Specifications



① Discontinued

Motor circuit breaker, TeSys GV4, 3P, 50A, Icu 25kA, thermal magnetic, lugs terminals

GV4PE50B6

Uiscontinued on: Dec 29, 2023

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	Electronic
	Thermal-magnetic

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	11 kW at 400415 V AC 50/60 Hz
	15 kW at 500 V AC 50/60 Hz
	18.5 kW at 660690 V AC 50/60 Hz
	15 kW at 400415 V AC 50/60 Hz
	18.5 kW at 400415 V AC 50/60 Hz
	22 kW at 400415 V AC 50/60 Hz
	18.5 kW at 500 V AC 50/60 Hz
	22 kW at 500 V AC 50/60 Hz
	30 kW at 500 V AC 50/60 Hz
	22 kW at 660690 V AC 50/60 Hz
	30 kW at 660690 V AC 50/60 Hz
	37 kW at 660690 V AC 50/60 Hz
	45 kW at 660690 V AC 50/60 Hz
Breaking Capacity	50 kA Icu at 220240 V AC 50/60 Hz conforming to IEC 60947-2
	25 kA Icu at 380415 V AC 50/60 Hz conforming to IEC 60947-2
	20 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2
	10 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2
	35 kA at 208Y/120 V AC 50/60 Hz conforming to UL 60947
	35 kA at 240 V AC 50/60 Hz conforming to UL 60947
	18 kA at 480Y/277 V AC 50/60 Hz conforming to UL 60947
	14 kA at 600Y/347 V AC 50/60 Hz conforming to UL 60947
Control Type	Toggle
[In] Rated Current	50 A
Magnetic Tripping Current	850 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	4.6 W				
Mechanical Durability	40000 cycles				
Electrical Durability	20000 cycles for AC-3 at 440 V In/2 10000 cycles for AC-3 at 440 V In				
Maximum Operating Rate	25 cyc/h				
Rated Duty	Continuous conforming to IEC 60947-4-1				
Connection Pitch	27 mm without spreaders 35 mm with spreaders				
Connections - Terminals	Lugs-ring terminals				
Tightening Torque	9 N.m for cable 1695 mm ² 5 N.m for cable 1.510 mm ²				
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				
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	-5085 °C
Fire Resistance	960 °C conforming to IEC 60695-2-11
Operating Altitude	5000 m
Ambient Air Temperature For Operation	-2570 °C

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	17 cm
Package 1 Width	11 cm
Package 1 Length	22 cm
Package 1 Weight	1.428 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	5
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	9.5 kg
Unit Type Of Package 3	PAL
Number Of Units In Package 3	256
Package 3 Height	110 cm
Package 3 Width	80 cm
Package 3 Length	120 cm
Package 3 Weight	396 kg

Contractual warranty

Warranty

18 months

Sustainability

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 >



Eq

Transparency RoHS/REACh

Well-being performance

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

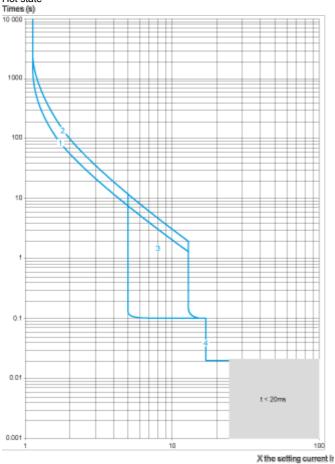
Certifications & Standards

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

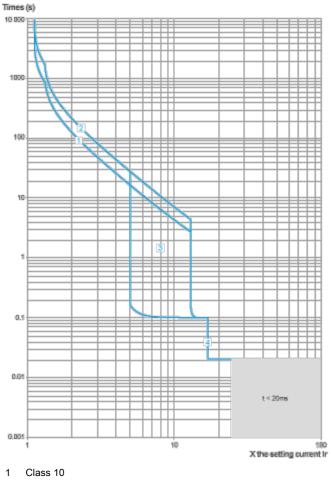
Thermal-Magnetic Tripping Curves for GV4P, GV4PE, GV4PEM

Average Operating Times at 20 °C Related to Multiples of the Setting Current Hot state



- 1 Class 10
- 2 Class 20
- 3 Isd = 5...13x Ir
- 4 li = 17 ln

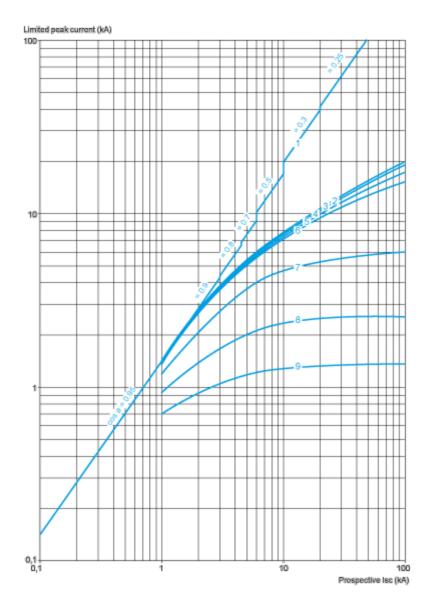
Cold state



- 2 Class 20
- 3 Isd = 5...13x Ir
- 4 li = 17 ln

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

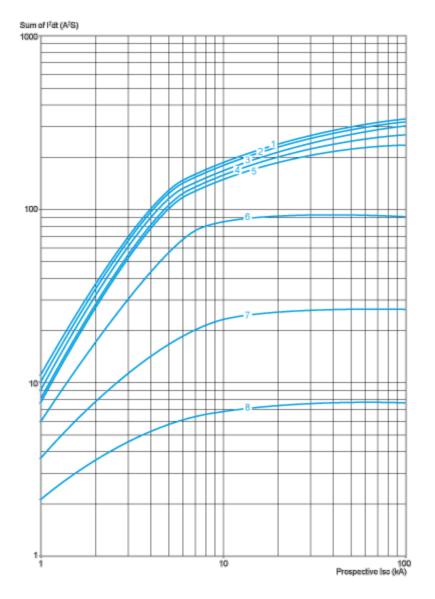
I peak = f (prospective lsc) at 1.05 Ue = 435 V



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

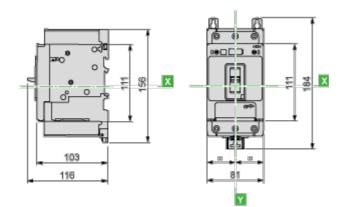
Thermal Limit on Short-Circuit for GV4P, GV4PE, GV4PEM

Thermal Limit in kA²2s in the Magnetic Operating Zone Sum of I^{2} dt = f (prospective Isc) at 1.05 Ue = 435 V

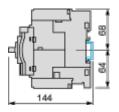


- 1 GV4P115
- 2 GV4P80
- 3 GV4P50
- 4 GV4P25
- 5 GV4P12
- 6 GV4P07
- 7 GV4P03
- 8 GV4P02

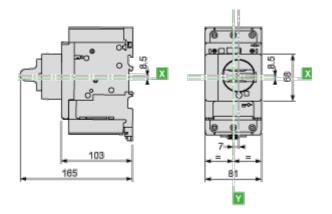
GV4 with Toggle: GV4LE, GV4PE, GV4PEM With EverLink® Connector



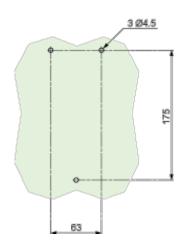
With Crimp Lug Connector



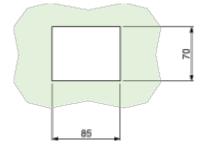
GV4 with Rotary Handle: GV4L, GV4P, or GV4LE, GV4PE, GV4PEM with GV4ADN01, GV4ADN02 Direct Mounting Rotary Handle Dimensions



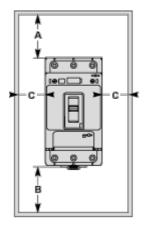
GV4L, GV4P, GV4LE, GV4PE, GV4PEM Panel Mounting with M4 Screws



Door Cut-Out for Rotary Handle



Minimum Safety Clearance



Toggle-type, rotary handle-type: identical clearance values. Safety Clearance (mm)

Salety Clearance (mm)						
	Painted Sheet Metal			Bare Sheet Metal		
	A	В	С	A	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 GV4P, GV4PE, GV4PEM