# Product data sheet
## Characteristics

# GV2ME21
Motor circuit breaker, TeSys Deca, 3P, 17 to 23A, thermal magnetic, screw clamp terminals, button control



## Main

| | |
|---|---|
| Range | TeSys Deca |
| Product name | TeSys GV2 |
| Product or component type | Motor circuit breaker |
| Device short name | GV2ME |
| Device application | Motor protection |
| Trip unit technology | Thermal-magnetic |

## Complementary

| | |
|---|---|
| Poles description | 3P |
| Network type | AC |
| Utilisation category | Category A conforming to IEC 60947-2<br>AC-3 conforming to IEC 60947-4-1<br>AC-3e conforming to IEC 60947-4-1 |
| Network frequency | 50/60 Hz conforming to IEC 60947-2 |
| Motor power kW | 9 KW at 400/415 V AC 50/60 Hz<br>11 KW at 500 V AC 50/60 Hz<br>18.5 KW at 690 V AC 50/60 Hz |
| Breaking capacity | 50 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>6 KA Icu at 440 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>3 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<br>40 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>50 % at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>75 % at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>75 % at 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Control type | Push-button |
| [In] rated current | 23 A |
| Thermal protection adjustment range | 17…23 A conforming to IEC 60947-2 |
| Magnetic tripping current | 341 A |
| [Ith] conventional free air thermal current | 23 A conforming to IEC 60947-2 |
| [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 |
| [Uimp] rated impulse withstand voltage | 6 KV conforming to IEC 60947-2 |
| Phase failure sensitivity | Yes conforming to IEC 60947-4-1 |
| Suitability for isolation | Yes conforming to IEC 60947-1 |
| Power dissipation per pole | 2.5 W |
| Mechanical durability | 100000 Cycles |

| | |
|---|---|
| Electrical durability | 100000 Cycles for AC-3 at 415 V In<br>100000 Cycles for AC-3e at 415 V In |
| Rated duty | Uninterrupted conforming to IEC 60947-4-1 |
| Connections - terminals | Power circuit: screw clamp terminal 2 cable(s) 1…6 mm² - solid<br>Power circuit: screw clamp terminal 2 cable(s) 1.5…6 mm² - flexible without cable end<br>Power circuit: screw clamp terminal 2 cable(s) 1…4 mm² - flexible with cable end |
| Tightening torque | 1.7 N.M - on screw clamp terminal |
| Fixing mode | 35 mm symmetrical DIN rail: clipped<br>Panel: screwed (with adaptor plate) |
| Mounting position | Horizontal<br>Vertical |
| Width | 45 Mm |
| Height | 89 Mm |
| Depth | 78.5 Mm |
| Net weight | 0.26 Kg |
| Colour | Dark grey |

## Environment

| | |
|---|---|
| Standards | EN/IEC 60947-2<br>EN/IEC 60947-4-1<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>IEC/EN 60335-2-40:Annex JJ<br>IEC/EN 60335-1:Clause 30.2 |
| Product certifications | CB Scheme[RETURN]CE[RETURN]UKCA[RETURN]CCC[RETURN]cULus[RETURN]EAC[RETU |
| IK degree of protection | IK04 |
| 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: 30 Gn for 11 ms<br>Vibrations: 5 Gn, 5...150 Hz |
| Operating altitude | <= 2000 m |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.800 Cm |
| Package 1 Width | 8.800 Cm |
| Package 1 Length | 9.500 Cm |
| Package 1 Weight | 287.000 G |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 24 |
| Package 2 Height | 15.000 Cm |
| Package 2 Width | 30.000 Cm |
| Package 2 Length | 40.000 Cm |
| Package 2 Weight | 7.098 Kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 384 |
| Package 3 Height | 75.000 Cm |
| Package 3 Width | 60.000 Cm |
| Package 3 Length | 80.000 Cm |
| Package 3 Weight | 121.568 Kg |

## Offer Sustainability

| | |
|---|---|
| Recyclability potential, in % | 49 |
| Total lifecycle Carbon footprint | 11 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 1.634976413467982 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 2 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.08233418348388603 |
| Carbon footprint of the distribution phase [A4] | 0.1 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.04117841915749615 |
| Carbon footprint of the installation phase [A5] | 0 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 8.86395212531129 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 9 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.4527026902683291 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.5 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 11 |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| SCIP Number | 04104e70-ba29-493c-b2cc-b5837d1f879b |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant By Exemption |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide &amp Antimo |
| POP Directive | No POPs |
| End of life manual availability | End Of Life Information |
| Take-back | No |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection a |

## Contractual warranty

| | |
|---|---|
| Warranty (in months) | 18 |

Product Life Status : Commercialised