Specifications





# Motor circuit breaker, TeSys GV2, 3P, 2.5-4 A, thermal magnetic, screw clamp terminals

GV2ME08

#### 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	1.1 kW at 400/415 V AC 50/60 Hz	
	1.5 kW at 400/415 V AC 50/60 Hz	
	1.5 kW at 500 V AC 50/60 Hz	
	2.2 kW at 500 V AC 50/60 Hz	
	3 kW at 690 V AC 50/60 Hz	
	2.2 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	
	3 kA lcu 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	
	75 % at 690 V AC 50/60 Hz conforming to IEC 60947-2	
Control Type	Push-button	
[In] Rated Current	4 A	
Thermal Protection Adjustment Range	2.54 A conforming to IEC 60947-4-1	
Magnetic Tripping Current	51 A	
[Ith] Conventional Free Air Thermal Current	4 A conforming to IEC 60947-4-1	
[Ue] Rated Operational Voltage	690 V AC 50/60 Hz conforming to IEC 60947-2	

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

[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	
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

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	4.800 cm
Package 1 Width	8.500 cm
Package 1 Length	9.300 cm
Package 1 Weight	253.000 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	6.414 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	109.232 kg

## **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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

Mercury Free

Rohs Exemption Information Yes

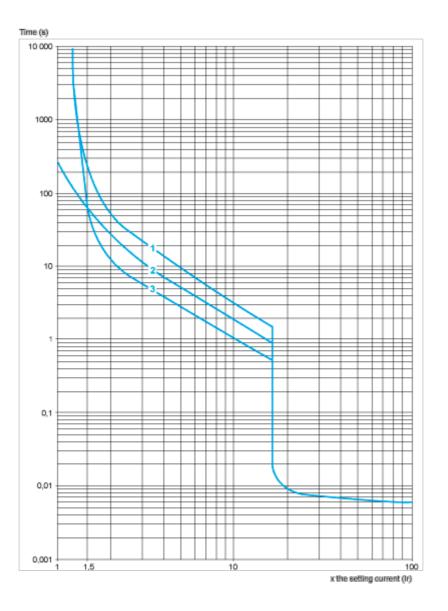
#### **Certifications & Standards**

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 GV2ME and GV2P

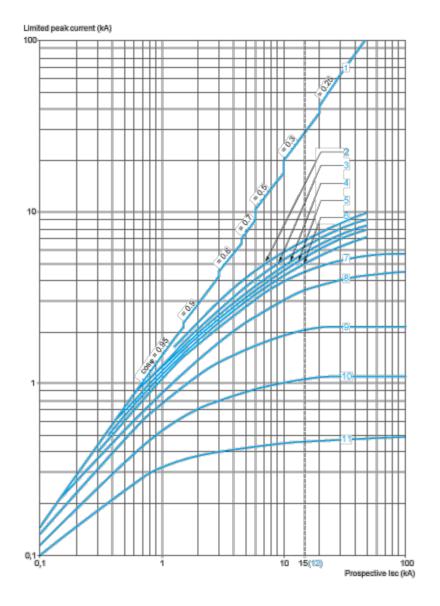
Average Operating Times at 20 °C Related to Multiples of the Setting Current



- 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 Isc) at 1.05 Ue = 435 V

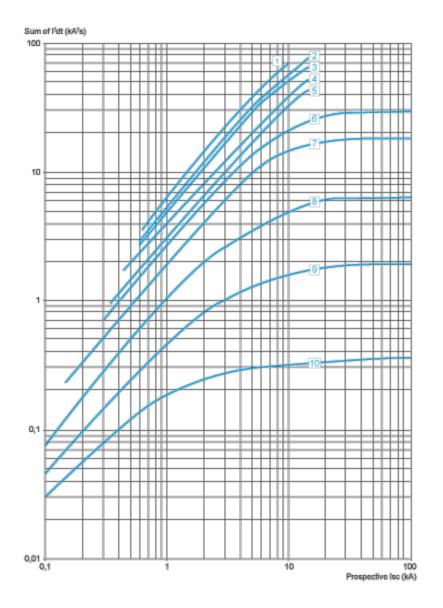


- 1 Maximum peak current
- 2 24-32 A
- 3 20-25 A
- 4 17-23 A
- 5 13-18 A
- 6 9-14 A
- 7 6-10 A
- 8 4-6.3 A
- 9 2.5-4 A
- 10 1.6-2.5 A
- 11 1-1.6 A
- 12 Limit of rated ultimate breaking capacity on short-circuit of GV2ME (14, 18, 23, and 25 A ratings).

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

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

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

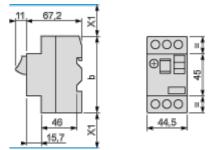


- 1 24-32 A
- 2 20-25 A
- 3 17-23 A
- 4 13-18 A
- 5 9-14 A
- 6 6-10 A
- 7 4-6.3 A
- 8 2.5-4 A
- 9 1.6-2.5 A
- 10 1-1.6 A

**Dimensions Drawings** 

## Dimension

GV2ME



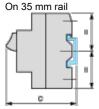
#### (1) Maximum

X1 Electrical clearance = 40 mm for Ue ≤ 690 V

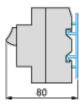
	b
GV2ME <sub>●●</sub>	89
GV2ME <sub>●●</sub> 3	101

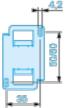
#### Mounting

GV2ME

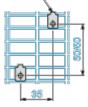


c = 78.5 on AM1 DP200 (35 x 7.5) c = 86 on AM1 DE200, ED200 (35 x 15) On panel with adapter plate GV2AF02

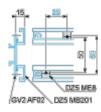




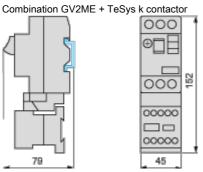
On pre-slotted plate AM1 PA



On rails DZ5 MB201

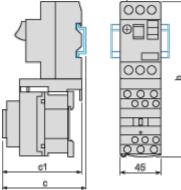


#### GV2AF01



#### GV2AF3

Combination GV2ME + TeSys d contactor



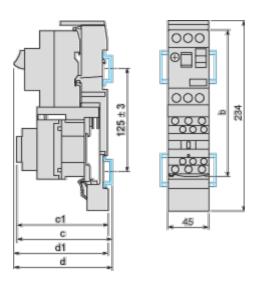
GV2ME +	LC1D09D18	LC1D25 and D32
b	176.4	186.8
c1	94.1	100.4
с	99.6	105.9

#### GV2AF4 + LAD311

Combination GV2ME + TeSys d contactor

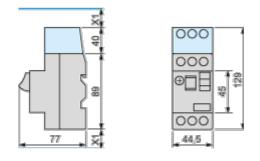
#### GV2ME08

## **Product datasheet**



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

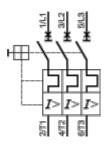
GV2ME + GV1L3 (Current Limiter)



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

#### Connections and Schema

#### GV2ME •• and GV2RT



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

