

# GV4PB50N

Motor circuit breaker, TeSys GV4, 3P, 50A, Icu  
50kA, 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 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 IEC 60947-1
Poles description	3P
[Ue] rated operational voltage	690 V AC 50/60 Hz IEC 60947-2 600Y/347 V AC 60 Hz UL 489
Line Rated Current	50 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 Thermal-magnetic
Magnetic tripping current	850 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	20...50 A adjustable by rotary dial
Motor tripping class	UL 489 UL 489 CSA C22.2 No 5 CSA C22.2 No 5
Phase failure sensitivity	Yes IEC 60947-4-1
Breaking capacity	SCCR 65 kA 240 V AC 60 Hz UL 489 SCCR 35 kA 480Y/277 V AC 60 Hz UL 489 SCCR 18 kA 600Y/347 V AC 60 Hz UL 489 I <sub>cu</sub> 100 kA 220/240 V AC 50/60 Hz IEC 60947-2 I <sub>cu</sub> 50 kA 380/415 V AC 50/60 Hz IEC 60947-2 I <sub>cu</sub> 50 kA 440 V AC 50/60 Hz IEC 60947-2 I <sub>cu</sub> 25 kA 500 V AC 50/60 Hz IEC 60947-2 I <sub>cu</sub> 15 kA 525 V AC 50/60 Hz IEC 60947-2 I <sub>cu</sub> 8 kA 660/690 V AC 50/60 Hz IEC 60947-2
[I <sub>cs</sub> ] rated service short-circuit breaking capacity	100 % 220/240 V AC 50/60 Hz IEC 60947-2 100 % 380/415 V AC 50/60 Hz IEC 60947-2 100 % 440 V AC 50/60 Hz IEC 60947-2 100 % 500 V AC 50/60 Hz IEC 60947-2 100 % 525 V AC 50/60 Hz IEC 60947-2 25 % 660/690 V AC 50/60 Hz IEC 60947-2
[U <sub>imp</sub> ] rated impulse withstand voltage	8 kV IEC 60947-2
[U <sub>i</sub> ] rated insulation voltage	800 V IEC 60947-2
Mechanical durability	40000 cycles
Electrical durability	20000 Cycles AC-3 440 V In/2 10000 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 1 voltage release electrical remote tripping, plug-in 1 auxiliary switch open/close contact, plug-in
Local signalling	Ready flashing LED green) Alarm (T° >95%) LED red) Presence of auxiliary contacts green indicator
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 0.00...0.11 in <sup>2</sup> (1.5...70 mm <sup>2</sup> ), rigid Top 1 EverLink BTR screw connectors 0.00...0.08 in <sup>2</sup> (1.5...50 mm <sup>2</sup> ), flexible Bottom 1 EverLink BTR screw connectors 0.00...0.15 in <sup>2</sup> (2.5...95 mm <sup>2</sup> ), rigid 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> ) 44.25 lbf.in (5 N.m) 0.00...0.02 in <sup>2</sup> (1.5...10 mm <sup>2</sup> )
Width	3.19 in (81 mm)
Height	6.73 in (171 mm)
Depth	4.57 in (116 mm)
Net weight	3.20 lb(US) (1.45 kg)
Color	Grey 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 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 Vibrations 0.7 gn 13.2...100 Hz IEC 60068-2-6 Shocks 15 gn 11 ms IEC 60068-2-27

## Ordering and shipping details

Category	22365 - TESYS GV4 MOTOR CIRCUIT BREAKERS
Discount Schedule	I11
GTIN	03606489868604
Package weight(Lbs)	1.45 kg (3.2 lb(US))
Returnability	Yes
Country of origin	US

## 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>
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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