GV4PEM07N6

TeSys Deca, Motor circuit breaker, TeSys GV4, 3P, 7A, Icu 50kA, thermal magnetic multifunction, lugs terminals





Main	
Range of product	TeSys GV4
Range	TeSys Deca TeSys Deca
Device short name	GV4PEM
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	1.5 KW at 400415 V AC 50/60 Hz 2.2 KW at 400415 V AC 50/60 Hz 2.5 KW at 400415 V AC 50/60 Hz 3 KW at 400415 V AC 50/60 Hz 2.2 KW at 500 V AC 50/60 Hz 2.5 KW at 500 V AC 50/60 Hz 3 KW at 500 V AC 50/60 Hz 4 KW at 500 V AC 50/60 Hz 4 KW at 500 V AC 50/60 Hz 5 KW at 660690 V AC 50/60 Hz 4 KW at 660690 V AC 50/60 Hz 5.5 KW at 660690 V AC 50/60 Hz 7.5 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	Toggle				
[In] rated current	7 A				
Magnetic tripping current	119 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	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				

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability of these products for specific user applications. This characteristic is not integrated to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Connection pitch	27 Mm without spreaders 35 mm with spreaders			
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Connections - terminals	Lugs-ring terminals			
Tightening torque	9 N.M for cable 1695 mm ²			
	5 N.m for cable 1.510 mm²			
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[RETURN]UL[RETURN]CSA[RETURN]CCC[RETURN]EAC[RETURN]ATEX[RETURN]EURO 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	17.0 cm		
Package 1 Width	11.0 cm		
Package 1 Length	22.0 cm		
Package 1 Weight	1.542 kg		

Offer Sustainability

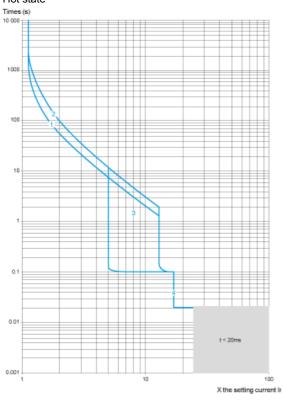
Sustainable offer status	Green Premium product				
REACh Regulation	☑ REACh Declaration				
EU RoHS Directive	Compliant with Exemptions				
Mercury free	Yes				
China RoHS Regulation	China RoHS Declaration				
RoHS exemption information	₫Yes				
Environmental Disclosure	Product Environmental Profile				
Circularity Profile	End Of Life Information				
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins				
PVC free	Yes				
Halogen content performance	Halogen free plastic parts product				

Contractual warranty

Warranty	18 months

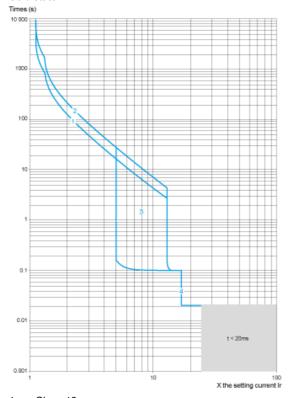
Thermal-Magnetic Tripping Curves for GV4P, GV4PE, GV4PEM

Average Operating Times at 20 $^{\circ}\text{C}$ Related to Multiples of the Setting Current Hot state



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

Cold state

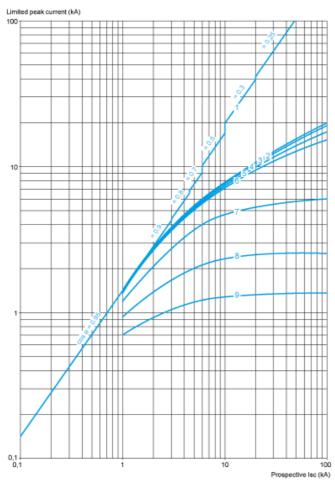


- Class 10 1
- 2 Class 20
- lsd = 5...13x lr
- 4 li = 17 ln

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

Dynamic Stress

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



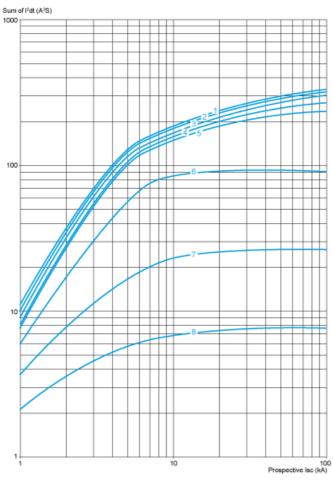
- Maximum peak current GV4P115 1
- 2
- GV4P80
- 3 4 GV4P50
- 5 GV4P25
- GV4P12 6
- GV4P07
- 8 GV4P03
- GV4P02 9

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

Thermal Limit in kA²2s in the Magnetic Operating Zone

Sum of I²dt = f (prospective lsc) at 1.05 Ue = 435 V





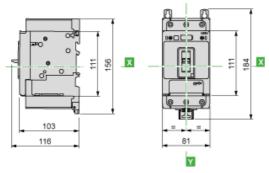
- GV4P115 GV4P80 GV4P50
- 1 2 3 4 5 6 7 8

- GV4P30 GV4P25 GV4P12 GV4P07
- GV4P03 GV4P02

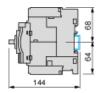
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GV4 with Toggle: GV4LE, GV4PE, GV4PEM

With EverLink® Connector

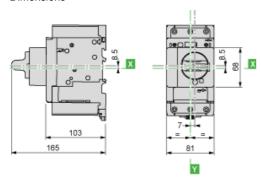


With Crimp Lug Connector



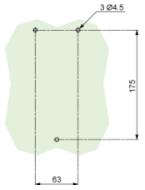
GV4 with Rotary Handle: GV4L, GV4P, or GV4LE, GV4PE, GV4PEM with GV4ADN01, GV4ADN02 Direct Mounting Rotary Handle

Dimensions

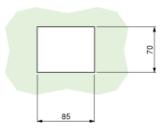


GV4L, GV4P, GV4LE, GV4PE, GV4PEM

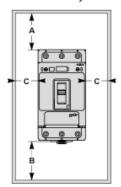
Panel Mounting with M4 Screws



Door Cut-Out for Rotary Handle



Minimum Safety Clearance



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

Safety Clearance (mm)						
	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

GV4PEM07N6

Magnetic Motor Circuit Breakers GV4P, GV4PE, GV4PEM

