



### Main

Range	TeSys
Product name	TeSys GV4
Device short name	GV4P
Circuit breaker functionalities	Circuit breaker
Device application	Motor
Protection type	Overload Phase loss Ground fault protection Short-circuit Phase unbalance Short time short-circuit protection
Utilisation category	Category A
Suitability for isolation	Yes conforming to IEC 60947-1
Poles description	3P
[Ue] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
[In] rated current	7 A
Trip unit technology	Thermal-magnetic Electronic
Thermal protection adjustment range	2.9...7 A
Motor tripping class	10 20
Breaking capacity	Icu 50 kA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 Icu 15 kA 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 Icu 8 kA at 660...690 V AC 50/60 Hz conforming to IEC 60947-2 18 kA at 600Y/347 V AC 50/60 Hz conforming to UL 60947 Icu 100 kA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 Icu 25 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 Icu 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service breaking capacity	100 kA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2

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

50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2  
 25 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2  
 15 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2  
 2 kA at 660...690 V AC 50/60 Hz conforming to IEC 60947-2

[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-2
[Ui] rated insulation voltage	800 V conforming to IEC 60947-2

## Complementary

Mechanical durability	40000 cycles
Electrical durability	40000 cyclesFor AC-3 at 440 V In/2 40000 cyclesFor AC-3 at 440 V In
Motor power kW	2.5 kW at 500 V AC 50/60 Hz 2.5 kW at 400...415 V AC 50/60 Hz 3 kW at 400...415 V AC 50/60 Hz 3 kW at 500 V AC 50/60 Hz 3 kW at 660...690 V AC 50/60 Hz 4 kW at 500 V AC 50/60 Hz 4 kW at 660...690 V AC 50/60 Hz 7.5 kW at 660...690 V AC 50/60 Hz 1.5 kW at 400...415 V AC 50/60 Hz 2.2 kW at 400...415 V AC 50/60 Hz 2.2 kW at 500 V AC 50/60 Hz 5.5 kW at 660...690 V AC 50/60 Hz
Control type	Rotary handle
Toggle padlocking (with accessories)	Padlock in OFF or ON position
Number of slots	1 slot(s)For alarm switchFor fault signalling contact plug-in 1 slot(s)For voltage releaseFor electrical remote tripping plug-in 1 slot(s)For auxiliary switchFor open/close contact plug-in
Local signalling	Presence of auxiliary contacts: flag (green)
Standards	EN/IEC 60947-4-1 EN/IEC 60947-2 UL 60947-4-1 CSA C22.2 No 60947-4-1
Quality labels	CE
Mounting mode	By clips By screws
Mounting support	Plate 75 mm symmetrical DIN rail 35 mm symmetrical DIN rail
Connections - terminals	Top 1 EverLink BTR screw connectors wire size 1.5...70 mm <sup>2</sup> solid Top 1 EverLink BTR screw connectors wire size 1.5...50 mm <sup>2</sup> flexible Bottom 1 EverLink BTR screw connectors wire size 2.5...95 mm <sup>2</sup> solid Bottom 1 EverLink BTR screw connectors wire size 2.5...70 mm <sup>2</sup> flexible
Connection pitch	27 mm
Wire stripping length	20 mm
Tightening torque	9 N.mFor 16...95 mm <sup>2</sup> 5 N.mFor 1.5...10 mm <sup>2</sup>
Width	81 mm
Height	155 mm
Depth	165 mm
Product weight	1.6 kg
Colour	Grey (RAL 7016)

## Environment

Product certifications	IEC
Ambient air temperature for storage	-50...85 °C
Ambient air temperature for operation	-25...70 °C
Operating altitude	2000...5000 m with derating 0...2000 m without derating
IP degree of protection	IP40 front face conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262

Pollution degree	3 conforming to IEC 60947-1
Tropicalisation	2 conforming to IEC 68-2
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

### Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1736 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available <a href="#">Product Environmental Profile</a>
Product end of life instructions	Available <a href="#">End of Life Information</a>

### Contractual warranty

Warranty period	18 months 18 months
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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  $I_{sd} = 5 \dots 13 \times I_r$
- 4  $I_i = 17 I_r$

## Cold state



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

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

Dynamic Stress

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



- 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

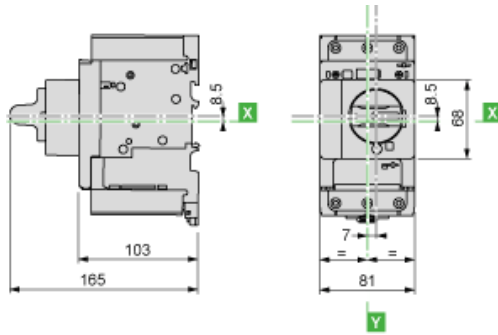


With Crimp Lug Connector



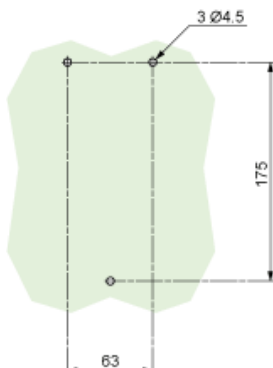
GV4 with Rotary Handle: GV4L, GV4P, or GV4LE, GV4PE, GV4PEM with GV4ADN01, GV4ADN02 Direct Mounting Rotary Handle

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)						
	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

Magnetic Motor Circuit Breakers

GV4P, GV4PE, GV4PEM

