

# GV4PB80B

Motor circuit breaker, TeSys Deca, 3P, 80A,  
Icu 25kA, thermal magnetic, multifunction,  
UL489



## Main

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

## Complementary

Poles description	3P
Utilisation category	Category A IEC 60947-2 AC-3 IEC 60947-4-1
Operating position	Any position
Breaking capacity	35 KA SCCR 240 V AC 60 Hz UL 489 18 KA SCCR 480Y/277 V AC 60 Hz UL 489 14 KA SCCR 600Y/347 V AC 60 Hz UL 489 50 KA Icu 220/240 V AC 50/60 Hz IEC 60947-2 25 KA Icu 380/415 V AC 50/60 Hz IEC 60947-2 20 KA Icu 440 V AC 50/60 Hz IEC 60947-2 10 kA Icu 500 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
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 <sup>2</sup> (1.5...70 mm <sup>2</sup> ) - rigid EverLink BTR screw connectors top) 1 0.00...0.08 in <sup>2</sup> (1.5...50 mm <sup>2</sup> ) - flexible EverLink BTR screw connectors bottom) 1 0.00...0.15 in <sup>2</sup> (2.5...95 mm <sup>2</sup> ) - rigid EverLink BTR screw connectors bottom) 1 0.00...0.11 in <sup>2</sup> (2.5...70 mm <sup>2</sup> ) - flexible
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> )
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

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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 UL 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	22365-TESYS GV4 MOTOR CIRCUIT BREAKERS
Discount Schedule	I11
GTIN	3606489868734
Nbr. of units in pkg.	1
Package weight(Lbs)	3.29 lb(US) (1.494 kg)
Returnability	Yes
Country of origin	US

## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	4.92 in (12.5 cm)
Package 1 width	3.54 in (9.0 cm)
Package 1 Length	8.88 in (22.55 cm)
Unit Type of Package 2	S03
Number of Units in Package 2	5
Package 2 Weight	20.94 lb(US) (9.5 kg)
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)

## 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.
PVC free	Yes
Halogen content performance	Halogen free plastic parts product

### Contractual warranty

Warranty	18 months
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