

## GV4PB12S

Motor circuit breaker, TeSys GV4, 3P, 12.5A,  
Icu 100kA, thermal magnetic, multifunction,  
UL489





## Main

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                               | TeSys                                                                                                                                                                                                                                                                                                                                                                                               |
| Product name                                        | TeSys GV4                                                                                                                                                                                                                                                                                                                                                                                           |
| Device short name                                   | GV4PB                                                                                                                                                                                                                                                                                                                                                                                               |
| Product or component type                           | Multifunction circuit breaker                                                                                                                                                                                                                                                                                                                                                                       |
| Device application                                  | Motor protection                                                                                                                                                                                                                                                                                                                                                                                    |
| Protection type                                     | Overload protection<br>Short-circuit protection<br>Short time short-circuit protection<br>Ground fault protection<br>Phase unbalance<br>Phase loss<br>Locked rotor<br>Long start<br>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<br>600Y/347 V AC 60 Hz UL 489                                                                                                                                                                                                                                                                                                                                         |
| Line Rated Current                                  | 12.5 A                                                                                                                                                                                                                                                                                                                                                                                              |
| Line Rated Current                                  | 100 %, minimum dimensions enclosure: 373 mm x 218 mm x 108 mm (H x W x D)                                                                                                                                                                                                                                                                                                                           |
| Trip unit technology                                | Electronic<br>Thermal-magnetic                                                                                                                                                                                                                                                                                                                                                                      |
| Magnetic tripping current                           | 213 A                                                                                                                                                                                                                                                                                                                                                                                               |
| [Isd] short-time pick-up adjustment range           | 5...13 x Ir adjustable with EcoStruxure Power                                                                                                                                                                                                                                                                                                                                                       |
| Thermal protection adjustment range                 | 5...12.5 A adjustable by rotary dial                                                                                                                                                                                                                                                                                                                                                                |
| Motor tripping class                                | UL 489<br>UL 489<br>CSA C22.2 No 5<br>CSA C22.2 No 5                                                                                                                                                                                                                                                                                                                                                |
| Phase failure sensitivity                           | Yes IEC 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                   |
| Breaking capacity                                   | SCCR 100 kA 240 V AC 60 Hz UL 489<br>SCCR 65 kA 480Y/277 V AC 60 Hz UL 489<br>SCCR 25 kA 600Y/347 V AC 60 Hz UL 489<br>Icu 120 kA 220/240 V AC 50/60 Hz IEC 60947-2<br>Icu 100 kA 380/415 V AC 50/60 Hz IEC 60947-2<br>Icu 70 kA 440 V AC 50/60 Hz IEC 60947-2<br>Icu 30 kA 500 V AC 50/60 Hz IEC 60947-2<br>Icu 18 kA 525 V AC 50/60 Hz IEC 60947-2<br>Icu 10 kA 660/690 V AC 50/60 Hz IEC 60947-2 |
| [Ics] rated service short-circuit breaking capacity | 100 % 220/240 V AC 50/60 Hz IEC 60947-2<br>100 % 380/415 V AC 50/60 Hz IEC 60947-2<br>100 % 440 V AC 50/60 Hz IEC 60947-2<br>100 % 500 V AC 50/60 Hz IEC 60947-2<br>100 % 525 V AC 50/60 Hz IEC 60947-2<br>25 % 660/690 V AC 50/60 Hz IEC 60947-2                                                                                                                                                   |
| [Uimp] rated impulse withstand voltage              | 8 kV IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                    |
| [Ui] rated insulation voltage                       | 800 V IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                   |
| Mechanical durability                               | 40000 cycles                                                                                                                                                                                                                                                                                                                                                                                        |
| Electrical durability                               | 40000 Cycles AC-3 440 V In/2<br>40000 cycles AC-3 440 V In                                                                                                                                                                                                                                                                                                                                          |

## Complementary

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control type                | Toggle                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Handle padlocking           | With a lock accessory                                                                                                                                                                                                                                                                                                                                                                                                            |
| Number of slots             | 1 alarm switch fault signalling contact, plug-in<br>1 voltage release electrical remote tripping, plug-in<br>1 auxiliary switch open/close contact, plug-in                                                                                                                                                                                                                                                                      |
| Local signalling            | Ready flashing LED green)<br>Alarm (T° >95%) LED red)<br>Presence of auxiliary contacts green indicator                                                                                                                                                                                                                                                                                                                          |
| Communication port protocol | NFC                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Standards                   | EN/IEC 60947-1<br>EN/IEC 60947-2<br>EN/IEC 60947-4-1<br>UL 489<br>CSA C22.2 No 5                                                                                                                                                                                                                                                                                                                                                 |
| Product certifications      | IEC<br>UL<br>CSA                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Mounting mode               | Clip-on<br>By screws                                                                                                                                                                                                                                                                                                                                                                                                             |
| Mounting support            | Plate<br>35 mm symmetrical DIN rail<br>75 mm symmetrical DIN rail                                                                                                                                                                                                                                                                                                                                                                |
| Connections - terminals     | Top 1 EverLink BTR screw connectors 0.00...0.11 in <sup>2</sup> (1.5...70 mm <sup>2</sup> ), rigid<br>Top 1 EverLink BTR screw connectors 0.00...0.08 in <sup>2</sup> (1.5...50 mm <sup>2</sup> ), flexible<br>Bottom 1 EverLink BTR screw connectors 0.00...0.15 in <sup>2</sup> (2.5...95 mm <sup>2</sup> ), rigid<br>Bottom 1 EverLink BTR screw connectors 0.00...0.11 in <sup>2</sup> (2.5...70 mm <sup>2</sup> ), 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 <sup>2</sup> (16...95 mm <sup>2</sup> )<br>44.25 lbf.in (5 N.m) 0.00...0.02 in <sup>2</sup> (1.5...10 mm <sup>2</sup> )                                                                                                                                                                                                                                                                      |
| Maximum Width               | 3.19 in (81 mm)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Maximum Height              | 6.73 in (171 mm)                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Maximum Depth               | 4.57 in (116 mm)                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Net Weight                  | 3.20 lb(US) (1.45 kg)                                                                                                                                                                                                                                                                                                                                                                                                            |
| Color                       | Gray RAL 7016)                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Environment

|                                       |                                                                                                                                     |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 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...6561.68 ft (0...2000 m) without derating<br>2000...5000 m with derating                                                         |
| IP degree of protection               | IP40 front face IEC 60529                                                                                                           |
| IK degree of protection               | IK07 IEC 62262                                                                                                                      |
| Pollution degree                      | 3 IEC 60947-1                                                                                                                       |
| Tropicalisation                       | 2 IEC 68-2                                                                                                                          |
| Mechanical robustness                 | Vibrations +/- 1 mm 2...13.2 Hz IEC 60068-2-6<br>Vibrations 0.7 gn 13.2...100 Hz IEC 60068-2-6<br>Shocks 15 gn 11 ms IEC 60068-2-27 |

## Ordering and shipping details

|                       |                                          |
|-----------------------|------------------------------------------|
| Category              | 22365 - TESYS GV4 MOTOR CIRCUIT BREAKERS |
| Discount Schedule     | I11                                      |
| GTIN                  | 03606489868666                           |
| Nbr. of units in pkg. | 1                                        |
| Package weight(Lbs)   | 3.2 lb(US) (1.45 kg)                     |
| Returnability         | Yes                                      |
| Country of origin     | US                                       |

## Packing Units

|                        |                    |
|------------------------|--------------------|
| Unit Type of Package 1 | PCE                |
| Package 1 Height       | 6.50 in (16.5 cm)  |
| Package 1 width        | 4.33 in (11 cm)    |
| Package 1 Length       | 8.88 in (22.55 cm) |

## Offer Sustainability

|                             |                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status    | Green Premium product                                                                                                        |
| EU RoHS Directive           | Compliant <a href="#">EU RoHS Declaration</a>                                                                                |
| Mercury free                | Yes                                                                                                                          |
| RoHS exemption information  | <a href="#">Yes</a>                                                                                                          |
| China RoHS Regulation       | <a href="#">China RoHS Declaration</a>                                                                                       |
| Environmental Disclosure    | <a href="#">Product Environmental Profile</a>                                                                                |
| Circularity Profile         | <a href="#">End Of Life Information</a>                                                                                      |
| 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

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|