Specifications



Motor circuit breaker, TeSys Deca, 3P, 4 to 6.3A, thermal magnetic, screw clamp terminals, button control

GV2ME10

Main

Range	TeSys Deca
product name	TeSys GV2
Product or component type	Motor circuit breaker
Device short name	GV2ME
Device application	Motor protection
Trip unit technology	Thermal-magnetic

Complementary

Poles description	3P	
	51	
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 60947-2	
Motor power kW	2.2 kW at 400/415 V AC 50/60 Hz	
	3 kW at 500 V AC 50/60 Hz	
	4 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	
	50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2	
	50 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2	
	3 kA Icu at 690 V AC 50/60 Hz conforming to IEC 60947-2	
[Ics] rated service short-circuit breaking capacity	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	6.3 A	
Thermal protection adjustment range	46.3 A conforming to IEC 60947-2	
Magnetic tripping current	91 A	
[Ith] conventional free air thermal current	6.3 A conforming to IEC 60947-2	
[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	
Phase failure sensitivity	Yes conforming to IEC 60947-4-1	
Suitability for isolation	Yes conforming to IEC 60947-1	

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	Uninterrupted conforming to IEC 60947-4-1	
Connections - terminals	Power circuit: screw clamp terminal 2 cable(s) 16 mm ² solid Power circuit: screw clamp terminal 2 cable(s) 1.56 mm ² flexible without cable end Power circuit: screw clamp terminal 2 cable(s) 14 mm ² flexible with cable end	
Tightening torque	1.7 N.m - on screw clamp terminal	
Fixing mode	35 mm symmetrical DIN rail: clipped Panel: screwed (with adaptor plate)	
Mounting position	Horizontal Vertical	
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 UL 60947-4-1 CSA C22.2 No 60947-4-1 IEC/EN 60335-2-40:Annex JJ IEC/EN 60335-1:Clause 30.2
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	9.300 cm
Package 1 Width	4.800 cm

Package 1 Length	8.500 cm
Package 1 Weight	271.000 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	6.832 kg

Contractual warranty

Warranty

18 months

🜔 Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) 43

Environmental Disclosure

Product Environmental Profile

Use Better

[⊗] Materials and Substances		
Packaging made with recycled cardboard	No	
Packaging without single use plastic	No	
EU RoHS Directive	Compliant with Exemptions	
SCIP Number	04104e70-ba29-493c-b2cc-b5837d1f879b	
REACh Regulation	REACh Declaration	

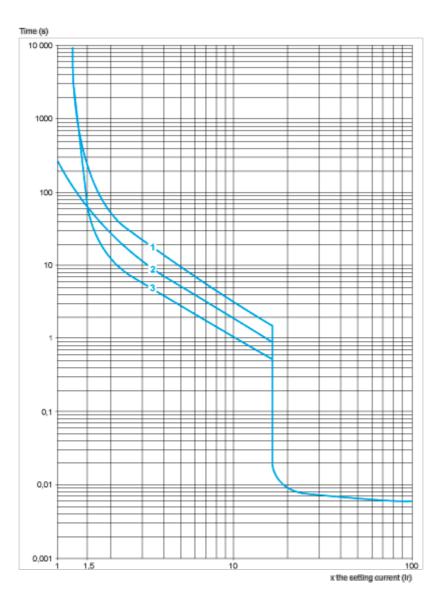
Use Again

○ Repack and remanufacture		
Circularity Profile	End of Life Information	
Take-back	No	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	

Performance Curves

Thermal-Magnetic Tripping Curves for GV2ME and GV2P

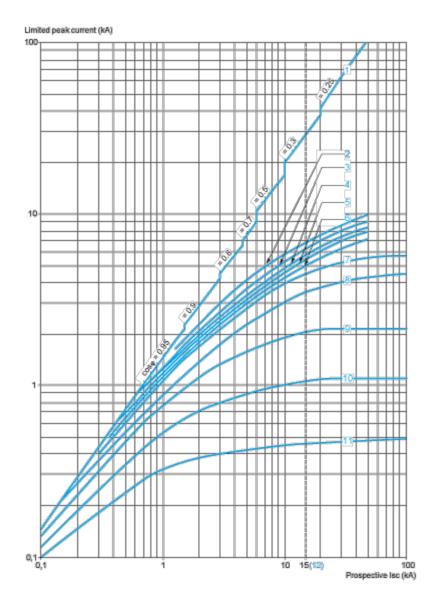
Average Operating Times at 20 °C Related to Multiples of the Setting Current



- 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)) $\ensuremath{\mathsf{Dynamic}}$ Stress

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

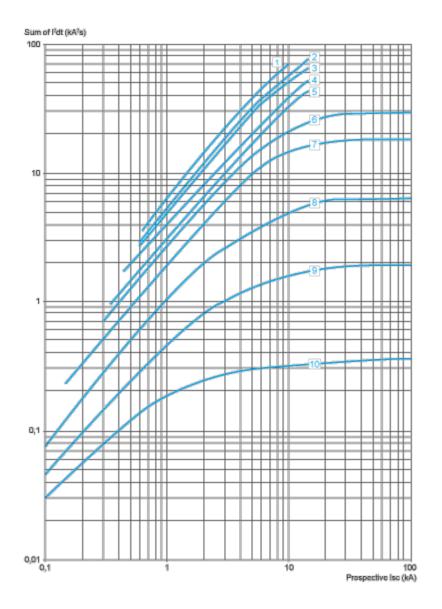


- 1 Maximum peak current
- 2 24-32 A
- 3 20-25 A
- 4 17-23 A
- 5 13-18 A
- 6 9-14 A
- 7 6-10 A
- 8 4-6.3 A
- 9 2.5-4 A
- 10 1.6-2.5 A
- 11 1-1.6 A
- 12 Limit of rated ultimate breaking capacity on short-circuit of GV2ME (14, 18, 23, and 25 A ratings).

Thermal Limit on Short-Circuit for GV2ME

Thermal Limit in kA²s in the Magnetic Operating Zone

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

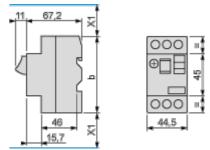


- 1 24-32 A
- 2 20-25 A
- 3 17-23 A
- 4 13-18 A
- 5 9-14 A
- 6 6-10 A
- 7 4-6.3 A
- 8 2.5-4 A
- 9 1.6-2.5 A
- 10 1-1.6 A

Dimensions Drawings

Dimension

GV2ME



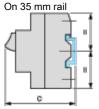
(1) Maximum

X1 Electrical clearance = 40 mm for Ue ≤ 690 V

	b
GV2ME _{●●}	89
GV2ME _{●●} 3	101

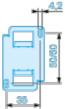
Mounting

GV2ME

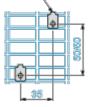


c = 78.5 on AM1 DP200 (35 x 7.5) c = 86 on AM1 DE200, ED200 (35 x 15) On panel with adapter plate GV2AF02

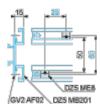




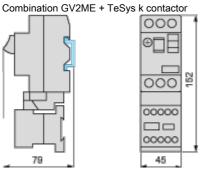
On pre-slotted plate AM1 PA



On rails DZ5 MB201

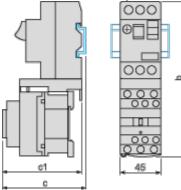


GV2AF01



GV2AF3

Combination GV2ME + TeSys d contactor



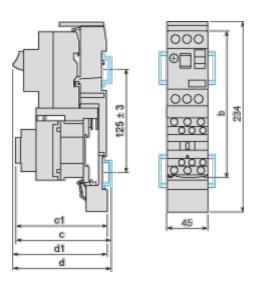
GV2ME +	LC1D09D18	LC1D25 and D32
b	176.4	186.8
c1	94.1	100.4
с	99.6	105.9

GV2AF4 + LAD311

Combination GV2ME + TeSys d contactor

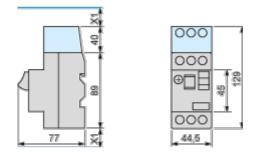
GV2ME10

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

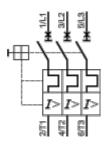
GV2ME + GV1L3 (Current Limiter)



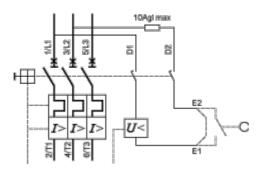
X1 = 10 mm for Ue = 230 V or 30 mm for 230 V < Ue \leq 690 V

Connections and Schema

GV2ME •• and GV2RT

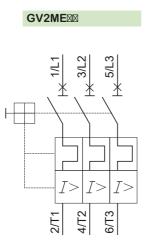


Connection of Undervoltage Trip for Dangerous Machines (Conforming to INRS) on GV2ME Only



Technical Illustration

Wiring diagram



REFER TO TECHNICAL DRAWINGS AND DOCUMENTATION FOR COMPLETE INFORMATION.

Image of product / Alternate images

Alternative





