



## Main

|  |  |
|--|--|
| Range  | TeSys  |
| Product name   | TeSys GV6  |
| Device short name                                      | GV6P   |
| Product or component type                              | Motor circuit breaker  |
| Device application                                     | Motor protection   |
| Protection type  | Overload protection<br>Short-circuit protection<br>Instantaneous short-circuit protection<br>Phase unbalance<br>Phase loss   |
| Utilisation category                                   | Category A conforming to IEC 60947-2   |
| Control type   | Direct rotary handle   |
| Suitability for isolation                              | Yes conforming to EN/IEC 60947-2   |
| Poles description                                      | 3P   |
| [Ue] rated operational voltage                         | 690 V AC 50/60 Hz  |
| [In] rated current                                     | 500 A at 65 °C   |
| Breaking capacity code                                 | H 70 kA  |
| Breaking capacity                                      | 70 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA Icu at 660/690 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 500 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 660/690 V AC 50/60 Hz conforming to IEC 60947-2             |
| [Ui] rated insulation voltage                          | 800 V AC 50/60 Hz conforming to IEC 60947-2  |
| [Uimp] rated impulse withstand voltage                 | 8 kV   |
| Overvoltage category                                   | III  |
| Trip unit name   | Micrologic 2.3 M   |
| Trip unit rating                                       | 500 A  |
| Trip unit technology                                   | Electronic   |
| Magnetic tripping current                              | 6500 A   |
| [I <sub>sd</sub> ] short-time pick-up adjustment range | 5...13 x I <sub>r</sub> adjustable 9 settings  |
| Thermal protection adjustment range                    | 250...500 A adjustable 9 settings  |

Disclaimer: 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

|                            |   |
|----------------------------|---|
| Thermal overload class     | Class 5 conforming to IEC 60947-4-1<br>Class 10 conforming to IEC 60947-4-1<br>Class 20 conforming to IEC 60947-4-1 |
| Phase failure sensitivity  | Yes conforming to IEC 60947-4-1   |
| Mechanical durability      | 15000 cycles  |
| Electrical durability      | 4000 cycles for AC-3 at 400/415 V In  |
| Maximum operating rate     | 25 cyc/h  |
| Rated duty                 | Continuous  |
| Power dissipation per pole | 39.7 W  |

## Complementary

|                         |   |
|-------------------------|---|
| Motor power kW          | 200...250 kW at 400/415 V AC 50/60 Hz<br>250...315 kW at 500 V AC 50/60 Hz<br>315...400 kW at 660/690 V AC 50/60 Hz |
| Local signalling        | LED ready<br>LED 95 % lth   |
| Standards               | EN/IEC 60947-1<br>EN/IEC 60947-2<br>EN/IEC 60947-4-1<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1                      |
| Product certifications  | IECEE CB Scheme<br>EAC (pending)  |
| Fixing mode             | By screws   |
| Mounting position       | Horizontal and vertical   |
| Connections - terminals | Power circuit: bars - busbar cross section: 32 x 10 mm<br>Power circuit: lugs - external diameter: 32 mm            |
| Connection pitch        | 45 mm without spreaders   |
| Tightening torque       | 50 N.m, 28 mm length screw : M10  |
| Width                   | 140 mm  |
| Height                  | 255 mm  |
| Depth                   | 179 mm  |
| Net weight              | 6.7 kg  |
| Colour                  | Anthracite (RAL 7016)   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Ambient air temperature for storage   | -55...85 °C  |
| Ambient air temperature for operation | -25...70 °C  |
| Operating altitude                    | 0...2000 m without derating  |
| IP degree of protection               | IP40 conforming to IEC 60529   |
| IK degree of protection               | IK07 conforming to IEC 62262   |
| Pollution degree                      | 3  |
| Protective treatment                  | TC   |
| Fire resistance                       | 960 °C conforming to IEC 60695-2-1   |
| Mechanical robustness                 | Vibrations: +/- 1 mm 2...13.2 Hz conforming to IEC 60068-2-6<br>Vibrations: 0.7 gn 13.2...100 Hz conforming to IEC 60068-2-6 |

## Packing Units

|                  |         |
|------------------|---------|
| Package 1 Weight | 5.98 kg |
| Package 2 Weight | 12.6 kg |

## Offer Sustainability

|                   |  |
|-------------------|--|
| 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 |
|----------|-----------|