

Motor circuit breaker, TeSys GV4, 3P, 3.5 A, Icu 50 kA, magnetic, EverLink terminals

GV4L03N

Main

Range of product	TeSys GV4
Range	TeSys Deca
Device short name	GV4L
product name	TeSys GV4
Product or component type	Motor circuit breaker
Device application	Motor protection
Trip unit technology	Magnetic Electronic

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	0.55 kW at 400415 V AC 50/60 Hz 0.75 kW at 400415 V AC 50/60 Hz 0.75 kW at 500 V AC 50/60 Hz 1.1 kW at 500 V AC 50/60 Hz 1.1 kW at 660690 V AC 50/60 Hz 1.5 kW at 660690 V AC 50/60 Hz 1.5 kW at 500 V AC 50/60 Hz 1.5 kW at 660690 V AC 50/60 Hz 1.5 kW at 400415 V AC 50/60 Hz 1.1 kW at 400415 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	3.5 A				
Magnetic tripping current	2149 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				
Mechanical durability	40000 cycles				

40000 cycles for AC-3 at 440 V In/2 40000 cycles for AC-3 at 440 V In				
25 cyc/h				
Continuous conforming to IEC 60947-4-1				
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				
9 N.m for cable 1695 mm² 5 N.m for cable 1.510 mm²				
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				
155 mm				
81 mm				
165 mm				
1.65 kg				
Grey (RAL 7016)				
Yes conforming to IEC 60947-1				
EN/IEC 60947-2 EN/IEC 60947-4-1				
IEC 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				
21.0 cm				
10.7 cm				
22.0 cm				
1.9 kg				
\$03				
3				
30.0 cm				

Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	5.7 kg

Contractual warranty

Warranty 18 months



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

Environmental Disclosure

Product Environmental Profile

Use Better

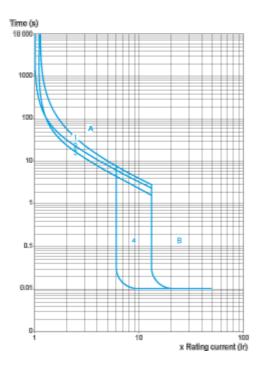
Recycled metal content at CR level	0
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	1b259a2c-3a3c-401a-acdd-f0837efd4018
Halogen content performance	Halogen free plastic parts product
PVC free	Yes

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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

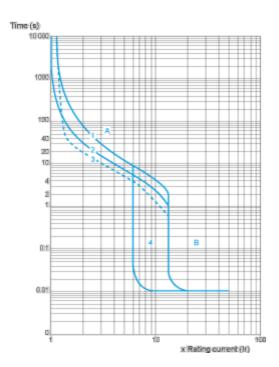


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state
- 4 6...14 lr
- A Thermal overload relay protection zone
- B GV4L protection zone

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

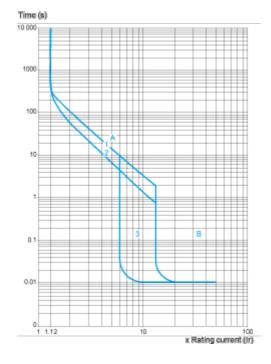
Product datasheet

GV4L03N



- 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



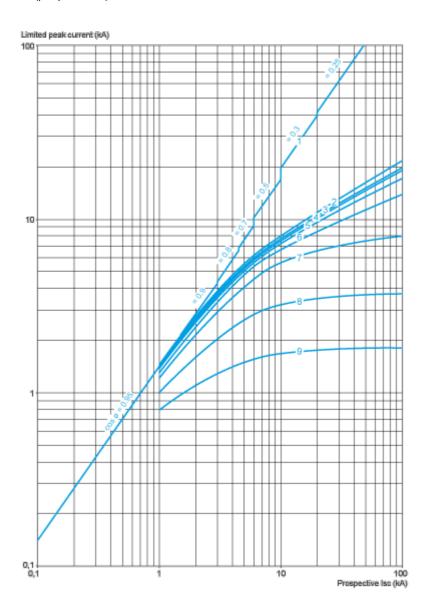
- 1 Cold state curve
- 2 Hot state curve
- 3 6...14 lr

GV4L03N

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

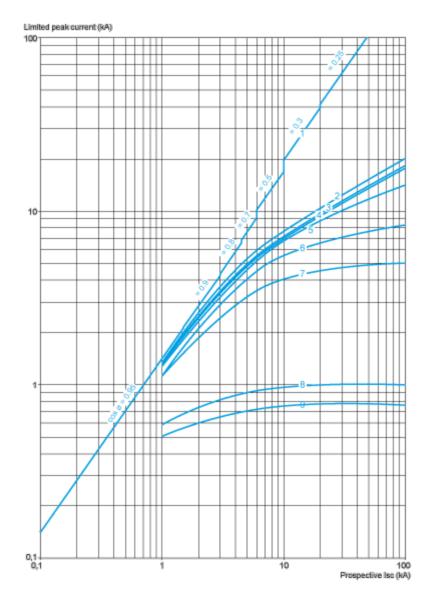


- 1 Maximum peak current
- 2 GV4L115
- 3 GV4L80
- 4 GV4L50
- 5 GV4L25
- 6 GV4L12
- 7 GV4L07
- 8 GV4L03
- 9 GV4L02

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

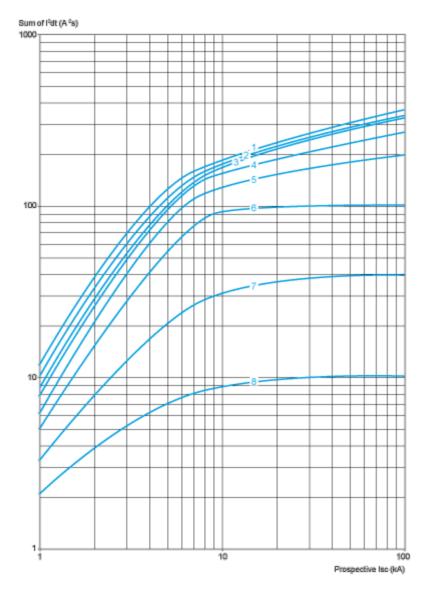


- 1 Maximum peak current
- 2 GV4L115 + LR9D5367 or LR9F5367
- 3 GV4L80 + LRD3361
- 4 GV4L50 + LRD340
- 5 GV4L25 + LRD325
- 6 GV4L12 + LRD313
- 7 GV4L07 + LRD12
- 8 GV4L03 + LRD07
- 9 GV4L02 + LRD07

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



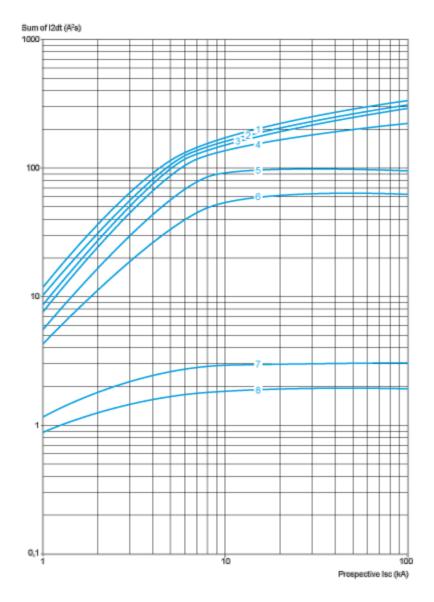
- 1 GV4L115
- GV4L80 2
- GV4L50 3
- GV4L25
- GV4L12 5
- GV4L07 6
- GV4L03
- GV4L02 8

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

GV4L03N

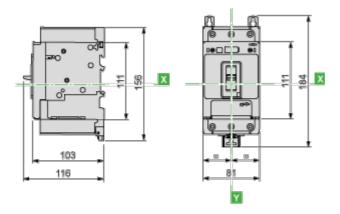


- 1 GV4L115 + LR9D5367 or LR9F5367
- 2 GV4L80 + LRD3361
- 3 GV4L50 + LRD340
- 4 GV4L25 + LRD325
- 5 GV4L12 + LRD313
- 6 GV4L07+ LRD12
- 7 GV4L03+ LRD07
- 8 GV4L02 + LRD07

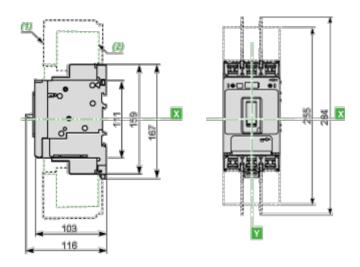
Dimensions Drawings

GV4 with Toggle: GV4LE, GV4PE, GV4PEM

With EverLink[®] Connector



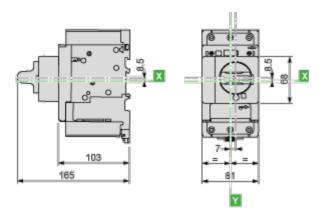
With Crimp Lug Connector



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

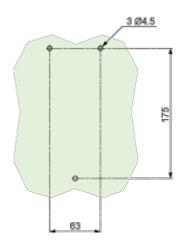
GV4 with Rotary Handle: GV4L, GV4P, or GV4LE, GV4PE, GV4PEM with GV4ADN01, GV4ADN02 Direct Mounting Rotary Handle

Dimensions

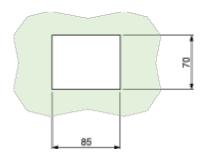


GV4L, GV4P, GV4LE, GV4PE, GV4PEM

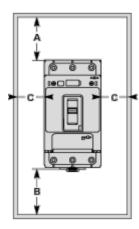
Panel Mounting with M4 Screws



Door Cut-Out for Rotary Handle



Minimum Safety Clearance



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

roggio typo, rotary riarrato typo: raorittoar oloararroo varaoo.									
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

