

GV2LE20

TeSys GV2 Manual Starter and Protector,
magnetic circuit protector, toggle switch, 18 A,
screw clamp terminals

Product availability : Non-Stock - Not normally stocked in distribution facility



Price* : 366.00 USD



Main

| | |
|---|---|
| Range | TeSys |
| Product name | TeSys GV2 |
| Device short name | GV2LE |
| Device application | Motor |
| Poles description | 3P |
| Network type | AC |
| Utilisation category | Category A IEC 60947-2 AC-3 IEC 60947-4-1 |
| Network frequency | 50/60 Hz IEC 60947-2 |
| Breaking capacity | 100 kA Icu 230/240 V AC 50/60 Hz IEC 60947-2 3 kA Icu 690 V AC 50/60 Hz IEC 60947-2 15 kA Icu 400/415 V AC 50/60 Hz IEC 60947-2 8 kA Icu 440 V AC 50/60 Hz IEC 60947-2 6 kA Icu 500 V AC 50/60 Hz IEC 60947-2 |
| [Ics] rated service short-circuit breaking capacity | 100 % 230/240 V AC 50/60 Hz IEC 60947-2 75 % 500 V AC 50/60 Hz IEC 60947-2 50 % 400/415 V AC 50/60 Hz IEC 60947-2 75 % 690 V AC 50/60 Hz IEC 60947-2 50 % 440 V AC 50/60 Hz IEC 60947-2 |
| Trip unit technology | Magnetic |
| Magnetic tripping current | 223 A |

Complementary

| | |
|--------------------|--|
| Fixing mode | 35 mm symmetrical DIN rail clipped (Panel screwed with adaptor plate) |
| Operating position | Any position |
| Motor power kW | 7.5 kW 400/415 V AC 50/60 Hz |

* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Oct 3, 2020

| | |
|--|---|
| | 9 kW 500 V AC 50/60 Hz 15 kW 690 V AC 50/60 Hz |
| Control type | Toggle |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz IEC 60947-2 |
| [Ui] rated insulation voltage | 690 V AC 50/60 Hz IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 6 kV IEC 60947-2 |
| Power dissipation per pole | 1.8 W |
| Mechanical durability | 100000 cycles |
| Electrical durability | 100000 cycles AC-3 415 V |
| Maximum operating rate | 40 cyc/h |
| Rated duty | Continuous IEC 60947-4-1 |
| Connections - terminals | screw clamp terminals 2 0.00...0.01 in ² (1...6 mm ²) solid screw clamp terminals 2 0.00...0.01 in ² (1.5...6 mm ²) flexible without cable end screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²) flexible with cable end |
| Tightening torque | 15.05 lbf.in (1.7 N.m) screw clamp terminals |
| Mechanical robustness | Shocks 30 Gn IEC 60068-2-27 Vibrations 5 Gn, 5...150 Hz IEC 60068-2-6 |
| Suitability for isolation | Yes IEC 60947-1 |
| Maximum Height | 3.50 in (89 mm) |
| Maximum Width | 1.77 in (45 mm) |
| Maximum Depth | 3.09 in (78.5 mm) |
| Net Weight | 0.73 lb(US) (0.33 kg) |

Environment

| | |
|---------------------------------------|--|
| Standards | EN/IEC 60947-2 EN/IEC 60947-4-1 CSA C22.2 No 60947-4-1 UL 60947-4-1 |
| Product certifications | IECEE CB Scheme UL CSA CCC EAC RINA LROS (Lloyds register of shipping) DNV-GL BV |
| Protective treatment | TH |
| IP degree of protection | IP20 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) IEC 60695-2-1 |
| Operating altitude | 0...6561.68 ft (0...2000 m) |

Ordering and shipping details

| | |
|-----------------------|---|
| Category | 18402 - WORLD SERVICE PARTS(CONTROL ACCESS) |
| Discount Schedule | CP10 |
| GTIN | 00785901624011 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 0.64 lb(US) (0.29 kg) |
| Returnability | No |
| Country of origin | FR |

Packing Units

| | |
|------------------------|-----|
| Unit Type of Package 1 | PCE |
|------------------------|-----|

| | |
|------------------------------|----------------------------|
| Package 1 Height | 1.81 in (4.6 cm) |
| Package 1 width | 3.35 in (8.5 cm) |
| Package 1 Length | 3.66 in (9.3 cm) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 24 |
| Package 2 Weight | 15.55 lb(US) (7.052 kg) |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 384 |
| Package 3 Weight | 281.99 lb(US) (127.908 kg) |
| Package 3 Height | 31.50 in (80 cm) |
| Package 3 width | 31.50 in (80 cm) |
| Package 3 Length | 23.62 in (60 cm) |

Offer Sustainability

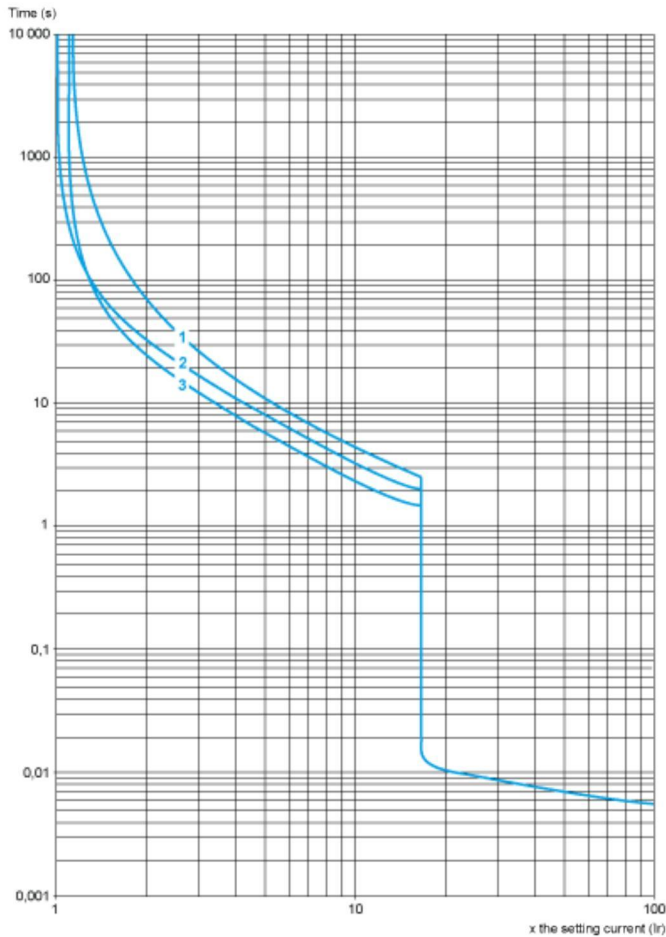
| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide which is known to the State of California to cause Carcinogen harm. For more information go to www.p65warnings.ca.gov |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information. |
| Environmental Disclosure | Product Environmental Profile |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Contractual warranty

| | |
|----------|-----------|
| Warranty | 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

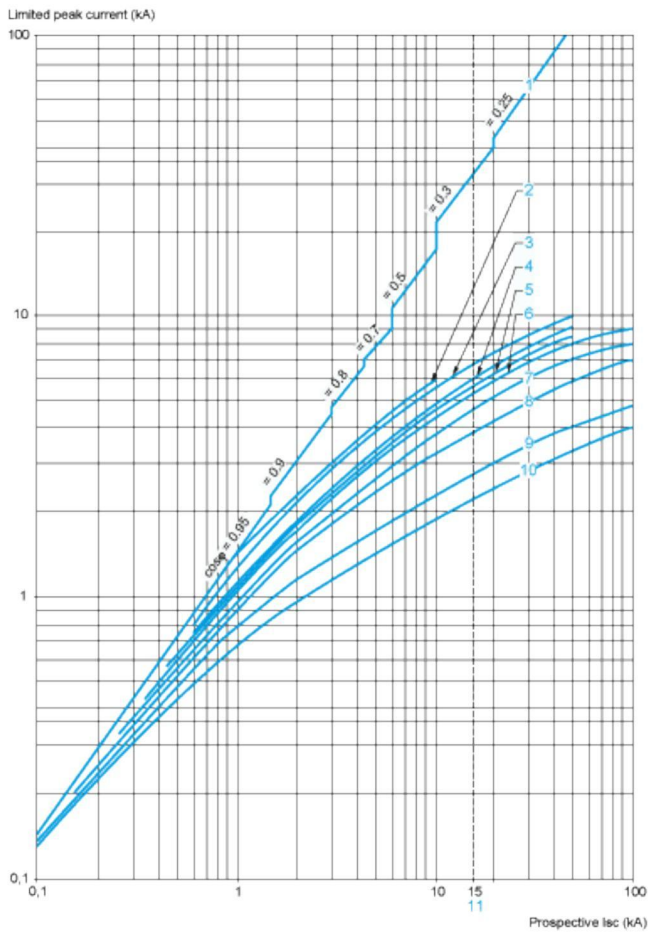


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

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

Dynamic Stress

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

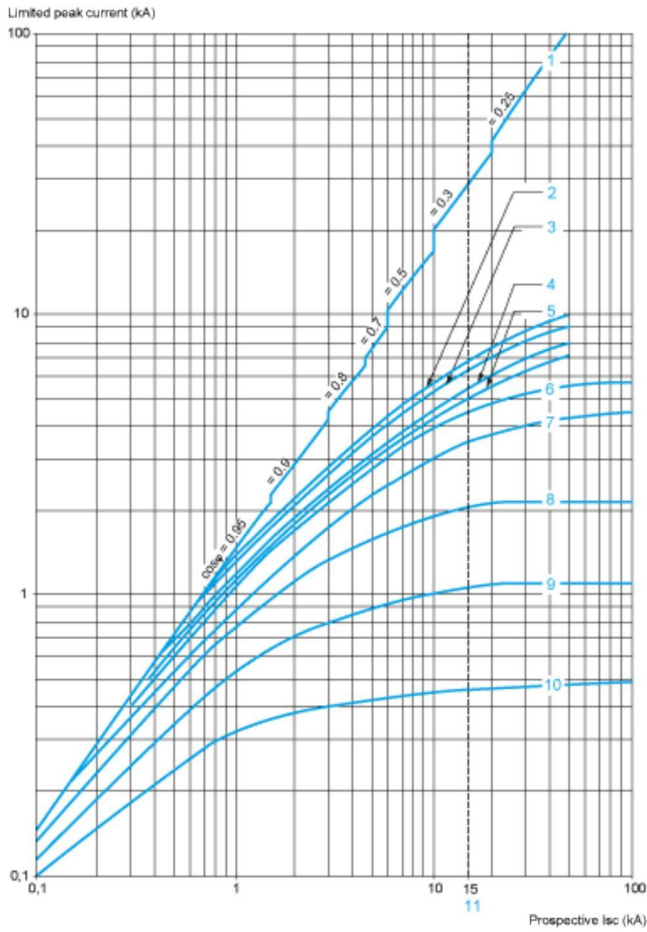


- 1 Maximum peak current
- 2 32 A
- 3 25 A
- 4 18 A
- 5 14 A
- 6 10 A
- 7 6.3 A
- 8 4 A
- 9 2.5 A
- 10 1.6 A
- 11 Limit of rated ultimate breaking capacity on short-circuit of GV2LE (14, 18, 23, and 25 A ratings).

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

Dynamic Stress

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

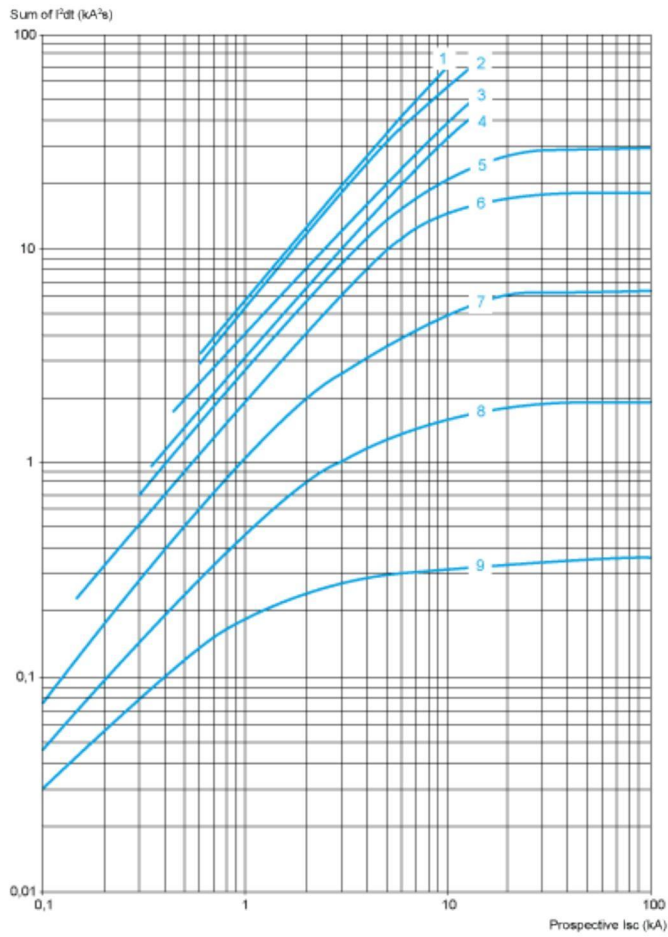


- 1 Maximum peak current
- 2 32 A
- 3 25 A
- 4 18 A
- 5 14 A
- 6 10 A
- 7 6.3 A
- 8 4 A
- 9 2.5 A
- 10 1.6 A
- 11 Limit of rated ultimate breaking capacity on short-circuit of GV2LE (14, 18, 23, and 25 A ratings).

Thermal Limit on Short-Circuit for GV2LE Only

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

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

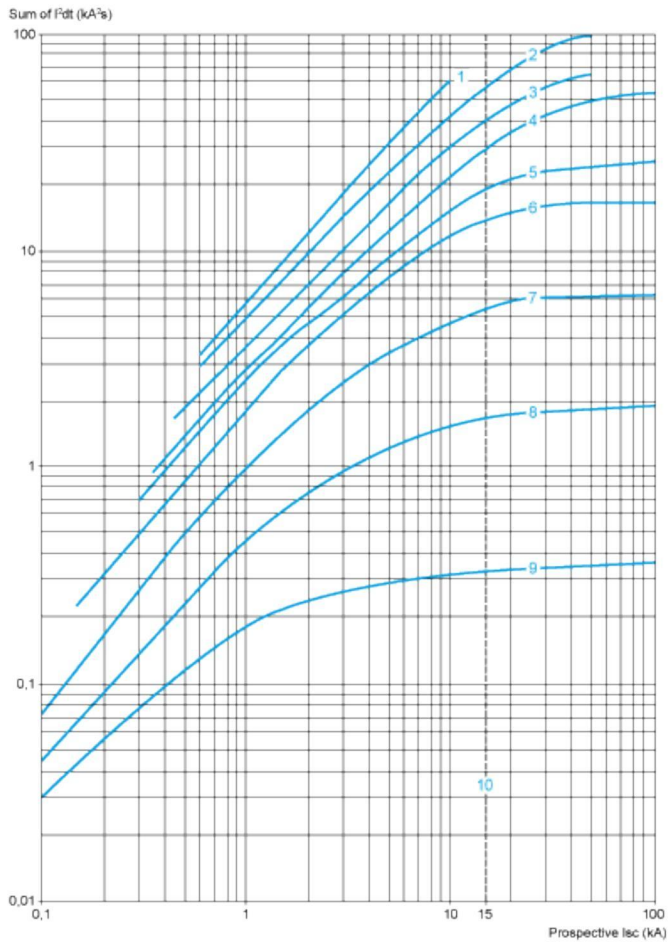


| | |
|---|-------|
| 1 | 32 A |
| 2 | 25 A |
| 3 | 18 A |
| 4 | 14 A |
| 5 | 10 A |
| 6 | 6.3 A |
| 7 | 4 A |
| 8 | 2.5 A |
| 9 | 1.6 A |

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

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

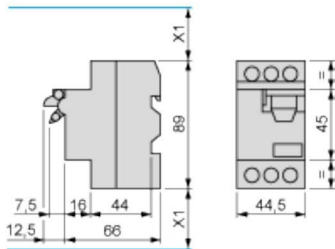
Sum of $I^2dt = f$ (prospective I_{sc}) at $1.05 U_e = 435 V$



- 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).

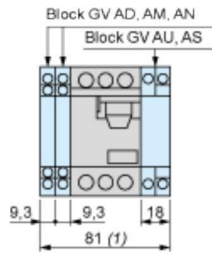
GV2LE

Dimensions

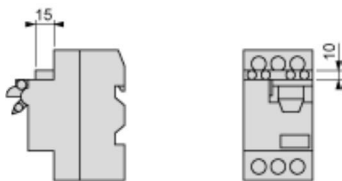


X1 Electrical clearance = 40 mm for $U_e \leq 690$ V.

GVAD, AM, AN, AU, AS

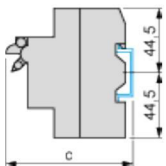


1 Maximum
GVAE



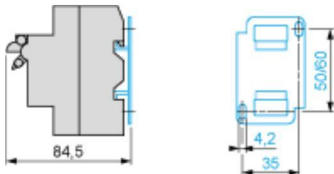
Mounting

On 35 mm rail

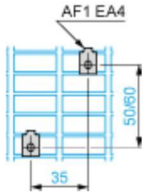


$c = 80$ on AM1 DP200 (35 x 7.5) and 88 on AM1 DE200, ED200 (35 x 15)

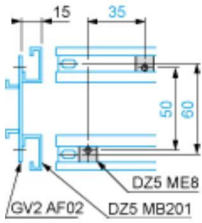
On panel with adapter plate GV2 AF02



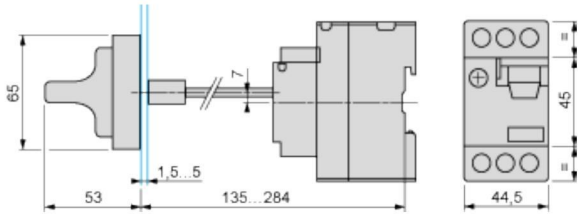
On pre-slotted plate AM1 PA



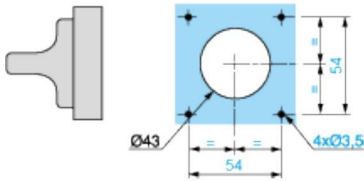
On rails DZ5 MB201



Mounting of External Operator GV2AP03 for GV2LE

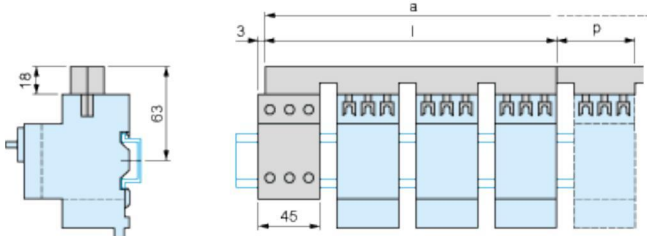


Door cut-out



GV2L and GV2LE

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

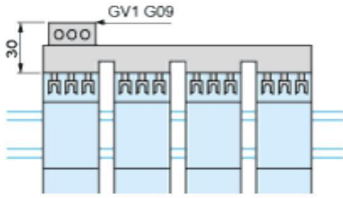


| | l | p |
|---------------------|-----|----|
| GV2G445 (4 x 45 mm) | 179 | 45 |
| GV2G454 (4 x 54 mm) | 206 | 54 |
| GV2G472 (4 x 72 mm) | 260 | 72 |

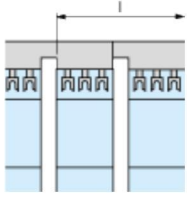
| Number of tap-offs | a | | | |
|--------------------|-----|-----|-----|-----|
| | 5 | 6 | 7 | 8 |
| GV2G445 | 224 | 269 | 314 | 359 |
| GV2G454 | 260 | 314 | 368 | 422 |
| GV2G472 | 332 | 404 | 476 | 548 |

Sets of Busbars for GV2L and GV2LE

Sets of busbars GV2G... with terminal block GV1G09

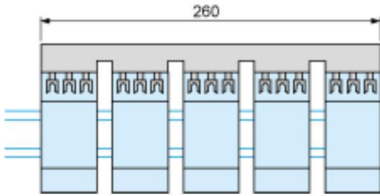


Sets of busbars GV2G245, GV2G254, GV2GR272

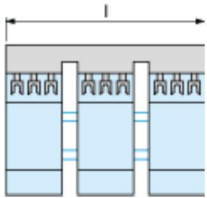


| | I |
|---------------------|-----|
| GV2G245 (2 x 45 mm) | 89 |
| GV2G254 (2 x 54 mm) | 98 |
| GV2G272 (2 x 72 mm) | 116 |

Set of busbars GV2G554



Sets of busbars GV2G345 and GV2G354



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

GV2LE••

