



## 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 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 conforming to IEC 60947-1
Poles description	3P
[Ue] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2 600Y/347 V AC 60 Hz conforming to UL 489
[In] rated current	80 A
Continuous current rating	80 %, minimum dimensions enclosure: 373 mm x 218 mm x 108 mm (H x W x D)
Trip unit technology	Thermal-magnetic Electronic
Magnetic tripping current	1360 A
[I <sub>sd</sub> ] short-time pick-up adjustment range	5...13 x I <sub>r</sub> adjustable with EcoStruxure Power
Thermal protection adjustment range	40...80 A adjustable by rotary dial
Motor tripping class	10, rated tripping current: 125 % conforming to UL 489 supplement SH 20, rated tripping current: 125 % conforming to UL 489 supplement SH 10, rated tripping current: 125 % conforming to CSA C22.2 No 5 supplement SH 20, rated tripping current: 125 % conforming to CSA C22.2 No 5 supplement SH
Phase failure sensitivity	Yes conforming to IEC 60947-4-1

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

Breaking capacity	SCCR 65 kA at 240 V AC 60 Hz conforming to UL 489 SCCR 35 kA at 480Y/277 V AC 60 Hz conforming to UL 489 SCCR 18 kA at 600Y/347 V AC 60 Hz conforming to UL 489 Icu 100 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 Icu 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 Icu 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 Icu 25 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 Icu 15 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 Icu 8 kA 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 60947-2 100 % at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 525 V AC 50/60 Hz conforming to IEC 60947-2 25 % at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV IEC 60947-2
[Ui] rated insulation voltage	800 V conforming to IEC 60947-2
Mechanical durability	40000 cycles
Electrical durability	14000 cycles for AC-3 at 440 V In/2 7000 cycles for AC-3 at 440 V In

## Complementary

Control type	Toggle
Handle padlocking	With a lock accessory
Number of slots	1 slot(s) for alarm switch for fault signalling contact, plug-in 1 slot(s) for voltage release for electrical remote tripping, plug-in 1 slot(s) for auxiliary switch for open/close contact, plug-in
Local signalling	Flashing LED (green)ready: LED (red)alarm (T° >95%): Green indicatorpresence 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 wire size 1.5...70 mm <sup>2</sup> , rigid Top 1 EverLink BTR screw connectors wire size 1.5...50 mm <sup>2</sup> , flexible Bottom 1 EverLink BTR screw connectors wire size 2.5...95 mm <sup>2</sup> , rigid Bottom 1 EverLink BTR screw connectors wire size 2.5...70 mm <sup>2</sup> , flexible
Connection pitch	27 mm (with spreader)
Wire stripping length	20 mm
Tightening torque	9 N.m for 16...95 mm <sup>2</sup> 5 N.m for 1.5...10 mm <sup>2</sup>
Width	81 mm
Height	171 mm
Depth	116 mm
Net weight	1.45 kg
Colour	Grey (RAL 7016)

## Environment

Ambient air temperature for storage	-50...85 °C
Ambient air temperature for operation	-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

### 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	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
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

### Contractual warranty

Warranty	18 months
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