

Product data sheet

Specifications



TeSys GV2 Manual Starter and Protector, magnetic circuit protector, toggle switch, 0.4 A, screw clamp terminals

GV2LE03

Product availability : Stock - Normally stocked in distribution facility

Price* : 290.00 USD

Main

Range of Product	TeSys GV2
Range	TeSys
Device short name	GV2LE
Product name	TeSys GV2
Product or Component Type	Circuit breaker
Device Application	Motor
Trip unit technology	Magnetic

Complementary

Poles description	3P
Network type	AC
Utilisation category	Category A IEC 60947-2 AC-3 IEC 60947-4-1
Network frequency	50/60 Hz IEC 60947-2
Fixing mode	35 mm symmetrical DIN rail clipped Panel screwed with adaptor plate)
Operating position	Any position
Motor power kW	0.09 kW 400/415 V AC 50/60 Hz 0.06 kW 400/415 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 % 690 V AC 50/60 Hz IEC 60947-2 100 % 500 V AC 50/60 Hz IEC 60947-2 100 % 230/240 V AC 50/60 Hz IEC 60947-2 100 % 440 V AC 50/60 Hz IEC 60947-2 100 % 400/415 V AC 50/60 Hz IEC 60947-2
Control Type	Toggle
Line Rated Current	0.4 A
Magnetic tripping current	5 A
[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.

[Ui] rated insulation voltage	690 V AC 50/60 Hz IEC 60947-2
[Uimp] rated impulse withstand voltage	6 kV IEC 60947-2
Power dissipation per pole	1.8 W
Mechanical durability	100000 cycles
Electrical durability	100000 cycles AC-3 415 V
Maximum operating rate	40 cyc/h
Rated duty	Continuous IEC 60947-4-1
Tightening torque	15.05 lbf.in (1.7 N.m) screw clamp terminals
Mechanical robustness	Shocks 30 Gn IEC 60068-2-27 Vibrations 5 Gn, 5...150 Hz IEC 60068-2-6
Height	3.50 in (89 mm)
Width	1.77 in (45 mm)
Depth	3.09 in (78.5 mm)
Net Weight	0.73 lb(US) (0.33 kg)
Suitability for isolation	Yes IEC 60947-1

Environment

Standards	EN/IEC 60947-2 EN/IEC 60947-4-1 UL 60947-4-1
Product Certifications	CCC EAC BV RINA UL UKCA
Climatic withstand	IACS E10
IK degree of protection	IK04
IP degree of protection	IP20 IEC 60529
Ambient Air Temperature for Storage	-40...176 °F (-40...80 °C)
Fire resistance	1760 °F (960 °C) IEC 60695-2-1
Operating altitude	0...6561.68 ft (0...2000 m)
Ambient air temperature for operation	-4...140 °F (-20...60 °C)

Ordering and shipping details

Category	18402-WORLD SERVICE PARTS(CONTROL ACCESS)
Discount Schedule	CP10
GTIN	3389110516869
Nbr. of units in pkg.	1
Package weight(Lbs)	8.18 oz (232.0 g)
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.89 in (4.8 cm)

Package 1 width	3.35 in (8.5 cm)
Package 1 Length	3.66 in (9.3 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	24
Package 2 Weight	12.80 lb(US) (5.804 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)

Offer Sustainability

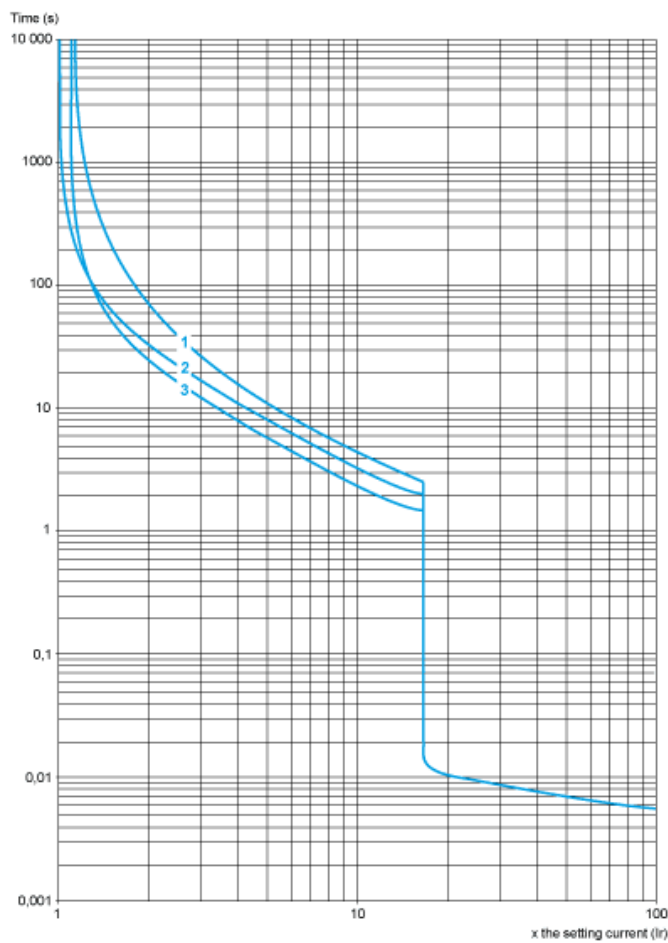
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
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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Tripping Curves for GV2L or LE Combined with Thermal Overload Relay LRD or LR2K

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



- 1

2

3
- 3 poles from cold state

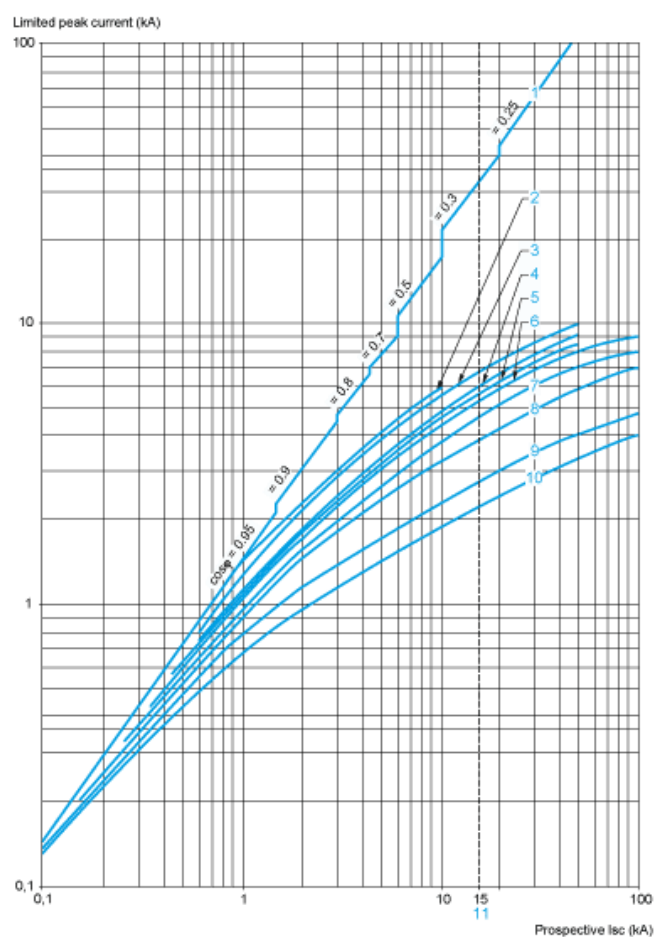
2 poles from cold state

3 poles from hot state

Current Limitation on Short-Circuit for GV2L and GV2LE Only (3-Phase 400/415 V)

Dynamic Stress

$I_{peak} = f$ (prospective I_{sc}) at 1.05 $U_e = 435$ V

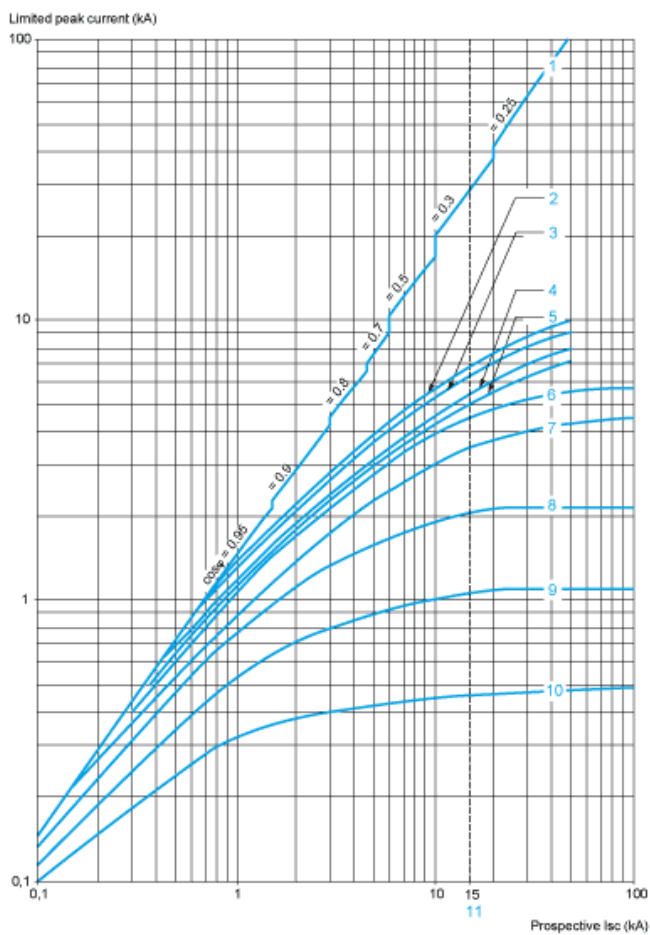


- 1 Maximum peak current
- 2 32 A
- 3 25 A
- 4 18 A
- 5 14 A
- 6 10 A
- 7 6.3 A
- 8 4 A
- 9 2.5 A
- 10 1.6 A
- 11 Limit of rated ultimate breaking capacity on short-circuit of GV2LE (14, 18, 23, and 25 A ratings).

Current Limitation on Short-Circuit for GV2L and GV2LE + Thermal Overload Relay LRD or LR2K (3-Phase 400/415 V)

Dynamic Stress

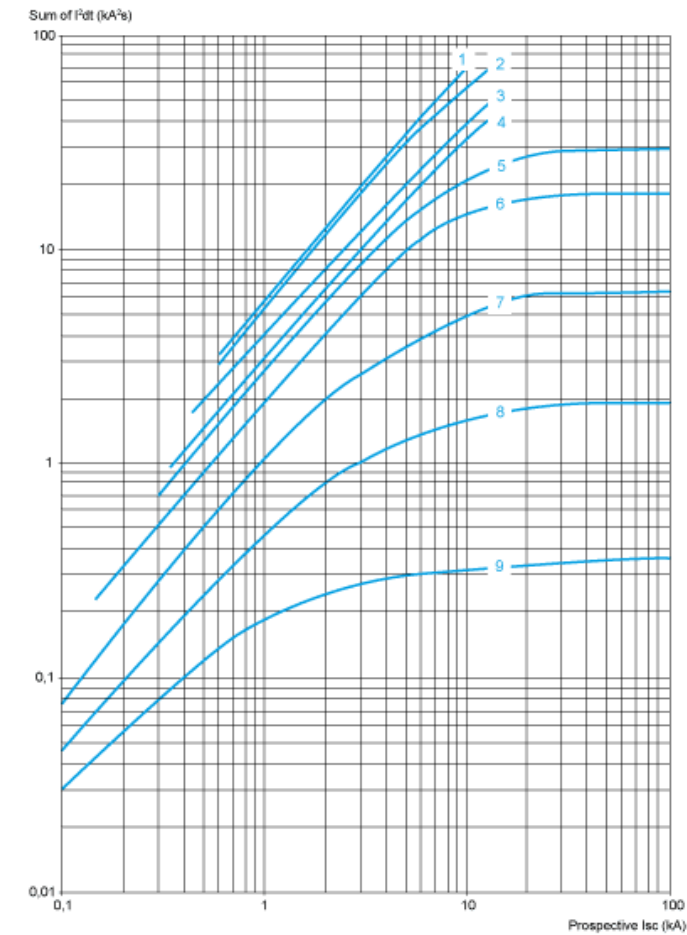
$I_{peak} = f(\text{prospective } I_{sc}) \text{ at } 1.05 U_e = 435 \text{ V}$



Thermal Limit on Short-Circuit for GV2LE Only

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

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

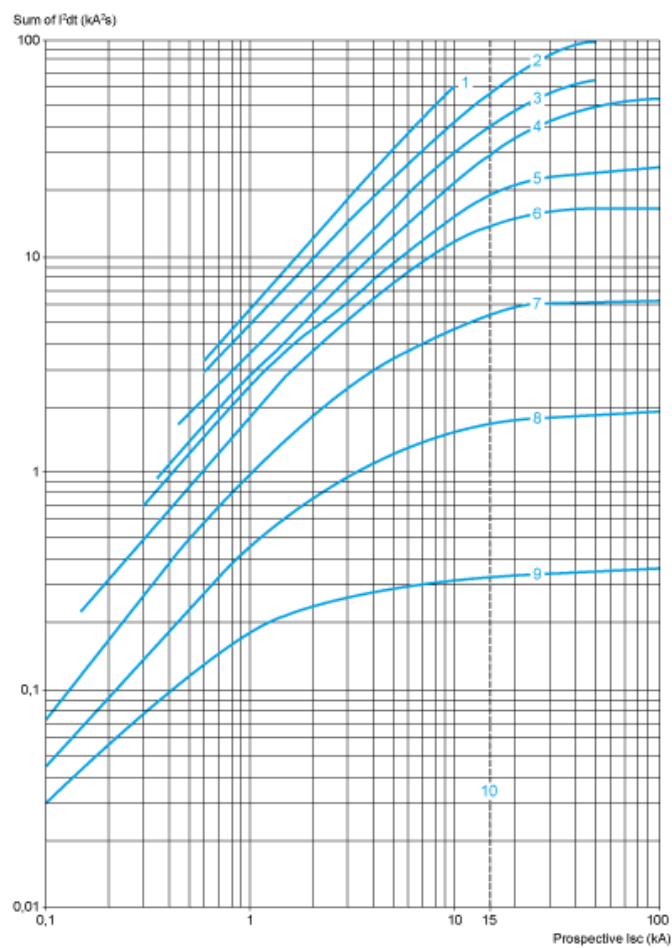


1	32 A
2	25 A
3	18 A
4	14 A
5	10 A
6	6.3 A
7	4 A
8	2.5 A
9	1.6 A

Thermal Limit on Short-Circuit for GV2L and GV2LE + Thermal Overload Relay LRD or LR2K

Thermal Limit in kA²s in the Magnetic Operating Zone

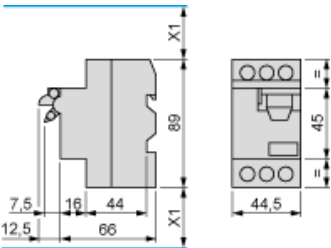
Sum of I²dt = f (prospective Isc) at 1.05 Ue = 435 V



- 1 32 A (GV2LE32)
- 2 25 A and 32 A (GV2L32)
- 3 18 A
- 4 14 A
- 5 10 A
- 6 6.3 A
- 7 4 A
- 8 2.5 A
- 9 1.6 A
- 10 Limit of rated ultimate breaking capacity on short-circuit of GV2 LE (14, 18, 23, and 25 A ratings).

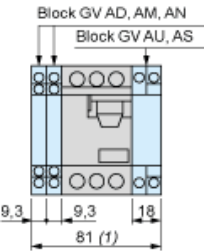
GV2LE

Dimensions



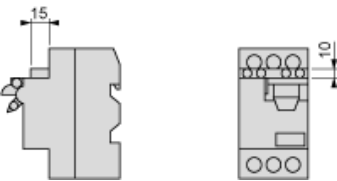
X1 Electrical clearance = 40 mm for Ue ≤ 690 V.

GVAD, AM, AN, AU, AS



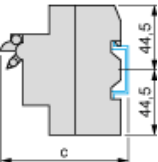
1 Maximum

GVAE

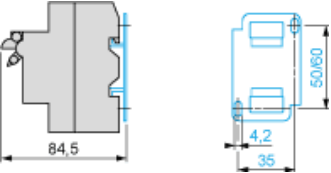


Mounting

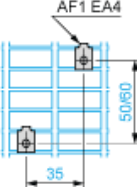
On 35 mm rail



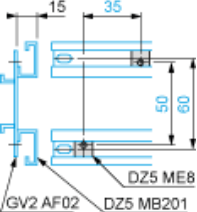
c = 80 on AM1 DP200 (35 x 7.5) and 88 on AM1 DE200, ED200 (35 x15)
On panel with adapter plate GV2 AF02



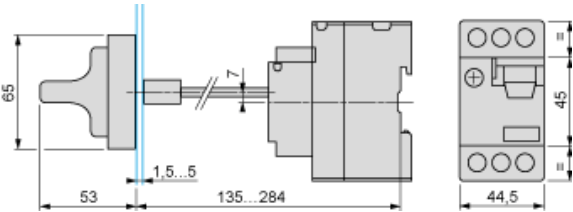
On pre-slotted plate AM1 PA



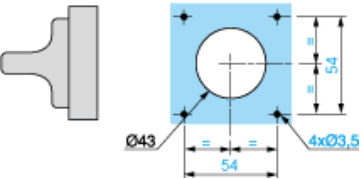
On rails DZ5 MB201



Mounting of External Operator GV2AP03 for GV2LE

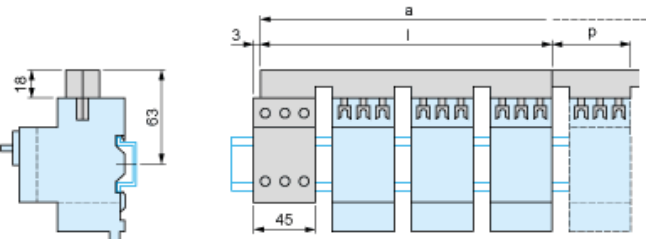


Door cut-out



GV2L and GV2LE

Sets of busbars GV2G445, GV2G454, GV2G472, with terminal block GV2G05

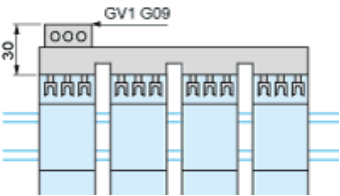


	I	p
GV2G445 (4 x 45 mm)	179	45
GV2G454 (4 x 54 mm)	206	54
GV2G472 (4 x 72 mm)	260	72

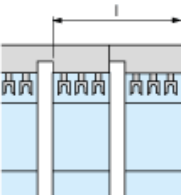
Number of tap-offs	a			
	5	6	7	8
GV2G445	224	269	314	359
GV2G454	260	314	368	422
GV2G472	332	404	476	548

Sets of Busbars for GV2L and GV2LE

Sets of busbars GV2G... with terminal block GV1G09

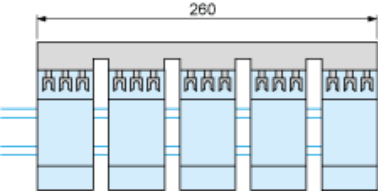


Sets of busbars GV2G245, GV2G254, GV2GR272

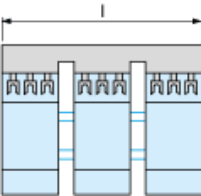


	I
GV2G245 (2 x 45 mm)	89
GV2G254 (2 x 54 mm)	98
GV2G272 (2 x 72 mm)	116

Set of busbars GV2G554



Sets of busbars GV2G345 and GV2G354



	I
GV2G345 (3 x 45 mm)	134
GV2G354 (3 x 54 mm)	152

GV2LE••

