

# Product data sheet

Specifications



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

GV4PB115N

### Main

|                           |                                |
|---------------------------|--------------------------------|
| Range of product          | TeSys GV4                      |
| Range                     | TeSys Deca                     |
| Device short name         | GV4PB                          |
| Product name              | TeSys GV4                      |
| 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 conforming to IEC 60947-2<br>AC-3 conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Operating position                                  | Any position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Breaking capacity                                   | 65 kA SCCR at 240 V AC 60 Hz conforming to UL 489<br>35 kA SCCR at 480Y/277 V AC 60 Hz conforming to UL 489<br>18 kA SCCR at 600Y/347 V AC 60 Hz conforming to UL 489<br>100 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>15 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service short-circuit breaking capacity | 100 % at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 440 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 525 V AC 50/60 Hz conforming to IEC 60947-2<br>25 % at 660/690 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                   |
| Control type                                        | Toggle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| [In] rated current                                  | 115 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Magnetic tripping current                           | 1955 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| [Ue] rated operational voltage                      | 690 V AC 50/60 Hz conforming to IEC 60947-2<br>600Y/347 V AC 60 Hz conforming to UL 489                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Ui] rated insulation voltage                       | 800 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [Ith] conventional free air thermal current         | 115 A conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [Uimp] rated impulse withstand voltage              | 8 kV conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Power dissipation per pole                          | 4.6 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Mechanical durability                               | 40000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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

|                           |                                                                                                                                                                                                                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical durability     | 10000 cycles for AC-3 at 440 V In/2<br>5000 cycles for AC-3 at 440 V In                                                                                                                                                                                                                              |
| maximum operating rate    | 25 cyc/h                                                                                                                                                                                                                                                                                             |
| Rated duty                | Continuous conforming to IEC 60947-4-1                                                                                                                                                                                                                                                               |
| Connections - terminals   | EverLink BTR screw connectors (top) 1 cable(s) 1.5...70 mm² - rigid<br>EverLink BTR screw connectors (top) 1 cable(s) 1.5...50 mm² - flexible<br>EverLink BTR screw connectors (bottom) 1 cable(s) 2.5...95 mm² - rigid<br>EverLink BTR screw connectors (bottom) 1 cable(s) 2.5...70 mm² - flexible |
| Tightening torque         | 9 N.m for cable 16...95 mm²<br>5 N.m for cable 1.5...10 mm²                                                                                                                                                                                                                                          |
| Mechanical robustness     | Vibrations: +/- 1 mm 2...13.2 Hz conforming to IEC 60068-2-6<br>Vibrations: 0.7 gn 13.2...100 Hz conforming to IEC 60068-2-6<br>Shocks: 15 gn 11 ms conforming to IEC 60068-2-27                                                                                                                     |
| Phase failure sensitivity | Yes conforming to IEC 60947-4-1                                                                                                                                                                                                                                                                      |
| Height                    | 171 mm                                                                                                                                                                                                                                                                                               |
| Width                     | 81 mm                                                                                                                                                                                                                                                                                                |
| Depth                     | 116 mm                                                                                                                                                                                                                                                                                               |
| Net weight                | 1.45 kg                                                                                                                                                                                                                                                                                              |
| Colour                    | Grey (RAL 7016)                                                                                                                                                                                                                                                                                      |
| Suitability for isolation | Yes conforming to 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                    | conforming to IACS E10                                                           |
| IK degree of protection               | IK07 conforming to IEC 62262                                                     |
| Pollution degree                      | 3                                                                                |
| IP degree of protection               | IP40 conforming to IEC 60529                                                     |
| Ambient air temperature for storage   | -50...85 °C                                                                      |
| Fire resistance                       | 960 °C conforming to IEC 60695-2-11                                              |
| Operating altitude                    | 5000 m                                                                           |
| Ambient air temperature for operation | -25...70 °C                                                                      |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 17.000 cm |
| Package 1 Width              | 22.600 cm |
| Package 1 Length             | 11.000 cm |
| Package 1 Weight             | 1.668 kg  |

## Contractual warranty

Warranty

18 months

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

| Environmental footprint          |                                               |
|----------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint | 90                                            |
| Environmental Disclosure         | <a href="#">Product Environmental Profile</a> |

Use Better

| Materials and Substances               |                                      |
|----------------------------------------|--------------------------------------|
| Packaging made with recycled cardboard | Yes                                  |
| Packaging without single use plastic   | Yes                                  |
| <a href="#">EU RoHS Directive</a>      | Compliant with Exemptions            |
| SCIP Number                            | 1b259a2c-3a3c-401a-acdd-f0837efd4018 |
| REACH Regulation                       | <a href="#">REACH Declaration</a>    |
| Halogen-free status                    | Halogen free plastic parts product   |
| PVC free                               | Yes                                  |

Use Again

| Repack and remanufacture        |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| End of life manual availability | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| Take-back                       | No                                                                                                                                                                                                              |
| WEEE Label                      |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Offer Marketing Illustration

Product benefits / Features

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Offer Marketing Illustration

Product benefits / Features

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A black TeSys Deca Motor Circuit Breaker with green terminal covers and a green handle. It features a digital display and various control buttons on its front panel.

### TeSys Deca Motor Circuit Breakers

#### Technical Benefits

- Combines a circuit breaker and overload relay in a single device.
- Gives great detection accuracy, as well as alarming and advanced protections for refs.
- Magnetic, electronic thermal-magnetic, or electronic thermal magnetic versions with advanced protection.
- Patented EverLink creep-compensating technology.
- Spring-based system ensures a long lasting connection.
- Electronic core for high-accuracy, wide settings, dual motor class 10/20.

Offer Marketing Illustration

Product benefits / Features

### TeSys Deca

Motor Circuit Breakers





**Increase safety**

Featuring EverLink technology, double rotary contact system, and Reflex tripping mechanism to ensure your operations run smoothly and securely.



**Improve efficiency**

With a compact design, hassle-free installation with one-click spring terminal accessories, while easy monitoring with visible auxiliaries.



**Save time**

Simple to specify, install and use for all applications and easy access to facilitate maintenance on site.

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Technical Illustration

Assembly's dimensions

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