

Product data sheet

Characteristics

GV3ME80

TeSys GV3 - Circuit breaker - thermal-magnetic - 56...80 A - screw clamp terminals



Main

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|---|---|
| Range of product | TeSys GV3 |
| Device short name | GV3ME |
| 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 AC-3 conforming to IEC 60947-4-1 |
| Network frequency | 50/60 Hz conforming to IEC 60947-4-1 |
| Breaking capacity | Icu = 2 kA at 690 V AC 50/60 Hz conforming to IEC 60947-2 Icu = 10 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 Icu = 100 kA at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 Icu = 4 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 Icu = 15 kA at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service short-circuit breaking capacity | 60 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Thermal protection adjustment range | 56...80 A |
| Trip unit technology | Thermal-magnetic |
| Magnetic tripping current | 1040 A |

Complementary

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| Mounting mode | By clips By screws |
| Mounting support | Plate Rail |
| Mounting position | Horizontal Vertical |
| Motor power kW | 55 kW at 690 V AC 50/60 Hz 45 kW at 500 V AC 50/60 Hz 37 kW at 400/415 V AC 50/60 Hz |
| Control type | Pushbutton |
| [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 | 80 A conforming to IEC 60947-4-1 |
| [Uiimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947-2 |
| Power dissipation per pole | 8 W |
| Mechanical durability | 30000 cycles |
| Electrical durability | 30000 cycles for AC-3 at 440 V |
| Operating rate | 25 cyc/h |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or operator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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| Rated duty | Continuous conforming to IEC 60947-4-1 |
| Connections - terminals | Screw clamp terminals 1 cable(s) 2.5...16 mm ² - cable stiffness : flexible - with cable end Screw clamp terminals 1 cable(s) 2.5...16 mm ² - cable stiffness : flexible - without cable end Screw clamp terminals 1 cable(s) 2.5...35 mm ² - cable stiffness : solid |
| Tightening torque | 5 N.m - on screw clamp terminals |
| Mechanical robustness | Vibrations 2.5 Gn, 0...25 Hz conforming to IEC 60068-2-6 Shocks 22 Gn for 20 ms conforming to IEC 60068-2-27 |
| Phase failure sensitivity | Yes conforming to IEC 60947-4-1 |
| Height | 120 mm |
| Width | 61.2 mm |
| Depth | 113 mm |
| Product weight | 0.7 kg |

Environment

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| Standards | BS EN DIN EN 60947-2 DIN EN 60947-4-1 EN/IEC NF EN |
| Product certifications | CSA UL LROS |
| Protective treatment | TC |
| 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 | 3000 m |

Contractual warranty

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| Period | 18 months |
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