

# Product datasheet

Specifications



## Motor circuit breaker, TeSys GV2, 3P, 13-18 A, thermal magnetic, screw clamp terminals

Local distributor code: 386284977    GV2RT20

### Main

|                           |                                 |
|---------------------------|---------------------------------|
| Range of product          | TeSys GV2                       |
| Range                     | TeSys Deca                      |
| Device short name         | GV2RT                           |
| Product name              | TeSys GV2<br>TeSys Deca         |
| Product or component type | Motor circuit breaker           |
| Device application        | Motor protection<br>Transformer |
| 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 adaptor plate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Operating position                  | Any position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Motor power kW                      | 7.5 kW at 440 V AC 50/60 Hz motor protection high peak current<br>10 kW at 690 V AC 50/60 Hz transformer protection<br>4 kW at 220/230 V AC 50/60 Hz motor protection high peak current<br>7.5 kW at 400/415 V AC 50/60 Hz motor protection high peak current<br>9 kW at 440 V AC 50/60 Hz motor protection high peak current<br>9 kW at 500 V AC 50/60 Hz motor protection high peak current<br>15 kW at 690 V AC 50/60 Hz motor protection high peak current<br>5 kW at 230/240 V AC 50/60 Hz transformer protection<br>6.3 kW at 230/240 V AC 50/60 Hz transformer protection<br>10 kW at 400/415 V AC 50/60 Hz transformer protection<br>10 kW at 440 V AC 50/60 Hz transformer protection<br>10 kW at 500 V AC 50/60 Hz transformer protection<br>12.5 kW at 500 V AC 50/60 Hz transformer protection |
| Breaking capacity                   | 3 kA Icu at 690 V AC 50/60 Hz conforming to IEC 60947-2<br>15 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>8 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>6 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 220/230 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Control type                        | Toggle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| [In] rated current                  | 18 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Thermal protection adjustment range | 13...18 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

|                                             |                                                                                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Magnetic tripping current                   | 400 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 | 18 A conforming to IEC 60947-4-1                                                                       |
| [Uimp] 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 415 V at 415 V                                                               |
| Maximum operating rate                      | 25 cyc/h                                                                                               |
| Rated duty                                  | Continuous conforming to IEC 60947-4-1                                                                 |
| Tightening torque                           | 1.7 N.m on screw clamp terminals                                                                       |
| Mechanical robustness                       | Shocks: 30 Gn conforming to IEC 60068-2-27<br>Vibrations: 5 Gn, 5...150 Hz conforming to IEC 60068-2-6 |
| Height                                      | 89 mm                                                                                                  |
| Width                                       | 45 mm                                                                                                  |
| Depth                                       | 78.5 mm                                                                                                |
| Suitability for isolation                   | Yes conforming to IEC 60947-1 § 7-1-6                                                                  |

## Environment

|                                       |                                                                             |
|---------------------------------------|-----------------------------------------------------------------------------|
| Standards                             | EN/IEC 60947-2<br>EN/IEC 60947-4-1                                          |
| Product certifications                | CCC<br>UL<br>CSA<br>EAC<br>BV<br>LROS (Lloyds register of shipping)<br>UKCA |
| Climatic withstand                    | conforming to IACS E10                                                      |
| IK degree of protection               | IK04                                                                        |
| IP degree of protection               | IP20 conforming to IEC 60529                                                |
| Ambient air temperature for storage   | -40...80 °C                                                                 |
| Fire resistance                       | 960 °C conforming to IEC 60695-2-11                                         |
| Operating altitude                    | 2000 m                                                                      |
| Ambient air temperature for operation | -20...60 °C                                                                 |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Weight             | 293.0 g |
| Package 1 Height             | 4.8 cm  |
| Package 1 width              | 8.5 cm  |
| Package 1 Length             | 9.3 cm  |
| Unit Type of Package 2       | S02     |
| Number of Units in Package 2 | 24      |

|                              |            |
|------------------------------|------------|
| Package 2 Weight             | 7.22 kg    |
| Package 2 Height             | 15 cm      |
| Package 2 width              | 30 cm      |
| Package 2 Length             | 40 cm      |
| Unit Type of Package 3       | P06        |
| Number of Units in Package 3 | 384        |
| Package 3 Weight             | 128.292 kg |
| Package 3 Height             | 77 cm      |
| Package 3 width              | 60 cm      |
| Package 3 Length             | 80 cm      |

Offer Sustainability

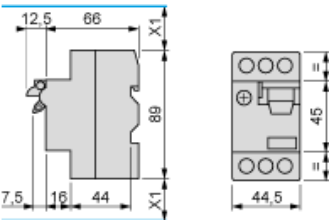
|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>                                                                            |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                               |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                                                     |
| 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 |
|----------|-----------|

GV2RT

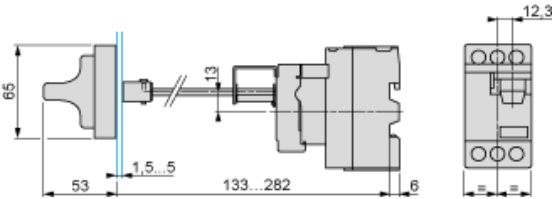
Dimensions



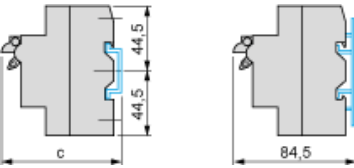
X1: Electrical clearance = 40 mm for Ue < 690 V

Mounting

Mounting of external operator GV2AP03



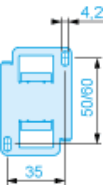
On 35 mm rail



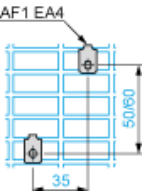
c = 80 on AM1 DP200 (35 x 7.5)

c = 88 on AM1 DE200, ED200 (35 x 15)

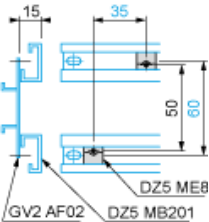
On panel with adapter plate GV2AF02



On pre-slotted plate AM1 PA



On rails DZ5 MB



GV2ME•• and GV2RT

