# Product data sheet
## Characteristics

# GV3P65
## Motor circuit breaker, TeSys GV3, 3P, 48-65 A, thermal magnetic, EverLink terminals

## Main

| | |
|---|---|
| Range | TeSys |
| Product name | TeSys GV3 |
| Product or component type | Circuit breaker |
| Device short name | GV3P |
| Device application | Motor |
| Trip unit technology | Thermal-magnetic |

## Complementary

| | |
|---|---|
| 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 60947-4-1 |
| Fixing mode | 35 mm symmetrical DIN rail: clipped<br>Panel: screwed (with 3 x M4 screws) |
| Operating position | Any position |
| Motor power kW | 55 KW at 690 V AC 50/60 Hz<br>45 KW at 500 V AC 50/60 Hz<br>30 kW at 400/415 V AC 50/60 Hz |
| Breaking capacity | 100 KA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2<br>50 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>6 KA Icu at 690 V AC 50/60 Hz conforming to IEC 60947-2<br>50 KA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>12 kA Icu at 500 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 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>50 % at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>50 % at 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Control type | Rotary knob |
| [In] rated current | 65 A |
| Thermal protection adjustment range | 48…65 A |
| Magnetic tripping current | 910 A |
| [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 |
| [Ith] conventional free air thermal current | 65 A conforming to IEC 60947-4-1 |
| [Uimp] rated impulse withstand voltage | 6 kV IEC 60947-2 |
| Power dissipation per pole | 8 W |
| Mechanical durability | 50000 cycles |
| Electrical durability | 50000 cycles for AC-3 at 440 V In |
| Maximum operating rate | 25 cyc/h |
| Rated duty | Continuous conforming to IEC 60947-4-1 |

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.
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| | |
|---|---|
| Tightening torque | 5 N.M on EverLink BTR screw connectors for cable 25 mm²<br>8 N.m on EverLink BTR screw connectors for cable 35 mm² |
| Suitability for isolation | Yes conforming to IEC 60947-1 |
| Phase failure sensitivity | Yes conforming to IEC 60947-4-1 |
| Height | 132 mm |
| Width | 55 mm |
| Depth | 136 mm |
| Net weight | 0.96 kg |

## Environment

| | |
|---|---|
| Standards | EN/IEC 60947-2<br>EN/IEC 60947-4-1<br>CSA C22.2 No 60947-4-1<br>UL 60947-4-1 |
| Product certifications | IECEE CB Scheme<br>UL<br>CSA<br>CCC<br>EAC<br>ATEX<br>BV<br>LROS (Lloyds register of shipping)<br>DNV-GL<br>ABS |
| Protective treatment | TH |
| IP degree of protection | IP20 conforming to IEC 60529 |
| IK degree of protection | IK09 |
| 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 | 3000 m |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 1.018 kg |
| Package 1 Height | 6.334 cm |
| Package 1 width | 14.589 cm |
| Package 1 Length | 15.609 cm |
| Unit Type of Package 2 | P06 |
| Number of Units in Package 2 | 120 |
| Package 2 Weight | 134.92 kg |
| Package 2 Height | 80 cm |
| Package 2 width | 80 cm |
| Package 2 Length | 60 cm |

## Offer Sustainability

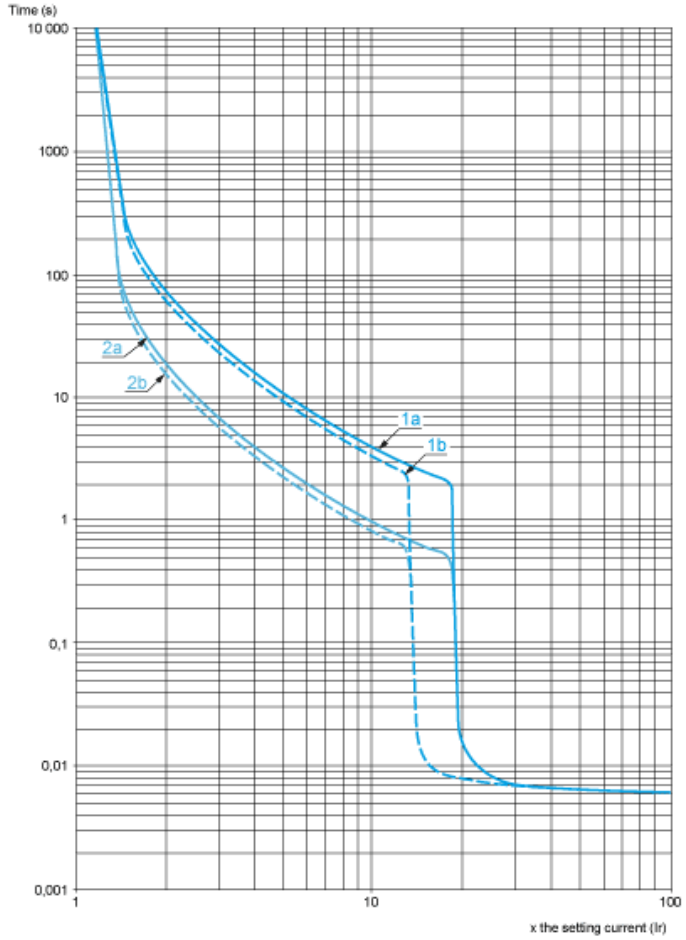
| | |
|---|---|
| Sustainable offer status | Green Premium product |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | 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 |

## Thermal-Magnetic Tripping Curves

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

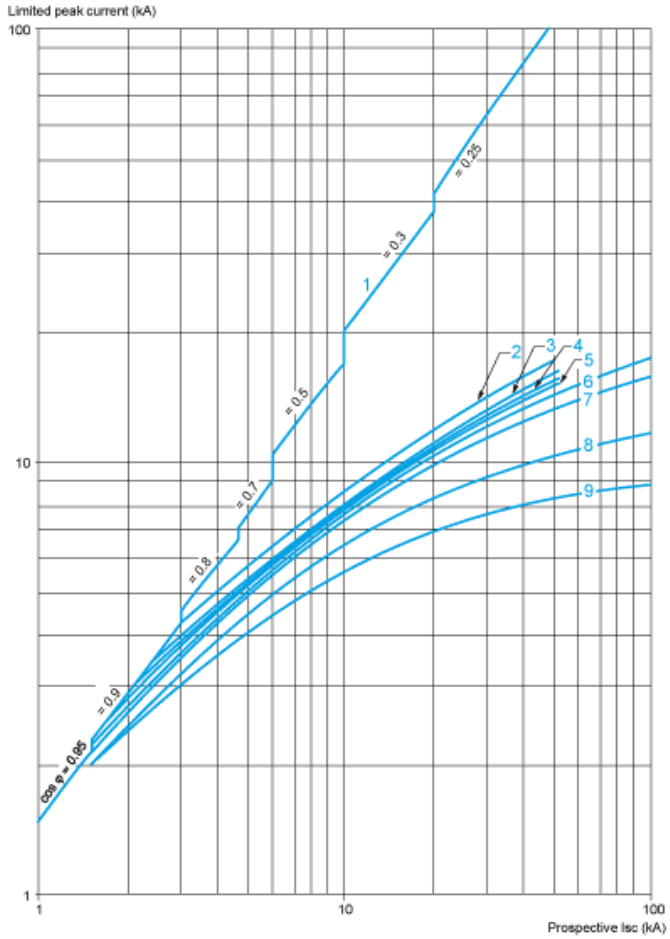



1a 3 poles from cold state (Ir minimum): GV3P
1b 3 poles from cold state (Ir maximum): GV3P
2a 3 poles from hot state (Ir minimum): GV3P
2b 3 poles from hot state (Ir maximum): GV3P

## Current Limitation on Short-Circuit (3-Phase 400/415 V)

Dynamic Stress

I peak = f (prospective Isc) at 1.05 Ue = 435 V

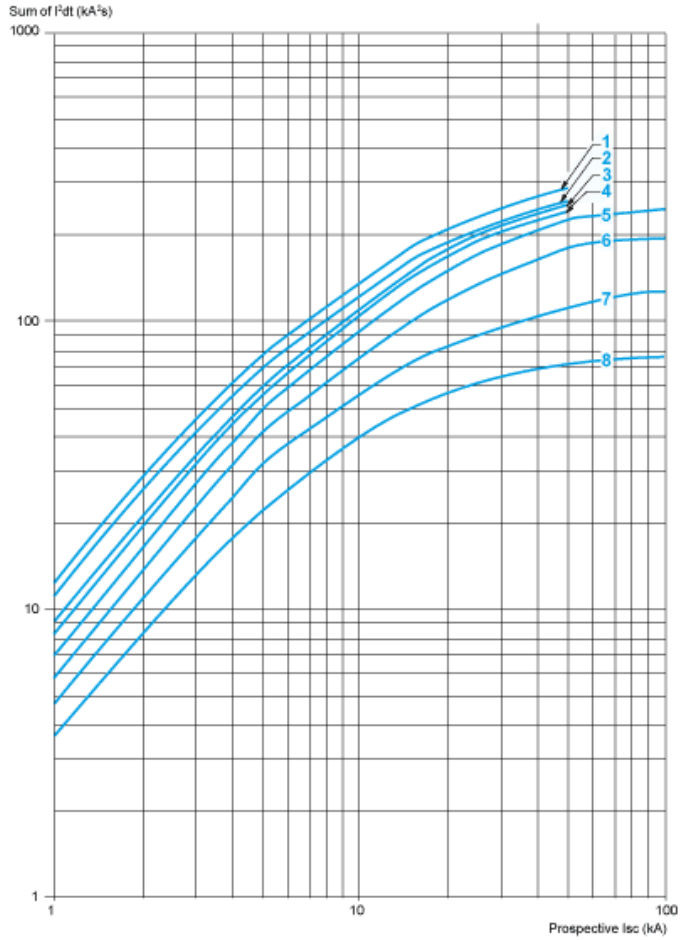



1 Maximum peak current
2 70-80 A (GV3P80), 62-73 A (GV3P73)
3 48-65 A (GV3P65)
4 37-50 A (GV3P50)
5 30-40 A (GV3P40)
6 23-32 A (GV3P32)
7 17-25 A (GV3P25)
8 12-18 A (GV3P18)
9 9-13 A (GV3P13)

## Maximum Thermal Limit on Short-Circuit

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

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




1 70-80 (GV3P80) - 62-73 (GV3P73)
2 48-65 A (GV3P65)
3 37-50 A (GV3P50)
4 30-40 A (GV3P40)
5 23-32 A (GV3P32)
6 17-25 A (GV3P25)
7 12-18 A (GV3P18)
8 9-13 A (GV3P13)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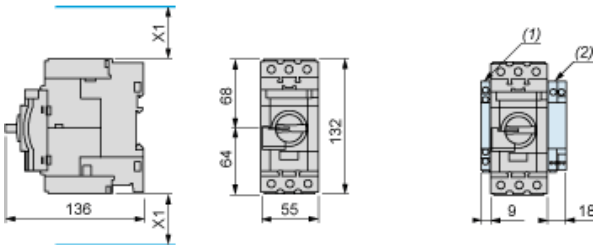
## GVI3L, GV3P

Dimensions

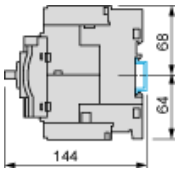



(1) Blocks GVAN••, GVAD•• and GVAM11.
(2) Blocks GV3AU•• and GV3AS••.

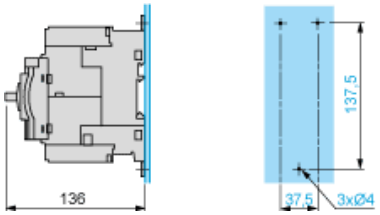
X1 = Electrical clearance (ISC max) 40 mm for Ue ≤ 500 V, 50 mm for Ue ≤ 690 V

NOTE: Leave a space of 9 mm between 2 circuit breakers: either an empty space or side-mounting add-on contact blocks. Side by side mounting is possible up to 40 °C.

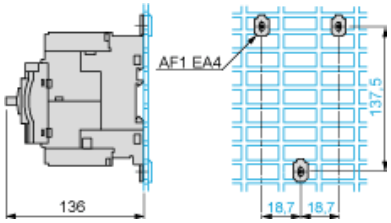
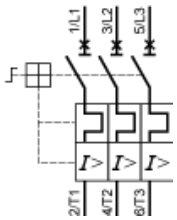
Mounting on Rail AM1 DE200 or AM1 ED201




Panel Mounting, using M4 Screws




Mounting on Pre-Slotted Plate AM1 PA



GV3P••