





## Main

|                                                        |                                                                                                                                                                                         |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                  | TeSys                                                                                                                                                                                   |
| Product name                                           | TeSys GV5                                                                                                                                                                               |
| Product or component type                              | Motor circuit breaker                                                                                                                                                                   |
| Device short name                                      | GV5P                                                                                                                                                                                    |
| 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                                     | 150 A at 65 °C                                                                                                                                                                          |
| Breaking capacity code                                 | F 36 kA                                                                                                                                                                                 |
| Breaking capacity                                      | 36 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>8 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 2.2 M                                                                                                                                                                        |
| Trip unit rating                                       | 150 A                                                                                                                                                                                   |
| Trip unit technology                                   | Electronic                                                                                                                                                                              |
| Magnetic tripping current                              | 2250 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                    | 70...150 A adjustable 9 settings                                                                                                                                                        |
| 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                                  | 40000 cycles                                                                                                                                                                            |
| Electrical durability                                  | 20000 cycles for AC-3 at 400/415 V I <sub>n</sub>                                                                                                                                       |
| Maximum operating rate                                 | 25 cyc/h                                                                                                                                                                                |
| Rated duty                                             | Continuous                                                                                                                                                                              |
| Power dissipation per pole                             | 9.2 W                                                                                                                                                                                   |

## Complementary

|                         |                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------|
| Motor power kW          | 55...75 KW at 400/415 V AC 50/60 Hz<br>75...90 KW at 500 V AC 50/60 Hz<br>90...110 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: 25 x 6 mm<br>Power circuit: lugs - external diameter: 25 mm        |
| Connection pitch        | 35 mm without spreaders                                                                                        |
| Tightening torque       | 15 N.m screw : M8                                                                                              |
| Width                   | 105 mm                                                                                                         |
| Height                  | 161 mm                                                                                                         |
| Depth                   | 155 mm                                                                                                         |
| Net weight              | 2.4 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 |

## Offer Sustainability

|                            |                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                             |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant  <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>        |
| 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 |
|----------|-----------|