

Product data sheet

Specifications



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

GV4PB50N

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	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	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	50 A
Magnetic tripping current	850 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.

Disclaimer: 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

Electrical durability	20000 cycles AC-3 440 V In/2 10000 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)
Product 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	3606489868604
Returnability	Yes
Country of origin	PL

Packing Units

Unit Type of Package 1	PCE
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Nbr. of units in pkg.	1
Package 1 Height	6.69 in (17.000 cm)
Package 1 Width	4.33 in (11.000 cm)
Package 1 Length	8.88 in (22.550 cm)
Package weight(Lbs)	3.757 lb(US) (1.704 kg)
Unit Type of Package 2	S03
Number of Units in Package 2	5
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	20.944 lb(US) (9.500 kg)

Contractual warranty

Warranty	18 months
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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)	90
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 Label	 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

A black TeSys Deca Motor Circuit Breaker with green terminal covers and a digital display on the front. It is shown against a green circular background.

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

A black and green TeSys Deca Motor Circuit Breaker (MCB) is shown. It has a compact, rectangular design with a green handle and a green terminal block on the right side. The front panel features a digital display and various control buttons.



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.

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Technical Illustration

Assembly's dimensions

