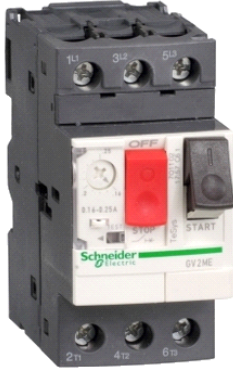


GV2ME01

TeSys GV2–termo–magnetski-prekidač-0,1...0,16 A
-priključci vijčanim stezaljkama



Glavno

| | |
|---------------------------|------------------|
| Range | TeSys |
| Product name | TeSys GV2 |
| Device short name | GV2ME |
| Product or component type | Circuit breaker |
| Device application | Motor |
| Trip unit technology | Thermal-magnetic |

Komplementarno

| | |
|--|---|
| Poles description | 3P |
| Network type | AC |
| Utilisation category | AC-3 conforming to IEC 60947-4-1 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 Screwed on panel (with adaptor plate) |
| Operating position | Any position |
| Breaking capacity | 100 kA I _{cu} at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 kA I _{cu} at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 100 kA I _{cu} at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 100 kA I _{cu} at 440 V AC 50/60 Hz conforming to IEC 60947-2 100 kA I _{cu} at 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [I _{cs}] rated service short-circuit breaking capacity | 100 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 100 % 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 60947-2 100 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 |
| Control type | Push-button |
| [I _n] rated current | 0.16 A |
| Trip unit rating | 0.1...0.16 A |
| Magnetic tripping current | 1.5 A |
| [U _e] rated operational voltage | 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [U _i] rated insulation voltage | 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [I _{th}] conventional free air thermal current | 0.16 A conforming to IEC 60947-4-1 |
| [U _{imp}] 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 for 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) 1...6 mm ² solid Screw clamp terminals 2 cable(s) 1.5...6 mm ² flexible without cable end Screw clamp terminals 2 cable(s) 1...4 mm ² flexible with cable end |
| Tightening torque | 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 | 89 mm |

Informacije dane u ovoj dokumentaciji sadrže opće opise 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 poipunu 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.

| | |
|----------------|---------|
| Width | 44.5 mm |
| Depth | 78.2 mm |
| Product weight | 0.26 kg |

Okolina

| | |
|---------------------------------------|---|
| standards | EN 60204 IEC 60947-1 IEC 60947-2 IEC 60947-4-1 NF C 63-120 NF C 63-650 NF C 79-130 UL 508 VDE 0113 VDE 0660 CSA C22.2 |
| product certifications | ATEX BV CCC CEBEC CSA DNV EZU GL LROS (Lloyds register of shipping) RINA SETI TSE UL EAC |
| protective treatment | TH |
| IP degree of protection | IP20 conforming to IEC 60529 |
| 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 | 2000 m |

Offer Sustainability

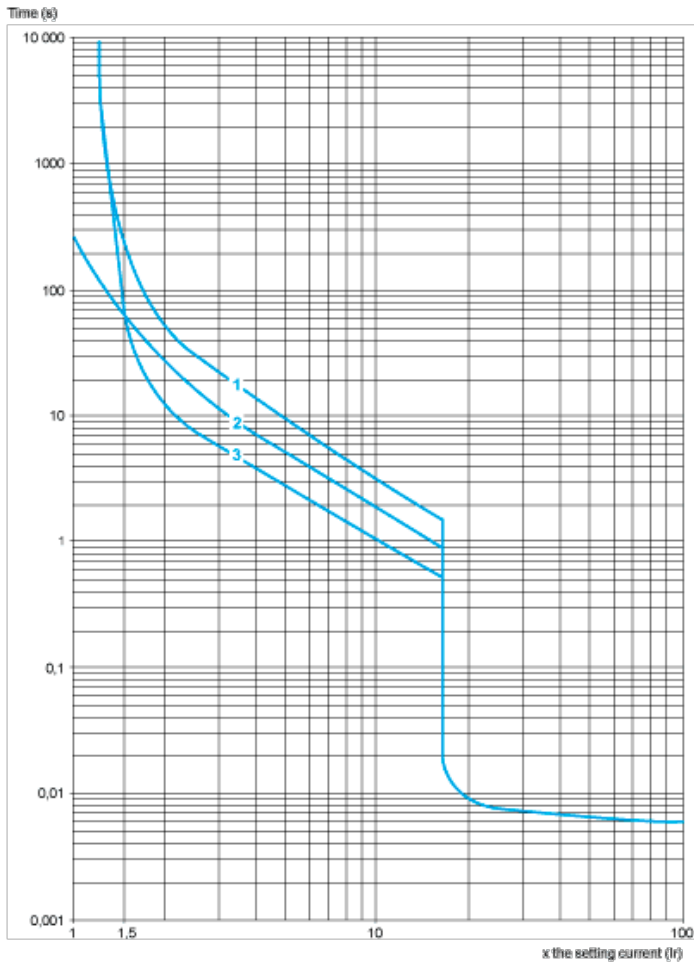
| | |
|--|---|
| Green Premium product | Green Premium product |
| Compliant - since 0631 - Schneider Electric declaration of conformity | Compliant - since 0631 - Schneider Electric declaration of conformity |
| Reference contains SVHC above the threshold - go to CaP for more details | Reference contains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

Contractual warranty

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

Thermal-Magnetic Tripping Curves for GV2ME and GV2P

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

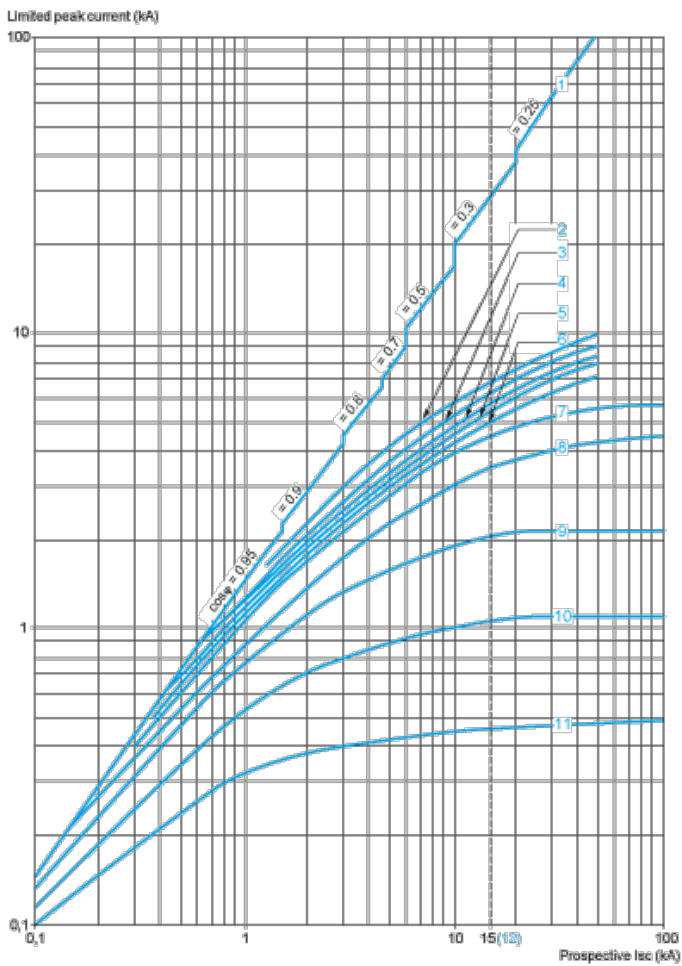


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

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

Dynamic Stress

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

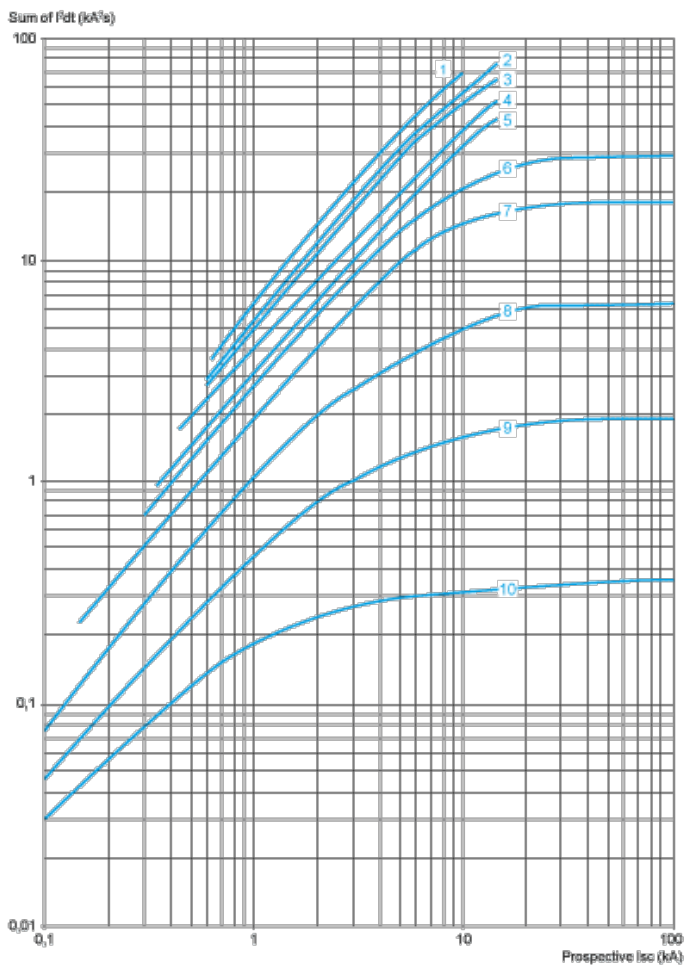


- 1 Maximum peak current
- 2 24-32 A
- 3 20-25 A
- 4 17-23 A
- 5 13-18 A
- 6 9-14 A
- 7 6-10 A
- 8 4-6.3 A
- 9 2.5-4 A
- 10 1.6-2.5 A
- 11 1-1.6 A
- 12 Limit of rated ultimate breaking capacity on short-circuit of GV2ME (14, 18, 23, and 25 A ratings).

Thermal Limit on Short-Circuit for GV2ME

Thermal Limit in kA²s in the Magnetic Operating Zone

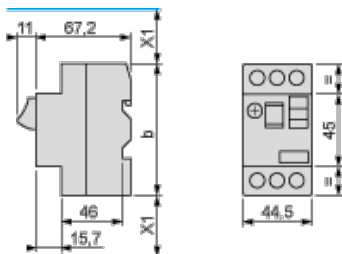
Sum of $I^2dt = f$ (prospective Isc) at 1.05 Ue = 435 V



- 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

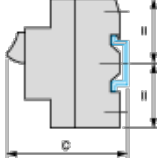
X1 Electrical clearance = 40 mm for $U_e \leq 690$ V

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

Mounting

GV2ME

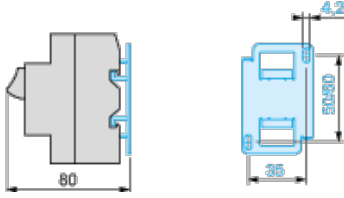
On 35 mm rail



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

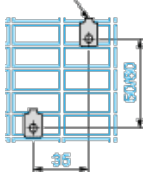
$c = 86$ on AM1 DE200, ED200 (35 x 15)

On panel with adapter plate GV2AF02

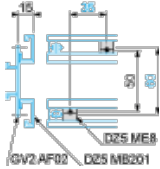


On pre-slotted plate AM1 PA

AF1 EA4

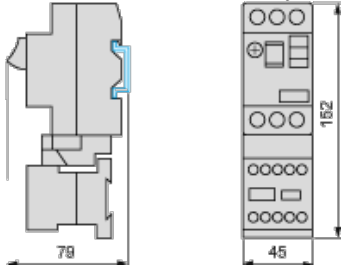


On rails DZ5 MB201



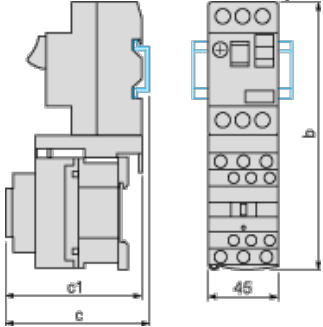
GV2AF01

Combination GV2ME + TeSys k contactor



GV2AF3

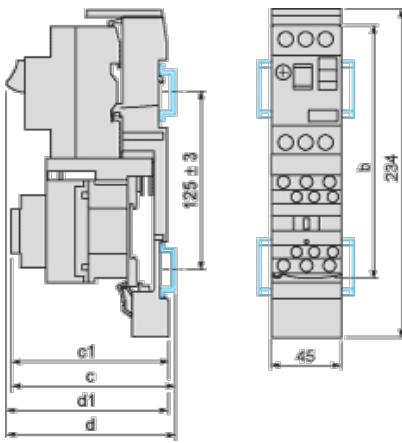
Combination GV2ME + TeSys d contactor



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

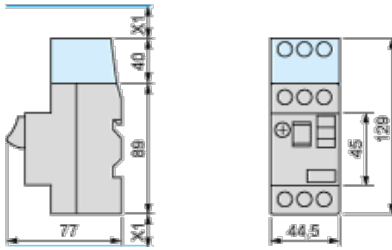
GV2AF4 + LAD311

Combination GV2ME + TeSys d contactor



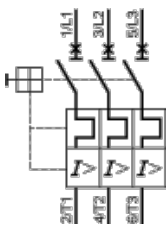
| GV2ME + | LC1D09...D18 | LC1D25 and D32 |
|---------|--------------|----------------|
| b | 176.4 | 186.8 |
| c1 | 103.1 | 136.4 |
| c | 135.6 | 141.9 |
| d1 | 107 | 107 |
| d | 112.5 | 112.5 |

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

