 224 | 269 | 314 | 359 |
| GV2G454 | 260 | 314 | 368 | 422 |
| GV2G472 | 332 | 404 | 476 | 548 |

**Sets of Busbars for GV2L and GV2LE**

Sets of busbars GV2G... with terminal block GV1G09

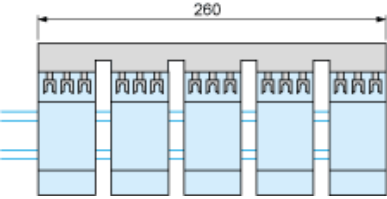


Sets of busbars GV2G245, GV2G254, GV2GR272

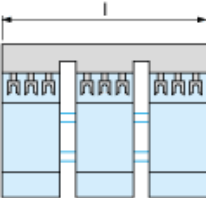


|                     | I   |
|---------------------|-----|
| GV2G245 (2 x 45 mm) | 89  |
| GV2G254 (2 x 54 mm) | 98  |
| GV2G272 (2 x 72 mm) | 116 |

Set of busbars GV2G554

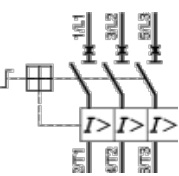


Sets of busbars GV2G345 and GV2G354



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

GV2L••



## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

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<http://moschip.ru/get-element>

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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