Product datasheet

Specifications

Motor circuit breaker. TeSys GV4. 3P. 2 A. Icu 100 kA. magnetic. EverLink terminals

GV4LE02S

Price: 9,283.42 ZAR

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	0.25 kW at 400...415 V AC 50/60 Hz 0.37 kW at 400...415 V AC 50/60 Hz 0.55 kW at 400...415 V AC 50/60 Hz 0.75 kW at 400...415 V AC 50/60 Hz 0.37 kW at 500 V AC 50/60 Hz 0.55 kW at 500 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 0.55 kW at 660...690 V AC 50/60 Hz 0.75 kW at 660...690 V AC 50/60 Hz 1.1 kW at 660...690 V AC 50/60 Hz 1.5 kW at 660...690 V AC 50/60 Hz
Breaking Capacity	120 kA Icu at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 380...415 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 10 kA Icu at 660...690 V AC 50/60 Hz conforming to IEC 60947-2
Control Type	Toggle
[In] Rated Current	2 A
Magnetic Tripping Current	12…28 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

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Power Dissipation Per Pole	6.1 W
Mechanical Durability	40000 cycles
Electrical Durability	40000 cycles for AC-3 at 440 V In/2 40000 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) 1.5…70 mm² - solid EverLink BTR screw connectors (top) 1 cable(s) 1.5…50 mm² - flexible EverLink BTR screw connectors (bottom) 1 cable(s) 2.5…95 mm² - solid EverLink BTR screw connectors (bottom) 1 cable(s) 2.5…70 mm² - flexible
Tightening Torque	9 N.m for cable 16…95 mm² 5 N.m for cable 1.5…10 mm²
Mechanical Robustness	Vibrations: +/- 1 mm 2...13.2 Hz conforming to IEC 60068-2-6 Vibrations: 0.7 gn 13.2...100 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	116 mm
Net Weight	1.5 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
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	-50…85 °C
Fire Resistance	960 °C conforming to IEC 60695-2-11
Operating Altitude	5000 m
Ambient Air Temperature For Operation	-25…70 °C

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	16.5 cm
Package 1 Width	10.8 cm
Package 1 Length	22.0 cm
Package 1 Weight	1.73 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	8.65 kg

Contractual warranty

Warranty	18 months

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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	
Rohs Exemption Information	Yes
Pvc Free	
Halogen Free Plastic Parts Product	

Certifications & Standards

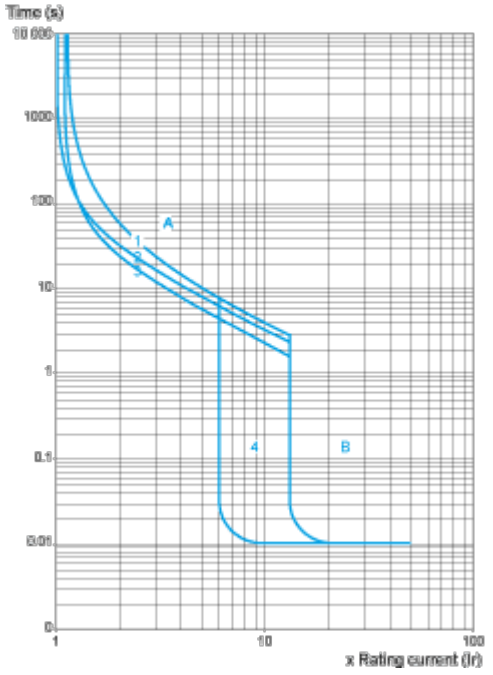
Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European 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

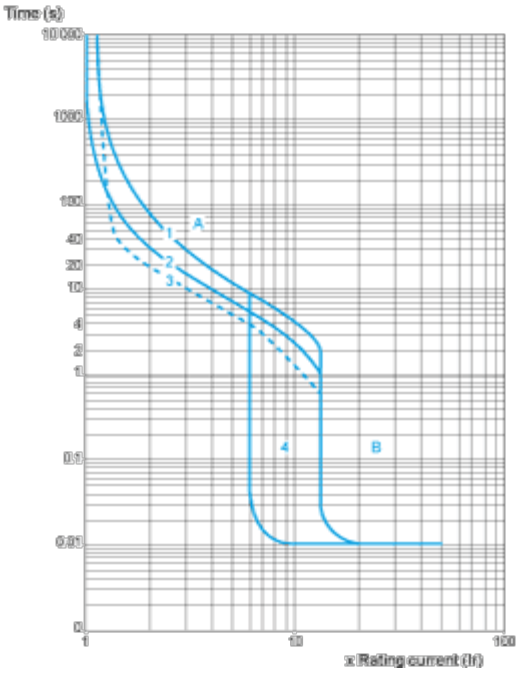
3 3 poles from hot state

4 6...14 Ir

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



1 3 poles from cold state

2 2 poles from cold state

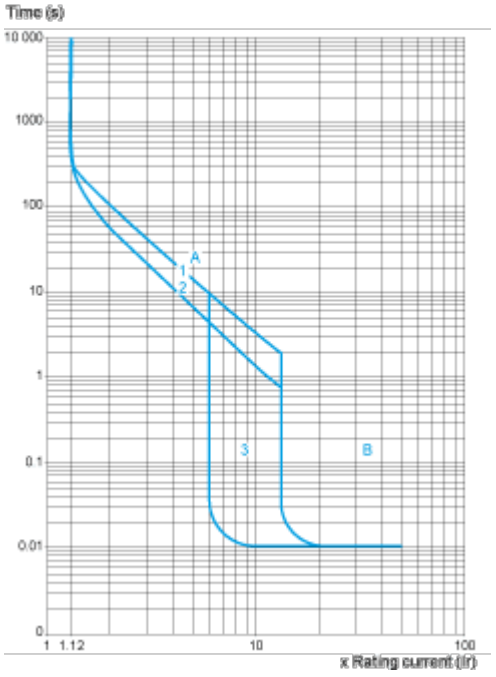
3 3 poles from hot state

4 6...14 Ir

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

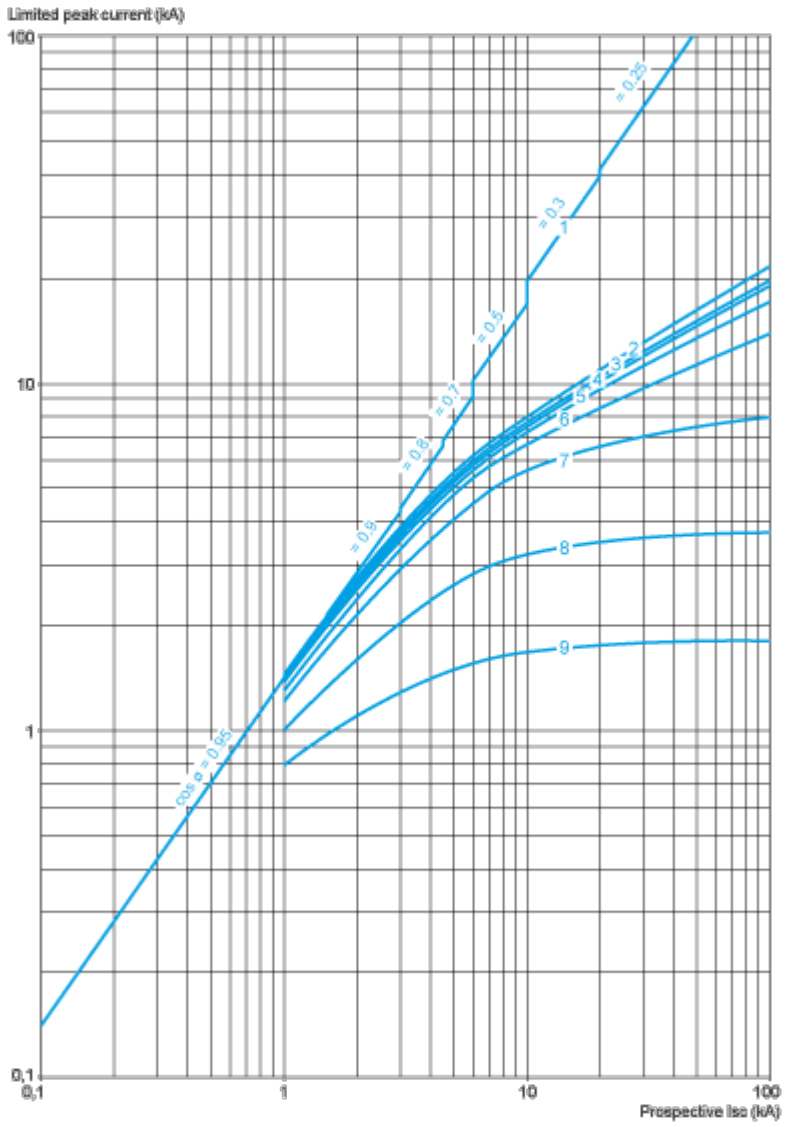
2 Hot state curve

3 6...14 Ir

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

Dynamic Stress

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



1 Maximum peak current

2 GV4L115

3 GV4L80

4 GV4L50

5 GV4L25

6 GV4L12

7 GV4L07

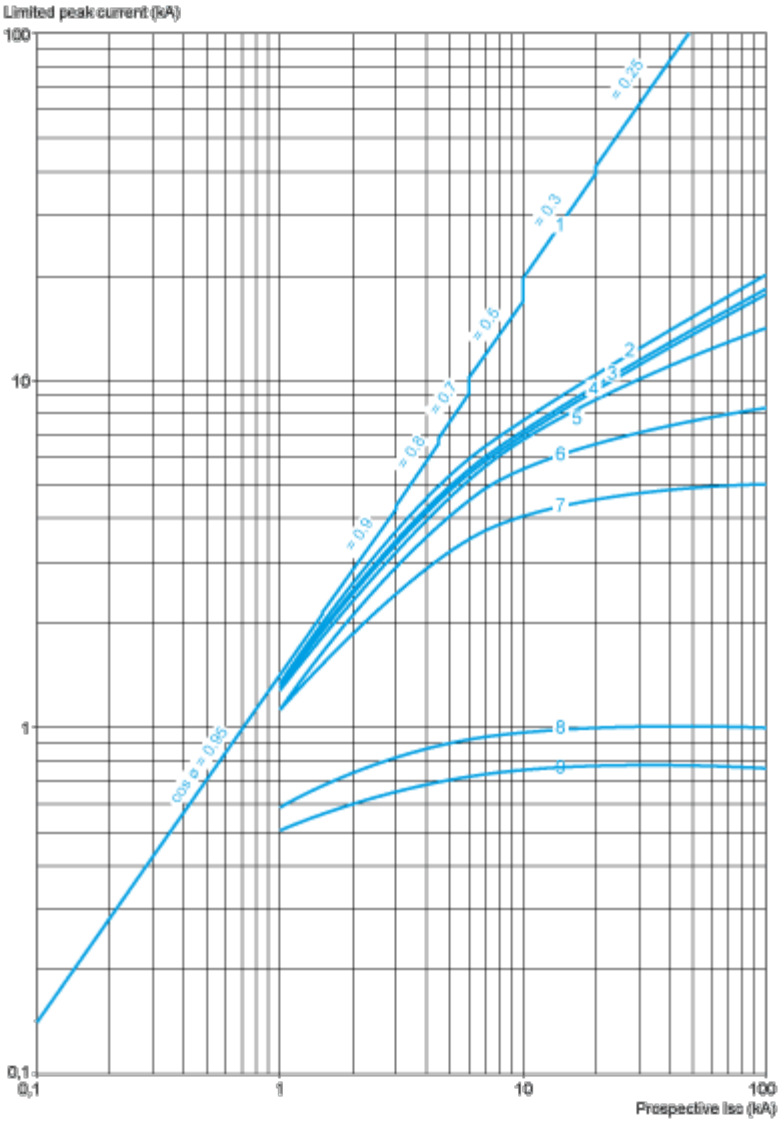
8 GV4L03

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 Isc) 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

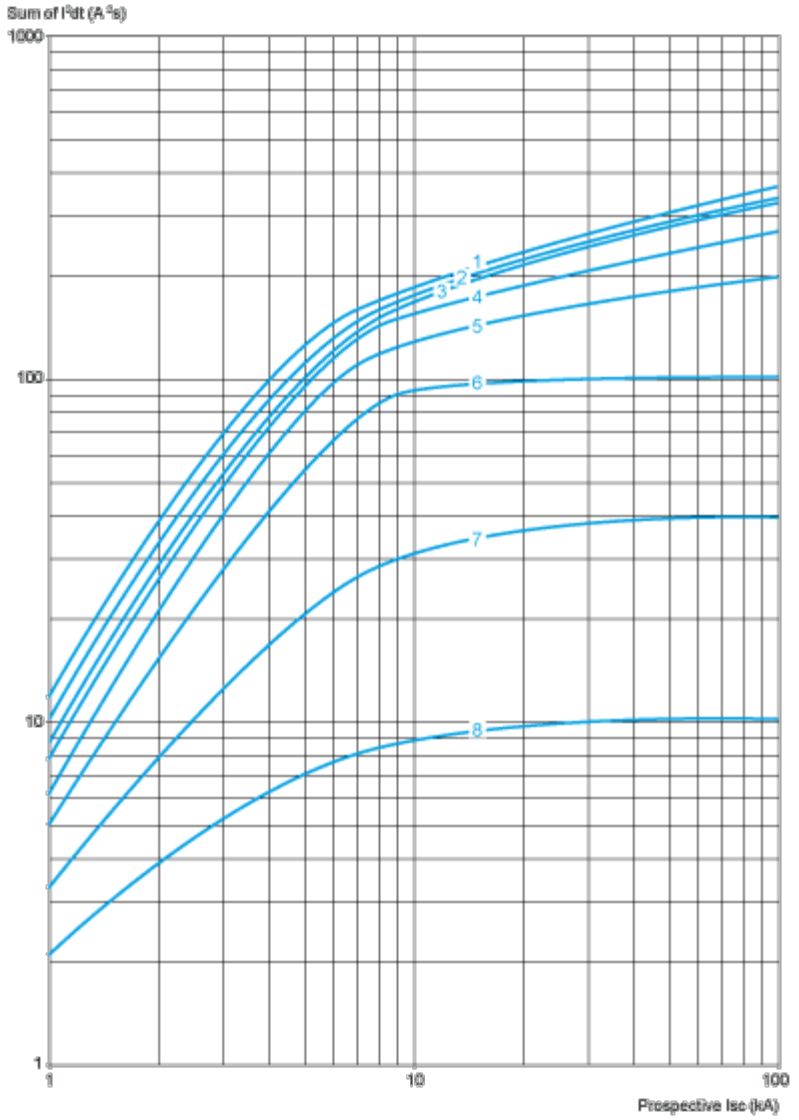
8 GV4L03 + LRD07

9 GV4L02 + LRD07

Thermal Limit on Short-Circuit for GV4L, GV4LE

Thermal Limit in A^2s

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

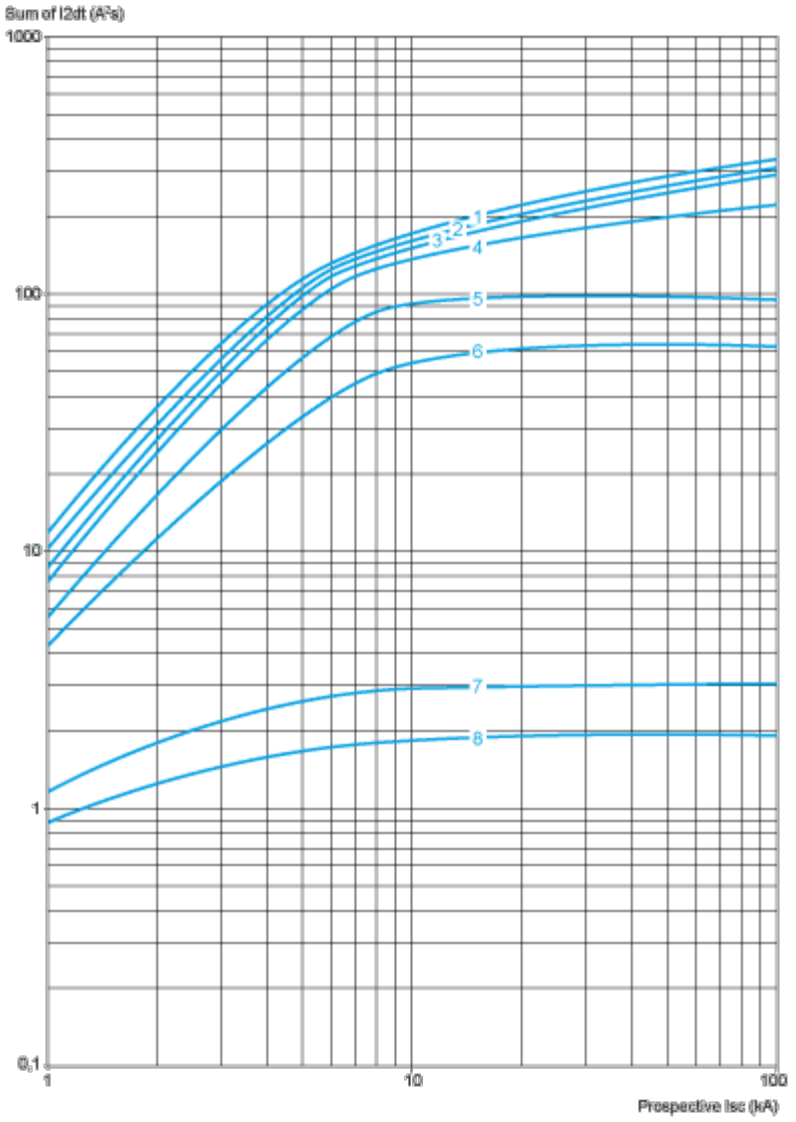


1 GV4L115
2 GV4L80
3 GV4L50
4 GV4L25
5 GV4L12
6 GV4L07
7 GV4L03
8 GV4L02

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^2dt = 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

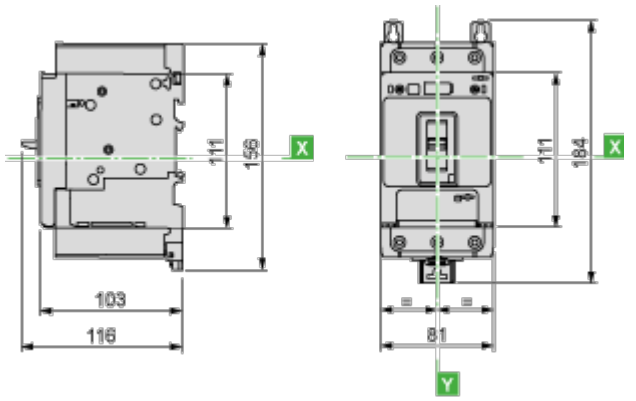
7 GV4L03+ LRD07

8 GV4L02 + LRD07

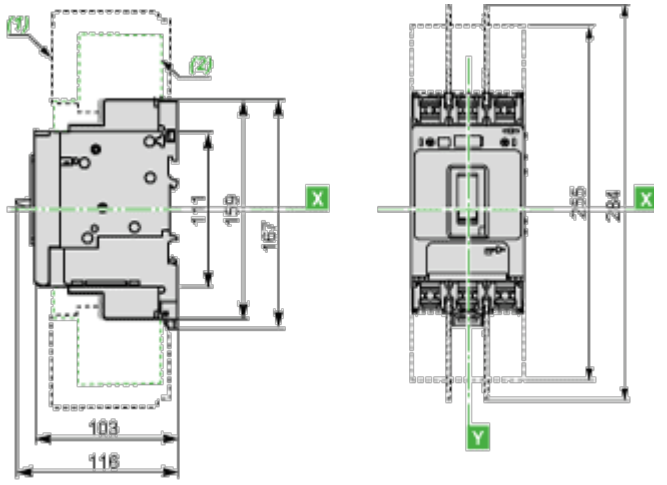
Dimensions Drawings

GV4 with Toggle: GV4LE, GV4PE, GV4PEM

With EverLink® Connector



With Crimp Lug Connector

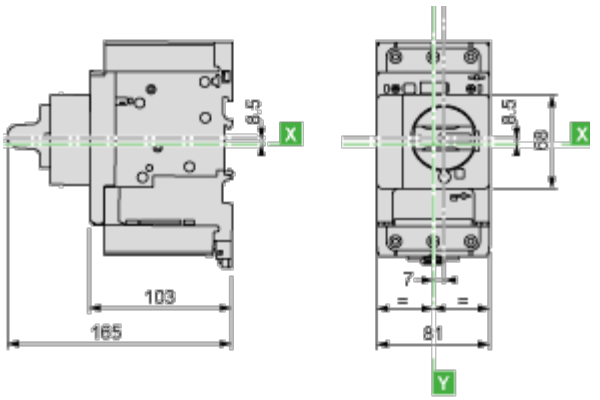


(1) Interphases barriers

(2) Long terminal shield

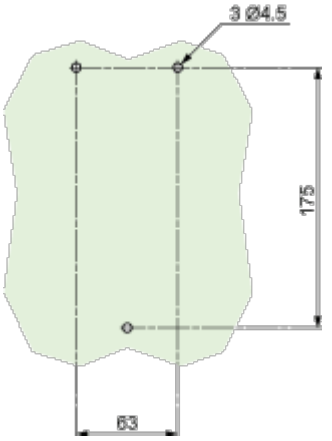
GV4 with Rotary Handle: GV4L, GV4P, or GV4LE, GV4PE, GV4PEM with GV4ADN01, GV4ADN02 Direct Mounting Rotary Handle

Dimensions

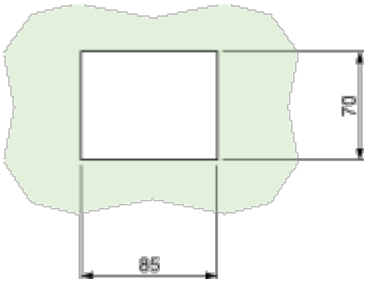


GV4L, GV4P, GV4LE, GV4PE, GV4PEM

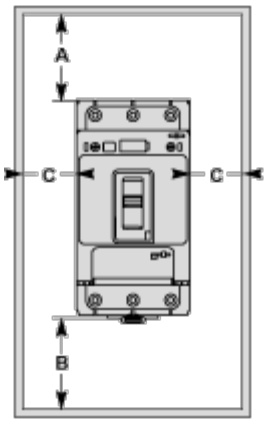
Panel Mounting with M4 Screws



Door Cut-Out for Rotary Handle



Minimum Safety Clearance



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

Safety Clearance (mm)						
	Painted Sheet Metal			Bare Sheet Metal		
	A	B	C	A	B	C
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