

GV4PB115N

Motor circuit breaker, TeSys GV4, 3P, 115A,
Icu 50kA, thermal magnetic, multifunction,
UL489





Main

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| Range | TeSys |
| Product name | TeSys GV4 |
| Product or component type | Multifunction circuit breaker |
| Device short name | GV4PB |
| Device application | Motor protection |
| Protection type | Overload protection Short-circuit protection Short time short-circuit protection Ground fault protection Phase unbalance Phase loss Locked rotor Long start Jam |
| Utilisation category | Category A |
| Suitability for isolation | Yes IEC 60947-1 |
| Poles description | 3P |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz IEC 60947-2 600Y/347 V AC 60 Hz UL 489 |
| Line Rated Current | 115 A |
| Line Rated Current | 80 %, minimum dimensions enclosure: 373 mm x 218 mm x 108 mm (H x W x D) |
| Trip unit technology | Electronic Thermal-magnetic |
| Magnetic tripping current | 1955 A |
| [I _{sd}] short-time pick-up adjustment range | 5...13 x I _r adjustable with EcoStruxure Power |
| Thermal protection adjustment range | 65...115 A adjustable by rotary dial |
| Motor tripping class | UL 489 UL 489 CSA C22.2 No 5 CSA C22.2 No 5 |
| Phase failure sensitivity | Yes IEC 60947-4-1 |
| Breaking capacity | SCCR 65 kA 240 V AC 60 Hz UL 489 SCCR 35 kA 480Y/277 V AC 60 Hz UL 489 SCCR 18 kA 600Y/347 V AC 60 Hz UL 489 I _{cu} 100 kA 220/240 V AC 50/60 Hz IEC 60947-2 I _{cu} 50 kA 380/415 V AC 50/60 Hz IEC 60947-2 I _{cu} 50 kA 440 V AC 50/60 Hz IEC 60947-2 I _{cu} 25 kA 500 V AC 50/60 Hz IEC 60947-2 I _{cu} 15 kA 525 V AC 50/60 Hz IEC 60947-2 I _{cu} 8 kA 660/690 V AC 50/60 Hz IEC 60947-2 |
| [I _{cs}] rated service short-circuit breaking capacity | 100 % 220/240 V AC 50/60 Hz IEC 60947-2 100 % 380/415 V AC 50/60 Hz IEC 60947-2 100 % 440 V AC 50/60 Hz IEC 60947-2 100 % 500 V AC 50/60 Hz IEC 60947-2 100 % 525 V AC 50/60 Hz IEC 60947-2 25 % 660/690 V AC 50/60 Hz IEC 60947-2 |
| [U _{imp}] rated impulse withstand voltage | 8 kV IEC 60947-2 |
| [U _i] rated insulation voltage | 800 V IEC 60947-2 |
| Mechanical durability | 40000 cycles |
| Electrical durability | 10000 Cycles AC-3 440 V I _n /2 5000 cycles AC-3 440 V I _n |

Complementary

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| Control type | Toggle |
| Handle padlocking | With a lock accessory |
| Number of slots | 1 alarm switch fault signalling contact, plug-in 1 voltage release electrical remote tripping, plug-in 1 auxiliary switch open/close contact, plug-in |
| Local signalling | Flashing LED (green) for ready LED (red) for alarm (T° >95%) Green indicator for presence of auxiliary contacts |
| Communication port protocol | NFC |
| Standards | EN/IEC 60947-1 EN/IEC 60947-2 EN/IEC 60947-4-1 UL 489 CSA C22.2 No 5 |
| Product certifications | IEC UL CSA |
| Mounting mode | Clip-on By screws |
| Mounting support | Plate 35 mm symmetrical DIN rail 75 mm symmetrical DIN rail |
| Connections - terminals | Top 1 EverLink BTR screw connectors 0.00...0.11 in ² (1.5...70 mm ²), rigid Top 1 EverLink BTR screw connectors 0.00...0.08 in ² (1.5...50 mm ²), flexible Bottom 1 EverLink BTR screw connectors 0.00...0.15 in ² (2.5...95 mm ²), rigid Bottom 1 EverLink BTR screw connectors 0.00...0.11 in ² (2.5...70 mm ²), flexible |
| Connection pitch | 1.06 in (27 mm) with spreader) |
| Wire stripping length | 0.79 in (20 mm) |
| Tightening torque | 79.66 Lbf.in (9 N.m) 0.02...0.15 in ² (16...95 mm ²) 44.25 Lbf.in (5 N.m) 0.00...0.02 in ² (1.5...10 mm ²) |
| Width | 3.19 in (81 mm) |
| Height | 6.73 in (171 mm) |
| Depth | 4.57 in (116 mm) |
| Net Weight | 3.20 lb(US) (1.45 kg) |
| Color | Grey (RAL 7016) |

Environment

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| Ambient air temperature for storage | -58...185 °F (-50...85 °C) |
| Ambient air temperature for operation | -13...158 °F (-25...70 °C) |
| Operating altitude | 0...2000 m without derating 2000...5000 m with derating |
| IP degree of protection | IP40 front face conforming to IEC 60529 |
| IK degree of protection | IK07 conforming to IEC 62262 |
| Pollution degree | 3 conforming to IEC 60947-1 |
| Tropicalisation | 2 conforming to IEC 68-2 |
| Mechanical robustness | Vibrations: +/- 1 mm 2...13.2 Hz conforming to IEC 60068-2-6 Vibrations: 0.7 gn 13.2...100 Hz conforming to IEC 60068-2-6 Shocks: 15 gn 11 ms conforming to IEC 60068-2-27 |

Ordering and shipping details

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| Category | 22365 - TESYS GV4 MOTOR CIRCUIT BREAKERS |
| Discount Schedule | I11 |
| GTIN | 03606489868628 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 3.2 lb(US) (1.45 kg) |
| Returnability | Yes |
| Country of origin | US |

Packing Units

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|------------------------|--------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 6.69 in (17 cm) |
| Package 1 width | 4.33 in (11 cm) |
| Package 1 Length | 8.88 in (22.55 cm) |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| PVC free | Yes |
| Halogen content performance | Halogen free plastic parts product |

Contractual warranty

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| Warranty | 18 months |
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