Productinformatieblad

Specificaties

Magnetische motorbeveiligingssch. GV4L - 115A 3P 25kA - draaibed. - EverLink

GV4L115B

Hoofdkenmerken

productgamma	TeSys GV4
gamma	Tesys deca
korte naam apparaat	GV4L
productnaam	TeSys GV4
type product of component	Motor vermogensschakelaar
apparaattoepassing	Motorbeveiliging
technologie uitschakeleenheid	Magnetisch Elektronisch

Complementaire kenmerken

beschrijving polen	3P
gebruikscategorie	Categorie A conform IEC 60947-2 AC-3 conform IEC 60947-4-1
bedieningspositie	Eender welke positie
motorvermogen kW	37 kW bij 400...415 V AC 50/60 Hz 45 kW bij 400...415 V AC 50/60 Hz 55 kW bij 400...415 V AC 50/60 Hz 45 kW bij 500 V AC 50/60 Hz 55 kW bij 500 V AC 50/60 Hz 75 kW bij 500 V AC 50/60 Hz 75 kW bij 660...690 V AC 50/60 Hz 90 kW bij 660...690 V AC 50/60 Hz 110 kW bij 660...690 V AC 50/60 Hz
uitschakelvermogen	50 kA Icu bij 220...240 V AC 50/60 Hz conform IEC 60947-2 25 kA Icu bij 380...415 V AC 50/60 Hz conform IEC 60947-2 20 kA Icu bij 440 V AC 50/60 Hz conform IEC 60947-2 10 kA Icu bij 500 V AC 50/60 Hz conform IEC 60947-2
type bediening	Draaihendel
[In] nominale stroom	115 A
magnetische uitschakelstroom	690…1610 A
[Ue] nominale bedrijfspanning	690 V AC 50/60 Hz conform IEC 60947-2
[Ui] nominale isolatiespanning	800 V AC 50/60 Hz conform IEC 60947-2
[Ith] conventionele thermische stroom in vrije lucht	115 A conform IEC 60947-4-1
[Uimp] nominale stoothoudspanning	8 kV conform IEC 60947-2
vermogensdissipatie per pool	6,1 W
mechanische levensduur	40000 cycli
elektrische levensduur	10000 cycli voor AC-3 bij 440 V In/2 5000 cycli voor AC-3 bij 440 V In

Disclaimer: Deze documentatie is niet bedoeld als vervanging voor en mag niet worden gebruikt voor het bepalen van de geschiktheid of betrouwbaarheid van deze producten voor specifieke gebruikerstoepassingen

Maximale bedrijfssnelheid	25 cyc/u
nominale werking	Continu conform IEC 60947-4-1
aansluitingen - klemmen	EverLink BTR schroefconnectoren (bovenkant) 1 kabel(s) 1,5…70 mm² - rigide EverLink BTR schroefconnectoren (bovenkant) 1 kabel(s) 1,5…50 mm² - flexibel EverLink BTR schroefconnectoren (onder) 1 kabel(s) 2,5…95 mm² - rigide EverLink BTR schroefconnectoren (onder) 1 kabel(s) 2,5…70 mm² - flexibel
aandraaimoment	9 N.m voor kabel 16…95 mm² 5 N.m voor kabel 1,5…10 mm²
mechanische stevigheid	Trillingen: +/- 1 mm 2...13.2 Hz conform IEC 60068-2-6 Trillingen: 0,7 gn 13.2...100 Hz conform IEC 60068-2-6 Schokken: 15 gn 11 ms conform IEC 60068-2-27
hoogte	155 mm
breedte	81 mm
diepte	165 mm
gewicht product	1,65 kg
kleur	Grijs (RAL 7016)
geschiktheid voor isolatie	Ja conform IEC 60947-1

Omgeving

normen	EN/IEC 60947-4-1 EN/IEC 60947-2
productcertificeringen	IEC CCC EAC EU-RO MR
klimatologische bestendigheid	conform IACS E10
IK beschermingsgraad	IK07 conform IEC 62262
vervuilingsgraad	3
IP-beschermingsgraad	IP40 conform IEC 60529
omgevingstemperatuur bij opslag	-50…85 °C
vuurbestendigheid	960 °C conform IEC 60695-2-11
bedrijfshoogte	5000 m
omgevingstemperatuur voor werking	-25…70 °C

Verpakkingseenheden

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10,500 cm
Package 1 Width	20,800 cm
Package 1 Length	22,000 cm
Package 1 Weight	1,834 kg
Unit Type of Package 2	S03
Number of Units in Package 2	3
Package 2 Height	30,000 cm
Package 2 Width	30,000 cm
Package 2 Length	40,000 cm

Package 2 Weight	5,879 kg

Contractuële waarborg

Garantie	18 months

Environmental Data

Schneider Electric wil tegen 2050 de Net Zero-status hebben bereikt via partnerschappen in de toeleveringsketen, materialen met een lagere impact en circulariteit via onze doorlopende campagne "Use Better, Use Longer, Use Again" om de levensduur van producten en de recycleerbaarheid te verlengen.

Uitleg van Environmental Data >

Hoe evalueren we de duurzaamheid van producten? >

Milieuvoetafdruk

Milieurapportage	Milieuprofiel van het product

Use Better

Materialen en verpakking

Pakket met gerecycleerd karton	Nee
Verpakkingen zonder kunststof	Ja
RoHS-richtlijn EU	In overeenstemming met vrijstellingen
SCIP-nummer	1b259a2c-3a3c-401a-acdd-f0837efd4018
REACh-regeling	REACh-verklaring
RoHS-verordening China	RoHS-verklaring China
PVC-vrij	Ja

Use Again

Herverpakken en herfabriceren

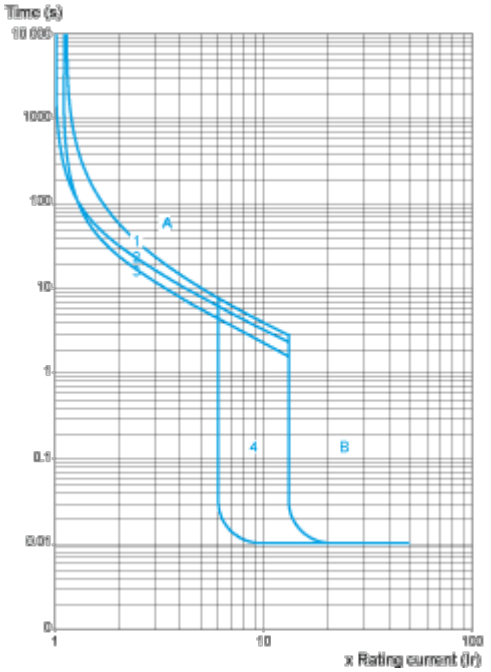
Circulariteitsprofiel	Informatie over einde levensduur
WEEE	Het product moet na specifieke afvalinzameling op de markten van de Europese Unie worden afgezet en mag nooit in vuilnisbakken belanden
Prestaties halogeengehalte	Halogeenvrije kunststof onderdelen product
Terugname	No

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

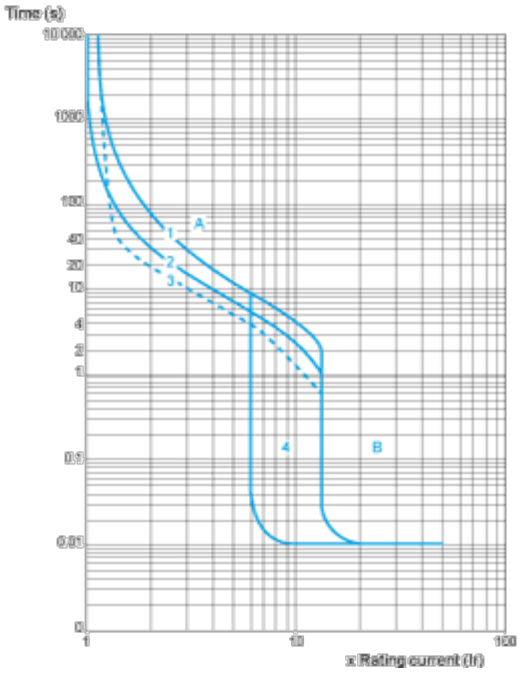
3 3 poles from hot state

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

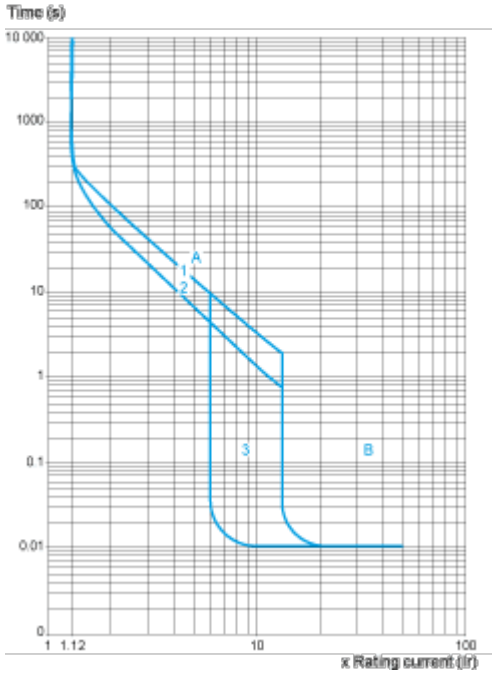
3 3 poles from hot state

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

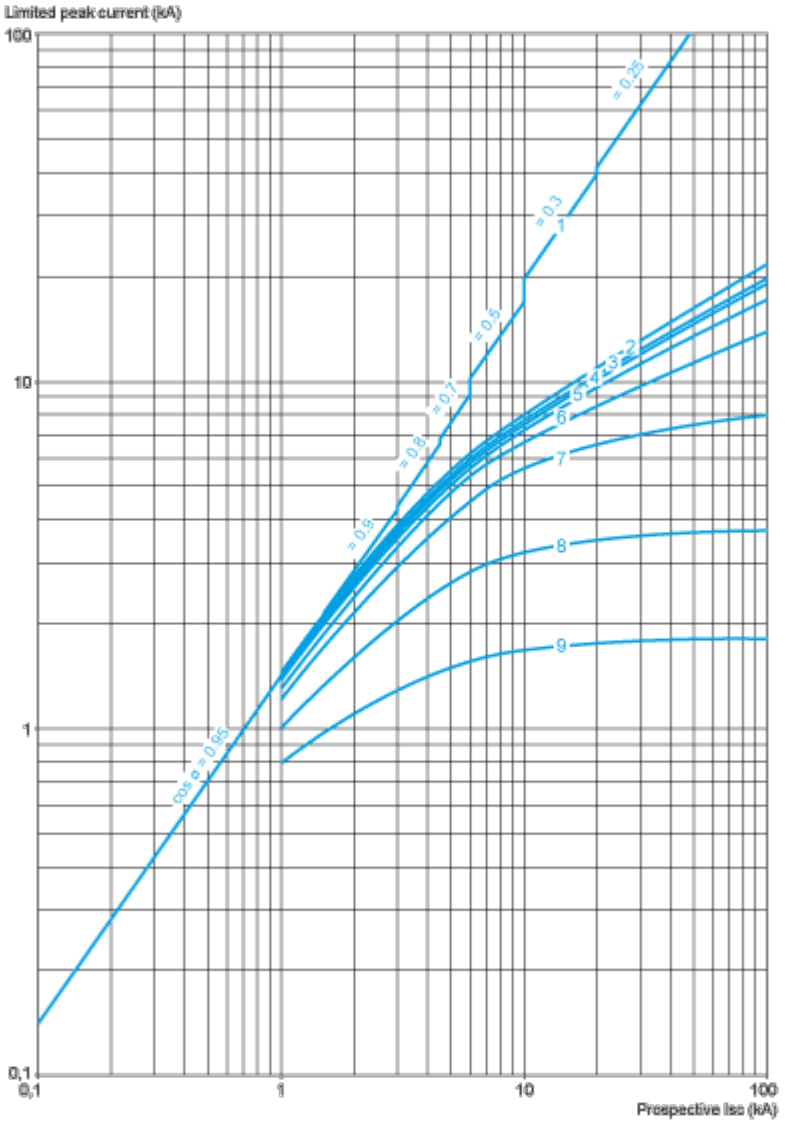
2 Hot state curve

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

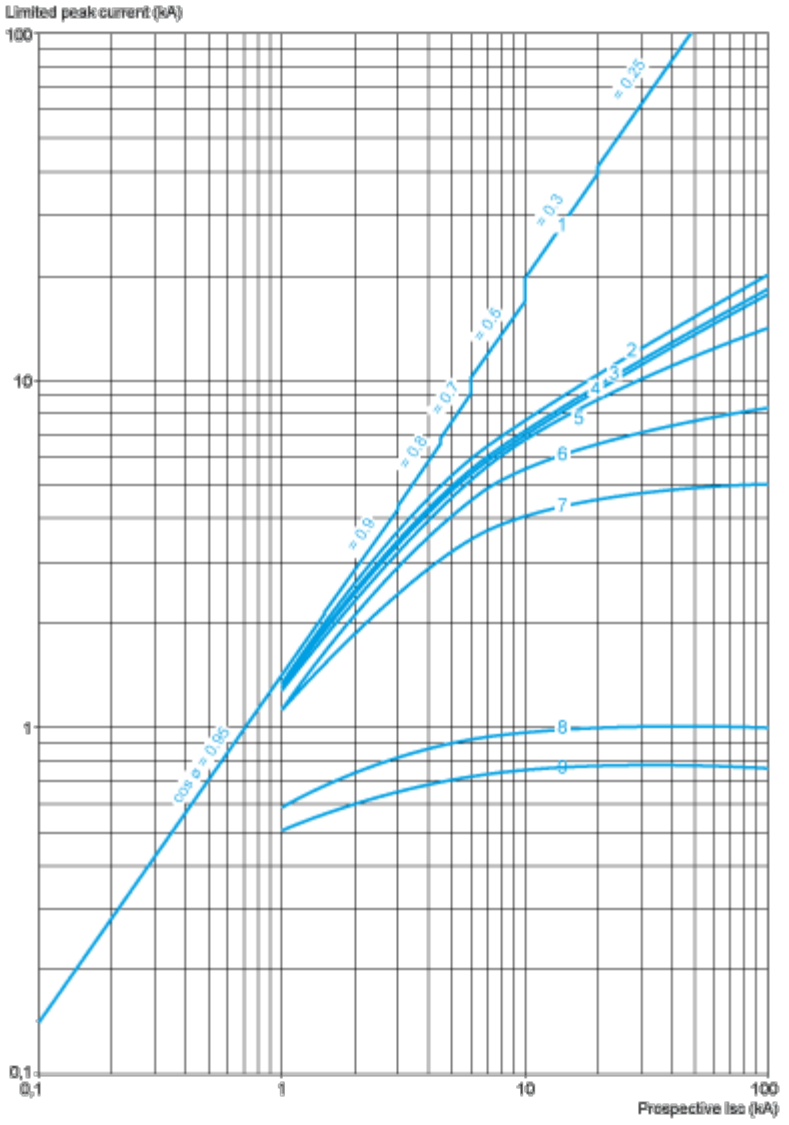


1	Maximum peak current
2	GV4L115
3	GV4L80
4	GV4L50
5	GV4L25
6	GV4L12
7	GV4L07
8	GV4L03
9	GV4L02

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

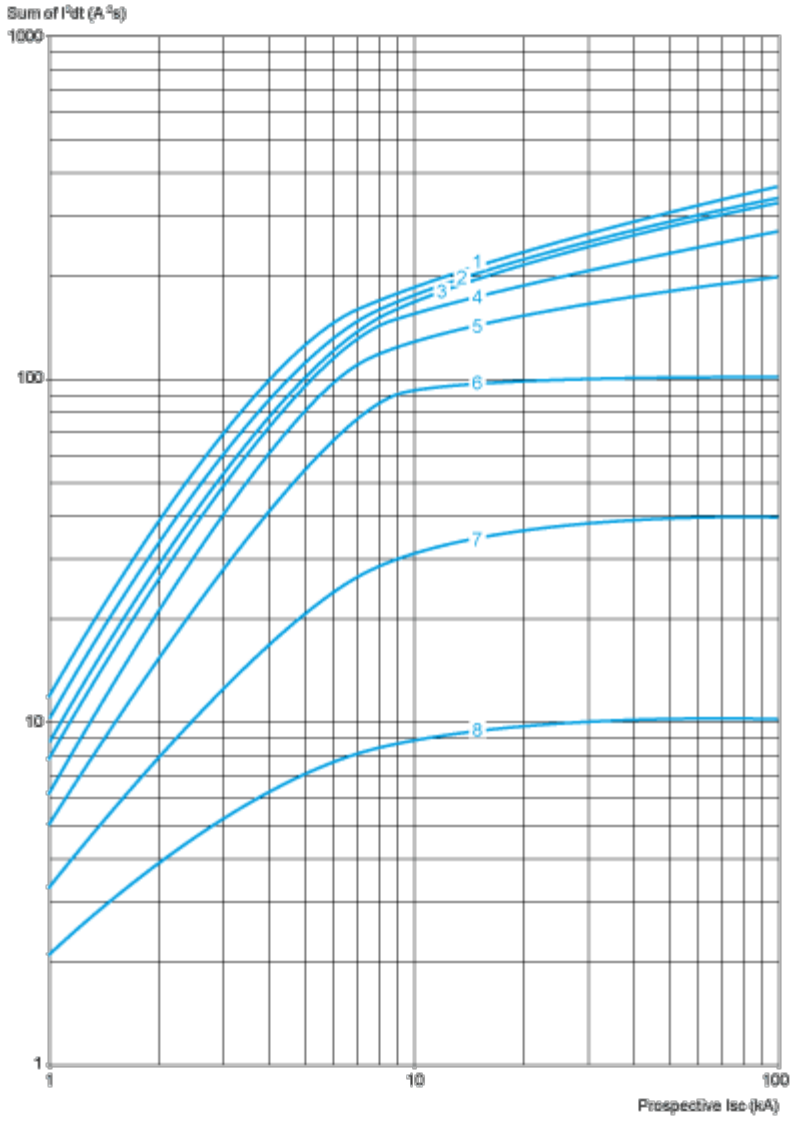
8 GV4L03 + LRD07

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

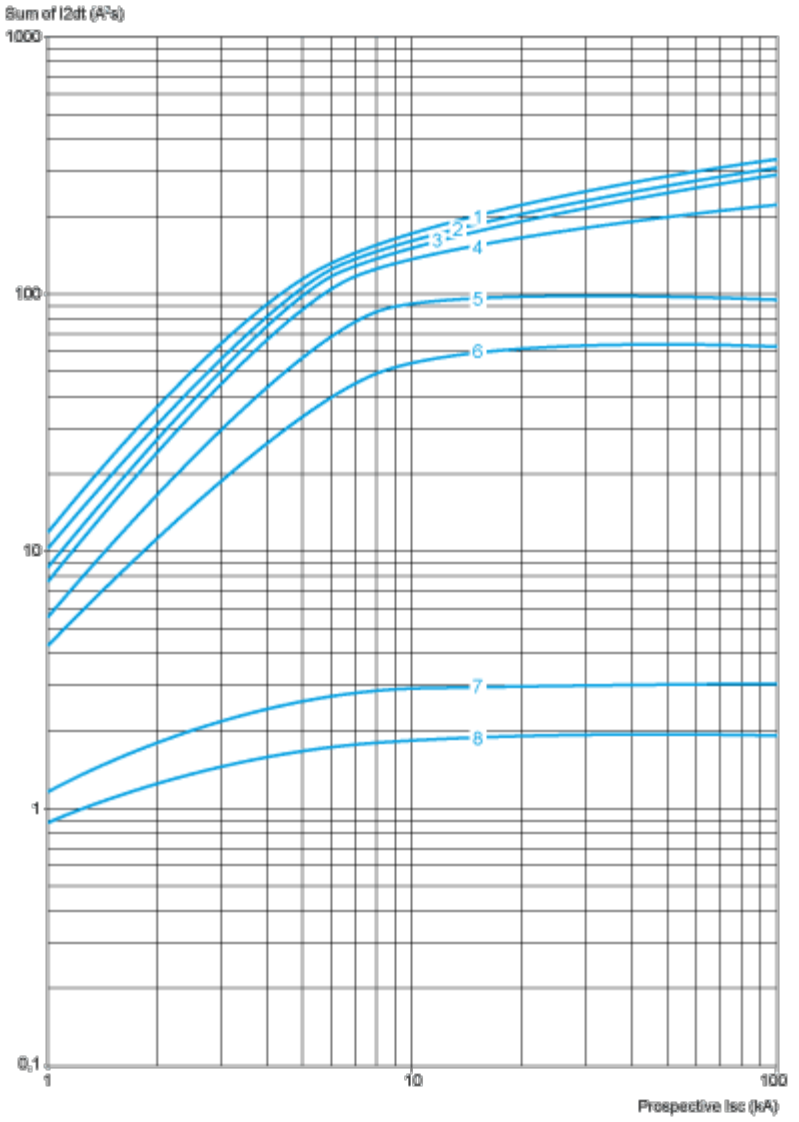
7 GV4L03

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

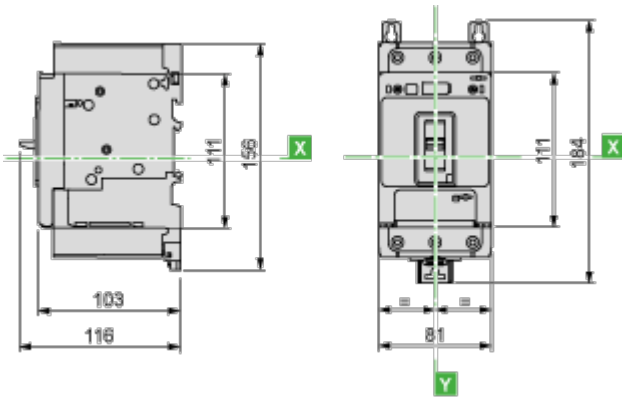
7 GV4L03+ LRD07

8 GV4L02 + LRD07

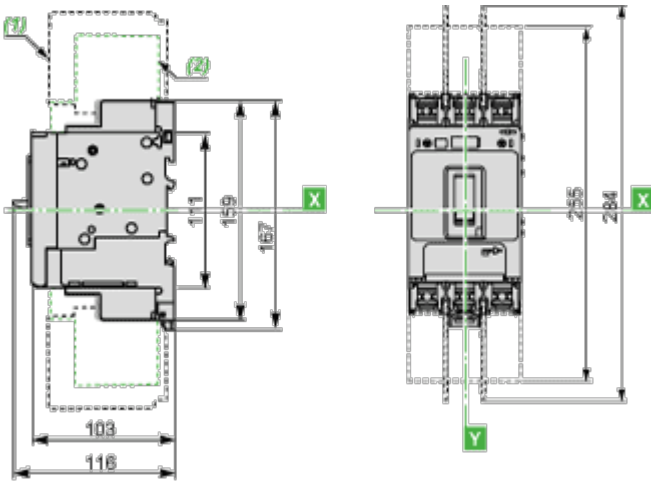
Dimensions Drawings

GV4 with Toggle: GV4LE, GV4PE, GV4PEM

With EverLink® Connector



With Crimp Lug Connector

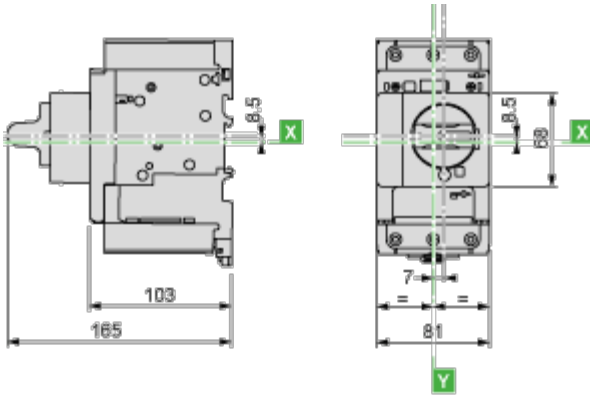


(1) Interphases barriers

(2) Long terminal shield

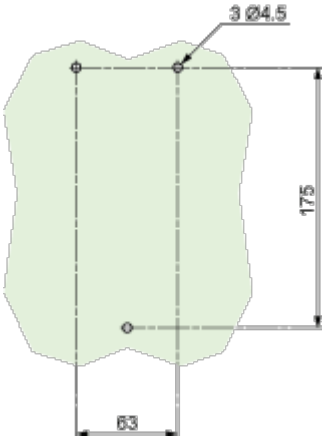
GV4 with Rotary Handle: GV4L, GV4P, or GV4LE, GV4PE, GV4PEM with GV4ADN01, GV4ADN02 Direct Mounting Rotary Handle

Dimensions

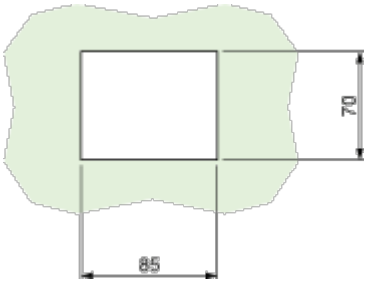


GV4L, GV4P, GV4LE, GV4PE, GV4PEM

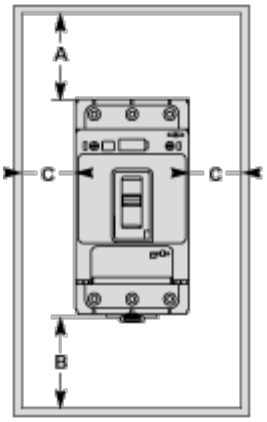
Panel Mounting with M4 Screws



Door Cut-Out for Rotary Handle

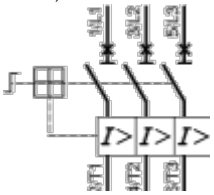


Minimum Safety Clearance



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