Product data sheet
Characteristics

GV4PB25S
Motor circuit breaker, TeSys GV4, 3P, 25A, Icu 100kA, thermal magnetic, multifunction, UL489

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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 UL 489
Line Rated Current	25 A
Line Rated Current	100 %, 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	425 A
[Isd] short-time pick-up adjustment range	5...13 x Ir adjustable with EcoStruxure Power
Thermal protection adjustment range	10…25 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 100 kA 240 V AC 60 Hz UL 489 SCCR 65 kA 480Y/277 V AC 60 Hz UL 489 SCCR 25 kA 600Y/347 V AC 60 Hz UL 489 Icu 120 kA 220/240 V AC 50/60 Hz IEC 60947-2 Icu 100 kA 380/415 V AC 50/60 Hz IEC 60947-2 Icu 70 kA 440 V AC 50/60 Hz IEC 60947-2 Icu 30 kA 500 V AC 50/60 Hz IEC 60947-2 Icu 18 kA 525 V AC 50/60 Hz IEC 60947-2 Icu 10 kA 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 60947-2 100 % 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
[Uimp] rated impulse withstand voltage	8 kV IEC 60947-2
[Ui] rated insulation voltage	800 V IEC 60947-2
Mechanical durability	40000 cycles
Electrical durability	40000 Cycles AC-3 440 V In/2 20000 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	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 0.00…0.11 in² (1.5…70 mm²), rigid Top 1 EverLink BTR screw connectors 0.00…0.08 in² (1.5…50 mm²), flexible Bottom 1 EverLink BTR screw connectors 0.00…0.15 in² (2.5…95 mm²), rigid Bottom 1 EverLink BTR screw connectors 0.00…0.11 in² (2.5…70 mm²), 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 in² (16…95 mm²) 44.25 lbf.in (5 N.m) 0.00…0.02 in² (1.5…10 mm²)
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...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

Ordering and shipping details

Category	22365 - TESYS GV4 MOTOR CIRCUIT BREAKERS
Discount Schedule	I11
GTIN	03606489868673
Nbr. of units in pkg.	1
Package weight(Lbs)	3.2 lb(US) (1.45 kg)
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	6.50 in (16.5 cm)
Package 1 width	4.33 in (11 cm)
Package 1 Length	8.88 in (22.55 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
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