# Product data sheet

Specifications

To be discontinued

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

GV3ME80

To be discontinued on: 09 September 2022

## Main

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

## Complementary

| | |
|---|---|
| **Poles description** | 3P |
| **Network type** | AC |
| **Utilisation category** | AC-3 conforming to IEC 60947-4-1<br>Category A conforming to IEC 60947-2 |
| **Network frequency** | 50/60 Hz conforming to IEC 60947-4-1 |
| **Fixing mode** | 35 mm symmetrical DIN rail: clipped<br>Panel: screwed (with 2 x M4 screws) |
| **Operating position** | Any position |
| **Motor power kW** | 37 kW at 400/415 V AC 50/60 Hz<br>55 kW at 690 V AC 50/60 Hz<br>45 kW at 500 V AC 50/60 Hz |
| **Breaking capacity** | 100 kA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2<br>15 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>4 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>10 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>2 kA Icu at 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| **[Ics] rated service short-circuit breaking capacity** | 100 % at 690 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 230/240 V AC 50/60 Hz conforming to IEC 60947-2<br>50 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>60 % at 440 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 |
| **Magnetic tripping current** | 1040 A |

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

| | |
|---|---|
| **[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 |
| **[Uimp] 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 |
| **Maximum operating rate** | 25 cyc/h |
| **Rated duty** | Continuous conforming to IEC 60947-4-1 |
| **Tightening torque** | 5 N.m on screw clamp terminals |
| **Mechanical robustness** | Shocks: 22 Gn for 20 ms conforming to IEC 60068-2-27<br>Vibrations: 2.5 Gn, 0...25 Hz conforming to IEC 60068-2-6 |
| **Phase failure sensitivity** | Yes conforming to IEC 60947-4-1 |
| **Height** | 120 mm |
| **Width** | 61.2 mm |
| **Depth** | 113 mm |
| **Net weight** | 0.7 kg |

## Environment

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|---|---|
| **Standards** | 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** | CCC<br>EAC<br>ABS<br>LROS (Lloyds register of shipping)<br>DNV-GL<br>BV |
| **Climatic withstand** | conforming to IACS E10 |
| **IK degree of protection** | IK04 |
| **IP degree of protection** | IP20 conforming to IEC 60529 |
| **Ambient air temperature for storage** | -40…80 °C |
| **Fire resistance** | 960 °C conforming to IEC 60695-2-11 |
| **Operating altitude** | 3000 m |
| **Ambient air temperature for operation** | -20…60 °C |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Weight** | 721.0 g |
| **Package 1 Height** | 7.0 cm |
| **Package 1 width** | 12.5 cm |
| **Package 1 Length** | 13.3 cm |

## Offer Sustainability

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|---|---|
| **Sustainable offer status** | Green Premium product |
| **EU RoHS Directive** | Under investigation |
| **Mercury free** | Yes |
| **RoHS exemption information** | Yes |
| **China RoHS Regulation** | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information |
| **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 |

### Recommended replacement(s)

GV3ME80 is replaced by:

1x

Motor circuit breaker,TeSys Deca,3P,62-73A,thermal magnetic,EverLink terminals

GV3P73