

# GV4PB50N

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



## Main

|                           |                                |
|---------------------------|--------------------------------|
| Range                     | TeSys Deca<br>TeSys Deca       |
| Range of Product          | TeSys GV4                      |
| Device short name         | GV4PB                          |
| Product name              | TeSys GV4<br>TeSys Deca        |
| Product or Component Type | Motor circuit breaker          |
| Device Application        | Motor protection               |
| Trip unit technology      | Electronic<br>Thermal-magnetic |

## Complementary

|   |  |
|---|--|
| Poles description                                   | 3P   |
| Utilisation category                                | Category A IEC 60947-2<br>AC-3 IEC 60947-4-1   |
| Operating position                                  | Any position   |
| Breaking capacity                                   | 65 KA SCCR 240 V AC 60 Hz UL 489<br>35 KA SCCR 480Y/277 V AC 60 Hz UL 489<br>18 KA SCCR 600Y/347 V AC 60 Hz UL 489<br>100 KA Icu 220/240 V AC 50/60 Hz IEC 60947-2<br>50 KA Icu 380/415 V AC 50/60 Hz IEC 60947-2<br>50 KA Icu 440 V AC 50/60 Hz IEC 60947-2<br>25 KA Icu 500 V AC 50/60 Hz IEC 60947-2<br>15 KA Icu 525 V AC 50/60 Hz IEC 60947-2<br>8 KA Icu 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  |
| Control Type  | Toggle   |
| Line Rated Current                                  | 50 A   |
| Magnetic tripping current                           | 850 A  |
| [Ue] rated operational voltage                      | 690 V AC 50/60 Hz IEC 60947-2<br>600Y/347 V AC 60 Hz UL 489  |
| [Ui] rated insulation voltage                       | 800 V AC 50/60 Hz IEC 60947-2  |
| [Ith] conventional free air thermal current         | 115 A IEC 60947-4-1  |
| [Uimp] rated impulse withstand voltage              | 8 kV IEC 60947-2   |
| Power dissipation per pole                          | 4.6 W  |
| Mechanical durability                               | 40000 cycles   |
| Electrical durability                               | 20000 Cycles AC-3 440 V In/2<br>10000 cycles AC-3 440 V In   |
| Maximum operating rate                              | 25 cyc/h   |
| Rated duty  | Continuous IEC 60947-4-1   |
| Connections - terminals                             | EverLink BTR screw connectors top) 1 0.00...0.11 in <sup>2</sup> (1.5...70 mm <sup>2</sup> ) - rigid<br>EverLink BTR screw connectors top) 1 0.00...0.08 in <sup>2</sup> (1.5...50 mm <sup>2</sup> ) - flexible<br>EverLink BTR screw connectors bottom) 1 0.00...0.15 in <sup>2</sup> (2.5...95 mm <sup>2</sup> ) - rigid<br>EverLink BTR screw connectors bottom) 1 0.00...0.11 in <sup>2</sup> (2.5...70 mm <sup>2</sup> ) - flexible |
| 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> )  |

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|                           |   |
|---------------------------|---|
| 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 |
| Phase failure sensitivity | Yes IEC 60947-4-1   |
| Height                    | 6.73 in (171 mm)  |
| Width                     | 3.19 in (81 mm)   |
| Depth                     | 4.57 in (116 mm)  |
| Net Weight                | 3.20 lb(US) (1.45 kg)   |
| Color                     | Gray RAL 7016)  |
| Suitability for isolation | Yes IEC 60947-1   |

## Environment

|                                       |  |
|---------------------------------------|--|
| 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   |
| Climatic withstand                    | IACS E10   |
| IK degree of protection               | IK07 IEC 62262   |
| Pollution degree                      | 3  |
| IP degree of protection               | IP40 IEC 60529   |
| Ambient Air Temperature for Storage   | -58...185 °F (-50...85 °C)   |
| Fire resistance                       | 1760 °F (960 °C) IEC 60695-2-11  |
| Operating altitude                    | 5000 m   |
| Ambient air temperature for operation | -13...158 °F (-25...70 °C)   |




## Ordering and shipping details

|                       |  |
|-----------------------|--|
| Category              | 22365-TESYS GV4 MOTOR CIRCUIT BREAKERS |
| Discount Schedule     | I11                                    |
| GTIN                  | 3606489868604                          |
| Nbr. of units in pkg. | 1                                      |
| Package weight(Lbs)   | 3.76 lb(US) (1.704 kg)                 |
| Returnability         | Yes                                    |
| Country of origin     | US                                     |

## Packing Units

|                              |                       |
|------------------------------|-----------------------|
| Unit Type of Package 1       | PCE                   |
| Package 1 Height             | 6.69 in (17.0 cm)     |
| Package 1 width              | 4.33 in (11.0 cm)     |
| Package 1 Length             | 8.88 in (22.55 cm)    |
| Unit Type of Package 2       | S03                   |
| Number of Units in Package 2 | 5                     |
| Package 2 Weight             | 20.94 lb(US) (9.5 kg) |
| Package 2 Height             | 11.81 in (30.0 cm)    |
| Package 2 width              | 11.81 in (30.0 cm)    |
| Package 2 Length             | 15.75 in (40.0 cm)    |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant  <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes   |
| RoHS exemption information |  Yes   |

|                             |  |
|-----------------------------|--|
| 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   |
| <b>Contractual warranty</b> |  |
| Warranty                    | 18 months  |