Product datasheet





TeSys GV2 - Motor circuit breaker - thermal-magnetic - 1...1.6 A

GV2P06

Main

Range	TeSys Deca
Product Name	TeSys GV2 TeSys Deca
Product Or Component Type	Motor circuit breaker
Device Short Name	GV2P
Device Application	Motor protection
Trip Unit Technology	Thermal-magnetic

Complementary

Complementary	
Poles Description	3P
Network Type	AC
Utilisation Category	Category A conforming to IEC 60947-2
	AC-3 conforming to IEC 60947-4-1
	AC-3e conforming to IEC 60947-4-1
Network Frequency	50/60 Hz conforming to IEC 60947-4-1
Fixing Mode	35 mm symmetrical DIN rail: clipped
	Panel: screwed (with 2 x M4 screws)
Motor Power Kw	0.37 kW at 400/415 V AC 50/60 Hz
	0.55 kW at 400/415 V AC 50/60 Hz
	0.37 kW at 500 V AC 50/60 Hz
	0.55 kW at 500 V AC 50/60 Hz
	0.75 kW at 690 V AC 50/60 Hz
Breaking Capacity	100 kA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2
	100 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2
	100 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2
	100 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2
	100 kA Icu at 690 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] Rated Service Short-Circuit	100 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2
Breaking Capacity	100 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2
	100 % at 440 V AC 50/60 Hz conforming to IEC 60947-2
	100 % at 500 V AC 50/60 Hz conforming to IEC 60947-2
	100 % at 690 V AC 50/60 Hz conforming to IEC 60947-2
Control Type	Rotary handle
[In] Rated Current	1.6 A
Thermal Protection Adjustment Range	11.6 A conforming to IEC 60947-4-1
Magnetic Tripping Current	22.5 A
[Ith] Conventional Free Air Thermal Current	1.6 A conforming to IEC 60947-4-1
[Ue] Rated Operational Voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
[Ui] Rated Insulation Voltage	690 V AC 50/60 Hz conforming to IEC 60947-2

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[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947-2		
Phase Failure Sensitivity	Yes conforming to IEC 60947-4-1		
Suitability For Isolation	Yes conforming to IEC 60947-1 § 7-1-6		
Power Dissipation Per Pole	2.5 W		
Mechanical Durability	100000 cycles		
Electrical Durability	100000 cycles for AC-3 at 415 V In 100000 cycles for AC-3e at 415 V In		
Rated Duty	Continuous conforming to IEC 60947-4-1		
Tightening Torque	1.7 N.m - on screw clamp terminal		
Width	45 mm		
Height	89 mm		
Depth	97 mm		
Colour	Dark grey		

Environment

Standards	EN/IEC 60947-2	
	EN/IEC 60947-4-1	
Product Certifications	CCC	
	UL	
	CSA	
	EAC	
	ATEX	
	LROS (Lloyds register of shipping)	
	BV	
	RINA	
	DNV-GL	
	UKCA	
Ik Degree Of Protection	IK04	
Ip Degree Of Protection	IP20 conforming to IEC 60529	
Climatic Withstand	conforming to IACS E10	
Ambient Air Temperature For Storage	-4080 °C	
Fire Resistance	960 °C conforming to IEC 60695-2-11	
Ambient Air Temperature For Operation	-2060 °C	
Mechanical Robustness	Shocks: 30 Gn for 11 ms	
	Vibrations: 5 Gn, 5150 Hz	
Operating Altitude	2000 m	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.600 cm
Package 1 Width	9.300 cm
Package 1 Length	10.000 cm
Package 1 Weight	318.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	20
Package 2 Height	15.000 cm

Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.574 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	320
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	116.000 kg

Contractual warranty

Warranty 12 months

Sustainability Screen Premium

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



Rohs Exemption Information

Certifications & Standards

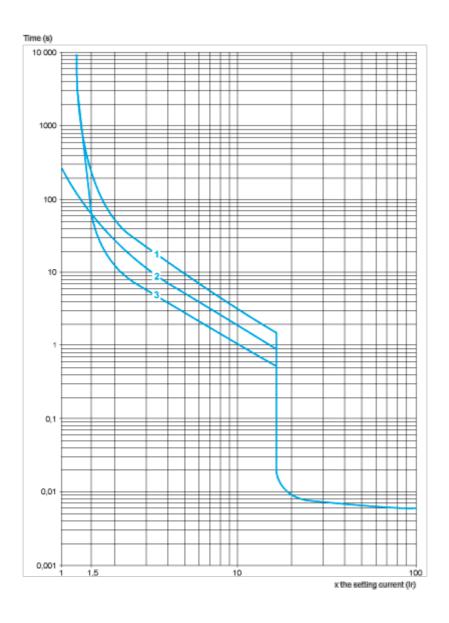
Reach Regulation	REACh Declaration			
Eu Rohs Directive	Compliant with Exemptions			
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information			
Environmental Disclosure	Product Environmental Profile			
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins			
Circularity Profile	End of Life Information			

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Performance Curves

Thermal-Magnetic Tripping Curves for GV2ME and GV2P

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

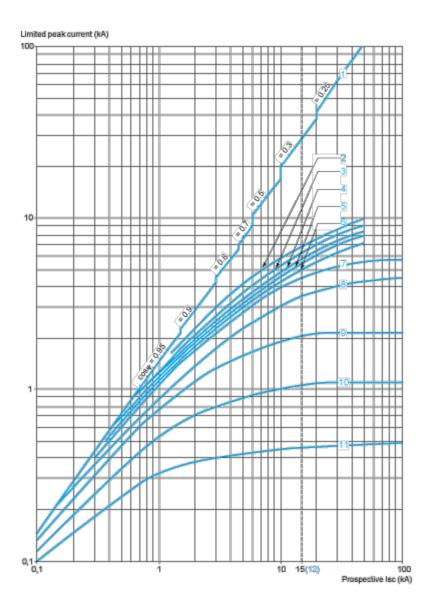


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

Current Limitation on Short-Circuit for GV2ME and GV2P (3-Phase 400/415 V))

Dynamic Stress

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



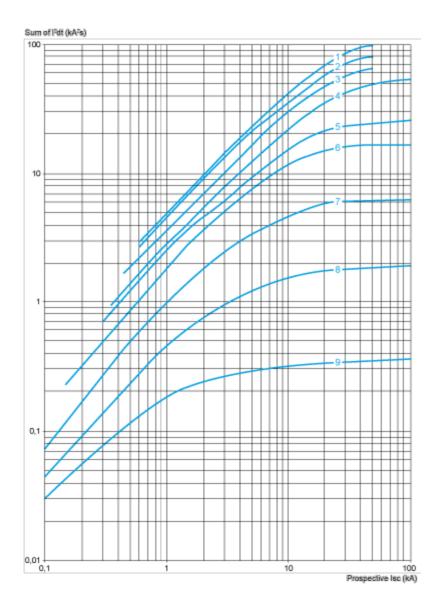
- 1 Maximum peak current
- 2 24-32 A
- 3 20-25 A
- 4 17-23 A
- 5 13-18 A
- 6 9-14 A
- 7 6-10 A
- 8 4-6.3 A
- 9 2.5-4 A
- 10 1.6-2.5 A
- 11 1-1.6 A
- 12 Limit of rated ultimate breaking capacity on short-circuit of GV2ME (14, 18, 23, and 25 A ratings).

Thermal Limit on Short-Circuit for GV2P

Thermal Limit in kA²s in the Magnetic Operating Zone

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

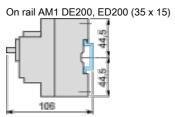
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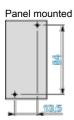


- 1 24-32 A
- 2 20-25 A
- 3 17-23 A
- 4 13-18 A
- 5 9-14 A
- 6 6-10 A
- 7 4-6.3 A
- 8 2.5-4 A
- 9 1.6-2.5 A
- 10 1-1.6 A

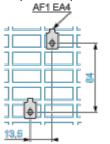
Dimensions Drawings

GV2P

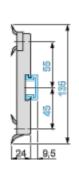


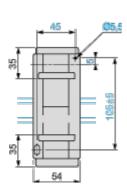


On pre-slotted plate AM1 PA



Adapter plate GK2AF01





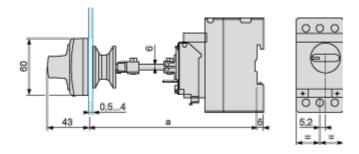
Combination GV2P + TeSys d contactor

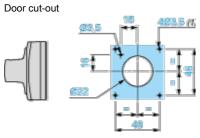
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GV2P+	LC1D09D18	LC1D25 and D32
b	176.4	186.8
c1	100.1	106.4
С	105.6	111.9
d1	95	95
d	100.5	100.5

Mounting

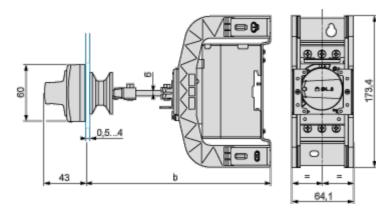
Mounting of External Operator GV2APN01, GV2APN02 or GV2APN04 for Motor Circuit Breakers GV2P





(1) For IP65 only.

Mounting of External Operator GVAPH02 for Motor Circuit Breakers GV2P

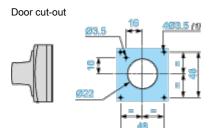


	а		b	
	Minimum	Maximum	Minimum	Maximum
GV2APN••	140	250	-	_
GV2APN + GVAPH02	_	_	151	250

Product datasheet

GV2P06

	а		b	
	Minimum	Maximum	Minimum	Maximum
GV2APN•• + GVAPK11	250	434	_	_
GV2APN + GVAPH02 + GVAPK11	_	-	250	445



(1) For IP65 only.

Connections and Schema

GV2P••

