

## GV3P32

TeSys GV3 Manual Starter and Protector, thermal magnetic circuit protector, rotary knob, 23...32 A, EverLink BTR connectors



### Main

|                           |                  |
|---------------------------|------------------|
| Range                     | TeSys            |
| Product name              | TeSys GV3        |
| Device short name         | GV3P             |
| Product or component type | Circuit breaker  |
| 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                                         | Clipped on 35 mm symmetrical DIN rail<br>Screwed on panel (with 3 x M4 screws)                                                                                                                                                                                                                                    |
| Operating position                                  | Any position                                                                                                                                                                                                                                                                                                      |
| Motor power kW                                      | 15 kW at 400/415 V AC 50/60 Hz<br>22 kW at 690 V AC 50/60 Hz<br>18.5 kW at 500 V AC 50/60 Hz                                                                                                                                                                                                                      |
| Breaking capacity                                   | 50 kA Icu at 440 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>6 kA Icu at 690 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>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<br>100 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2                        |
| Control type                                        | Rotary knob                                                                                                                                                                                                                                                                                                       |
| [In] rated current                                  | 32 A                                                                                                                                                                                                                                                                                                              |
| Trip unit rating                                    | 23...32 A                                                                                                                                                                                                                                                                                                         |
| Magnetic tripping current                           | 448 A                                                                                                                                                                                                                                                                                                             |
| 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                                                                                                                                                                                                                                                                       |
| [Ith] conventional free air thermal current         | 32 A conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                                  |
| [Uimp] rated impulse withstand voltage              | 6 kV conforming to IEC 60947-2                                                                                                                                                                                                                                                                                    |
| Power dissipation per pole                          | 8 W                                                                                                                                                                                                                                                                                                               |
| Mechanical durability                               | 50000 cycles                                                                                                                                                                                                                                                                                                      |
| Electrical durability                               | 50000 cycles AC-3 at 440 V In                                                                                                                                                                                                                                                                                     |
| Operating rate                                      | 25 cyc/h                                                                                                                                                                                                                                                                                                          |
| Rated duty                                          | Continuous conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                            |
| Connections - terminals                             | EverLink BTR screw connectors 2 cable(s) 1...25 mm <sup>2</sup> solid<br>EverLink BTR screw connectors 2 cable(s) 1...25 mm <sup>2</sup> flexible without cable end<br>EverLink BTR screw connectors 2 cable(s) 1...25 mm <sup>2</sup> flexible with cable end                                                    |
| Tightening torque                                   | 5 N.m on EverLink BTR screw connectors for cable 25 mm <sup>2</sup>                                                                                                                                                                                                                                               |

The information provided in this documentation contains general descriptions and/or technical characteristics 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.

|                           |                                                                     |
|---------------------------|---------------------------------------------------------------------|
|                           | 8 N.m on EverLink BTR screw connectors for cable 35 mm <sup>2</sup> |
| Suitability for isolation | Yes conforming to IEC 60947-1                                       |
| Phase failure sensitivity | Yes conforming to IEC 60947-4-1                                     |
| Height                    | 5.2 in (132 mm)                                                     |
| Width                     | 2.17 in (55 mm)                                                     |
| Depth                     | 5.35 in (136 mm)                                                    |
| Product weight            | 2.12 lb(US) (0.96 kg)                                               |

## Environment

|                                       |                                                                                                    |
|---------------------------------------|----------------------------------------------------------------------------------------------------|
| standards                             | EN/IEC 60947-1<br>EN/IEC 60947-2<br>EN/IEC 60947-4-1<br>UL 508 type E<br>CSA C22.2 No 14-05 type E |
| product certifications                | ATEX<br>BV<br>CCC<br>CSA<br>DNV<br>GL<br>LROS (pending)<br>RINA<br>UL<br>EAC                       |
| protective treatment                  | TH                                                                                                 |
| IP degree of protection               | IP20 conforming to IEC 60529                                                                       |
| IK degree of protection               | IK09                                                                                               |
| 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                    | 9842.52 ft (3000 m)                                                                                |

## Offer Sustainability

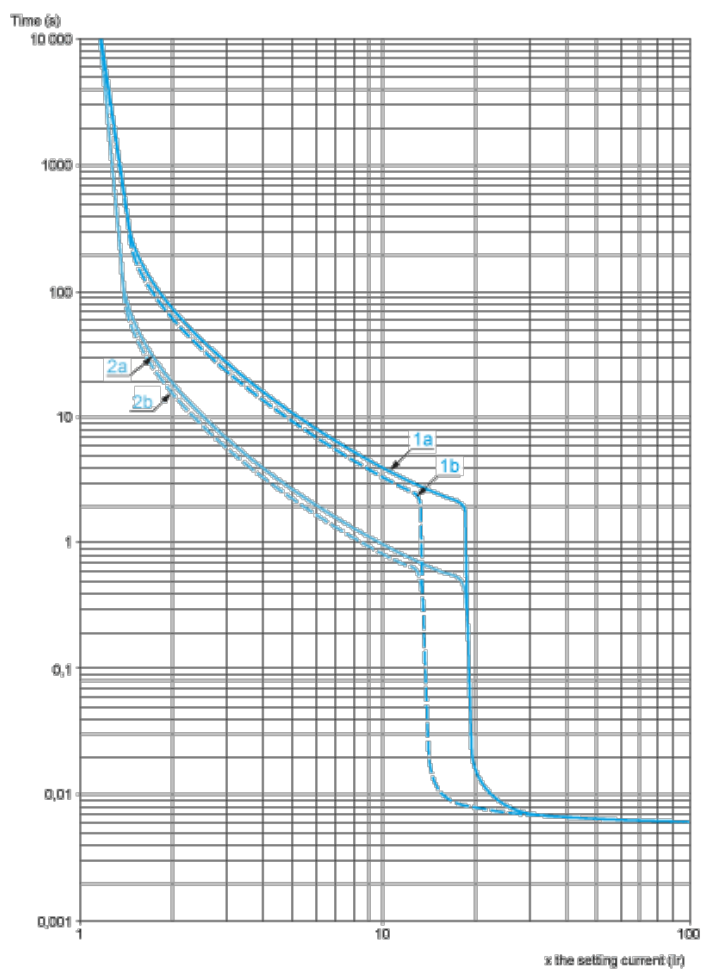
|                                                                                                |                                                                                                |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Green Premium product                                                                          | Green Premium product                                                                          |
| Compliant - since 0501 - Schneider Electric declaration of conformity                          | Compliant - since 0501 - Schneider Electric declaration of conformity                          |
| Reference not containing SVHC above the threshold                                              | Reference not containing 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>  |

## Contractual warranty

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

## Thermal-Magnetic Tripping Curves

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

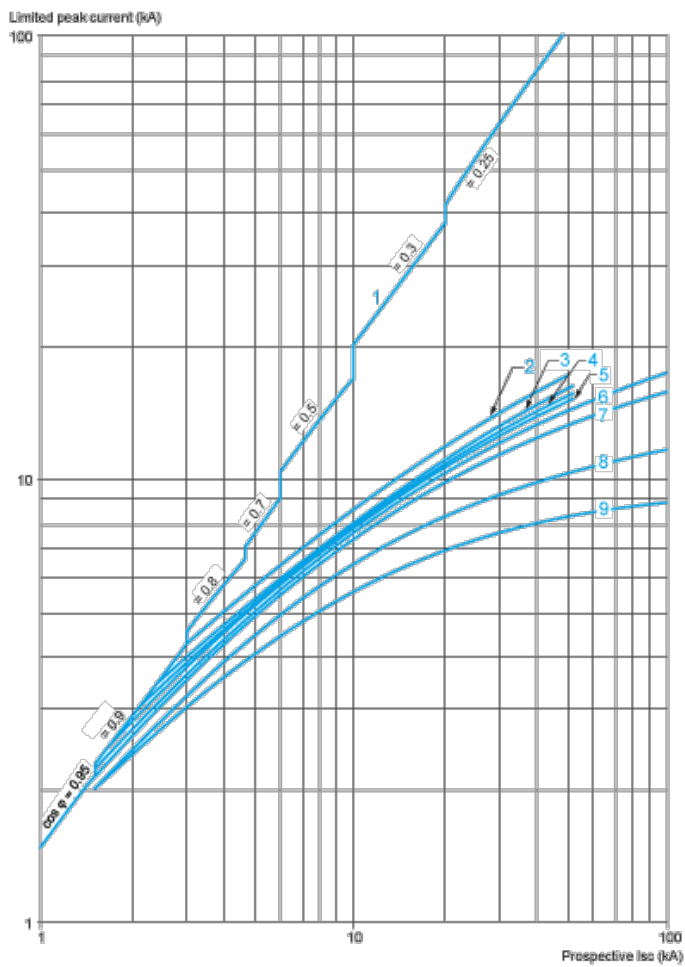


- 1a 3 poles from cold state ( $I_r$  minimum): GV3P
- 1b 3 poles from cold state ( $I_r$  maximum): GV3P
- 2a 3 poles from hot state ( $I_r$  minimum): GV3P
- 2b 3 poles from hot state ( $I_r$  maximum): GV3P

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

##### Dynamic Stress

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

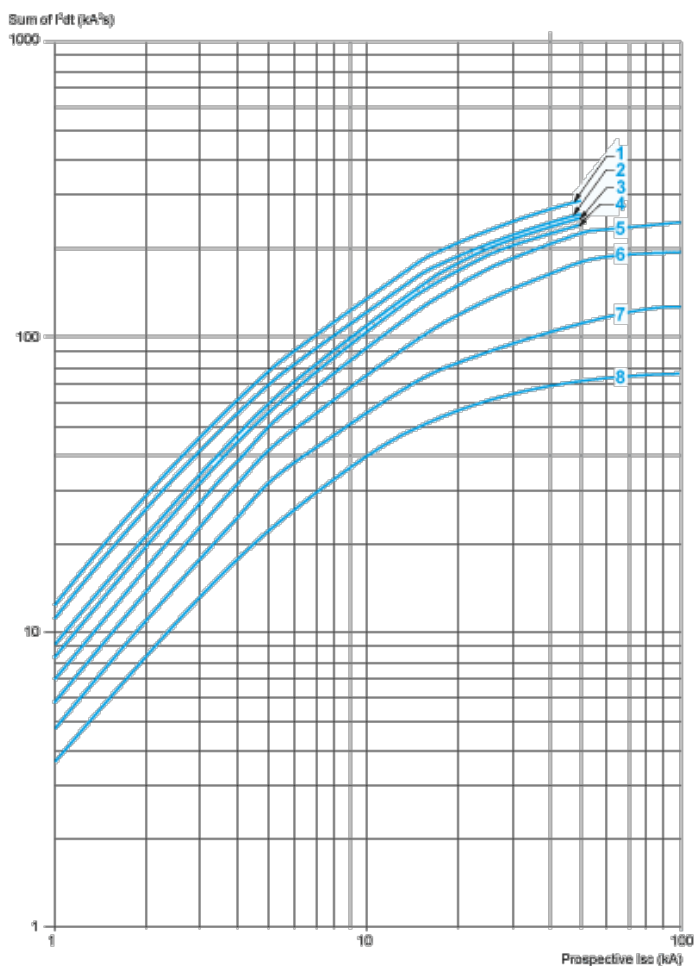


- 1 Maximum peak current
- 2 70-80 A (GV3P80), 62-73 A (GV3P73)
- 3 48-65 A (GV3P65)
- 4 37-50 A (GV3P50)
- 5 30-40 A (GV3P40)
- 6 23-32 A (GV3P32)
- 7 17-25 A (GV3P25)
- 8 12-18 A (GV3P18)
- 9 9-13 A (GV3P13)

#### Maximum Thermal Limit on Short-Circuit

#### Thermal Limit in kA<sup>2</sup>s in the Magnetic Operating Zone

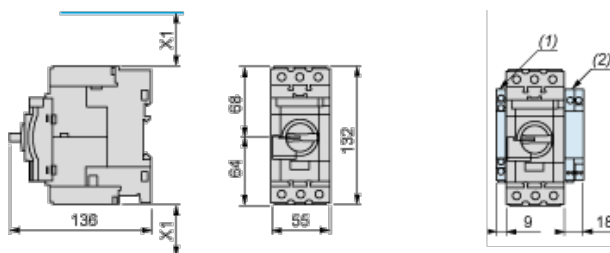
Sum of  $I^2dt = f$  (prospective Isc) at 1.05 Ue = 435 V



- 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)

### GV13L, GV3P

#### Dimensions



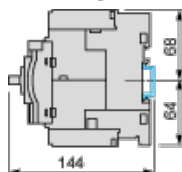
(1) Blocks GVAN<sub>..</sub>, GVAD<sub>..</sub> and GVAM11.

(2) Blocks GV3AU<sub>..</sub> and GV3AS<sub>..</sub>.

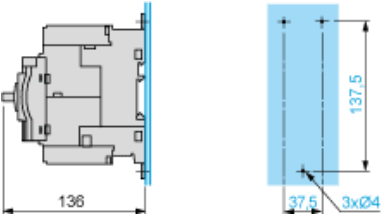
X1 = Electrical clearance (ISC max) 40 mm for  $U_e \leq 500$  V, 50 mm for  $U_e \leq 690$  V

**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.

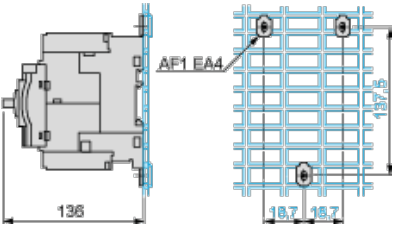
#### Mounting on Rail AM1 DE200 or AM1 ED201



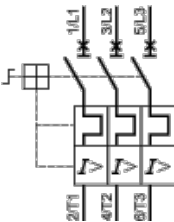
Panel Mounting, using M4 Screws



Mounting on Pre-Slotted Plate AM1 PA



GV3P••



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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
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