Product datasheet

Specification





TeSys Deca, Motor circuit breaker, TeSys GV4, 3P, 115A, Icu 100kA, thermal magnetic, Everlink terminals

GV4PE115S

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	Thermal-magnetic Electronic

Complementary

Poles Description	3P			
Utilisation Category	Category A conforming to IEC 60947-2			
	AC-3 conforming to IEC 60947-4-1			
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	120 kA Icu at 220240 V AC 50/60 Hz conforming to IEC 60947-2			
	100 kA Icu at 380415 V AC 50/60 Hz conforming to IEC 60947-2			
	70 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2			
	30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2			
	18 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2			
	100 kA at 208Y/120 V AC 50/60 Hz conforming to UL 60947			
	100 kA at 240 V AC 50/60 Hz conforming to UL 60947			
	65 kA at 480Y/277 V AC 50/60 Hz conforming to UL 60947			
	10 kA Icu at 660690 V AC 50/60 Hz conforming to IEC 60947-2			
	25 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					
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 60947-2 IEC UL CSA CCC EAC ATEX				
Standards Product Certifications	UL 60947-4-1 EN/IEC 60947-2 IEC UL CSA CCC EAC ATEX EU-RO MR				
Standards Product Certifications Climatic Withstand	UL 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 60947-2 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 60947-2 IEC UL CSA CCC EAC ATEX EU-RO MR conforming to IACS E10 IK07 conforming to IEC 62262				
Standards Product Certifications Climatic Withstand Ik Degree Of Protection Pollution Degree Ip Degree Of Protection Ambient Air Temperature For	UL 60947-4-1 EN/IEC 60947-2 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 60947-2 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				
Standards 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 60947-2 IEC UL CSA CCC EAC ATEX EU-RO MR conforming to IACS E10 IK07 conforming to IEC 60529 -5085 °C 960 °C conforming to IEC 60695-2-11				
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 60947-2 IEC UL CSA CCC EAC ATEX EU-RO MR conforming to IACS E10 IK07 conforming to IEC 60262 3 IP40 conforming to IEC 60529 -5085 °C 960 °C conforming to IEC 60695-2-11 5000 m				
Standards 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 60947-2 IEC UL CSA CCC EAC ATEX EU-RO MR conforming to IACS E10 IK07 conforming to IEC 60262 3 IP40 conforming to IEC 60529 -5085 °C 960 °C conforming to IEC 60695-2-11 5000 m				

11.0 cm

Package 1 Height

Package 1 Width	17.0 cm
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	9.0 kg

Contractual warranty

Warranty 18 months

Sustainability Green Premium

Green PremiumTM 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-CO₂ 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

Ø	Mercury Free
⊘	Rohs Exemption Information Yes
Ø	Pvc Free
⊘	Halogen Free Plastic Parts Product

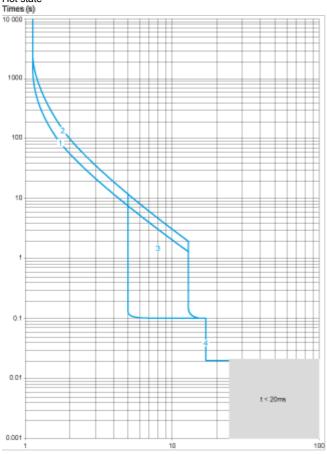
Certifications & Standards

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



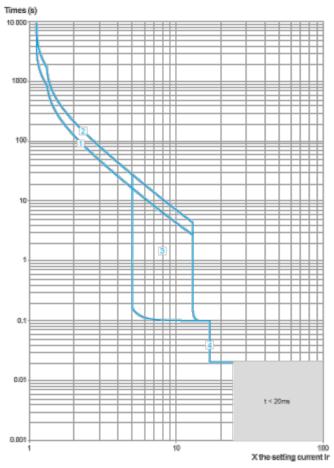
X the setting current in

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

Cold state

Product datasheet

GV4PE115S

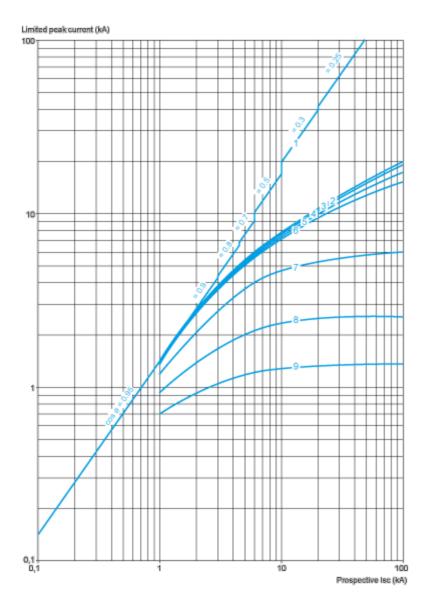


- 1 Class 10
- 2 Class 20
- 3 Isd = 5...13x Ir
- 4 li = 17 ln

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



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

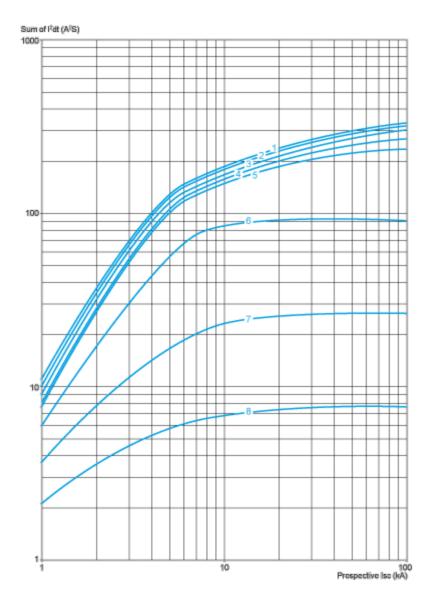
Thermal Limit on Short-Circuit for GV4P, GV4PE, GV4PEM

Thermal Limit in kA²2s in the Magnetic Operating Zone

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

Product datasheet

GV4PE115S

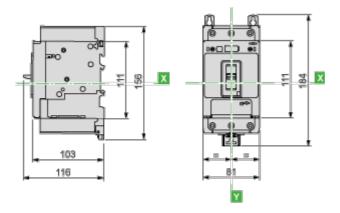


- 1 GV4P115
- 2 GV4P80
- 3 GV4P50
- 4 GV4P25
- 5 GV4P12
- 6 GV4P07
- 7 GV4P03
- 8 GV4P02

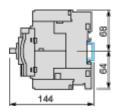
Dimensions Drawings

GV4 with Toggle: GV4LE, GV4PE, GV4PEM

With EverLink® Connector

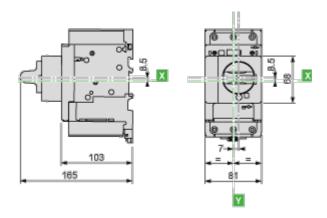


With Crimp Lug Connector



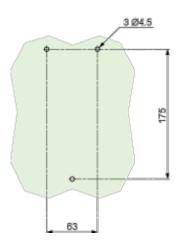
GV4 with Rotary Handle: GV4L, GV4P, or GV4LE, GV4PE, GV4PEM with GV4ADN01, GV4ADN02 Direct Mounting Rotary Handle

Dimensions

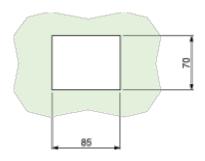


GV4L, GV4P, GV4LE, GV4PE, GV4PEM

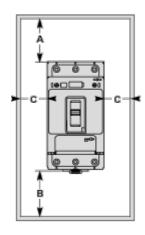
Panel Mounting with M4 Screws



Door Cut-Out for Rotary Handle



Minimum Safety Clearance



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

Safety Clearance (mm)						
	Painted 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

