

Product data sheet

Specifications



TeSys Deca Manual Starter and Protector, thermal magnetic circuit protector, push buttons, 0.63...1 A, ring lug terminals

GV2ME056

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 180.00 USD

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

poles description	3P
Network type	AC
Utilisation category	Category A IEC 60947-2 AC-3 IEC 60947-4-1 AC-3e IEC 60947-4-1
Network frequency	50/60 Hz IEC 60947-4-1
Fixing mode	35 mm symmetrical DIN rail clipped Panel screwed with adaptor plate)
Motor power kW	0.25 kW 400/415 V AC 50/60 Hz 0.55 kW 690 V AC 50/60 Hz
Breaking capacity	100 kA Icu 230/240 V AC 50/60 Hz IEC 60947-2 100 kA Icu 400/415 V AC 50/60 Hz IEC 60947-2 100 kA Icu 440 V AC 50/60 Hz IEC 60947-2 100 kA Icu 500 V AC 50/60 Hz IEC 60947-2 100 kA Icu 690 V AC 50/60 Hz IEC 60947-2
[Ics] rated service short-circuit breaking capacity	100 % 230/240 V AC 50/60 Hz IEC 60947-2 100 % 400/415 V AC 50/60 Hz IEC 60947-2 100 % 440 V AC 50/60 Hz IEC 60947-2 100 % 500 V AC 50/60 Hz IEC 60947-2 100 % 690 V AC 50/60 Hz IEC 60947-2
Control Type	Push-button
Line Rated Current	1 A
Thermal protection adjustment range	0.63...1 A IEC 60947-4-1
Magnetic tripping current	13 A
[Ith] conventional free air thermal current	1 A IEC 60947-4-1
[Ue] rated operational voltage	690 V AC 50/60 Hz IEC 60947-2

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: 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

[Ui] rated insulation voltage	690 V AC 50/60 Hz IEC 60947-2
[Uimp] rated impulse withstand voltage	6 kV IEC 60947-2
Phase failure sensitivity	Yes IEC 60947-4-1
Suitability for isolation	Yes IEC 60947-1 § 7-1-6
Power dissipation per pole	2.5 W
Mechanical durability	100000 cycles
Electrical durability	100000 cycles AC-3 415 V In 100000 cycles AC-3e 415 V In
Rated duty	Continuous IEC 60947-4-1
Width	1.8 in (45 mm)
Height	3.5 in (89 mm)
Depth	3.09 in (78.5 mm)
Net Weight	0.57 lb(US) (0.26 kg)
color	Dark grey
Connection pitch	0.5 in (13.5 mm) without spreader

Environment

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 IEC 60529
Climatic withstand	IACS E10
Ambient Air Temperature for Storage	-40...176 °F (-40...80 °C)
Fire resistance	1760 °F (960 °C) IEC 60695-2-11
Ambient air temperature for operation	-4...140 °F (-20...60 °C)
Mechanical robustness	Shocks 30 Gn for 11 ms Vibrations 5 Gn, 5...150 Hz
Operating altitude	6561.68 ft (2000 m)

Ordering and shipping details

Category	US10I1122367
Discount Schedule	0I11
GTIN	3389110606867
Returnability	No
Country of origin	TH

Packing Units

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
Package 1 Height	1.890 in (4.800 cm)
Package 1 Width	3.386 in (8.600 cm)
Package 1 Length	3.740 in (9.500 cm)
Package 1 Weight	8.395 oz (238.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	24
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	13.316 lb(US) (6.040 kg)

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class 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

 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
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

Performance Curves

Thermal-Magnetic Tripping Curves for GV2ME and GV2P
Average Operating Times at 20 °C Related to Multiples of the Setting Current

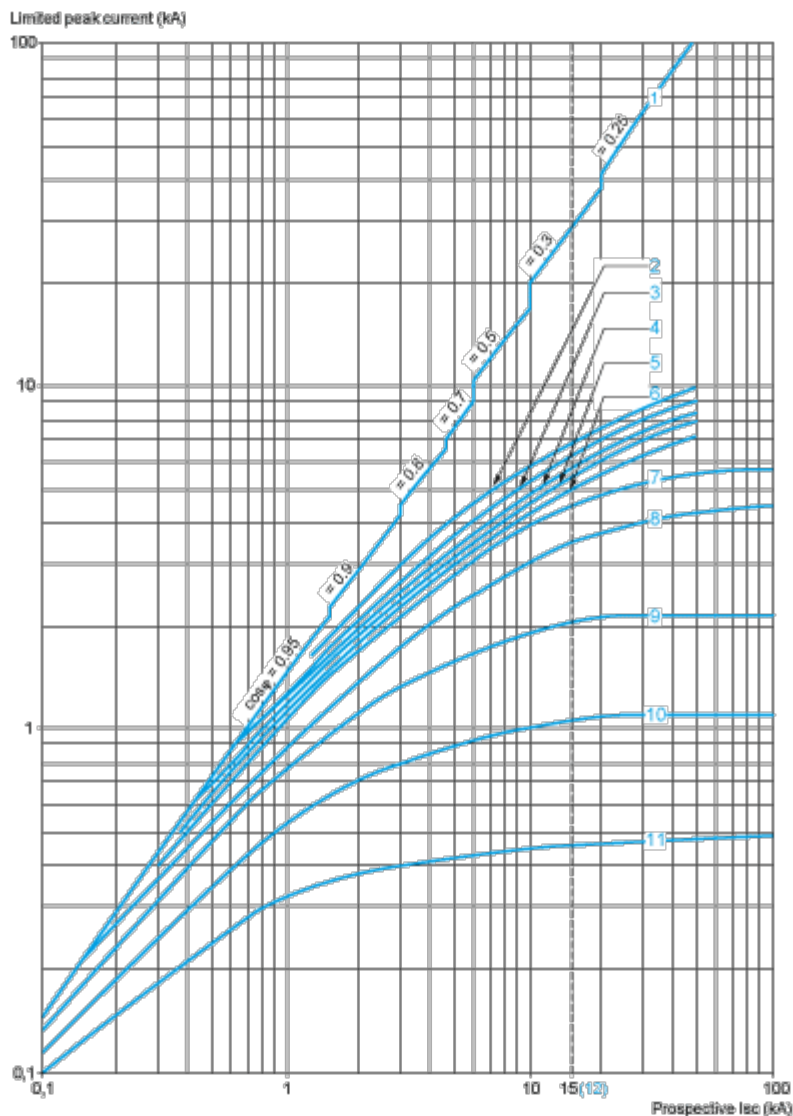


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

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

Dynamic Stress

I peak = f (prospective I_{sc}) at 1.05 U_e = 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 I²dt = 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

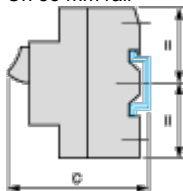
X1 Electrical clearance = 40 mm for $U_e \leq 690$ V

	b
GV2ME●●	89
GV2ME●●3	101

Mounting

GV2ME

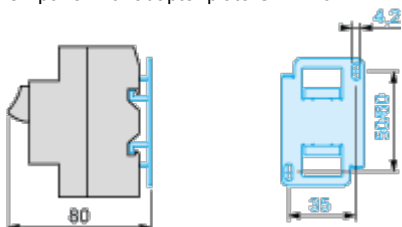
On 35 mm rail



c = 78.5 on AM1 DP200 (35 x 7.5)

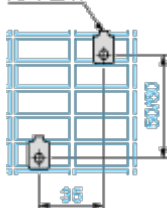
c = 86 on AM1 DE200, ED200 (35 x 15)

On panel with adapter plate GV2AF02



On pre-slotted plate AM1 PA

AF1 EA4



On rails DZ5 MB201

GV2ME056



GV2AF3

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

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

Connections and Schema

GV2ME•• and GV2RT



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



Offer Marketing Illustration

Product benefits / Features



The image shows a TeSys Deca Motor Circuit Breaker, a black rectangular device with a red handle. It has three screw terminals at the top labeled 1, 2, and 3, and three at the bottom labeled 2, 4, and 6. The front panel features a red handle with 'ON' and 'OFF' positions, a 'RESET' button, and a 'STOP' button. A QR code is visible on the front panel. The device is set against a green circular background.

TeSys Deca Motor Circuit Breakers

Technical Benefits

- High breaking capacity up to 100 kA.
- Screw clamp for the connection, with lug and spring terminals.
- Easily identify the tripped breaker.
- Padlockable in all versions.
- Sealable thermal overload settings without additional accessories.
- Short circuit indication for better diagnostics when a trip occurs.
- Maximum 15 current ratings to cover from 0.1 A to 32 A motor current with a IP20 level for finger safety.

Offer Marketing Illustration

Product benefits / Features



TeSys Deca Motor Circuit Breakers

Range Accessories



Energy Sensor



Mounting and adapters



Terminal block



Combination block



Motor starter adapter plate



Current limiter



Comb busbar



Auxiliary contact blocks

Offer Marketing Illustration

Product benefits / Features

TeSys Deca

Motor Circuit Breakers



Universal Integration

Can be used for all type of applications across industry, infrastructure and buildings.



Complete protection

Provide short circuit protection, overload protection, motor (ON/OFF) control, all in a single product.



Standard Sync

Compliant to motor control and protection, in accordance with standards.



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Image of product / Alternate images

Alternative



