Product datasheet





Motor circuit breaker, TeSys GV4, 3P, 115 A, Icu 50 kA, magnetic, **EverLink terminals**

GV4L115N

Main

Range Of Product	TeSys GV4
Range	TeSys Deca TeSys Deca
Device Short Name	GV4L
Product Name	TeSys GV4 TeSys Deca
Product Or Component Type	Motor circuit breaker
Device Application	Motor protection
Trip Unit Technology	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	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		
	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		
Control Type	Rotary handle		
[In] Rated Current	115 A		
Magnetic Tripping Current	6901610 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	6.1 W		

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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				
Height	155 mm				
Width	81 mm				
Depth	165 mm				
Net Weight	1.65 kg				
Colour	Grey (RAL 7016)				
Suitability For Isolation	Yes conforming to IEC 60947-1				
Environment					
Standards	EN/IEC 60947-4-1 EN/IEC 60947-2				
Product Certifications	IEC CCC EAC EU-RO MR				
Product Certifications Climatic Withstand	CCC EAC				
	CCC EAC EU-RO MR				
Climatic Withstand	CCC EAC EU-RO MR conforming to IACS E10				
Climatic Withstand Ik Degree Of Protection	CCC EAC EU-RO MR conforming to IACS E10 IK07 conforming to IEC 62262				
Climatic Withstand Ik Degree Of Protection Pollution Degree	CCC EAC EU-RO MR conforming to IACS E10 IK07 conforming to IEC 62262				
Climatic Withstand Ik Degree Of Protection Pollution Degree Ip Degree Of Protection Ambient Air Temperature For	CCC EAC EU-RO MR conforming to IACS E10 IK07 conforming to IEC 62262 3 IP40 conforming to IEC 60529				
Climatic Withstand Ik Degree Of Protection Pollution Degree Ip Degree Of Protection Ambient Air Temperature For Storage	CCC EAC EU-RO MR conforming to IACS E10 IK07 conforming to IEC 62262 3 IP40 conforming to IEC 60529 -5085 °C				
Climatic Withstand Ik Degree Of Protection Pollution Degree Ip Degree Of Protection Ambient Air Temperature For Storage Fire Resistance	CCC EAC 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				
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	CCC EAC 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				
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	CCC EAC 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				
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	CCC EAC 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				
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 Unit Type Of Package 1	CCC EAC 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				
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 Unit Type Of Package 1 Number Of Units In Package 1	CCC EAC 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				
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 Unit Type Of Package 1 Number Of Units In Package 1 Package 1 Height	CCC EAC 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 PCE 1 20.8 cm				
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 Unit Type Of Package 1 Number Of Units In Package 1 Package 1 Height Package 1 Width	CCC EAC 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 PCE 1 20.8 cm 10.4 cm				

Number Of Units In Package 2

Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	5.61 kg

Contractual warranty

Warranty 18 months



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

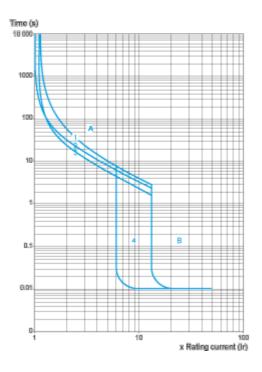
Ø	Mercury Free
⊘	Rohs Exemption Information Yes
Ø	Pvc Free
⊘	Halogen Free Plastic Parts Product

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

Tripping Curves for GV4L and GV4LE Combined with Thermal Overload Relay LRD or LR9 Average Operating Times at 20 °C Related to Multiples of the Setting Current GV4L02 and GV4LE02 to 12 with LRD05 to LRD14, GV4L80 and GV4LE80 with LRD3363

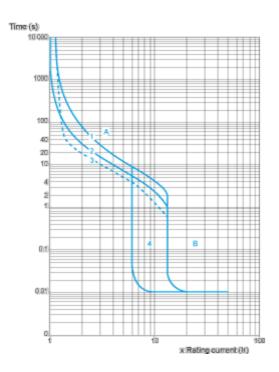


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state
- 4 6...14 lr
- A Thermal overload relay protection zone
- B GV4L protection zone

GV4L25 and GV4LE25 with LRD 318, LRD325 GV4L50 AND GV4LE50 with LRD 332, LRD 340, LRD 350

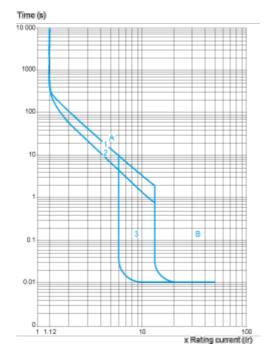
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GV4L115N



- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state
- 4 6...14 lr
- A Thermal overload relay protection zone
- B GV4L protection zone

GV4L115 and GV4LE115 with Class 10 LR9F5367, LR9D5369 and Class 20 LR9D5567, LR9F5569



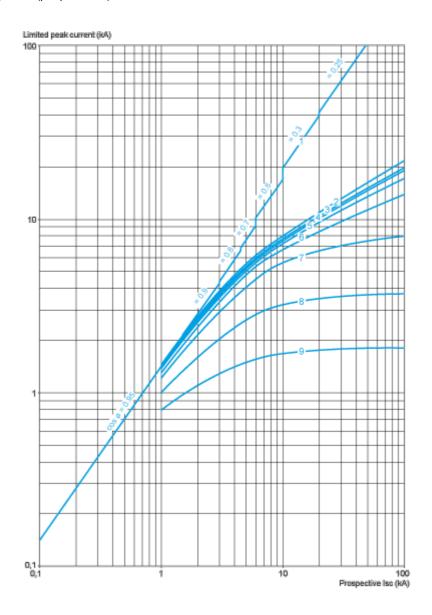
- 1 Cold state curve
- 2 Hot state curve
- 3 6...14 lr

GV4L115N

Current Limitation on Short-Circuit for GV4L, GV4LE (3-Phase 400/415 V)

Dynamic Stress

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

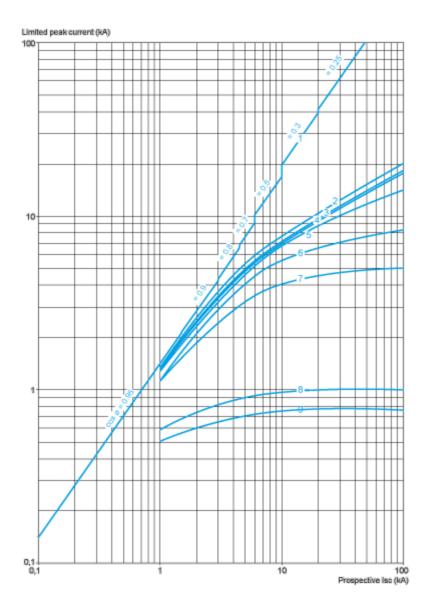


- 1 Maximum peak current
- 2 GV4L115
- 3 GV4L80
- 4 GV4L50
- 5 GV4L25
- 6 GV4L12
- 7 GV4L07
- 8 GV4L03
- 9 GV4L02

Current Limitation on Short-Circuit for GV4L, GV4LE + Thermal Overload Relay LRD or LR9 (3-Phase 400/415 V)

Dynamic Stress

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

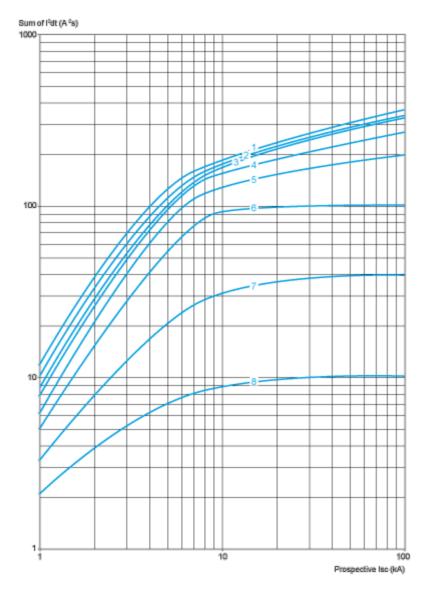


- 1 Maximum peak current
- 2 GV4L115 + LR9D5367 or LR9F5367
- 3 GV4L80 + LRD3361
- 4 GV4L50 + LRD340
- 5 GV4L25 + LRD325
- 6 GV4L12 + LRD313
- 7 GV4L07 + LRD12
- 8 GV4L03 + LRD07
- 9 GV4L02 + LRD07

Thermal Limit on Short-Circuit for GV4L, GV4LE

Thermal Limit in A²s

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

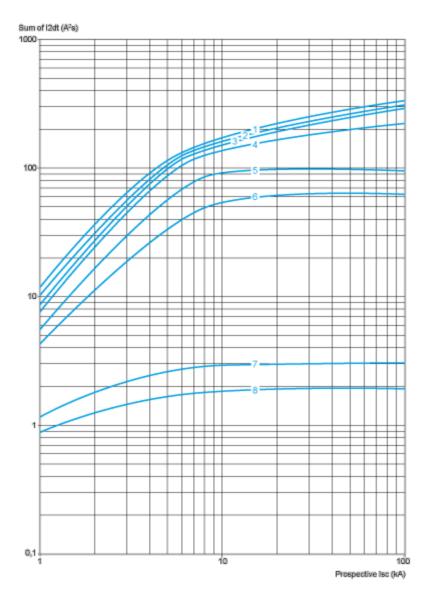


- 1 GV4L115
- 2 GV4L80
- 3 GV4L50
- 4 GV4L25
- 5 GV4L12
- 6 GV4L07
- 7 GV4L03
- 8 GV4L02

Current Limitation on Short-Circuit for GV4L, GV4LE + Thermal Overload Relay LRD or LR9

Thermal Limit in kA in the Magnetic Operating Zone

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

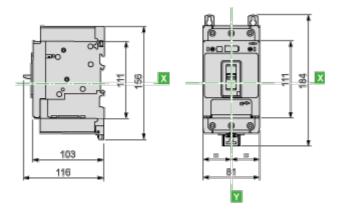


- 1 GV4L115 + LR9D5367 or LR9F5367
- 2 GV4L80 + LRD3361
- 3 GV4L50 + LRD340
- 4 GV4L25 + LRD325
- 5 GV4L12 + LRD313
- 6 GV4L07+ LRD12
- 7 GV4L03+ LRD07
- 8 GV4L02 + LRD07

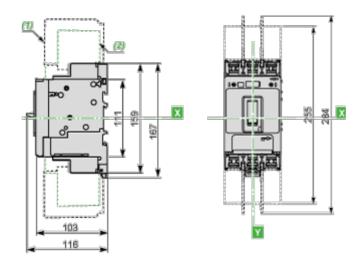
Dimensions Drawings

GV4 with Toggle: GV4LE, GV4PE, GV4PEM

With EverLink[®] Connector



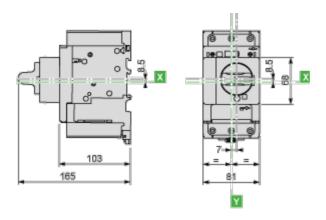
With Crimp Lug Connector



- (1) Interphases barriers
- (2) Long terminal shield

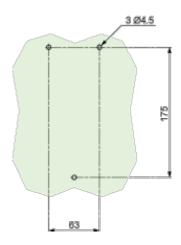
GV4 with Rotary Handle: GV4L, GV4P, or GV4LE, GV4PE, GV4PEM with GV4ADN01, GV4ADN02 Direct Mounting Rotary Handle

Dimensions

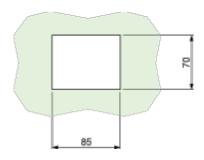


GV4L, GV4P, GV4LE, GV4PE, GV4PEM

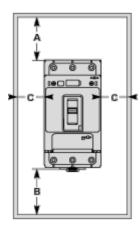
Panel Mounting with M4 Screws



Door Cut-Out for Rotary Handle



Minimum Safety Clearance



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

roggie-type, rotary francie-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

GV4L, GV4LE

