

# Product data sheet

Specifications



## Motor circuit breaker, TeSys Deca, 3P, 50A, Icu 100kA, thermal magnetic, multifunction, UL489

GV4PB50S

**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	100 kA SCCR 240 V AC 50/60 Hz UL 489 65 kA SCCR 480Y/277 V AC 50/60 Hz UL 489 25 kA SCCR 600Y/347 V AC 50/60 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	50 A
Magnetic tripping current	850 A
[Ue] rated operational voltage	690 V AC 50/60 Hz IEC 60947-2 600Y/347 V AC 50/60 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
[Uiimp] 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.

<b>Electrical durability</b>	20000 cycles AC-3 440 V In/2 10000 cycles AC-3 440 V In
<b>maximum operating rate</b>	25 cyc/h
<b>Rated duty</b>	Continuous IEC 60947-4-1
<b>Connections - terminals</b>	EverLink BTR screw connectors top) 1 0.002...0.1 in <sup>2</sup> (1.5...70 mm <sup>2</sup> ) - rigid EverLink BTR screw connectors top) 1 0.002...0.08 in <sup>2</sup> (1.5...50 mm <sup>2</sup> ) - flexible EverLink BTR screw connectors bottom) 1 0.004...0.1 in <sup>2</sup> (2.5...95 mm <sup>2</sup> ) - rigid EverLink BTR screw connectors bottom) 1 0.004...0.1 in <sup>2</sup> (2.5...70 mm <sup>2</sup> ) - flexible
<b>Tightening torque</b>	79.7 lbf.in (9 N.m) 0.02...0.1 in <sup>2</sup> (16...95 mm <sup>2</sup> ) 44.3 lbf.in (5 N.m) 0.002...0.02 in <sup>2</sup> (1.5...10 mm <sup>2</sup> )
<b>Mechanical robustness</b>	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
<b>Phase failure sensitivity</b>	Yes IEC 60947-4-1
<b>Height</b>	6.7 in (171 mm)
<b>Width</b>	3.2 in (81 mm)
<b>Depth</b>	4.6 in (116 mm)
<b>Product Weight</b>	3.20 lb(US) (1.45 kg)
<b>color</b>	Gray RAL 7016)
<b>Suitability for isolation</b>	Yes IEC 60947-1

## Environment

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

## Ordering and shipping details

<b>Category</b>	US101122365
<b>Discount Schedule</b>	0111
<b>GTIN</b>	3606489868680
<b>Returnability</b>	Yes
<b>Country of origin</b>	PL

## Packing Units

<b>Unit Type of Package 1</b>	PCE
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<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	6.50 in (16.5 cm)
<b>Package 1 Width</b>	4.33 in (11.0 cm)
<b>Package 1 Length</b>	8.88 in (22.55 cm)
<b>Package weight(Lbs)</b>	3.757 lb(US) (1.704 kg)
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	5
<b>Package 2 Height</b>	11.81 in (30.0 cm)
<b>Package 2 Width</b>	11.81 in (30.0 cm)
<b>Package 2 Length</b>	15.75 in (40.0 cm)
<b>Package 2 Weight</b>	20.9 lb(US) (9.5 kg)

## Contractual warranty

<b>Warranty</b>	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



**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.

Offer Marketing Illustration

**Product benefits / Features**

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