Specification





# Motor circuit breaker, TeSys GV4, 3P, 115A, Icu 50kA, thermal magnetic, lugs terminals

GV4P115N6

#### Main

Range Of Product	TeSys GV4
Range	TeSys Deca TeSys Deca
Device Short Name	GV4P
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	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 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	100 kA Icu at 220240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 380415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 15 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 65 kA at 208Y/120 V AC 50/60 Hz conforming to UL 60947 65 kA at 240 V AC 50/60 Hz conforming to UL 60947 35 kA at 480Y/277 V AC 50/60 Hz conforming to UL 60947 8 kA Icu at 660690 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 18 kA at 600Y/347 V AC 50/60 Hz conforming to UL 60947				
Control Type	Rotary handle				
[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
Connection Pitch	27 mm without spreaders 35 mm with spreaders
Connections - Terminals	Lugs-ring terminals
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	165 mm
Net Weight	1.6 kg
Colour	Grey (RAL 7016)
Environment Standards	CSA C22.2 No 60947-4-1
Environment Standards	CSA C22.2 No 60947-4-1 UL 60947-4-1 EN/IEC 60947-4-1 EN/IEC 60947-2
-	UL 60947-4-1 EN/IEC 60947-4-1
Standards	UL 60947-4-1 EN/IEC 60947-4-1 EN/IEC 60947-2  IEC UL CSA CCC EAC ATEX
Standards  Product Certifications	UL 60947-4-1 EN/IEC 60947-4-1 EN/IEC 60947-2  IEC UL CSA CCC EAC ATEX EU-RO MR
Product Certifications  Climatic Withstand	UL 60947-4-1 EN/IEC 60947-4-1 EN/IEC 60947-2  IEC UL CSA CCC EAC ATEX EU-RO MR  conforming to IACS E10
Product Certifications  Climatic Withstand  Ik Degree Of Protection	UL 60947-4-1 EN/IEC 60947-4-1 EN/IEC 60947-2  IEC UL CSA CCC EAC ATEX EU-RO MR  conforming to IACS E10  IK07 conforming to IEC 62262
Product Certifications  Climatic Withstand Ik Degree Of Protection  Pollution Degree	UL 60947-4-1 EN/IEC 60947-4-1 EN/IEC 60947-2  IEC UL CSA CCC EAC ATEX EU-RO MR  conforming to IACS E10  IK07 conforming to IEC 62262
Product Certifications  Climatic Withstand Ik Degree Of Protection  Pollution Degree Ip Degree Of Protection  Ambient Air Temperature For	UL 60947-4-1 EN/IEC 60947-4-1 EN/IEC 60947-2  IEC UL CSA CCC EAC ATEX EU-RO MR  conforming to IACS E10  IK07 conforming to IEC 62262  3  IP40 conforming to IEC 60529
Product Certifications  Climatic Withstand  Ik Degree Of Protection  Pollution Degree  Ip Degree Of Protection  Ambient Air Temperature For Storage	UL 60947-4-1 EN/IEC 60947-4-1 EN/IEC 60947-2  IEC UL CSA CCC EAC ATEX EU-RO MR  conforming to IACS E10  IK07 conforming to IEC 62262  3  IP40 conforming to IEC 60529  -5085 °C
Product Certifications  Climatic Withstand Ik Degree Of Protection  Pollution Degree Ip Degree Of Protection  Ambient Air Temperature For Storage Fire Resistance	UL 60947-4-1 EN/IEC 60947-4-1 EN/IEC 60947-2  IEC UL CSA CCC EAC ATEX EU-RO MR  conforming to IACS E10  IK07 conforming to IEC 62262  3  IP40 conforming to IEC 60529  -5085 °C
Product Certifications  Climatic Withstand  Ik Degree Of Protection  Pollution Degree  Ip Degree Of Protection  Ambient Air Temperature For Storage  Fire Resistance  Operating Altitude  Ambient Air Temperature For	UL 60947-4-1 EN/IEC 60947-4-1 EN/IEC 60947-2  IEC UL CSA CCC EAC ATEX EU-RO MR  conforming to IACS E10  IK07 conforming to IEC 62262  3  IP40 conforming to IEC 60529  -5085 °C  960 °C conforming to IEC 60695-2-11  5000 m
Product Certifications  Climatic Withstand Ik Degree Of Protection  Pollution Degree Ip Degree Of Protection  Ambient Air Temperature For Storage Fire Resistance  Operating Altitude  Ambient Air Temperature For Operation	UL 60947-4-1 EN/IEC 60947-4-1 EN/IEC 60947-2  IEC UL CSA CCC EAC ATEX EU-RO MR  conforming to IACS E10  IK07 conforming to IEC 62262  3  IP40 conforming to IEC 60529  -5085 °C  960 °C conforming to IEC 60695-2-11  5000 m
Product Certifications  Climatic Withstand  Ik Degree Of Protection  Pollution Degree  Ip Degree Of Protection  Ambient Air Temperature For Storage  Fire Resistance  Operating Altitude  Ambient Air Temperature For Operation  Packing Units	UL 60947-4-1 EN/IEC 60947-2  IEC UL CSA CCC EAC ATEX EU-RO MR  conforming to IACS E10  IK07 conforming to IEC 62262  3  IP40 conforming to IEC 60529  -5085 °C  960 °C conforming to IEC 60695-2-11  5000 m  -2570 °C

12.5 cm

Package 1 Height

Package 1 Width	9.0 cm
Package 1 Length	22.0 cm
Package 1 Weight	1.613 ka

# **Contractual warranty**

Warranty 18 months



**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

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

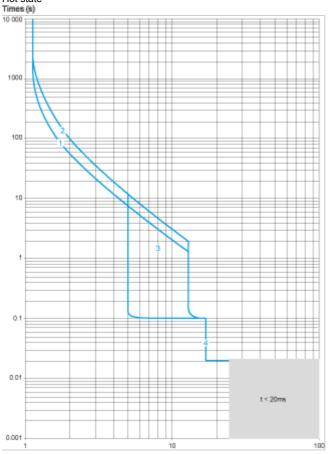
#### **Certifications & Standards**

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

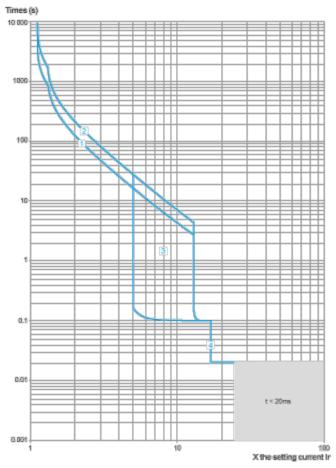


X the setting current in

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

Cold state

#### **GV4P115N6**

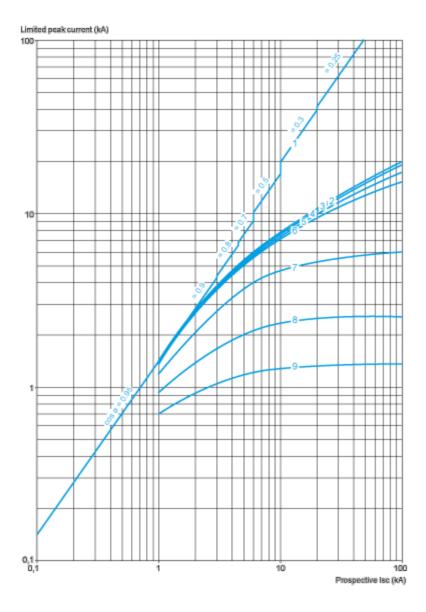


- 1 Class 10
- 2 Class 20
- 3 Isd = 5...13x Ir
- 4 li = 17 ln

#### 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



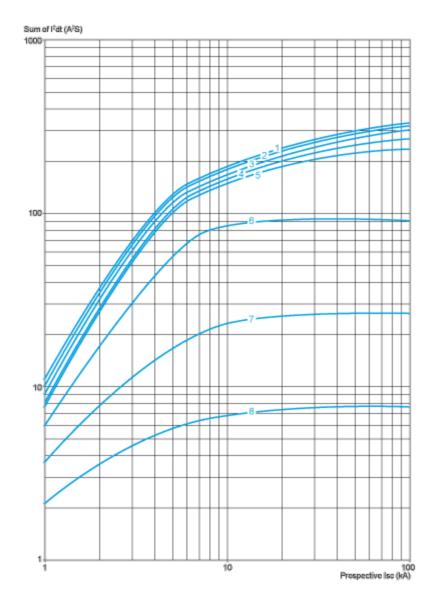
- Maximum peak current 1
- GV4P115 2
- 3 GV4P80
- GV4P50 4
- 5 GV4P25
- GV4P12 6
- GV4P07 7
- 8 GV4P03
- 9 GV4P02

#### 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 lsc) at 1.05 Ue = 435 V

#### **GV4P115N6**

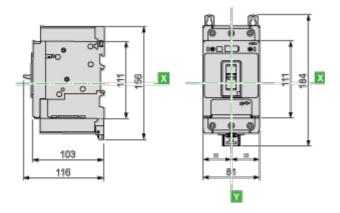


- 1 GV4P115
- 2 GV4P80
- 3 GV4P50
- 4 GV4P25
- 5 GV4P12
- 6 GV4P07
- 7 GV4P03
- 8 GV4P02

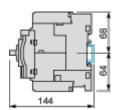
#### **Dimensions Drawings**

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

With EverLink® Connector

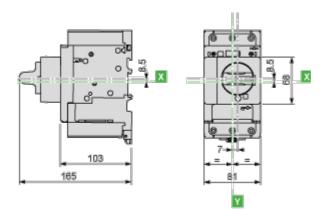


#### With Crimp Lug Connector



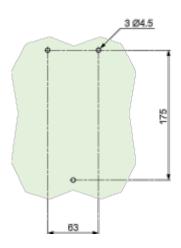
# GV4 with Rotary Handle: GV4L, GV4P, or GV4LE, GV4PE, GV4PEM with GV4ADN01, GV4ADN02 Direct Mounting Rotary Handle

**Dimensions** 

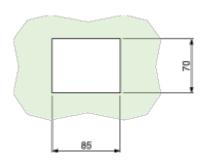


GV4L, GV4P, GV4LE, GV4PE, GV4PEM

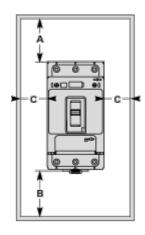
Panel Mounting with M4 Screws



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



#### **Minimum Safety Clearance**



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

Safety Clearance (mm)						
	Painted Sheet Metal			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

