

Product datasheet

Specifications



Motor circuit breaker, TeSys GV3, 3P, 56-80 A, thermal magnetic, screw clamp terminals

GV3ME80

Discontinued on: 09 September 2022

Discontinued

Main

| | |
|---------------------------|-----------------------|
| Range | TeSys Deca |
| Product name | TeSys GV3 |
| Product or component type | Motor circuit breaker |
| Device short name | GV3ME |
| Device application | Motor protection |
| Trip unit technology | Thermal-magnetic |

Complementary

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|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
| Fixing mode | 35 mm symmetrical DIN rail: clipped Panel: screwed (with 3 x M4 screws) |
| Motor power kW | 37 kW at 400/415 V AC 50/60 Hz 45 kW at 500 V AC 50/60 Hz 55 kW at 690 V AC 50/60 Hz |
| Breaking capacity | 100 kA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 15 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 4 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 2 kA Icu at 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service short-circuit breaking capacity | 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 60 % at 440 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 |
| Control type | Push-button |
| [In] rated current | 80 A |
| Thermal protection adjustment range | 56...80 A conforming to IEC 60947-4-1 |
| Magnetic tripping current | 1040 A |
| [Ith] conventional free air thermal current | 80 A conforming to IEC 60947-4-1 |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz conforming to IEC 60947-2 |

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|----------------------------------------|---------------------------------------------|
| [Ui] rated insulation voltage | 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947-2 |
| Phase failure sensitivity | Yes conforming to IEC 60947-4-1 |
| Power dissipation per pole | 8 W |
| Mechanical durability | 30000 cycles |
| Electrical durability | 30000 cycles for AC-3 at 415 V In |
| Rated duty | Continuous conforming to IEC 60947-4-1 |
| Tightening torque | 5 N.m - on screw clamp terminal |
| Width | 61.2 mm |
| Height | 120 mm |
| Depth | 113 mm |
| Net weight | 0.7 kg |
| Colour | Dark grey |

Environment

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|---------------------------------------|------------------------------------------------------------------------------|
| Standards | EN/IEC 60947-2 EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 |
| Product certifications | CCC EAC LROS (Lloyds register of shipping) BV ABS DNV-GL |
| IP degree of protection | IP20 conforming to IEC 60529 |
| Climatic withstand | conforming to IACS E10 |
| Ambient air temperature for storage | -40...80 °C |
| Fire resistance | 960 °C conforming to IEC 60695-2-11 |
| Ambient air temperature for operation | -20...60 °C |
| Mechanical robustness | Shocks: 22 Gn for 20 ms Vibrations: 2.5 Gn, 0...25 Hz |
| Operating altitude | 3000 m |

Packing Units

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|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 7 cm |
| Package 1 Width | 12.5 cm |
| Package 1 Length | 13.3 cm |
| Package 1 Weight | 721 g |

Offer Sustainability

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|--------------------------|----------------------------------------|
| Sustainable offer status | Green Premium product |
| EU RoHS Directive | Under investigation |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS declaration |


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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Contractual warranty

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| Warranty | 18 months |
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Recommended replacement(s)

GV3ME80 is replaced by:

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|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| 1x |  | Motor circuit breaker, TeSys GV3, 3P, 62-73 A, thermal magnetic, EverLink terminals GV3P73 |
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