

Product data sheet

Specifications



TeSys GV2 Manual Starter and Protector, thermal magnetic circuit protector, rotary handle, 17 to 23 A, screw clamp

GV2P21

Product availability : Stock - Normally stocked in distribution facility

Main

Range	TeSys TeSys Deca
Range of Product	TeSys GV2
Device short name	GV2P
Product name	TeSys GV2 TeSys Deca
Product or Component Type	Circuit breaker
Device application	Motor
Trip unit technology	Thermal-magnetic

Complementary

Poles description	3P
Network type	AC
Utilisation category	AC-3 IEC 60947-4-1 Category A IEC 60947-2
Network frequency	50/60 Hz IEC 60947-4-1
Fixing mode	35 mm symmetrical DIN rail clipped Panel screwed with 2 x M4 screws)
Operating position	Any position
Motor power kW	9 kW 400/415 V AC 50/60 Hz 11 kW 500 V AC 50/60 Hz 18.5 kW 690 V AC 50/60 Hz
Breaking capacity	100 kA Icu 230/240 V AC 50/60 Hz IEC 60947-2 10 kA Icu 500 V AC 50/60 Hz IEC 60947-2 4 kA Icu 690 V AC 50/60 Hz IEC 60947-2 20 kA Icu 440 V AC 50/60 Hz IEC 60947-2 50 kA Icu 400/415 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 % 230/240 V AC 50/60 Hz IEC 60947-2 75 % 500 V AC 50/60 Hz IEC 60947-2 50 % 400/415 V AC 50/60 Hz IEC 60947-2 75 % 440 V AC 50/60 Hz IEC 60947-2
Control type	Rotary knob
Line Rated Current	23 A

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Thermal protection adjustment range	17...23 A
Magnetic tripping current	327 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	23 A IEC 60947-4-1
[Uimp] rated impulse withstand voltage	6 kV IEC 60947-2
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 IEC 60947-4-1
Tightening torque	15.05 lbf.in (1.7 N.m) screw clamp terminals
Suitability for isolation	Yes IEC 60947-1
Phase failure sensitivity	Yes IEC 60947-4-1
Height	3.50 in (89 mm)
Width	1.77 in (45 mm)
Depth	3.82 in (97 mm)
Color	Dark grey

Environment

Standards	EN/IEC 60947-2 EN/IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product certifications	IECEE CB Scheme UL CSA CCC EAC ATEX BV LROS (Lloyds register of shipping) DNV-GL RINA UKCA
Protective treatment	TH
IP degree of protection	IP20 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	3389110213522
Nbr. of units in pkg.	1

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Package weight(Lbs)	11.92 oz (338 g)
Returnability	Yes
Country of origin	TH

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	1.89 in (4.8 cm)
Package 1 width	3.66 in (9.3 cm)
Package 1 Length	3.94 in (10 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	20
Package 2 Weight	15.64 lb(US) (7.094 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	273.24 lb(US) (123.94 kg)
Package 3 Height	30.31 in (77 cm)
Package 3 width	23.62 in (60 cm)
Package 3 Length	31.50 in (80 cm)

Offer Sustainability

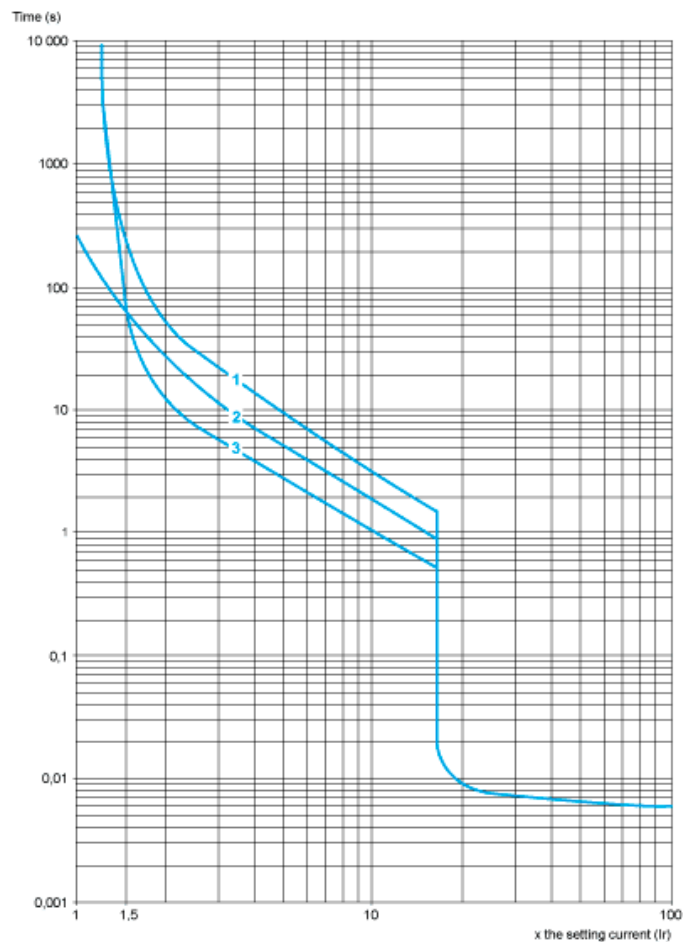
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to P65Warnings website
REACH Regulation	REACH Declaration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

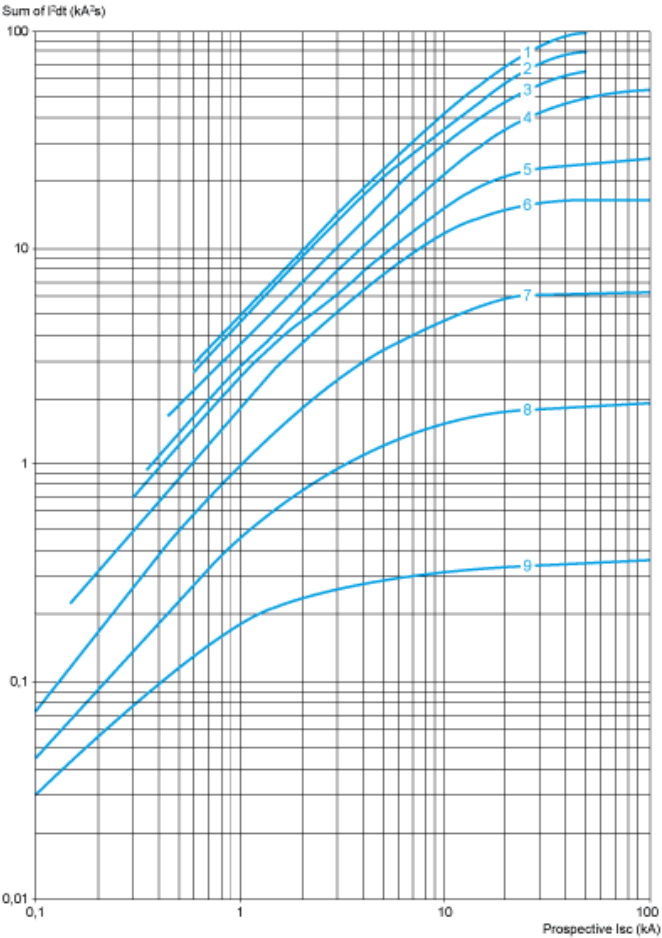


- 1 Maximum peak current
- 2 24-32 A
- 3 20-25 A
- 4 17-23 A
- 5 13-18 A
- 6 9-14 A
- 7 6-10 A
- 8 4-6.3 A
- 9 2.5-4 A
- 10 1.6-2.5 A
- 11 1-1.6 A
- 12 Limit of rated ultimate breaking capacity on short-circuit of GV2ME (14, 18, 23, and 25 A ratings).

Thermal Limit on Short-Circuit for GV2P

Thermal Limit in kA²s in the Magnetic Operating Zone

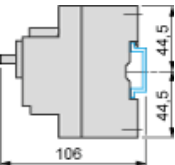
Sum of I²dt = f (prospective Isc) at 1.05 Ue = 435 V



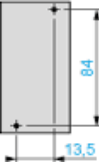
- 1 24-32 A
- 2 20-25 A
- 3 17-23 A
- 4 13-18 A
- 5 9-14 A
- 6 6-10 A
- 7 4-6.3 A
- 8 2.5-4 A
- 9 1.6-2.5 A
- 10 1-1.6 A

GV2P

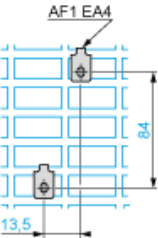
On rail AM1 DE200, ED200 (35 x 15)



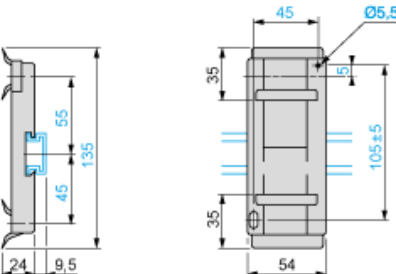
Panel mounted



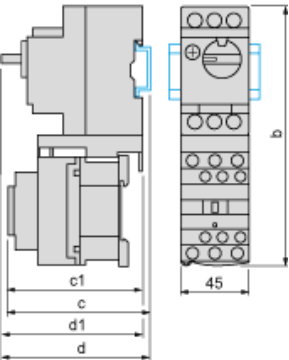
On pre-slotted plate AM1 PA



Adapter plate GK2AF01



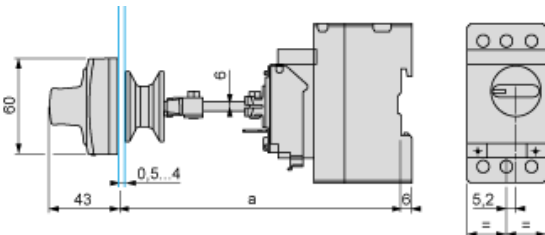
Combination GV2P + TeSys d contactor



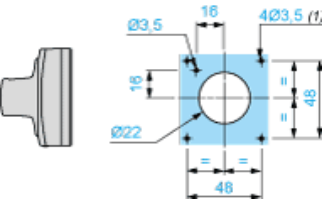
GV2P +	LC1D09...D18	LC1D25 and D32
b	176.4	186.8
c1	100.1	106.4
c	105.6	111.9
d1	95	95
d	100.5	100.5

Mounting

Mounting of External Operator GV2APN01, GV2APN02 or GV2APN04 for Motor Circuit Breakers GV2P

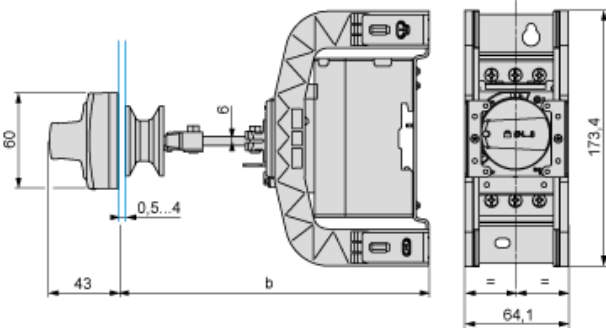


Door cut-out



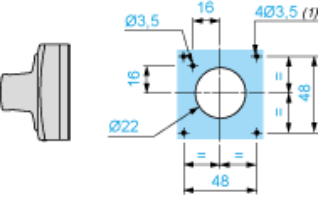
(1) For IP65 only.

Mounting of External Operator GVAPH02 for Motor Circuit Breakers GV2P



	a		b	
	Minimum	Maximum	Minimum	Maximum
GV2APN..	140	250	–	–
GV2APN.. + GVAPH02	–	–	151	250
GV2APN.. + GVAPK11	250	434	–	–
GV2APN.. + GVAPH02 + GVAPK11	–	–	250	445

Door cut-out



(1) For IP65 only.

GV2P••

