



Main

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 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	50 A
Continuous current rating	100 %, 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	850 A
[Isd] short-time pick-up adjustment range	5...13 x I _r adjustable with EcoStruxure Power
Thermal protection adjustment range	20...50 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
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

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[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 conforming to IEC 60947-2
[Ui] rated insulation voltage	800 V conforming to IEC 60947-2
Mechanical durability	40000 Cycles
Electrical durability	20000 Cycles for AC-3 at 440 V In/2 10000 Cycles for AC-3 at 440 V In

Complementary

Control type	Toggle
Rotary 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) 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 wire size 1.5...70 mm ² , rigid Top 1 EverLink BTR screw connectors wire size 1.5...50 mm ² , flexible Bottom 1 EverLink BTR screw connectors wire size 2.5...95 mm ² , rigid Bottom 1 EverLink BTR screw connectors wire size 2.5...70 mm ² , flexible
Connection pitch	27 Mm (with spreader)
Wire stripping length	20 Mm
Tightening torque	9 N.M for 16...95 mm ² 5 N.M for 1.5...10 mm ²
Width	81 Mm
Height	171 Mm
Depth	116 Mm
Product 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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.704 Kg
Package 1 Height	17 Cm
Package 1 width	11 Cm
Package 1 Length	22.55 Cm
Unit Type of Package 2	S03
Number of Units in Package 2	5
Package 2 Weight	9.5 Kg
Package 2 Height	30 Cm
Package 2 width	30 Cm
Package 2 Length	40 Cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
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

Warranty	18 months
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Product Life Status : **Commercialised**

Mouser Electronics

Authorized Distributor

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[GV4PB50N](#)