

Product datasheet

Specifications



Motor circuit breaker. TeSys GV4.
3P. 80A. Icu 100kA. thermal
magnetic. Everlink terminals

GV4PE80S

Price: 20,698.39 ZAR

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 400...415 V AC 50/60 Hz 45 kW at 500 V AC 50/60 Hz 22 kW at 400...415 V AC 50/60 Hz 30 kW at 500 V AC 50/60 Hz 37 kW at 660...690 V AC 50/60 Hz 45 kW at 660...690 V AC 50/60 Hz 55 kW at 660...690 V AC 50/60 Hz 30 kW at 400...415 V AC 50/60 Hz 37 kW at 500 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 60947-2 100 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 660...690 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	80 A
Magnetic Tripping Current	1360 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

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[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	14000 cycles for AC-3 at 440 V In/2 7000 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
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

Standards	CSA C22.2 No 60947-4-1 UL 60947-4-1 EN/IEC 60947-4-1 EN/IEC 60947-2
Product Certifications	IEC UL CSA CCC EAC ATEX 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	17.0 cm

Package 1 Width	11.0 cm
Package 1 Length	22.0 cm
Package 1 Weight	1.68 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
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Sustainability

Green Premium™ 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-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

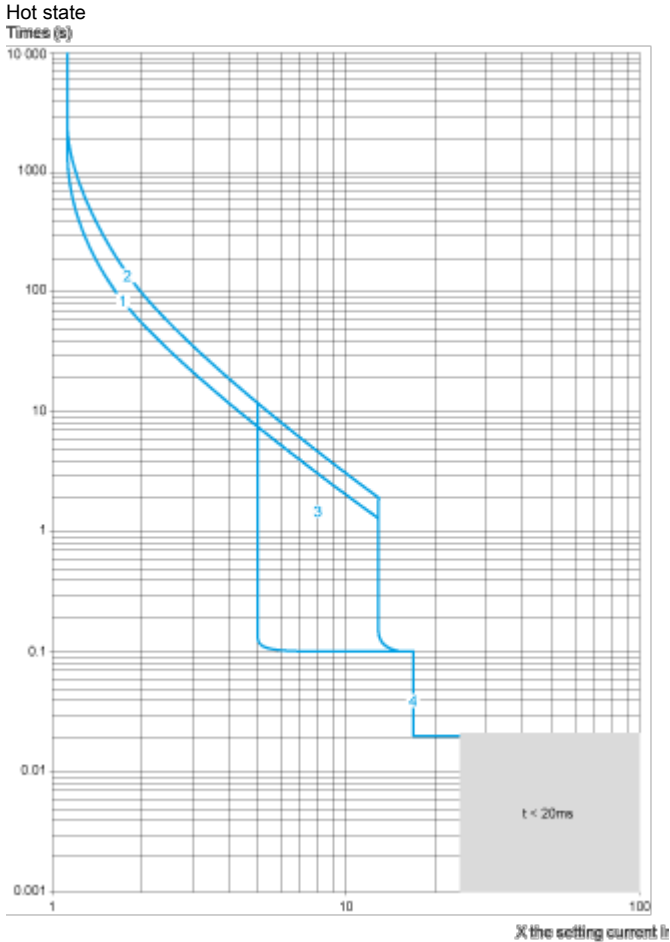
✓	Mercury Free	
✓	Rohs Exemption Information	Yes
✓	Pvc Free	
✓	Halogen Free Plastic Parts Product	

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

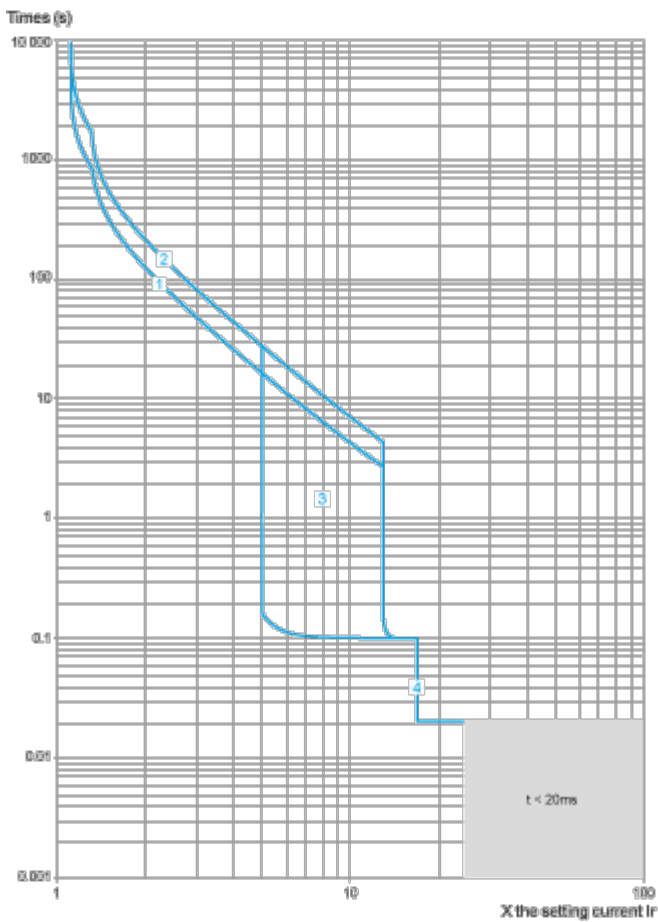
Performance Curves

Thermal-Magnetic Tripping Curves for GV4P, GV4PE, GV4PEM
Average Operating Times at 20 °C Related to Multiples of the Setting Current



- 1 Class 10
- 2 Class 20
- 3 $I_{sd} = 5 \dots 13 \times I_r$
- 4 $I_i = 17 I_n$

Cold state

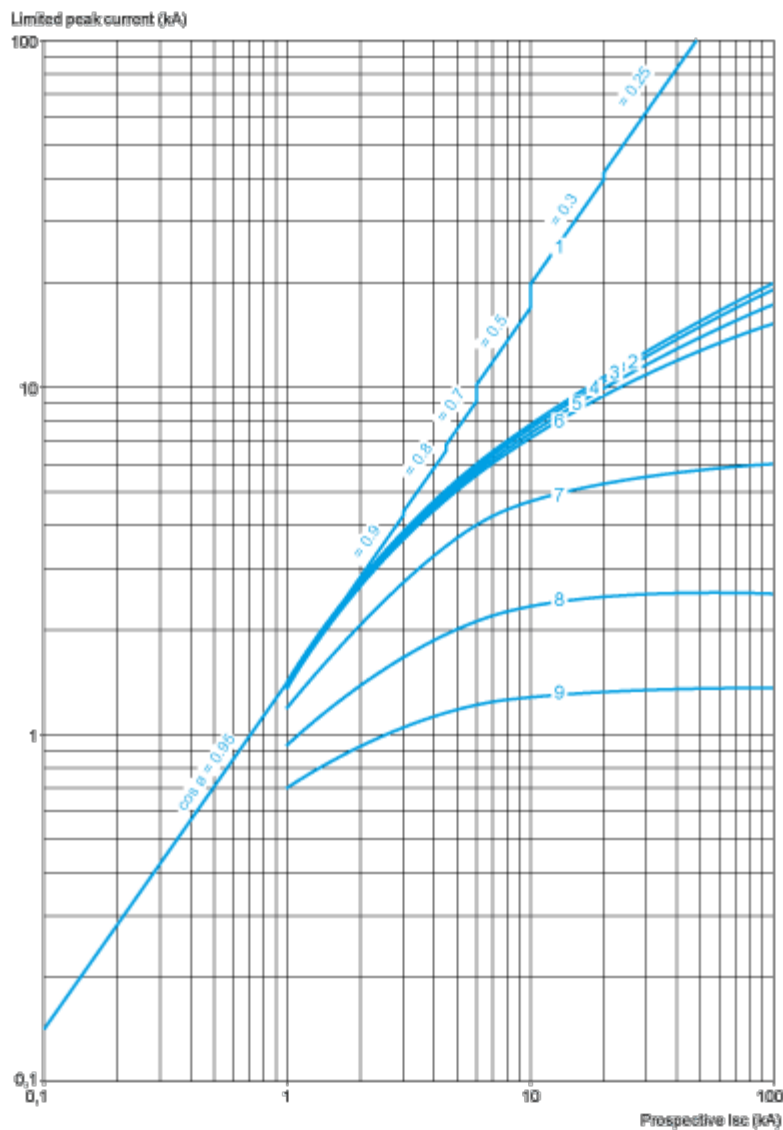


- 1 Class 10
- 2 Class 20
- 3 $I_{sd} = 5...13 \times I_r$
- 4 $I_i = 17 I_n$

Current Limitation on Short-Circuit for GV4P, GV4PE, GV4PEM (3-Phase 400/415 V)

Dynamic Stress

$I_{peak} = f(\text{prospective } I_{sc})$ at $1.05 U_e = 435 \text{ V}$

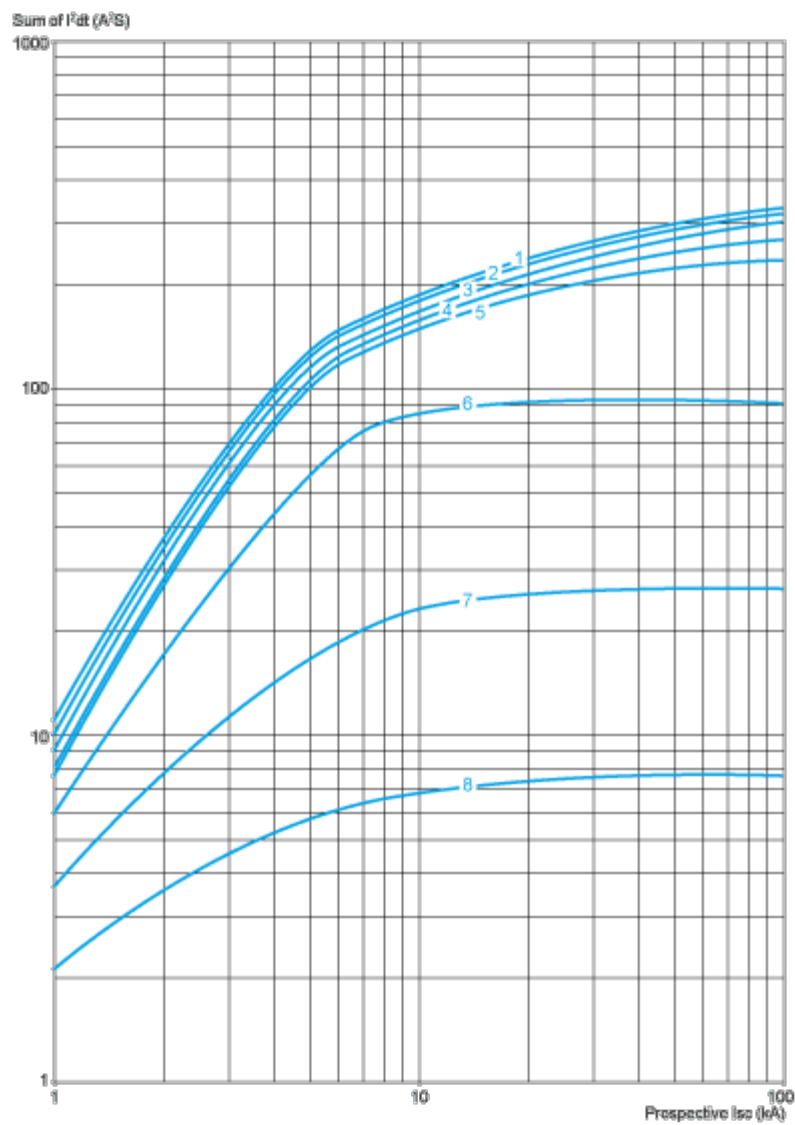


- 1 Maximum peak current
- 2 GV4P115
- 3 GV4P80
- 4 GV4P50
- 5 GV4P25
- 6 GV4P12
- 7 GV4P07
- 8 GV4P03
- 9 GV4P02

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

Thermal Limit in kA^2s in the Magnetic Operating Zone

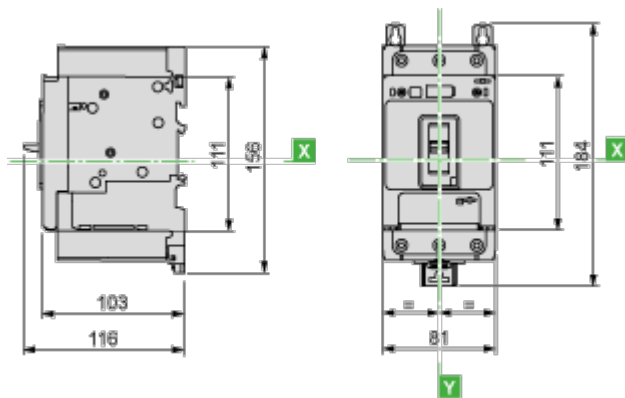
Sum of $I^2 dt = f$ (prospective Isc) at $1.05 U_e = 435 \text{ V}$



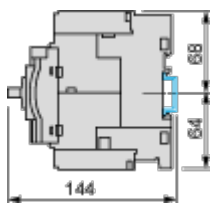
- 1 GV4P115
- 2 GV4P80
- 3 GV4P50
- 4 GV4P25
- 5 GV4P12
- 6 GV4P07
- 7 GV4P03
- 8 GV4P02

Dimensions Drawings

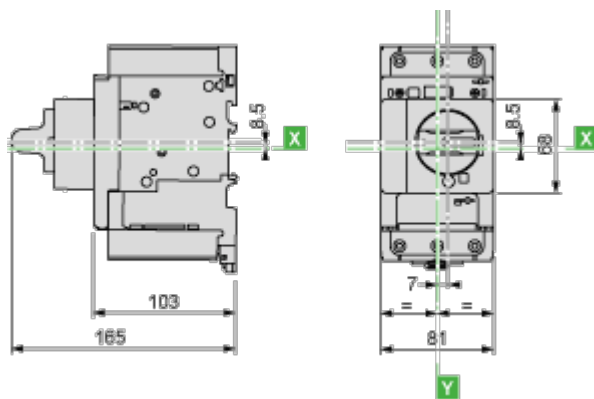
GV4 with Toggle: GV4LE, GV4PE, GV4PEM
With EverLink® Connector



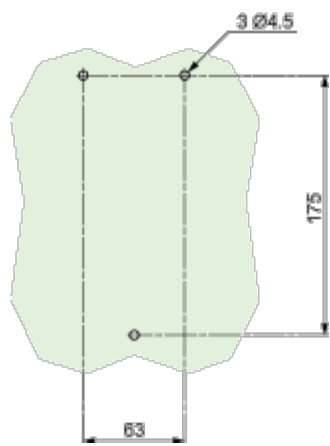
With Crimp Lug Connector



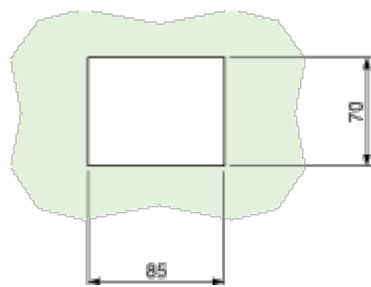
GV4 with Rotary Handle: GV4L, GV4P, or GV4LE, GV4PE, GV4PEM with GV4ADN01, GV4ADN02 Direct Mounting Rotary Handle
Dimensions



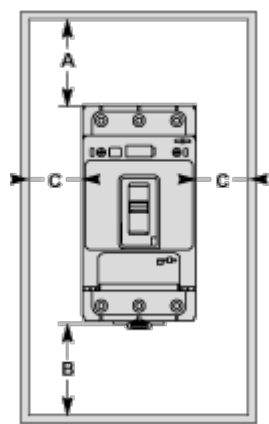
GV4L, GV4P, GV4LE, GV4PE, GV4PEM
Panel Mounting with M4 Screws



Door Cut-Out for Rotary Handle



Minimum Safety Clearance



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

	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
GV4P, GV4PE, GV4PEM

