

Product datasheet

Specifications



Motor circuit breaker, TeSys GV2, 3P, 10 A, magnetic, rotary handle, screw clamp terminals

Local distributor code:

20882761

GV2L14

EAN Code: 3389110213270

Main

| | |
|---------------------------|-----------------------|
| Range | TeSys Deca |
| Product name | TeSys GV2 |
| Product or component type | Motor circuit breaker |
| Device short name | GV2L |
| Device application | Motor protection |
| Trip unit technology | Magnetic |

Complementary

| | |
|---|---|
| Poles description | 3P |
| Network type | AC |
| Utilisation category | Category A conforming to IEC 60947-2 AC-3 conforming to IEC 60947-4-1 AC-3e conforming to IEC 60947-4-1 |
| Network frequency | 50/60 Hz conforming to IEC 60947-2 |
| Motor power kW | 3 kW at 400/415 V AC 50/60 Hz 4 kW at 400/415 V AC 50/60 Hz 4 kW at 500 V AC 50/60 Hz 5.5 kW at 690 V AC 50/60 Hz 7.5 kW at 690 V AC 50/60 Hz |
| Breaking capacity | 100 kA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 20 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 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 60947-2 100 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 75 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Control type | Rotary handle |
| [In] rated current | 10 A |
| Magnetic tripping current | 149 A |
| [Ith] conventional free air thermal current | 14 A conforming to IEC 60947-4-1 |
| [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 |
| Suitability for isolation | Yes conforming to IEC 60947-1 |
| Power dissipation per pole | 1.8 W |

| | |
|------------------------------|--|
| Mechanical durability | 100000 cycles |
| Electrical durability | 100000 cycles for AC-3 at 415 V In 100000 cycles for AC-3e at 415 V In |
| Rated duty | Continuous conforming to IEC 60947-4-1 |
| Tightening torque | 1.7 N.m - on screw clamp terminal |
| Fixing mode | 35 mm symmetrical DIN rail: clipped Panel: screwed (with 2 x M4 screws) |
| Mounting position | Horizontal Vertical |
| width | 45 mm |
| Height | 89 mm |
| Depth | 97 mm |
| Net weight | 0.33 kg |
| Colour | Dark grey |

Environment

| | |
|--|--|
| Standards | EN/IEC 60947-2 EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 IEC/EN 60335-2-40:Annex JJ |
| Product certifications | CCC UL CSA EAC LROS (Lloyds register of shipping) BV RINA DNV-GL UKCA IECEE CB Scheme |
| IK degree of protection | IK04 |
| IP degree of protection | IP20 conforming to IEC 60529 |
| Climatic withstand | conforming to IACS E10 |
| Ambient air temperature for storage | -40...80 °C |
| Fire resistance | 960 °C conforming to IEC 60695-2-11 |
| Ambient air temperature for operation | -20...60 °C |
| Mechanical robustness | Shocks: 30 Gn for 11 ms 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 | 9.300 cm |
| Package 1 Width | 4.600 cm |
| Package 1 Length | 10.000 cm |
| Package 1 Weight | 323.000 g |
| Unit Type of Package 2 | S02 |

| | |
|-------------------------------------|-----------|
| Number of Units in Package 2 | 20 |
| Package 2 Height | 15.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 6.768 kg |

Logistical informations

| | |
|--------------------------|----|
| Country of origin | FR |
|--------------------------|----|

Contractual warranty

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

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[How this information helps you >](#)

Environmental footprint

| | |
|---|---|
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 8 |
|---|---|

| | |
|--------------------------|---|
| Environmental Disclosure | Product Environmental Profile |
|--------------------------|---|

Use Better

Materials and Substances

| | |
|--|----|
| Packaging made with recycled cardboard | No |
|--|----|

| | |
|--------------------------------------|----|
| Packaging without single use plastic | No |
|--------------------------------------|----|

| | |
|-------------------|---------------------------|
| EU RoHS Directive | Compliant with Exemptions |
|-------------------|---------------------------|

| | |
|-------------|--------------------------------------|
| SCIP Number | 04104e70-ba29-493c-b2cc-b5837d1f902b |
|-------------|--------------------------------------|

| | |
|------------------|-----------------------------------|
| REACH Regulation | REACH Declaration |
|------------------|-----------------------------------|

| | |
|-----------------------|--|
| China RoHS Regulation | China RoHS declaration |
|-----------------------|--|

Use Again

Repack and remanufacture

| | |
|---------------------|---|
| Circularity Profile | End of Life Information |
|---------------------|---|

WEEE



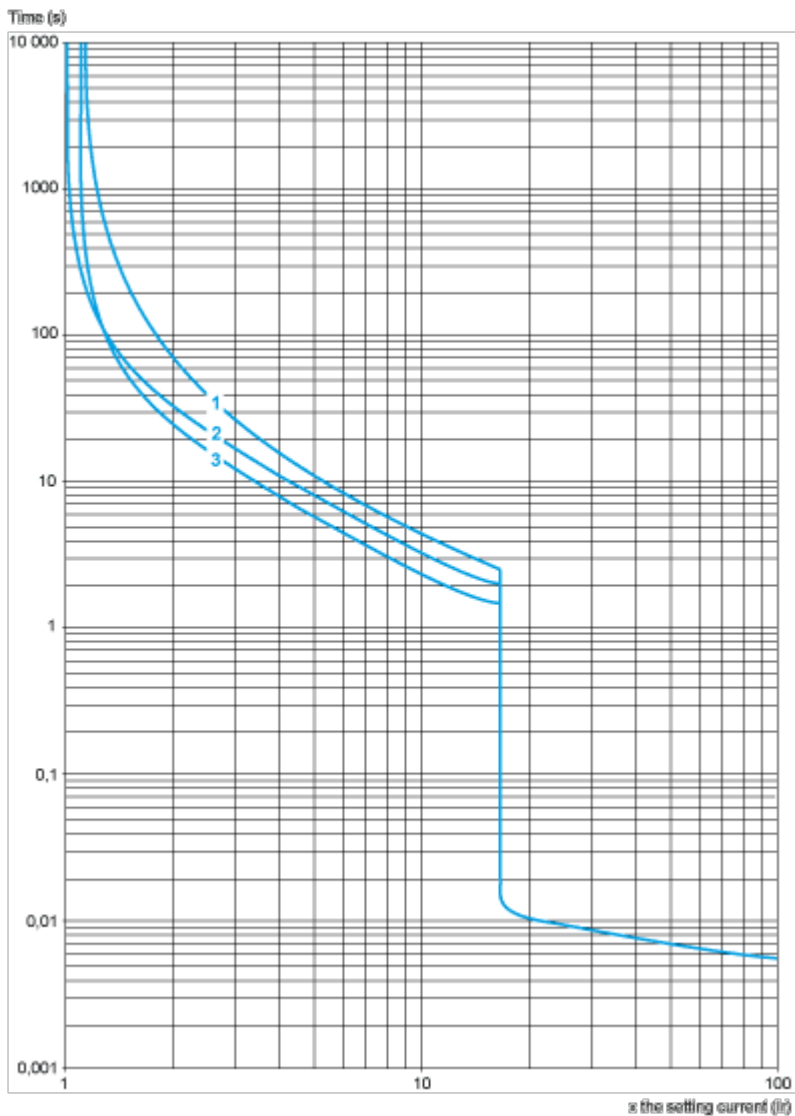
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Take-back

No

Performance Curves

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

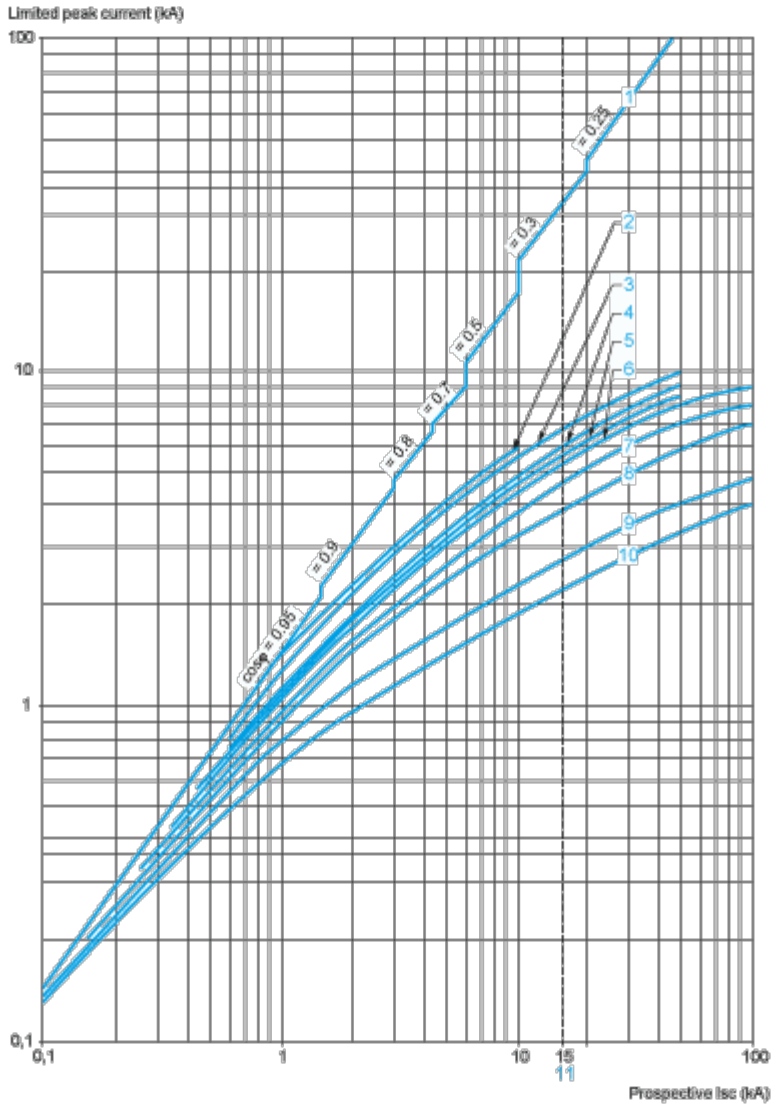


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

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

Dynamic Stress

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

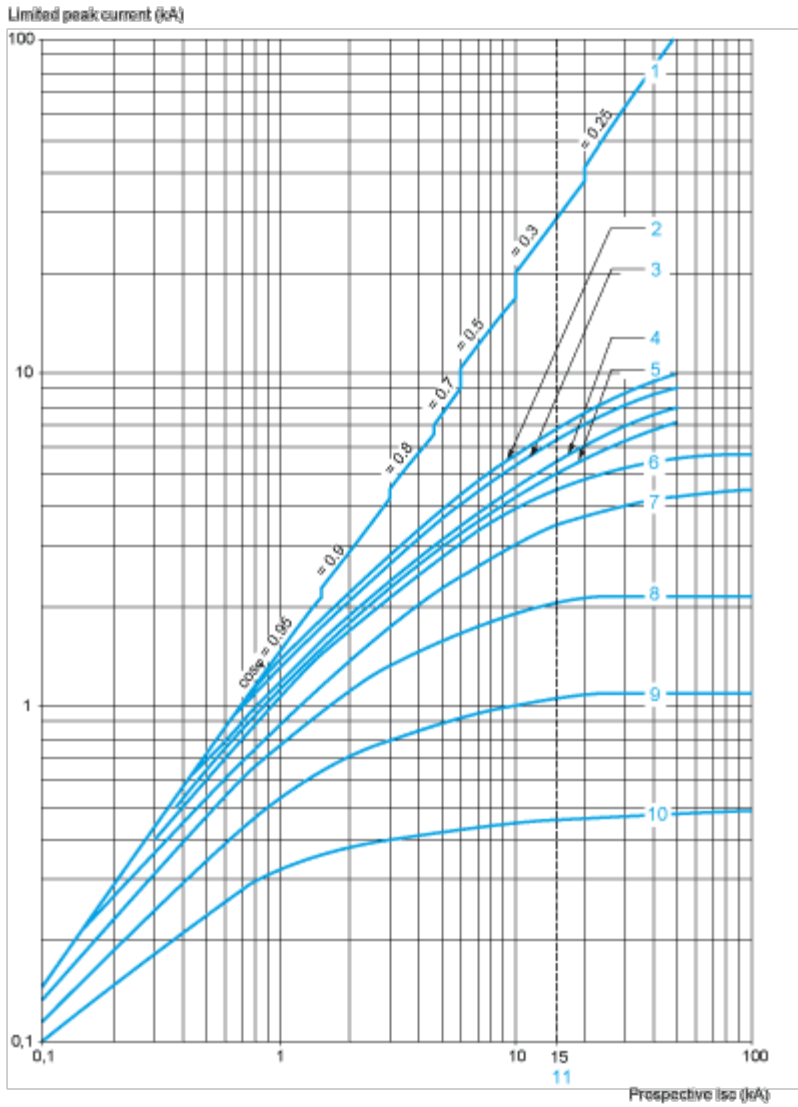


- 1 Maximum peak current
- 2 32 A
- 3 25 A
- 4 18 A
- 5 14 A
- 6 10 A
- 7 6.3 A
- 8 4 A
- 9 2.5 A
- 10 1.6 A
- 11 Limit of rated ultimate breaking capacity on short-circuit of GV2LE (14, 18, 23, and 25 A ratings).

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

Dynamic Stress

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

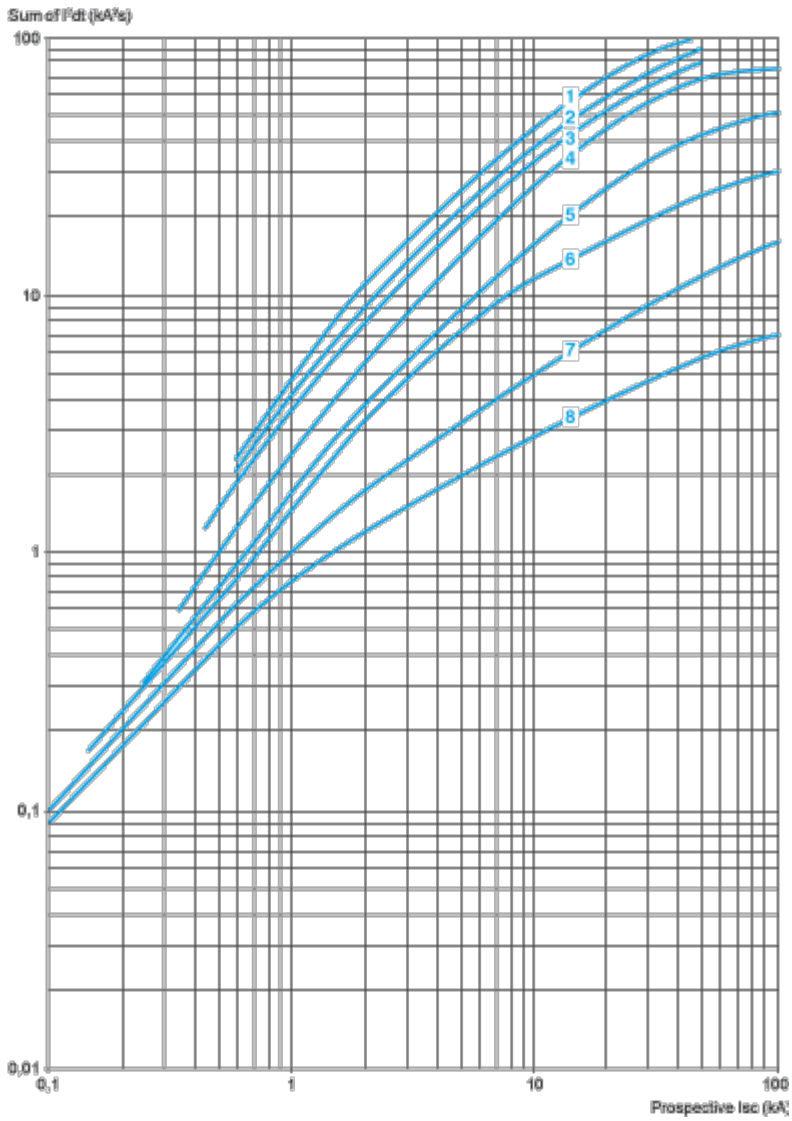


- 1 Maximum peak current
- 2 32 A
- 3 25 A
- 4 18 A
- 5 14 A
- 6 10 A
- 7 6.3 A
- 8 4 A
- 9 2.5 A
- 10 1.6 A
- 11 Limit of rated ultimate breaking capacity on short-circuit of GV2LE (14, 18, 23, and 25 A ratings).

Thermal Limit on Short-Circuit for GV2L Only

Thermal Limit in kA^2s in the Magnetic Operating Zone

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

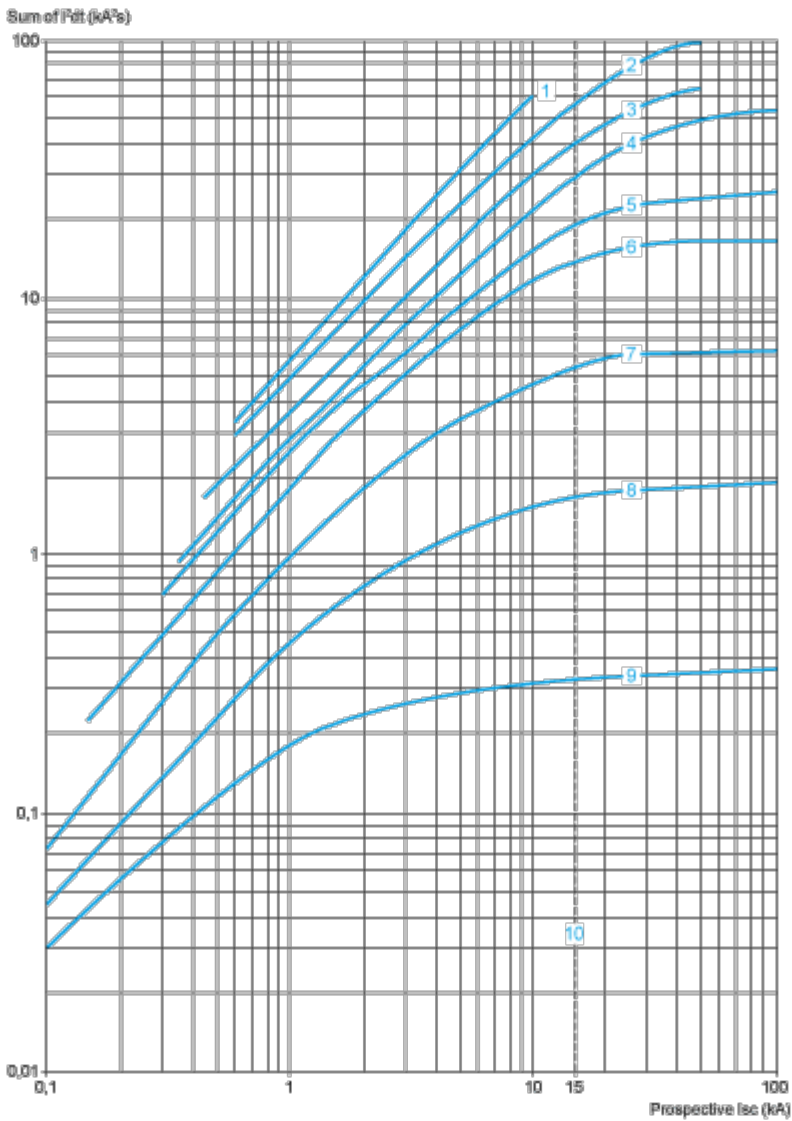


- 1 25 A and 32 A
- 2 18 A
- 3 14 A
- 4 10 A
- 5 6.3 A
- 6 4 A
- 7 2.5 A
- 8 1.6 A

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 I²dt = f (prospective Isc) at 1.05 Ue = 435 V

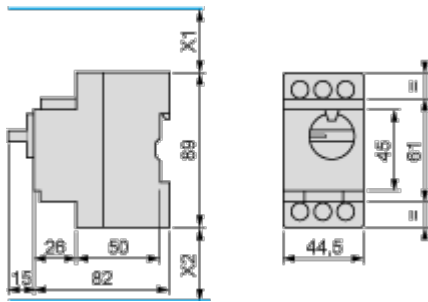


- 1 32 A (GV2LE32)
- 2 25 A and 32 A (GV2L32)
- 3 18 A
- 4 14 A
- 5 10 A
- 6 6.3 A
- 7 4 A
- 8 2.5 A
- 9 1.6 A
- 10 Limit of rated ultimate breaking capacity on short-circuit of GV2 LE (14, 18, 23, and 25 A ratings).

Dimensions Drawings

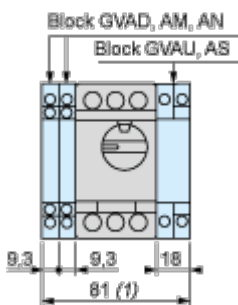
GV2L

Dimensions



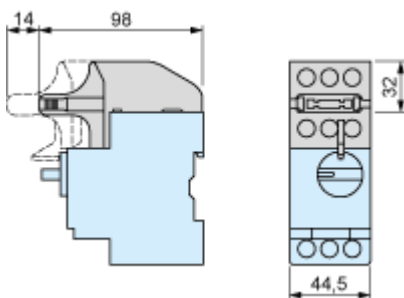
X1 Electrical clearance = 40 mm for $U_e \leq 415$ V, or 80 mm for $U_e = 440$ V, or 120 mm for $U_e = 500$ and 690 V.
 X2 = 40 mm.

GVAD, AM, AN, AU, AS



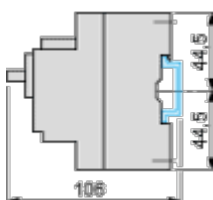
1 Maximum

GV2AK00

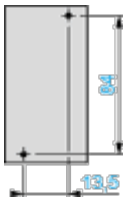


Mounting

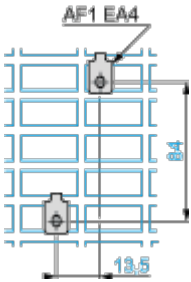
On rail AM1 DE200, AM1 ED200 (35 x 15)



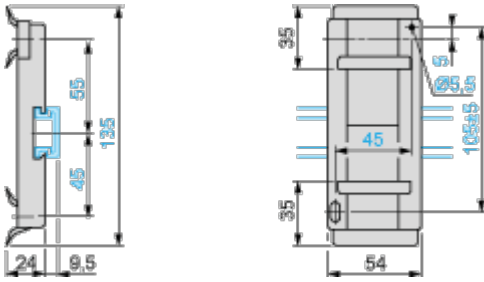
Panel mounted



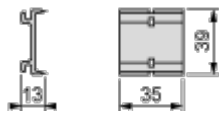
On pre-slotted mounting plate AM1 PA



Adapter Plate GK2AF01

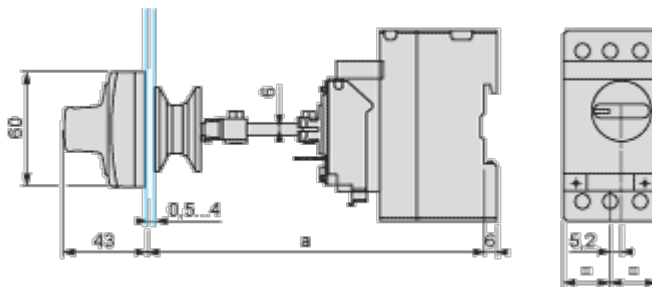


7.5 mm Height Compensation Plate GV1F03

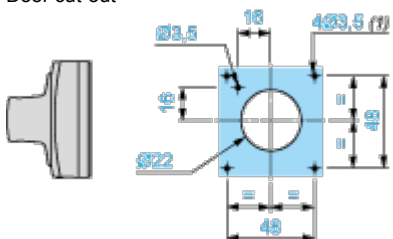


Mounting

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

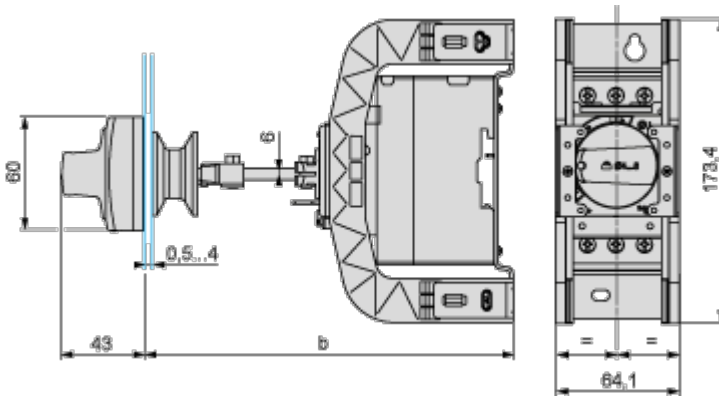


Door cut-out



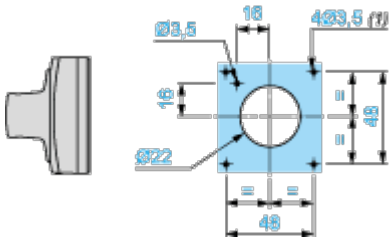
(1) For IP65 only.

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 |

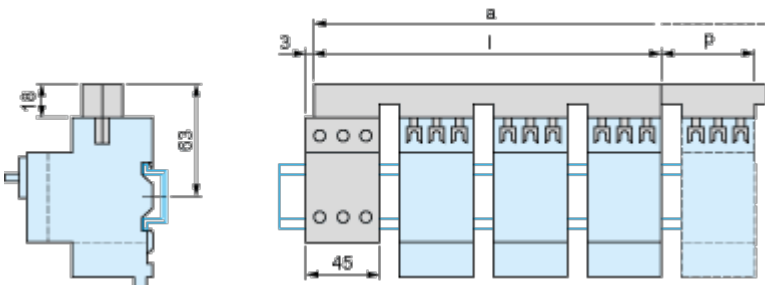
Door cut-out



(1) For IP65 only.

GV2L and GV2LE

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

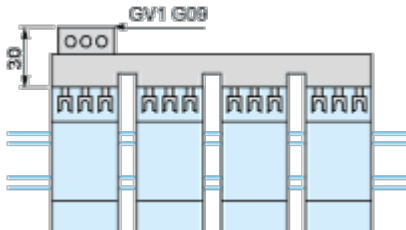


| | l | p |
|---------------------|-----|----|
| GV2G445 (4 x 45 mm) | 179 | 45 |
| GV2G454 (4 x 54 mm) | 206 | 54 |
| GV2G472 (4 x 72 mm) | 260 | 72 |

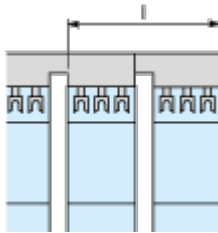
| Number of tap-offs | a | | | |
|--------------------|-----|-----|-----|-----|
| | 5 | 6 | 7 | 8 |
| GV2G445 | 224 | 269 | 314 | 359 |
| GV2G454 | 260 | 314 | 368 | 422 |
| GV2G472 | 332 | 404 | 476 | 548 |

Sets of Busbars for GV2L and GV2LE

Sets of busbars GV2G... with terminal block GV1G09



Sets of busbars GV2G245, GV2G254, GV2GR272

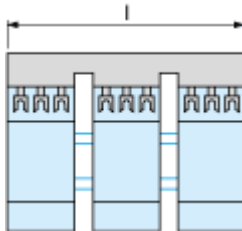


| | l |
|---------------------|-----|
| GV2G245 (2 x 45 mm) | 89 |
| GV2G254 (2 x 54 mm) | 98 |
| GV2G272 (2 x 72 mm) | 116 |

Set of busbars GV2G554



Sets of busbars GV2G345 and GV2G354

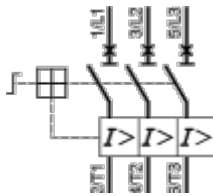


| | l |
|---------------------|-----|
| GV2G345 (3 x 45 mm) | 134 |

| | |
|---------------------|-----|
| | I |
| GV2G354 (3 x 54 mm) | 152 |

Connections and Schema

GV2L••



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.



Offer Marketing Illustration

Product benefits / Features



TeSys Deca Motor Circuit Breakers
Range Accessories

Auxiliary contact blocks

Energy Sensor

Terminal block

Combination block

Current limiter

Comb busbar

Extended rotary handle

The image displays a collection of accessories for TeSys Deca Motor Circuit Breakers. At the top left is a large black motor circuit breaker with a green handle. Below it, the title 'TeSys Deca Motor Circuit Breakers Range Accessories' is shown. The accessories are arranged in two rows. The first row includes: 'Auxiliary contact blocks' (a small black component), 'Energy Sensor' (a white rectangular device with wires), 'Terminal block' (a black component with three terminals), and 'Combination block' (a black component with four terminals). The second row includes: 'Current limiter' (a black component with two terminals), 'Comb busbar' (a long black component with many terminals), and 'Extended rotary handle' (a green and red handle attached to a breaker).

Offer Marketing Illustration

Product benefits / Features



The image shows a TeSys Deca Motor Circuit Breaker, a black industrial device with a green handle. It has three main terminals at the top labeled 1L1, 3L2, and 5L3, and three at the bottom labeled 2T1, 4T2, and 6T3. A green handle is in the center, with 'ON' and 'OFF' markings. A QR code and the Schneider logo are visible on the front panel.

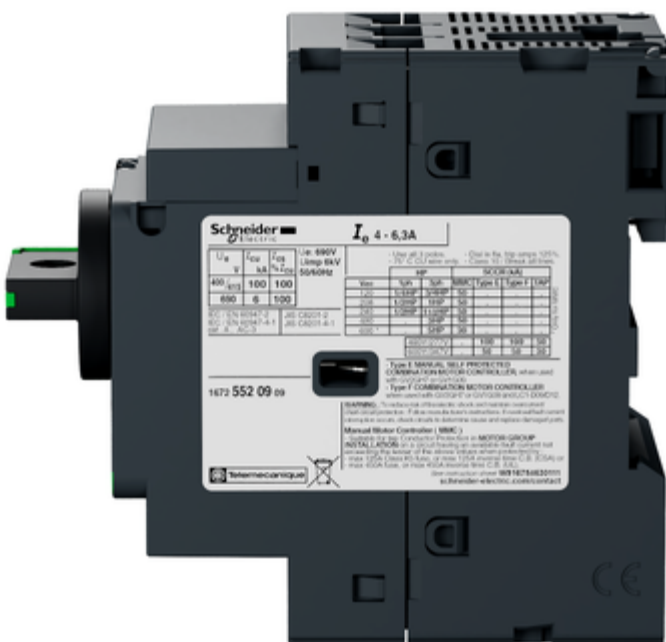
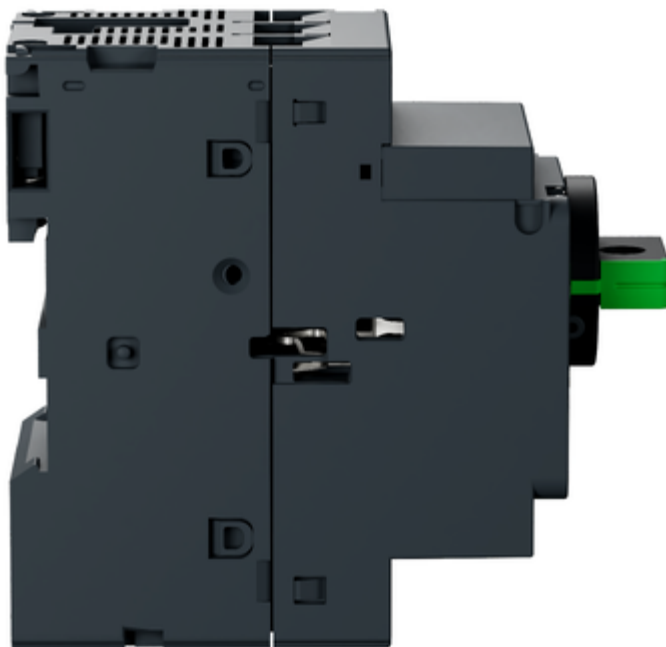
TeSys Deca Motor Circuit Breakers

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.

Image of product / Alternate images

Alternative



Schneider Electric **I₀ 4 - 6,3A**

| | | | | |
|----------------|----------------|-----------------|------------|---------|
| U _e | I _e | I _{th} | Up to 690V | |
| | | | 50/60Hz | 50/60Hz |
| 400 V | 3A | 100 | 100 | |
| 690 V | 0 | 100 | | |

- Use 20% inrush current
 - Clear in 100 ms (typ. 100%)
 - 100% C.O.V. max.
 - Class 10 - 10kA short-circuit capacity

| Type | AC | | DC | |
|----------|-------|-------|-------|-------|
| | 100 V | 250 V | 100 V | 250 V |
| 100 V AC | 10 A | 5 A | | |
| 250 V AC | | | 5 A | 2.5 A |
| 100 V DC | | | 20 A | 10 A |
| 250 V DC | | | | |

Type I **MANUAL SELF PROTECTED**
 COMBINATION MOTOR CONTROLLER when used with an external thermal relay.
 Type II **COMBINATION MOTOR CONTROLLER** when used with a thermal relay.

WARNING: To be used only for starting and stopping of motor.
 Do not use for starting, stopping and reversing of motor.
 For more details, refer to the Schneider website: www.schneider-electric.com

Manual Motor Controller (MMC) **NOT A MOTOR PROTECTOR**
 MOTOR PROTECTOR is a product family of Schneider that includes thermal relays, motor protection circuit breakers, and motor starters.

Schneider Electric, a member of the Schneider Electric Group.
 Schneider Electric is an Equal Opportunity Employer.

Schneider Electric is an Equal Opportunity Employer.

Schneider Electric is an Equal Opportunity Employer.



Technical Illustration

Assembly's dimensions

