

GV4PB80N

Motor circuit breaker, TeSys Deca, 3P, 80A,
Icu 50kA, thermal magnetic, multifunction,
UL489



Main

Range of Product	TeSys GV4
Range	TeSys Deca TeSys Deca
Device short name	GV4PB
Product name	TeSys GV4 TeSys Deca
Product or Component Type	Motor circuit breaker
Device Application	Motor protection
Trip unit technology	Thermal-magnetic Electronic

Complementary

Poles description	3P
Utilisation category	Category A IEC 60947-2 AC-3 IEC 60947-4-1
Operating position	Any position
Breaking capacity	65 KA SCCR 240 V AC 60 Hz UL 489 35 KA SCCR 480Y/277 V AC 60 Hz UL 489 18 KA SCCR 600Y/347 V AC 60 Hz UL 489 100 KA Icu 220/240 V AC 50/60 Hz IEC 60947-2 50 KA Icu 380/415 V AC 50/60 Hz IEC 60947-2 50 KA Icu 440 V AC 50/60 Hz IEC 60947-2 25 KA Icu 500 V AC 50/60 Hz IEC 60947-2 15 KA Icu 525 V AC 50/60 Hz IEC 60947-2 8 kA Icu 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
Control Type	Toggle
Line Rated Current	80 A
Magnetic tripping current	1360 A
[Ue] rated operational voltage	690 V AC 50/60 Hz IEC 60947-2 600Y/347 V AC 60 Hz UL 489
[Ui] rated insulation voltage	800 V AC 50/60 Hz IEC 60947-2
[Ith] conventional free air thermal current	115 A IEC 60947-4-1
[Uimp] rated impulse withstand voltage	8 kV IEC 60947-2
Power dissipation per pole	4.6 W
Mechanical durability	40000 cycles
Electrical durability	14000 Cycles AC-3 440 V In/2 7000 cycles AC-3 440 V In
Maximum operating rate	25 cyc/h
Rated duty	Continuous IEC 60947-4-1
Connections - terminals	EverLink BTR screw connectors top) 1 0.00...0.11 in ² (1.5...70 mm ²) - rigid EverLink BTR screw connectors top) 1 0.00...0.08 in ² (1.5...50 mm ²) - flexible EverLink BTR screw connectors bottom) 1 0.00...0.15 in ² (2.5...95 mm ²) - rigid EverLink BTR screw connectors bottom) 1 0.00...0.11 in ² (2.5...70 mm ²) - flexible

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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)
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
Phase failure sensitivity	Yes IEC 60947-4-1
Height	6.73 in (171 mm)
Width	3.19 in (81 mm)
Depth	4.57 in (116 mm)
Net Weight	3.20 lb(US) (1.45 kg)
Color	Gray RAL 7016)
Suitability for isolation	Yes IEC 60947-1

Environment

Standards	EN/IEC 60947-1 EN/IEC 60947-2 EN/IEC 60947-4-1 UL 489 CSA C22.2 No 5
Product Certifications	IEC[RETURN]UL[RETURN]CSA
Climatic withstand	IACS E10
IK degree of protection	IK07 IEC 62262
Pollution degree	3
IP degree of protection	IP40 IEC 60529
Ambient Air Temperature for Storage	-58...185 °F (-50...85 °C)
Fire resistance	1760 °F (960 °C) IEC 60695-2-11
Operating altitude	5000 m
Ambient air temperature for operation	-13...158 °F (-25...70 °C)

Ordering and shipping details

Category	US10I1122365
Discount Schedule	0I11
GTIN	3606489868611
Returnability	Yes
Country of origin	PL

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.69 in (17.0 cm)
Package 1 Width	4.33 in (11.0 cm)
Package 1 Length	8.88 in (22.55 cm)
Package 1 Weight	3.78 lb(US) (1.714 kg)
Unit Type of Package 2	S03
Number of Units in Package 2	5
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	20.94 lb(US) (9.5 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration

RoHS exemption information	 Yes
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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