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Product data sheet
Characteristics

GV2ME163
TeSys GV2 Manual Starter and Protector, thermal magnetic circuit protector, push buttons, 9...14 A, spring terminals



Main

Range	TeSys
Product name	TeSys GV2
Device short name	GV2ME
Device application	Motor
Trip unit technology	Thermal-magnetic

Complementary

Poles description	3P
Network type	AC
Utilisation category	AC-3 conforming to IEC 60947-4-1 Category A conforming to IEC 60947-2
Network frequency	50/60 Hz conforming to IEC 60947-4-1
Fixing mode	35 mm symmetrical DIN rail: clipped Panel screwed with adaptor plate)
Operating position	Any position
Motor power kW	5.5 KW 400/415 V AC 50/60 Hz 7.5 kW 500 V AC 50/60 Hz
Breaking capacity	100 KA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 3 KA Icu 690 V AC 50/60 Hz IEC 60947-2 15 KA Icu 400/415 V AC 50/60 Hz IEC 60947-2 8 KA Icu 440 V AC 50/60 Hz IEC 60947-2 6 kA Icu 500 V AC 50/60 Hz IEC 60947-2
[Ics] rated service short-circuit breaking capacity	100 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 75 % 690 V AC 50/60 Hz IEC 60947-2 75 % at 500 V AC 50/60 Hz conforming to IEC 60947-2 50 % 400/415 V AC 50/60 Hz IEC 60947-2 50 % at 440 V AC 50/60 Hz conforming to IEC 60947-2
Control type	Push-button
Line Rated Current	14 A
Thermal protection adjustment range	9…14 A
Magnetic tripping current	170 A
[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
[Ith] conventional free air thermal current	14 A IEC 60947-4-1
[Uimp] rated impulse withstand voltage	IEC 60947-2 6 kV
Power dissipation per pole	2.5 W
Mechanical durability	100000 cycles
Electrical durability	100000 cycles AC-3 440 V
Maximum operating rate	25 cyc/h
Rated duty	Continuous conforming to IEC 60947-4-1
Suitability for isolation	Yes conforming to IEC 60947-1
Phase failure sensitivity	Yes conforming to IEC 60947-4-1
Height	3.98 in (101 mm)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Maximum Width	1.77 in (45 mm)
Depth	3.09 in (78.5 mm)
Net Weight	0.62 lb(US) (0.28 kg)

Environment

Standards	EN/IEC 60947-2 EN/IEC 60947-4-1 CSA C22.2 No 60947-4-1 UL 60947-4-1
Product certifications	IECEE CB Scheme UL CSA CCC EAC ATEX BV LROS (Lloyds register of shipping) DNV-GL RINA
Protective treatment	TH
IP degree of protection	IP20 conforming to IEC 60529
IK degree of protection	IK04
Ambient air temperature for operation	-4…140 °F (-20…60 °C)
Ambient air temperature for storage	-40…176 °F (-40…80 °C)
Fire resistance	1760 °F (960 °C) IEC 60695-2-1
Operating altitude	6561.68 ft (2000 m)

Ordering and shipping details

Category	22367 - MANUAL STR PROTECTOR - GV2
Discount Schedule	I11
GTIN	00785901212195
Nbr. of units in pkg.	1
Package weight(Lbs)	0.71 lb(US) (0.32 kg)
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.17 in (5.5 cm)
Package 1 width	3.35 in (8.5 cm)
Package 1 Length	4.33 in (11 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	20
Package 2 Weight	14.43 lb(US) (6.544 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Unit Type of Package 3	P06
Number of Units in Package 3	320
Package 3 Weight	257.72 lb(US) (116.9 kg)
Package 3 Height	31.50 in (80 cm)
Package 3 width	31.50 in (80 cm)
Package 3 Length	23.62 in (60 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
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.

Contractual warranty

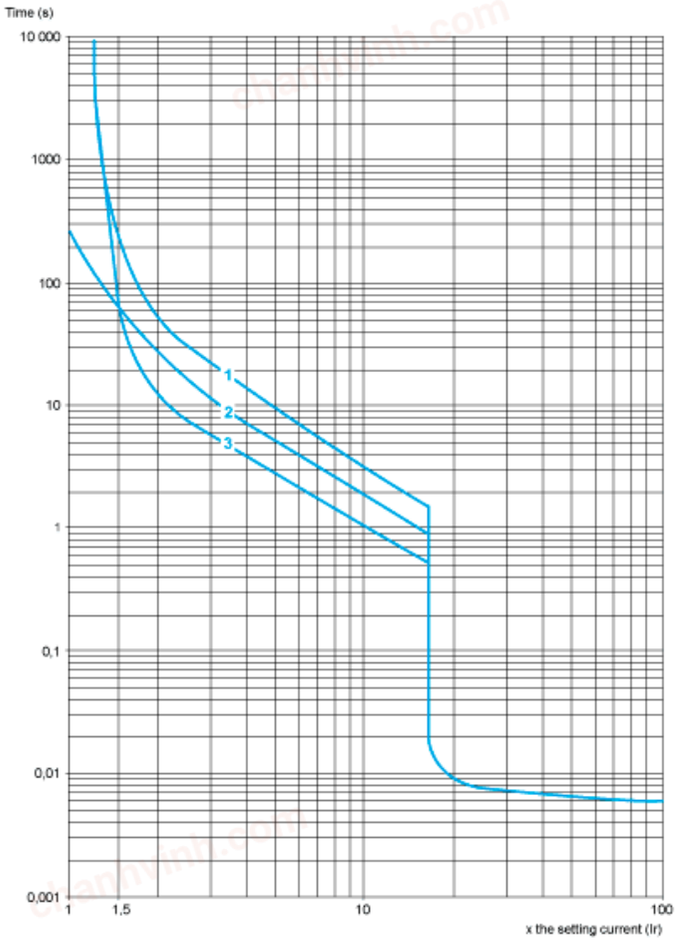
Warranty	18 months

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Product data sheet GV2ME163
Performance Curves

Thermal-Magnetic Tripping Curves for GV2ME and GV2P

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



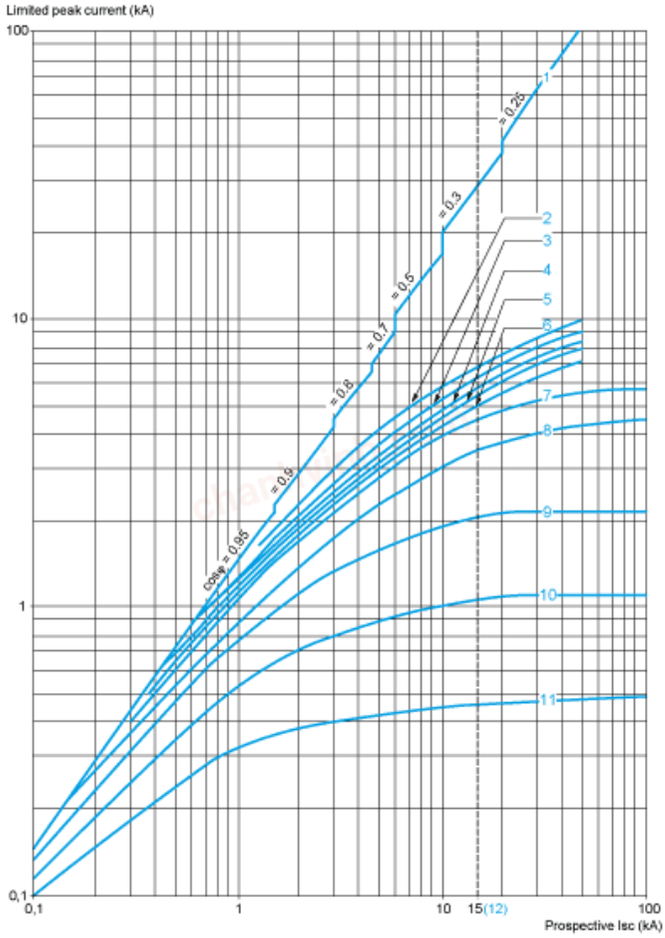
1 3 poles from cold state
2 2 poles from cold state
3 3 poles from hot state

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

Life Is On Schneider Electric



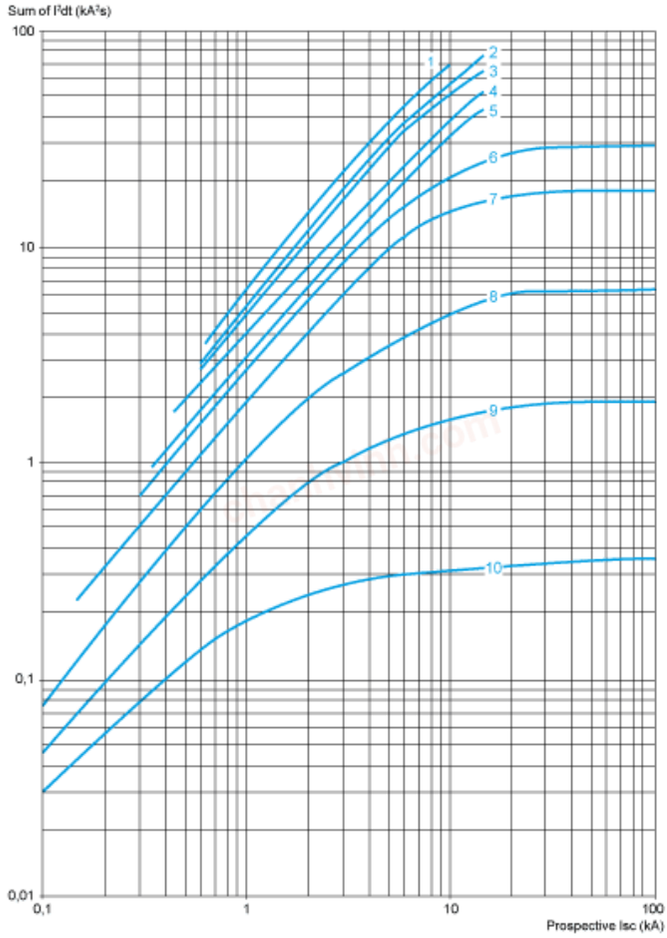
1 Maximum peak current
2 24-32 A
3 20-25 A
4 17-23 A
5 13-18 A
6 9-14 A
7 6-10 A
8 4-6.3 A
9 2.5-4 A
10 1.6-2.5 A
11 1-1.6 A
12 Limit of rated ultimate breaking capacity on short-circuit of GV2ME (14, 18, 23, and 25 A ratings).

Thermal Limit on Short-Circuit for GV2ME

Thermal Limit in kA^2s in the Magnetic Operating Zone

Sum of I^2dt = f (prospective Isc) 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

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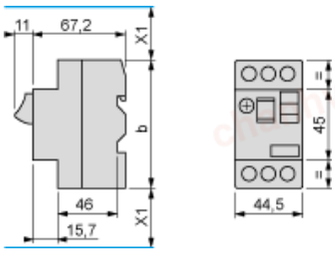
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Product data sheet GV2ME163

Dimensions Drawings

Dimension

GV2ME



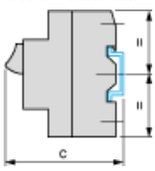
(1) Maximum
X1 Electrical clearance = 40 mm for Ue ≤ 690 V

	b
GV2ME••	89
GV2ME••3	101

Mounting

GV2ME

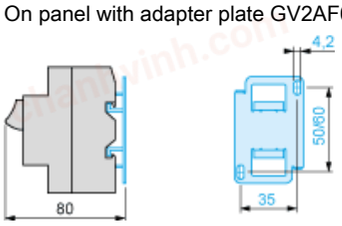
On 35 mm rail



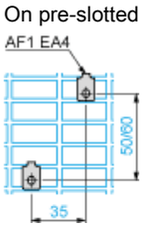
c = 78.5 on AM1 DP200 (35 x 7.5)

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

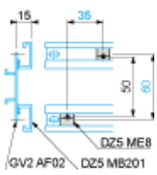
On panel with adapter plate GV2AF02



On pre-slotted plate AM1 PA



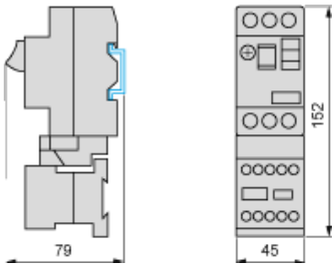
On rails DZ5 MB201



GV2AF01

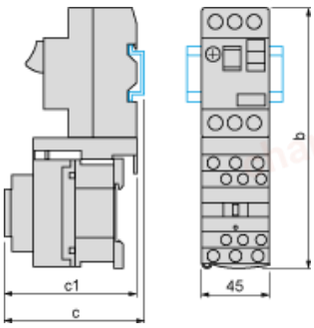
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Combination GV2ME + TeSys k contactor



GV2AF3

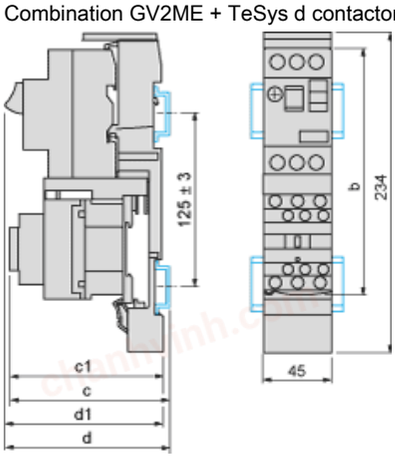
Combination GV2ME + TeSys d contactor



GV2ME +	LC1D09…D18	LC1D25 and D32
b	176.4	186.8
c1	94.1	100.4
c	99.6	105.9

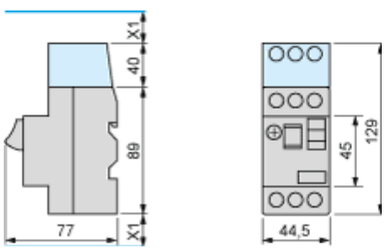
GV2AF4 + LAD311

Combination GV2ME + TeSys d contactor



GV2ME +	LC1D09…D18	LC1D25 and D32
b	176.4	186.8
c1	103.1	136.4
c	135.6	141.9
d1	107	107
d	112.5	112.5

GV2ME + GV1L3 (Current Limiter)



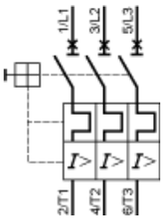
X1 = 10 mm for Ue = 230 V or 30 mm for 230 V < Ue ≤ 690 V

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Product data sheet
Connections and Schema

GV2ME163

GV2ME•• and GV2RT



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

