Thông số kỹ thuật





Motor circuit breaker, TeSys Deca, 3P, 0.4 to 0.63A, thermal magnetic, screw clamp terminals, button control

GV2ME04

#### Main

Range	TeSys Deca
Product name	TeSys GV2 TeSys Deca
Product or component type	Motor circuit breaker
Device short name	GV2ME
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 adaptor plate)	
Motor power kW	0.12 kW at 400/415 V AC 50/60 Hz 0.18 kW at 400/415 V AC 50/60 Hz 0.37 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	
[lcs] rated service short-circuit breaking capacity	100 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 100 % 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	Push-button	
[In] rated current	0.63 A	
Thermal protection adjustment range	0.463 A conforming to IEC 60947-4-1	
Magnetic tripping current	8 A	
[Ith] conventional free air thermal current	0.63 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	
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947-2	

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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	78.5 mm
Net weight	0.26 kg
Colour	Dark grey

### **Environment**

product certifications  CCC UL CSA EAC ATEX LROS (Lloyds register of shipping) BV RINA DNV-GL UKCA UKCA UKCA  Conforming to IEC 60529  Climatic withstand  Conforming to IACS E10  Ambient air temperature for storage Fire resistance  960 °C conforming to IEC 60695-2-11  Ambient air temperature for operation  Mechanical robustness  Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz  Operating altitude  CCC UL CSA EAC ATEX LROS (Lloyds register of shipping) BV RINA DNV-GL UKCA UKCA UKCA UKCA UKCA UKCA UKCA  DEC 60529  Climatic withstand  Conforming to IEC 60695-2-11  Ambient air temperature for operation  Mechanical robustness  Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz		
CSA EAC ATEX LROS (Lloyds register of shipping) BV RINA DNV-GL UKCA UKCA UKCA  IK degree of protection IP20 conforming to IEC 60529  Climatic withstand conforming to IACS E10  Ambient air temperature for storage Fire resistance 960 °C conforming to IEC 60695-2-11  Ambient air temperature for operation Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz	product certifications	CCC
EAC ATEX LROS (Lloyds register of shipping) BV RINA DNV-GL UKCA UKCA UKCA  IK degree of protection IP20 conforming to IEC 60529  Climatic withstand conforming to IACS E10  Ambient air temperature for storage Fire resistance 960 °C conforming to IEC 60695-2-11  Ambient air temperature for operation  Mechanical robustness Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz		UL
ATEX LROS (Lloyds register of shipping) BV RINA DNV-GL UKCA UKCA UKCA  IK degree of protection IP20 conforming to IEC 60529  Climatic withstand conforming to IACS E10  Ambient air temperature for storage Fire resistance 960 °C conforming to IEC 60695-2-11  Ambient air temperature for operation Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz		CSA
LROS (Lloyds register of shipping) BV RINA DNV-GL UKCA UKCA UKCA  IK degree of protection  IP20 conforming to IEC 60529  Climatic withstand  conforming to IACS E10  Ambient air temperature for storage Fire resistance  960 °C conforming to IEC 60695-2-11  Ambient air temperature for operation  Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz		EAC
BV RINA DNV-GL UKCA UKCA UKCA  IK degree of protection  IP20 conforming to IEC 60529  Climatic withstand  conforming to IACS E10  Ambient air temperature for storage  Fire resistance  960 °C conforming to IEC 60695-2-11  Ambient air temperature for operation  Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz		ATEX
RINA DNV-GL UKCA UKCA UKCA  IK degree of protection  IP20 conforming to IEC 60529  Climatic withstand  conforming to IACS E10  Ambient air temperature for storage Fire resistance  960 °C conforming to IEC 60695-2-11  Ambient air temperature for operation  Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz		LROS (Lloyds register of shipping)
DNV-GL UKCA UKCA UKCA  IK degree of protection  IP20 conforming to IEC 60529  Climatic withstand  conforming to IACS E10  Ambient air temperature for storage  Fire resistance  960 °C conforming to IEC 60695-2-11  Ambient air temperature for operation  Mechanical robustness  Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz		BV
UKCA UKCA UKCA UKCA  IK degree of protection  IP20 conforming to IEC 60529  Climatic withstand  conforming to IACS E10  Ambient air temperature for storage  Fire resistance  960 °C conforming to IEC 60695-2-11  Ambient air temperature for operation  Mechanical robustness  Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz		RINA
UKCA  IK degree of protection  IR04  IP degree of protection  IP20 conforming to IEC 60529  Climatic withstand  conforming to IACS E10  Ambient air temperature for storage  Fire resistance  960 °C conforming to IEC 60695-2-11  Ambient air temperature for operation  Mechanical robustness  Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz		DNV-GL
IK degree of protection  IP20 conforming to IEC 60529  Climatic withstand  conforming to IACS E10  Ambient air temperature for storage  Fire resistance  960 °C conforming to IEC 60695-2-11  Ambient air temperature for operation  Mechanical robustness  Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz		UKCA
IP degree of protection  IP20 conforming to IEC 60529  Climatic withstand  conforming to IACS E10  Ambient air temperature for storage  Fire resistance  960 °C conforming to IEC 60695-2-11  Ambient air temperature for operation  Mechanical robustness  Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz		UKCA
Climatic withstand conforming to IACS E10  Ambient air temperature for storage  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	IK degree of protection	IK04
Ambient air temperature for storage  Fire resistance  960 °C conforming to IEC 60695-2-11  Ambient air temperature for operation  Mechanical robustness  Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz	IP degree of protection	IP20 conforming to IEC 60529
Storage       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	Climatic withstand	conforming to IACS E10
Ambient air temperature for operation  Mechanical robustness  Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz		-4080 °C
Mechanical robustness Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5150 Hz	Fire resistance	960 °C conforming to IEC 60695-2-11
Vibrations: 5 Gn, 5150 Hz		-2060 °C
·	Mechanical robustness	Shocks: 30 Gn for 11 ms
Operating altitude 2000 m		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	4.500 cm
Package 1 Width	8.500 cm
Package 1 Length	9.500 cm
Package 1 Weight	216.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	24
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm

Package 2 Length	40.000 cm
Package 2 Weight	5.568 kg
Unit Type of Package 3	P06
Number of Units in Package 3	384
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	98.088 kg

### **Contractual warranty**

Warranty 18 months



Nhãn **Green Premium<sup>TM</sup>** là cam kết của Schneider Electric trong việc cung cấp sản phẩm với hiệu suất môi trường tốt nhất. Green Premium cam kết tuân thủ các quy định mới nhất, minh bạch về tác động môi trường, cũng như các sản phẩm tuần hoàn và  ${\rm CO}_2$  thấp.

Hướng dẫn đánh giá tính bền vững của sản phẩm là tài liệu kỹ thuật phổ thông giúp làm rõ các tiêu chuẩn nhãn sinh thái toàn cầu và cách diễn giải việc khai báo môi trường.

Tìm hiểu thêm về Green Premium >

Hướng dẫn đánh giá về sự bền vững của sản phẩm >





Minh bach RoHS/REACh

### Hiệu suất sức khoẻ



Mercury Free



Rohs Exemption Information

Yes

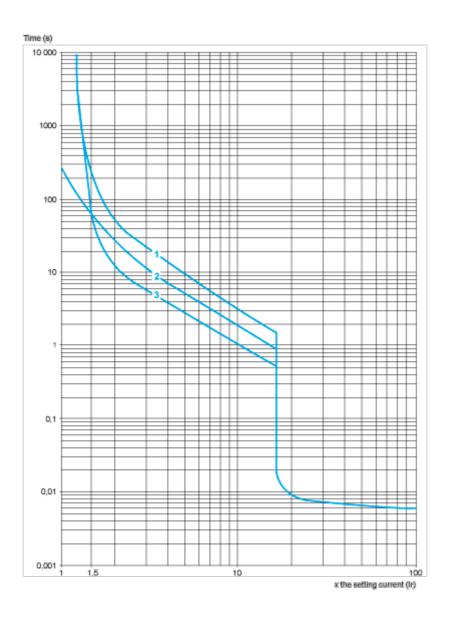
### Chứng nhận & Tiêu chuẩn

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 GV2ME and GV2P

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



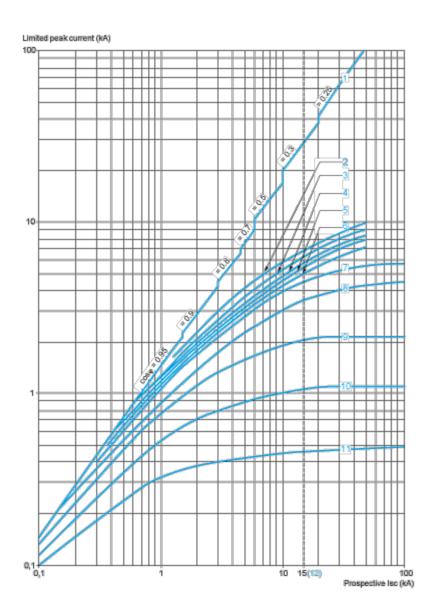
- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

#### 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

### GV2ME04



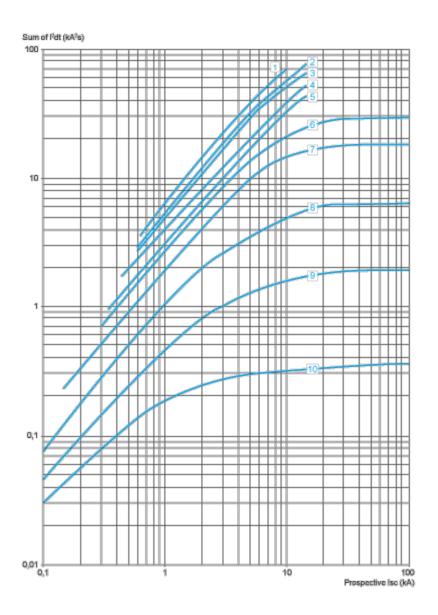
- 1 Maximum peak current
- 2 24-32 A
- 3 20-25 A
- 4 17-23 A
- 5 13-18 A
- 6 9-14 A
- 7 6-10 A
- 8 4-6.3 A
- 9 2.5-4 A
- 10 1.6-2.5 A
- 11 1-1.6 A
- 12 Limit of rated ultimate breaking capacity on short-circuit of GV2ME (14, 18, 23, and 25 A ratings).

#### Thermal Limit on Short-Circuit for GV2ME

Thermal Limit in kA<sup>2</sup>s in the Magnetic Operating Zone

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

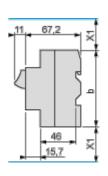
### GV2ME04

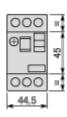


- 1 24-32 A
- 2 20-25 A
- 3 17-23 A
- 4 13-18 A
- 5 9-14 A
- 6 6-10 A
- 7 4-6.3 A
- 8 2.5-4 A
- 9 1.6-2.5 A
- 10 1-1.6 A

**Dimensions Drawings** 

#### Dimension GV2ME





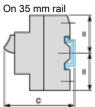
#### (1) Maximum

X1 Electrical clearance = 40 mm for Ue ≤ 690 V

	b
GV2ME <sub>●●</sub>	89
GV2ME <sub>●●</sub> 3	101

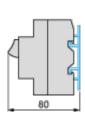
#### Mounting

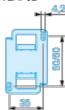
#### **GV2ME**



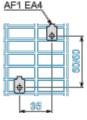
c = 78.5 on AM1 DP200 (35 x 7.5) c = 86 on AM1 DE200, ED200 (35 x 15)

On panel with adapter plate GV2AF02



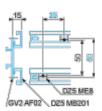


On pre-slotted plate AM1 PA

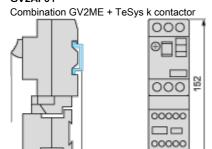


On rails DZ5 MB201

### GV2ME04



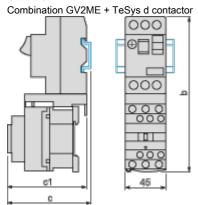
#### GV2AF01



45

GV2AF3

79

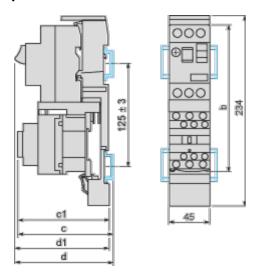


GV2ME +	LC1D09D18	LC1D25 and D32
b	176.4	186.8
c1	94.1	100.4
С	99.6	105.9

#### GV2AF4 + LAD311

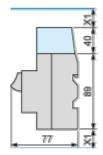
Combination GV2ME + TeSys d contactor

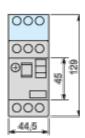
### GV2ME04



GV2ME +	LC1D09D18	LC1D25 and D32
b	176.4	186.8
c1	103.1	136.4
С	135.6	141.9
d1	107	107
d	112.5	112.5

GV2ME + GV1L3 (Current Limiter)



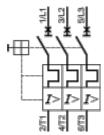


X1 = 10 mm for Ue = 230 V or 30 mm for 230 V < Ue  $\leq$  690 V

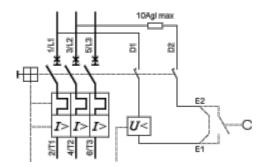
### GV2ME04

Connections and Schema

#### GV2ME•• and GV2RT



Connection of Undervoltage Trip for Dangerous Machines (Conforming to INRS) on GV2ME Only

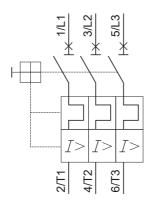


### GV2ME04

**Technical Illustration** 

### Wiring diagram

#### GV2ME⊠



REFER TO TECHNICAL DRAWINGS AND DOCUMENTATION FOR COMPLETE INFORMATION.

GV2ME04

Image of product / Alternate images

Alternative





### GV2ME04



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