# **Product datasheet**

Specification





TeSys Deca, Motor circuit breaker, TeSys GV4, 3P, 115A, Icu 25kA, thermal magnetic, Everlink terminals

GV4PE115B

## Main

Range Of Product	TeSys GV4
Range	TeSys Deca TeSys Deca
Device Short Name	GV4PE
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  Category A conforming to IEC 60947-2 AC-3 conforming to IEC 60947-4-1					
Utilisation Category						
Operating Position	Any position					
Motor Power Kw	37 kW at 400415 V AC 50/60 Hz 45 kW at 400415 V AC 50/60 Hz 55 kW at 400415 V AC 50/60 Hz 45 kW at 500 V AC 50/60 Hz 55 kW at 500 V AC 50/60 Hz 75 kW at 500 V AC 50/60 Hz 75 kW at 660690 V AC 50/60 Hz 90 kW at 660690 V AC 50/60 Hz 110 kW at 660690 V AC 50/60 Hz					
Breaking Capacity	50 kA Icu at 220240 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 380415 V AC 50/60 Hz conforming to IEC 60947-2 20 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 35 kA at 208Y/120 V AC 50/60 Hz conforming to UL 60947 35 kA at 240 V AC 50/60 Hz conforming to UL 60947 18 kA at 480Y/277 V AC 50/60 Hz conforming to UL 60947 14 kA at 600Y/347 V AC 50/60 Hz conforming to UL 60947					
Control Type	Toggle					
[In] Rated Current	115 A					
Magnetic Tripping Current	1955 A					
[Ue] Rated Operational Voltage	690 V AC 50/60 Hz conforming to IEC 60947-2					
[Ui] Rated Insulation Voltage	800 V AC 50/60 Hz conforming to IEC 60947-2					
[Ith] Conventional Free Air Thermal Current	115 A conforming to IEC 60947-4-1					
[Uimp] Rated Impulse Withstand Voltage	8 kV conforming to IEC 60947-2					

Power Dissipation Per Pole	4.6 W					
Mechanical Durability	40000 cycles					
Electrical Durability	10000 cycles for AC-3 at 440 V In/2 5000 cycles for AC-3 at 440 V In					
Maximum Operating Rate	25 cyc/h					
Rated Duty	Continuous conforming to IEC 60947-4-1					
Connections - Terminals	EverLink BTR screw connectors (top) 1 cable(s) 1.570 mm² - solid  EverLink BTR screw connectors (top) 1 cable(s) 1.550 mm² - flexible  EverLink BTR screw connectors (bottom) 1 cable(s) 2.595 mm² - solid  EverLink BTR screw connectors (bottom) 1 cable(s) 2.570 mm² - flexible					
Tightening Torque	9 N.m for cable 1695 mm² 5 N.m for cable 1.510 mm²					
Mechanical Robustness	Vibrations: +/- 1 mm 213.2 Hz conforming to IEC 60068-2-6 Vibrations: 0.7 gn 13.2100 Hz conforming to IEC 60068-2-6 Shocks: 15 gn 11 ms conforming to IEC 60068-2-27					
Phase Failure Sensitivity	Yes conforming to IEC 60947-4-1					
Height	155 mm					
Width	81 mm					
Depth	116 mm					
Net Weight	1.45 kg					
Colour	Grey (RAL 7016)					
Suitability For Isolation	Yes conforming to IEC 60947-1					
Environment Standards	CSA C22.2 No 60947-4-1 UL 60947-4-1 EN/IEC 60947-4-1 EN/IEC 60947-2					
Product Certifications	IEC UL CSA CCC EAC ATEX EU-RO MR					
Climatic Withstand	conforming to IACS E10					
Ik Degree Of Protection	IK07 conforming to IEC 62262					
Pollution Degree	3					
Ip Degree Of Protection	IP40 conforming to IEC 60529					
Ambient Air Temperature For Storage	-5085 °C					
Fire Resistance	960 °C conforming to IEC 60695-2-11					
Operating Altitude	5000 m					
Ambient Air Temperature For Operation	-2570 °C					
Packing Units						
Unit Type Of Package 1	PCE					
Number Of Units In Package 1						
Number of offics in Fackage 1	1					

11.0 cm

Package 1 Width

Package 1 Length	22.0 cm
Package 1 Weight	1.66 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	5
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	14.0 kg

# **Contractual warranty**

Warranty 18 months

# Sustainability Green Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

## Well-being performance

<b>Ø</b>	Mercury Free
<b>⊘</b>	Rohs Exemption Information Yes
<b>Ø</b>	Pvc Free
<b>⊘</b>	Halogen Free Plastic Parts Product

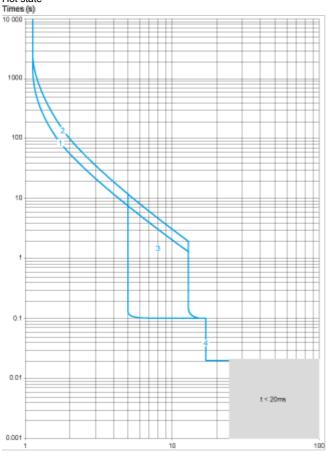
## **Certifications & Standards**

Reach Regulation	REACh Declaration			
Eu Rohs Directive	Compliant with Exemptions			
China Rohs Regulation	China RoHS declaration  Product out of China RoHS scope. Substance declaration for your information			
Environmental Disclosure	Product Environmental Profile			
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins			
Circularity Profile	End of Life Information			

#### Performance Curves

## Thermal-Magnetic Tripping Curves for GV4P, GV4PE, GV4PEM

Average Operating Times at 20  $^{\circ}\text{C}$  Related to Multiples of the Setting Current Hot state



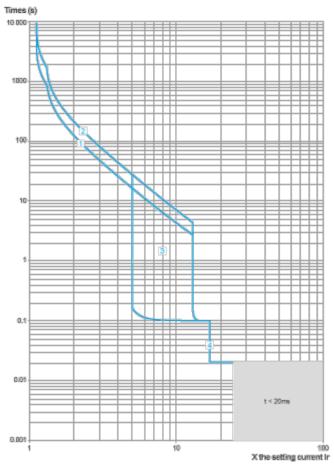
X the setting current in

- 1 Class 10
- 2 Class 20
- 3 lsd = 5...13x lr
- 4 li = 17 ln

Cold state

# **Product datasheet**

### GV4PE115B

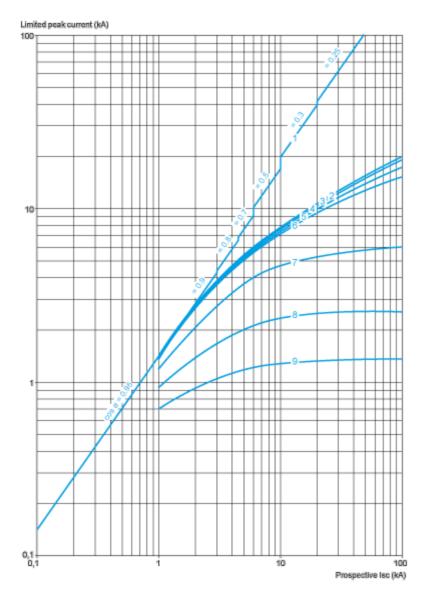


- 1 Class 10
- 2 Class 20
- 3 lsd = 5...13x lr
- 4 li = 17 ln

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

#### **Dynamic Stress**

I peak = f (prospective lsc) at 1.05 Ue = 435 V



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

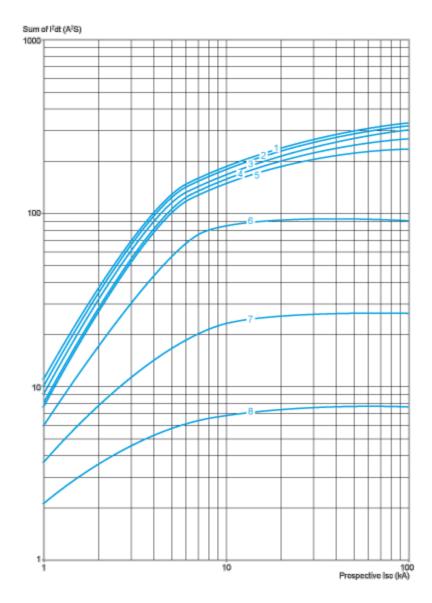
#### Thermal Limit on Short-Circuit for GV4P, GV4PE, GV4PEM

Thermal Limit in kA<sup>2</sup>2s in the Magnetic Operating Zone

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

# **Product datasheet**

# **GV4PE115B**

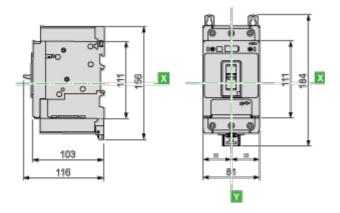


- 1 GV4P115
- 2 GV4P80
- 3 GV4P50
- 4 GV4P25
- 5 GV4P12
- 6 GV4P07
- 7 GV4P03
- 8 GV4P02

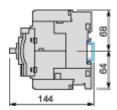
#### **Dimensions Drawings**

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

With EverLink® Connector

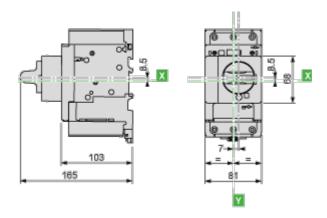


#### With Crimp Lug Connector



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

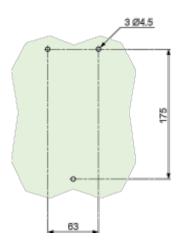
Dimensions



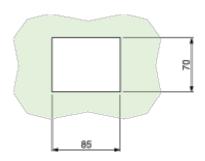
#### GV4L, GV4P, GV4LE, GV4PE, GV4PEM

Panel Mounting with M4 Screws

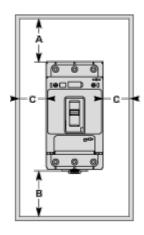
# **GV4PE115B**



#### **Door Cut-Out for Rotary Handle**



#### **Minimum Safety Clearance**



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

Safety Clearance (mm)						
	Painted She	Bare Sheet Metal				
	Α	В	С	Α	В	С
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

Magnetic Motor Circuit Breakers GV4P, GV4PE, GV4PEM

