Product data sheet

Specifications

Motor circuit breaker, TeSys Deca, 3P, 80A, Icu 100kA, thermal magnetic, multifunction, UL489

GV4PB80S

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	TeSys GV4
Range	TeSys Deca
Device short name	GV4PB
product name	TeSys GV4
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	100 kA SCCR 240 V AC 60 Hz UL 489 65 kA SCCR 480Y/277 V AC 60 Hz UL 489 25 kA SCCR 600Y/347 V AC 60 Hz UL 489 120 kA Icu 220/240 V AC 50/60 Hz IEC 60947-2 100 kA Icu 380/415 V AC 50/60 Hz IEC 60947-2 70 kA Icu 440 V AC 50/60 Hz IEC 60947-2 30 kA Icu 500 V AC 50/60 Hz IEC 60947-2 18 kA Icu 525 V AC 50/60 Hz IEC 60947-2 10 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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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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 0.002…0.1 in² (1.5…70 mm²) - rigid
	EverLink BTR screw connectors top) 1 0.002…0.08 in² (1.5…50 mm²) - flexible
	EverLink BTR screw connectors bottom) 1 0.004…0.1 in² (2.5…95 mm²) - rigid
	EverLink BTR screw connectors bottom) 1 0.004…0.1 in² (2.5…70 mm²) - flexible
Tightening torque	79.7 lbf.in (9 N.m) 0.02…0.1 in² (16…95 mm²)
	44.3 lbf.in (5 N.m) 0.002…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	6.7 in (171 mm)
Width	3.2 in (81 mm)
Depth	4.6 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	US10I1122365
Discount Schedule	0I11
GTIN	3606489868697
Returnability	Yes
Country of origin	PL

Packing Units

Unit Type of Package 1	PCE

Number of Units in Package 1	1
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)
Package 1 Weight	3.821 lb(US) (1.733 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	20.9 lb(US) (9.5 kg)

Contractual warranty

Warranty	18 months

🌀 Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained ⟩

How we assess product sustainability ⟩

🍃 Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)	**91**
Environmental Disclosure	**Product Environmental Profile**

Use Better

⬳ Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
EU RoHS Directive	**Compliant with Exemptions**
SCIP Number	**1b259a2c-3a3c-401a-acdd-f0837efd4018**
REACh Regulation	**REACh Declaration**
Halogen content performance	**Halogen free plastic parts product**
PVC free	**Yes**

Use Again

↻ Repack and remanufacture

Circularity Profile	**End of Life Information**
Take-back	**No**
WEEE	🗑 **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**

Offer Marketing Illustration

Product benefits / Features

Offer Marketing Illustration

Product benefits / Features

TeSys Deca Motor Circuit Breakers
Technical Benefits

Combines a circuit breaker and overload relay in a single device.

Gives great detection accuracy, as well as alarming and advanced protections for refs.

Magnetic, electronic thermal-magnetic, or electronic thermal magnetic versions with advanced protection.

Patented EverLink creep-compensating technology.

Spring-based system ensures a long lasting connection.

Electronic core for high-accuracy, wide settings, dual motor class 10/20.

Offer Marketing Illustration

Product benefits / Features

TeSys Deca
Motor Circuit Breakers

Increase safety
Featuring EverLink technology, double rotary contact system, and Reflex tripping mechanism to ensure your operations run smoothly and securely.

Improve efficiency
With a compact design, hassle-free installation with one-click spring terminal accessories, while easy monitoring with visible auxiliaries.

Save time
Simple to specify, install and use for all applications and easy access to facilitate maintenance on site.

Technical Illustration

Assembly's dimensions