

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

GV4P50N6

Main

Range Of Product	TeSys GV4
Range	TeSys Deca TeSys Deca
Device Short Name	GV4P
Product Name	TeSys GV4 TeSys Deca
Product Or Component Type	Motor circuit breaker
Device Application	Motor protection
Trip Unit Technology	Electronic Thermal-magnetic

Complementary

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	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				
	65 kA at 208Y/120 V AC 50/60 Hz conforming to UL 60947				
	65 kA at 240 V AC 50/60 Hz conforming to UL 60947				
	35 kA at 480Y/277 V AC 50/60 Hz conforming to UL 60947				
	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				
	18 kA at 600Y/347 V AC 50/60 Hz conforming to UL 60947				
Control Type	Rotary handle				
[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	165 mm
Net Weight	1.6 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	

PCE

Unit Type Of Package 1

Number Of Units In Package 1	1
Package 1 Height	21.0 cm
Package 1 Width	10.5 cm
Package 1 Length	22.0 cm
Package 1 Weight	1.602 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 >

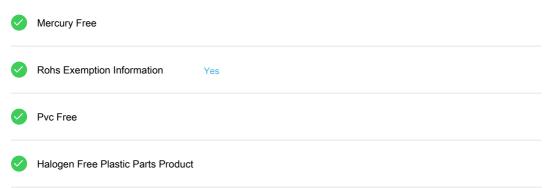
Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



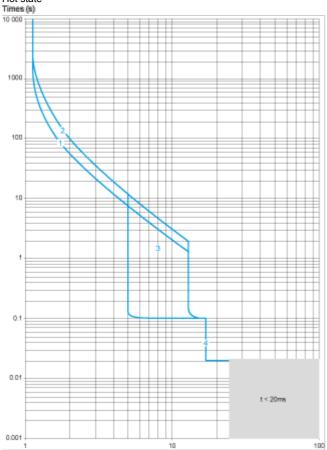
Certifications & Standards

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 $^{\circ}\text{C}$ Related to Multiples of the Setting Current Hot state



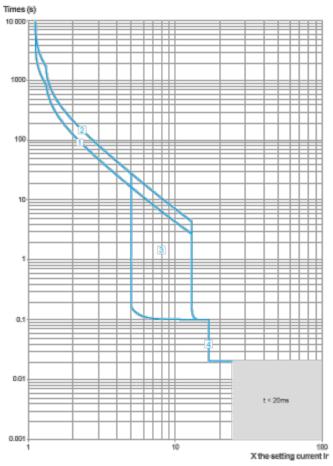
X the setting current in

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

Cold state

Product data sheet

GV4P50N6

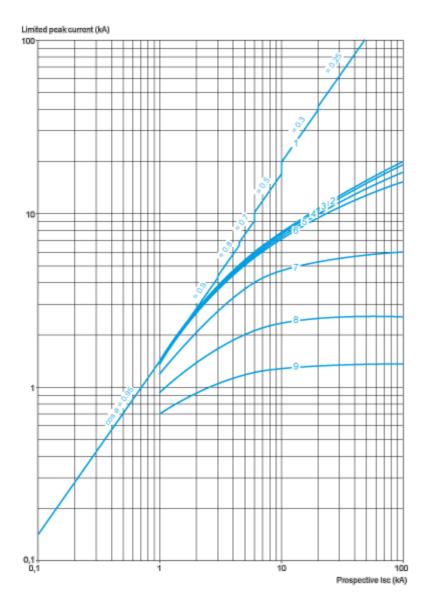


- 1 Class 10
- 2 Class 20
- 3 Isd = 5...13x Ir
- 4 li = 17 ln

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

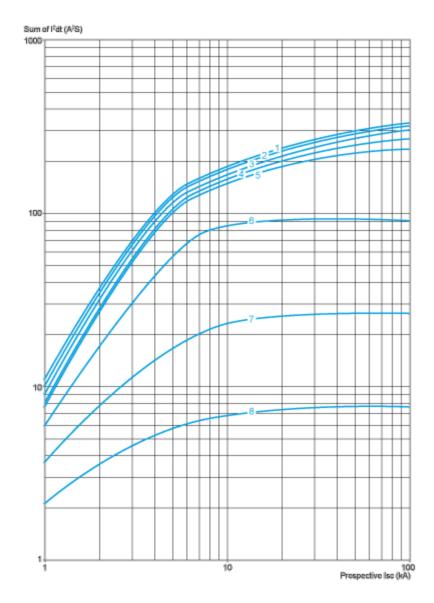
Thermal Limit on Short-Circuit for GV4P, GV4PE, GV4PEM

Thermal Limit in kA²2s in the Magnetic Operating Zone

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

Product data sheet

GV4P50N6

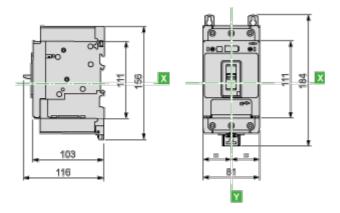


- 1 GV4P115
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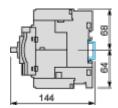
Dimensions Drawings

GV4 with Toggle: GV4LE, GV4PE, GV4PEM

With EverLink® Connector

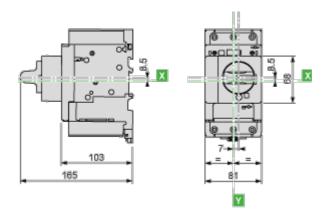


With Crimp Lug Connector



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

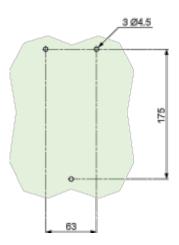
Dimensions



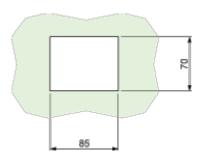
GV4L, GV4P, GV4LE, GV4PE, GV4PEM

Panel Mounting with M4 Screws

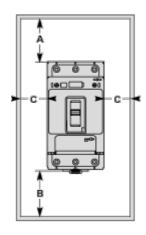
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Door Cut-Out for Rotary Handle



Minimum Safety Clearance



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

Safety Clearance (mm)								
	Painted Sheet Metal			Bare Sheet Metal				
	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 GV4P, GV4PE, GV4PEM



