

# Product data sheet

Specifications



## Motor circuit breaker, TeSys GV4, 3P, 7A, Icu 100kA, thermal magnetic, Everlink terminals

GV4PE07S

**Product availability: Non-Stock - Not normally stocked in  
distribution facility**

### Main

Range of Product	TeSys GV4
Range	TeSys Deca
Device short name	GV4PE
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
Motor power kW	1.5 kW 400...415 V AC 50/60 Hz 2.2 kW 400...415 V AC 50/60 Hz 2.5 kW 400...415 V AC 50/60 Hz 3 kW 400...415 V AC 50/60 Hz 2.2 kW 500 V AC 50/60 Hz 2.5 kW 500 V AC 50/60 Hz 3 kW 500 V AC 50/60 Hz 4 kW 500 V AC 50/60 Hz 3 kW 660...690 V AC 50/60 Hz 4 kW 660...690 V AC 50/60 Hz 5.5 kW 660...690 V AC 50/60 Hz 7.5 kW 660...690 V AC 50/60 Hz
Breaking capacity	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 60947-2 100 kA 208Y/120 V AC 50/60 Hz UL 60947 100 kA 240 V AC 50/60 Hz UL 60947 65 kA 480Y/277 V AC 50/60 Hz UL 60947 10 kA Icu 660...690 V AC 50/60 Hz IEC 60947-2 25 kA 600Y/347 V AC 50/60 Hz UL 60947
Control Type	Toggle
Line Rated Current	7 A
Magnetic tripping current	119 A
[Ue] rated operational voltage	690 V AC 50/60 Hz IEC 60947-2
[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

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

<b>[Uimp] rated impulse withstand voltage</b>	8 kV IEC 60947-2
<b>Power dissipation per pole</b>	4.6 W
<b>Mechanical durability</b>	40000 cycles
<b>Electrical durability</b>	40000 cycles AC-3 440 V In/2 40000 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> ) - solid 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> ) - solid 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>	6.1 in (155 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>	CSA C22.2 No 60947-4-1 UL 60947-4-1 EN/IEC 60947-4-1 EN/IEC 60947-2
<b>Product Certifications</b>	IEC UL CSA CCC EAC ATEX EU-RO MR
<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>	US10I1122365
<b>Discount Schedule</b>	0111
<b>GTIN</b>	3606481310576

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Returnability	No
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Country of origin	PL
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## Packing Units

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Unit Type of Package 1	PCE
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Nbr. of units in pkg.	1
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Package 1 Height	6.69 in (17.0 cm)
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Package 1 Width	4.33 in (11.0 cm)
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Package 1 Length	8.66 in (22.0 cm)
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Package weight(Lbs)	3.68 lb(US) (1.67 kg)
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Unit Type of Package 2	S03
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Number of Units in Package 2	5
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Package 2 Height	11.81 in (30.0 cm)
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Package 2 Width	11.81 in (30.0 cm)
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Package 2 Length	15.75 in (40.0 cm)
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Package 2 Weight	19.8 lb(US) (9.0 kg)
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## Contractual warranty

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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.**

Performance Curves

**Thermal-Magnetic Tripping Curves for GV4P, GV4PE, GV4PEM**  
**Average Operating Times at 20 °C Related to Multiples of the Setting Current**

Hot state



- 1 Class 10
- 2 Class 20
- 3  $I_{sd} = 5 \dots 13 \times I_r$
- 4  $I_i = 17 I_n$

Cold state



- 1 Class 10
- 2 Class 20
- 3  $I_{sd} = 5...13x I_r$
- 4  $I_i = 17 I_n$

**Current Limitation on Short-Circuit for GV4P, GV4PE, GV4PEM (3-Phase 400/415 V)**

**Dynamic Stress**

$I_{peak} = f(\text{prospective } I_{sc}) \text{ at } 1.05 U_e = 435 \text{ V}$

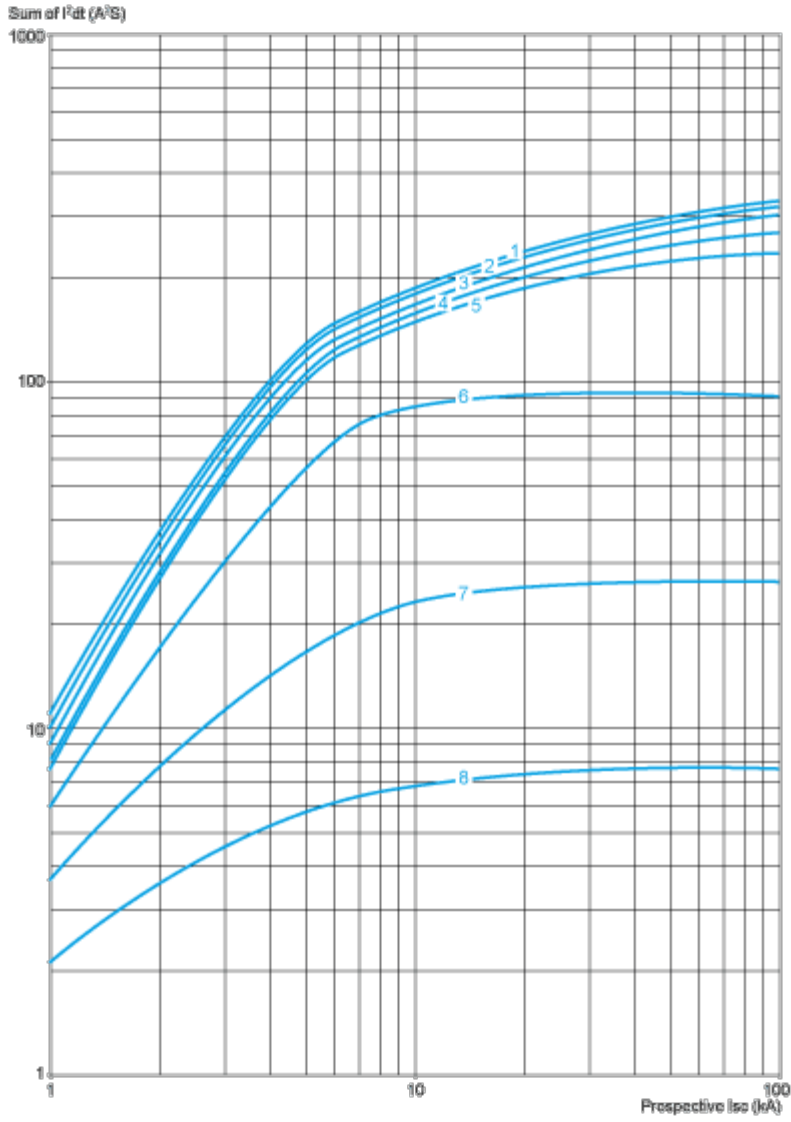


- 1 Maximum peak current
- 2 GV4P115
- 3 GV4P80
- 4 GV4P50
- 5 GV4P25
- 6 GV4P12
- 7 GV4P07
- 8 GV4P03
- 9 GV4P02

**Thermal Limit on Short-Circuit for GV4P, GV4PE, GV4PEM**

Thermal Limit in  $kA^2s$  in the Magnetic Operating Zone

Sum of  $I^2dt = f$  (prospective Isc) at 1.05 Ue = 435 V



- 1 GV4P115
- 2 GV4P80
- 3 GV4P50
- 4 GV4P25
- 5 GV4P12
- 6 GV4P07
- 7 GV4P03
- 8 GV4P02

Dimensions Drawings

**GV4 with Toggle: GV4LE, GV4PE, GV4PEM**

With EverLink® Connector

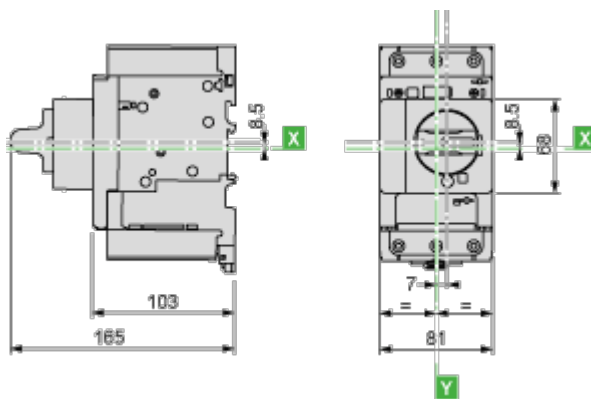


With Crimp Lug Connector



**GV4 with Rotary Handle: GV4L, GV4P, or GV4LE, GV4PE, GV4PEM with GV4ADN01, GV4ADN02 Direct Mounting Rotary Handle**

Dimensions



**GV4L, GV4P, GV4LE, GV4PE, GV4PEM**

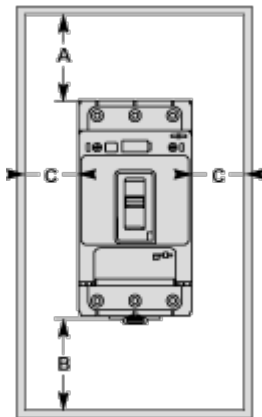
Panel Mounting with M4 Screws



Door Cut-Out for Rotary Handle



Minimum Safety Clearance



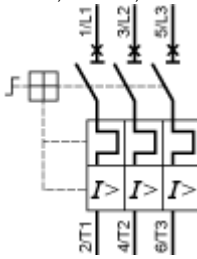
Toggle-type, rotary handle-type: identical clearance values.

	Painted Sheet Metal			Bare Sheet Metal		
	A	B	C	A	B	C
No accessory	30	0	0	40	0	5
Interphase barriers	0	0	0	0	0	5
Long terminal shield	0	0	0	0	0	5

Connections and Schema

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**Magnetic Motor Circuit Breakers**  
GV4P, GV4PE, GV4PEM



Offer Marketing Illustration

Product benefits / Features

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**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

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## 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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