

# GV3P40

## TeSys GV3-Circuit breaker-thermal-magnetic - 30...40A - EverLink BTR connectors



### Main

|  |  |
|--|--|
| Range of product   | TeSys GV3  |
| Device short name  | GV3P   |
| 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  | I <sub>cu</sub> = 12 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>I <sub>cu</sub> = 100 kA at 230/240 V AC 50/60 Hz conforming to IEC 60947-2<br>I <sub>cu</sub> = 6 kA at 690 V AC 50/60 Hz conforming to IEC 60947-2<br>I <sub>cu</sub> = 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>I <sub>cu</sub> = 50 kA at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 |
| [I <sub>cs</sub> ] rated service short-circuit breaking capacity | 50 % at 690 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>100 % at 400/415 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>100 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2   |
| Thermal protection adjustment range                              | 30...40 A  |
| Trip unit technology   | Thermal-magnetic   |
| Magnetic tripping current  | 560 A  |

### Complementary

|  |  |
|--|--|
| Mounting mode  | By clips<br>By screws  |
| Mounting support   | Plate<br>Rail  |
| Mounting position  | Horizontal<br>Vertical   |
| Motor power kW   | 37 kW at 690 V AC 50/60 Hz<br>22 kW at 500 V AC 50/60 Hz<br>18.5 kW at 400/415 V AC 50/60 Hz |
| Control type   | Rotary knob  |
| [U <sub>e</sub> ] rated operational voltage              | 690 V AC 50/60 Hz conforming to IEC 60947-2  |
| [U <sub>i</sub> ] rated insulation voltage               | 690 V AC 50/60 Hz conforming to IEC 60947-2  |
| [I <sub>th</sub> ] conventional free air thermal current | 40 A conforming to IEC 60947-4-1   |
| [U <sub>imp</sub> ] 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 for AC-3 at 440 V I <sub>n</sub>  |
| 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> - cable stiffness : flexible - with cable end<br>EverLink BTR screw connectors 2 cable(s) 1...25 mm <sup>2</sup> - cable stiffness : flexible - without cable end<br>EverLink BTR screw connectors 2 cable(s) 1...25 mm <sup>2</sup> - cable stiffness : solid |
| Tightening torque         | 5...8 N.m - on EverLink BTR screw connectors- cable 35 mm <sup>2</sup><br>5 N.m - on EverLink BTR screw connectors- cable 25 mm <sup>2</sup>   |
| Mechanical robustness     | Vibrations 4 Gn, 5...300 Hz conforming to IEC 60068-2-6<br>Shocks opened 30 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks closed 15 Gn for 11 ms conforming to IEC 60068-2-27  |
| Suitability for isolation | Yes conforming to IEC 60947-1  |
| Phase failure sensitivity | Yes conforming to IEC 60947-4-1  |
| Height                    | 132 mm   |
| Width                     | 55 mm  |
| Depth                     | 136 mm   |
| Product weight            | 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>GOST<br>LROS (pending)<br>RINA<br>UL                      |
| Protective treatment                  | TH   |
| IP degree of protection               | IP20 conforming to IEC 60529   |
| IK degree of protection               | IK09   |
| 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                    | 3000 m   |