Product data sheet
Characteristics

GV3P18
TeSys Deca Manual Starter and Protector, thermal magnetic circuit protector, rotary knob, 12…18 A, EverLink BTR connectors

Main

Range of Product	TeSys GV3
Range	TeSys Deca TeSys Deca
Device short name	GV3P
Product name	TeSys GV3 TeSys Deca
Product or Component Type	Motor circuit breaker
Device Application	Motor protection
Trip unit technology	Thermal-magnetic

Complementary

Poles description	3P
Network type	AC
Utilisation category	AC-3 IEC 60947-4-1
Network frequency	50/60 Hz IEC 60947-4-1
Fixing mode	35 mm symmetrical DIN rail clipped Panel screwed with 3 x M4 screws)
Operating position	Any position
Motor power kW	7.5 KW 400/415 V AC 50/60 Hz 9 KW 500 V AC 50/60 Hz 15 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 50 KA Icu 440 V AC 50/60 Hz IEC 60947-2 6 KA Icu 690 V AC 50/60 Hz IEC 60947-2 12 kA Icu 500 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 % 440 V AC 50/60 Hz IEC 60947-2 100 % 400/415 V AC 50/60 Hz IEC 60947-2 50 % 500 V AC 50/60 Hz IEC 60947-2 50 % 690 V AC 50/60 Hz IEC 60947-2
Control Type	Rotary handle
Line Rated Current	18 A
Thermal protection adjustment range	12…18 A
Magnetic tripping current	252 A
[Ue] rated operational voltage	690 V AC 50/60 Hz IEC 60947-2
[Ui] rated insulation voltage	690 V AC 50/60 Hz IEC 60947-2
[Ith] conventional free air thermal current	18 A IEC 60947-4-1
[Uimp] rated impulse withstand voltage	6 kV IEC 60947-2
Power dissipation per pole	8 W
Mechanical durability	50000 cycles
Electrical durability	50000 cycles AC-3 415 V In
Maximum operating rate	25 cyc/h
Rated duty	Continuous IEC 60947-4-1
Tightening torque	44.25 Lbf.In (5 N.m) EverLink BTR screw connectors 0.04 in² (25 mm²) 70.81 lbf.in (8 N.m) EverLink BTR screw connectors 0.05 in² (35 mm²)

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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Mechanical robustness	Shocks 15 Gn for 11 ms closed IEC 60068-2-27 Shocks 30 Gn for 11 ms opened IEC 60068-2-27 Vibrations 4 Gn, 5...300 Hz IEC 60068-2-6
Phase failure sensitivity	Yes IEC 60947-4-1
Height	5.20 in (132 mm)
Width	2.17 in (55 mm)
Depth	5.35 in (136 mm)
Net Weight	2.12 lb(US) (0.96 kg)
Color	Dark grey
Suitability for isolation	Yes IEC 60947-1

Environment

Standards	EN/IEC 60947-2 EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product Certifications	CCC EAC BV LROS (Lloyds register of shipping) DNV-GL ABS UL CSA UKCA ATEX
Climatic withstand	IACS E10
IK degree of protection	IK09 enclosure
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 60695-2-11
Operating altitude	9842.52 ft (3000 m)
Ambient air temperature for operation	-4…140 °F (-20…60 °C)

Ordering and shipping details

Category	22366-MAN STR PROTECTORS-GV1/GV3
Discount Schedule	I11
GTIN	3389119405362
Nbr. of units in pkg.	1
Package weight(Lbs)	35.13 oz (996.0 g)
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.56 in (6.5 cm)
Package 1 width	5.71 in (14.5 cm)
Package 1 Length	6.30 in (16 cm)
Unit Type of Package 2	P06
Number of Units in Package 2	60
Package 2 Weight	160.41 lb(US) (72.76 kg)
Package 2 Height	28.94 in (73.5 cm)
Package 2 width	23.62 in (60 cm)
Package 2 Length	31.50 in (80 cm)

Offer Sustainability

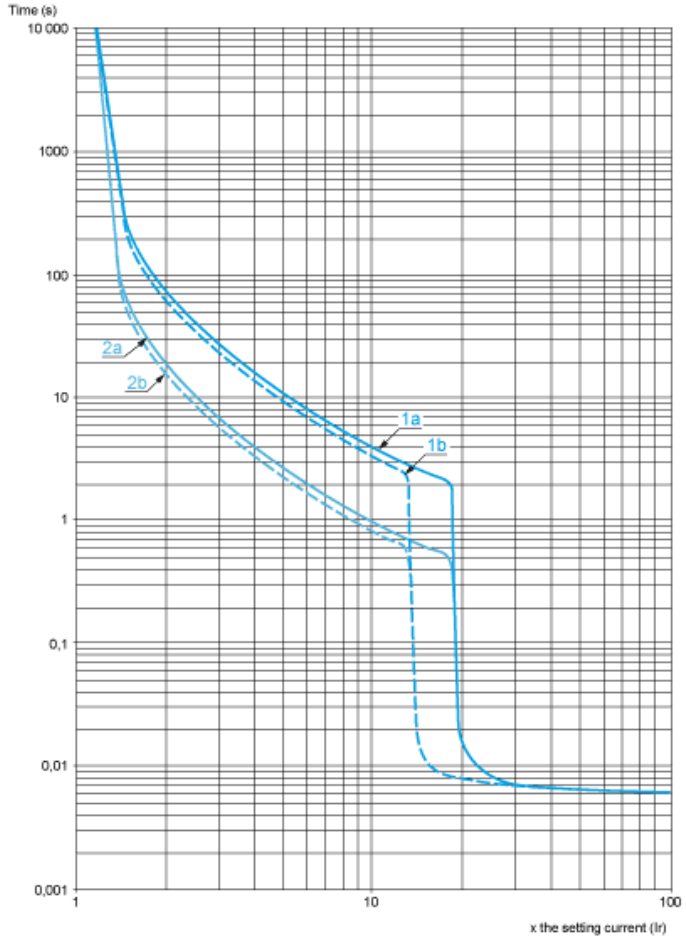
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh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

Thermal-Magnetic Tripping Curves

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

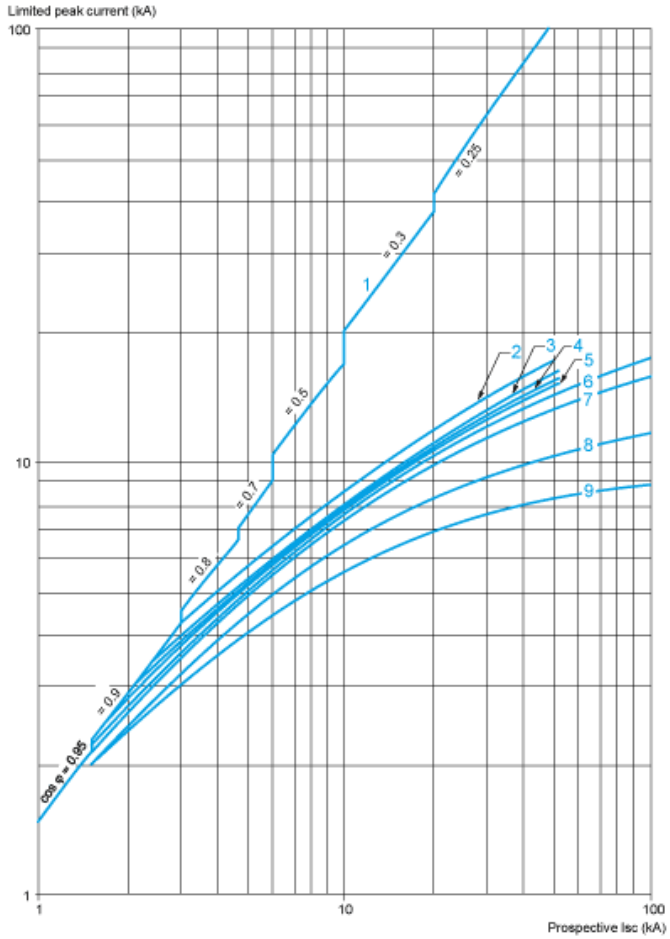


1a 3 poles from cold state (Ir minimum): GV3P
1b 3 poles from cold state (Ir maximum): GV3P
2a 3 poles from hot state (Ir minimum): GV3P
2b 3 poles from hot state (Ir maximum): GV3P

Current Limitation on Short-Circuit (3-Phase 400/415 V)

Dynamic Stress

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

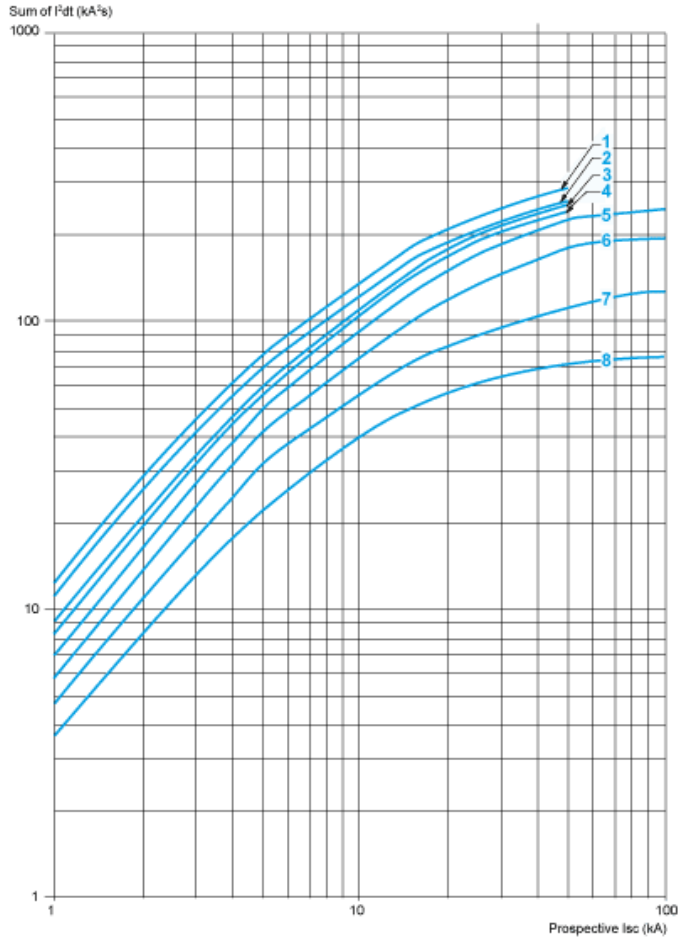


1 Maximum peak current
2 70-80 A (GV3P80), 62-73 A (GV3P73)
3 48-65 A (GV3P65)
4 37-50 A (GV3P50)
5 30-40 A (GV3P40)
6 23-32 A (GV3P32)
7 17-25 A (GV3P25)
8 12-18 A (GV3P18)
9 9-13 A (GV3P13)

Maximum Thermal Limit on Short-Circuit

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

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

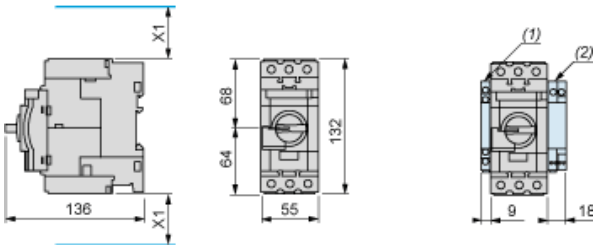


1 70-80 (GV3P80) - 62-73 (GV3P73)
2 48-65 A (GV3P65)
3 37-50 A (GV3P50)
4 30-40 A (GV3P40)
5 23-32 A (GV3P32)
6 17-25 A (GV3P25)
7 12-18 A (GV3P18)
8 9-13 A (GV3P13)

Life Is On Schneider Electric

GVI3L, GV3P

Dimensions

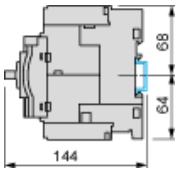


(1) Blocks GVAN••, GVAD•• and GVAM11.
(2) Blocks GV3AU•• and GV3AS••.

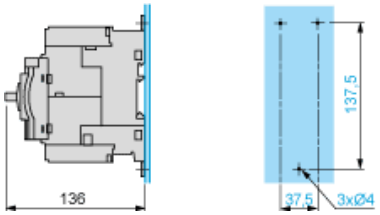
X1 = Electrical clearance (ISC max) 40 mm for Ue ≤ 500 V, 50 mm for Ue ≤ 690 V

NOTE: Leave a space of 9 mm between 2 circuit breakers: either an empty space or side-mounting add-on contact blocks. Side by side mounting is possible up to 40 °C.

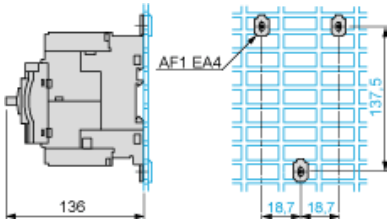
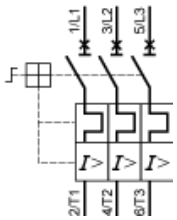
Mounting on Rail AM1 DE200 or AM1 ED201



Panel Mounting, using M4 Screws



Mounting on Pre-Slotted Plate AM1 PA



GV3P••