

# GV2P16

TeSys GV2 - Circuit breaker - thermal-magnetic - 9...14 A - screw clamp terminals



## Main

|                                                     |                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Commercial Status                                   | Commercialised                                                                                                                                                                                                                                                                                                              |
| Range of product                                    | TeSys GV2                                                                                                                                                                                                                                                                                                                   |
| Device short name                                   | GV2P                                                                                                                                                                                                                                                                                                                        |
| Product or component type                           | Circuit breaker                                                                                                                                                                                                                                                                                                             |
| Circuit breaker application                         | Motor protection                                                                                                                                                                                                                                                                                                            |
| Poles description                                   | 3P                                                                                                                                                                                                                                                                                                                          |
| Network type                                        | AC                                                                                                                                                                                                                                                                                                                          |
| Utilisation category                                | Category A conforming to IEC 60947-2<br>AC-3 conforming to IEC 60947-4-1                                                                                                                                                                                                                                                    |
| Network frequency                                   | 50/60 Hz conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                                        |
| Breaking capacity                                   | Icu = 100 kA at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu = 100 kA at 230/240 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu = 42 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu = 6 kA at 690 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu = 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service short-circuit breaking capacity | 100 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2<br>75 % at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>75 % at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 690 V AC 50/60 Hz conforming to IEC 60947-2                                  |
| Thermal protection adjustment range                 | 9...14 A                                                                                                                                                                                                                                                                                                                    |
| Trip unit technology                                | Thermal-magnetic                                                                                                                                                                                                                                                                                                            |
| Magnetic tripping current                           | 170 A                                                                                                                                                                                                                                                                                                                       |

## Complementary

|                                             |                                                                                                                           |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Mounting mode                               | By clips<br>By screws                                                                                                     |
| Mounting support                            | Plate<br>Rail                                                                                                             |
| Mounting position                           | Horizontal<br>Vertical                                                                                                    |
| Motor power kW                              | 11 kW at 690 V AC 50/60 Hz<br>9 kW at 690 V AC 50/60 Hz<br>7.5 kW at 500 V AC 50/60 Hz<br>5.5 kW at 400/415 V AC 50/60 Hz |
| Control type                                | Rotary knob                                                                                                               |
| [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 | 14 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 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...4 mm <sup>2</sup> - cable stiffness : flexible - with cable end<br>Screw clamp terminals 2 cable(s) 1.5...6 mm <sup>2</sup> - cable stiffness : flexible - without cable end<br>Screw clamp terminals 2 cable(s) 1...6 mm <sup>2</sup> - cable stiffness : solid |
| Tightening torque         | 1.7 N.m - on screw clamp terminals                                                                                                                                                                                                                                                                    |
| Mechanical robustness     | Shocks 30 Gn for 11 ms conforming to IEC 60068-2-27<br>Vibrations 5 Gn, 5...150 Hz conforming to IEC 60068-2-6                                                                                                                                                                                        |
| Suitability for isolation | Yes conforming to IEC 60947-1                                                                                                                                                                                                                                                                         |
| Phase failure sensitivity | Yes conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                       |
| Height                    | 89 mm                                                                                                                                                                                                                                                                                                 |
| Width                     | 45 mm                                                                                                                                                                                                                                                                                                 |
| Depth                     | 97 mm                                                                                                                                                                                                                                                                                                 |
| Product weight            | 0.35 kg                                                                                                                                                                                                                                                                                               |

## Environment

|                                       |                                                                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | EN 60204<br>IEC 60947-1<br>IEC 60947-2<br>IEC 60947-4-1<br>NF C 63-120<br>NF C 63-650<br>NF C 79-130<br>UL 508<br>VDE 0113<br>VDE 0660<br>CSA C22.2 |
| Product certifications                | ATEX<br>BV<br>CCC<br>CSA<br>DNV<br>EZU<br>GL<br>GOST<br>RINA<br>TSE<br>UL<br>UL 508 type E<br>LROS                                                  |
| 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                                                                                                                                              |

## RoHS compliance

|                                |           |
|--------------------------------|-----------|
| RoHS EUR status                | Compliant |
| RoHS EUR conformity date(YYWW) | 0631      |

## Contractual warranty

|        |           |
|--------|-----------|
| Period | 18 months |
|--------|-----------|