

Product data sheet

Specifications



TeSys Deca Manual Starter and Protector, thermal magnetic circuit protector, rotary handle, 13 to 18 A, screw clamp

GV2P20

Product availability: Stock - Normally stocked in distribution facility

Main

Range	TeSys Deca
Product name	TeSys GV2
Product or Component Type	Motor circuit breaker
Device short name	GV2P
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 60947-2
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 50 kA Icu 400/415 V AC 50/60 Hz IEC 60947-2 20 kA Icu 440 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
[Ics] rated service short-circuit breaking capacity	100 % 230/240 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 75 % 500 V AC 50/60 Hz IEC 60947-2 100 % 690 V AC 50/60 Hz IEC 60947-2
Control Type	Rotary handle
Line Rated Current	18 A
Thermal protection adjustment range	13...18 A IEC 60947-2
Magnetic tripping current	341 A
[Ith] conventional free air thermal current	18 A IEC 60947-2
[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
[Uimp] rated impulse withstand voltage	6 kV IEC 60947-2
Phase failure sensitivity	Yes IEC 60947-4-1

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

Suitability for isolation	Yes IEC 60947-1
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	Uninterrupted IEC 60947-4-1
Connections - terminals	Power circuit screw clamp terminal 2 0.002...0.009 in² (1...6 mm²)solid Power circuit screw clamp terminal 2 0.002...0.009 in² (1.5...6 mm²)flexible without cable end Power circuit screw clamp terminal 2 0.002...0.006 in² (1...4 mm²)flexible with cable end
Tightening torque	15.05 lbf.in (1.7 N.m) screw clamp terminal
Fixing mode	35 mm symmetrical DIN rail clipped Panel screwed with 2 x M4 screws)
Mounting position	Horizontal Vertical
Width	1.8 in (45 mm)
Height	3.5 in (89 mm)
Depth	3.8 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 IEC/EN 60335-2-40:Annex JJ IEC/EN 60335-1:Clause 30.2
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	3389110213515

Returnability	Yes
Country of origin	TH

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.890 in (4.800 cm)
Package 1 Width	3.661 in (9.300 cm)
Package 1 Length	3.937 in (10.000 cm)
Package weight(Lbs)	11.781 oz (334.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	20
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	15.393 lb(US) (6.982 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	320
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	260.745 lb(US) (118.272 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	9
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
SCIP Number	B6e713cd-4039-4454-b0b3-f47b7c114247
REACH Regulation	REACH Declaration
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

Use Again

Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Performance Curves

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

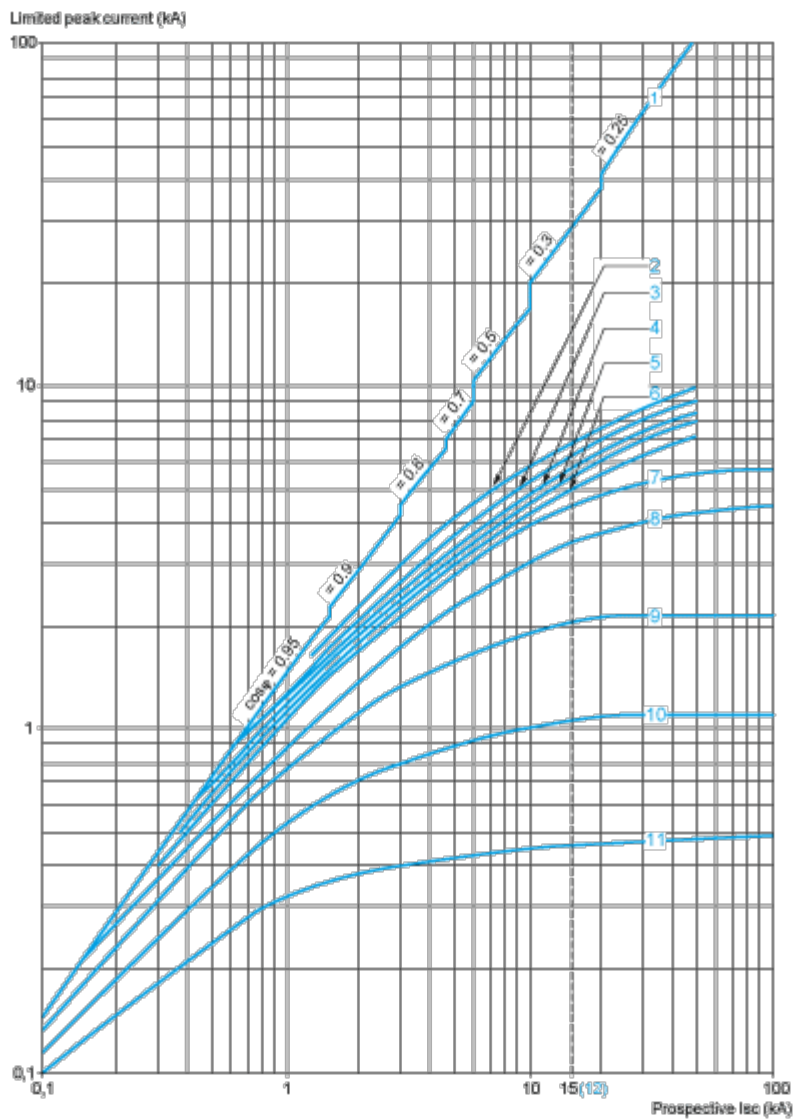


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

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 GV2P

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

Sum of $I^2dt = f$ (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

GV2P

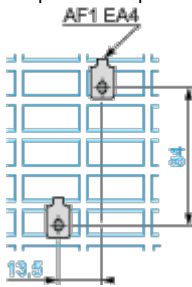
On rail AM1 DE200, ED200 (35 x 15)



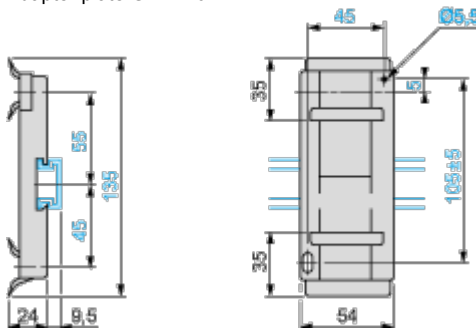
Panel mounted



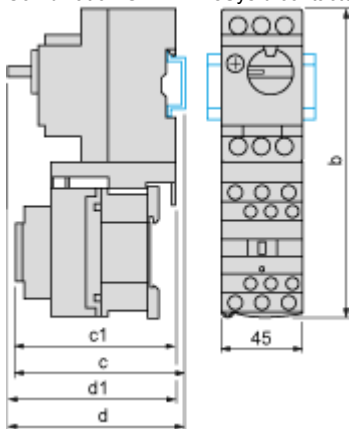
On pre-slotted plate AM1 PA



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

Connections and Schema

GV2P••



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.



Offer Marketing Illustration

Product benefits / Features

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



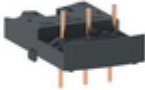
Auxiliary
contact blocks



Energy Sensor



Terminal block



Combination block



Current limiter



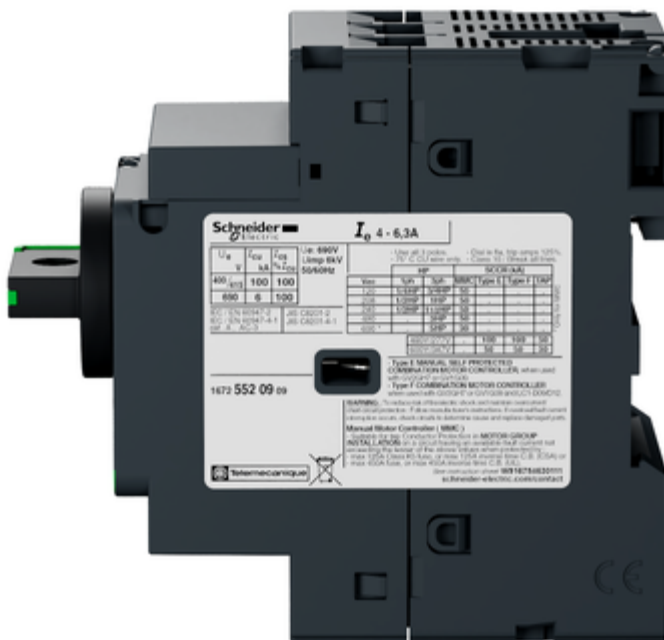
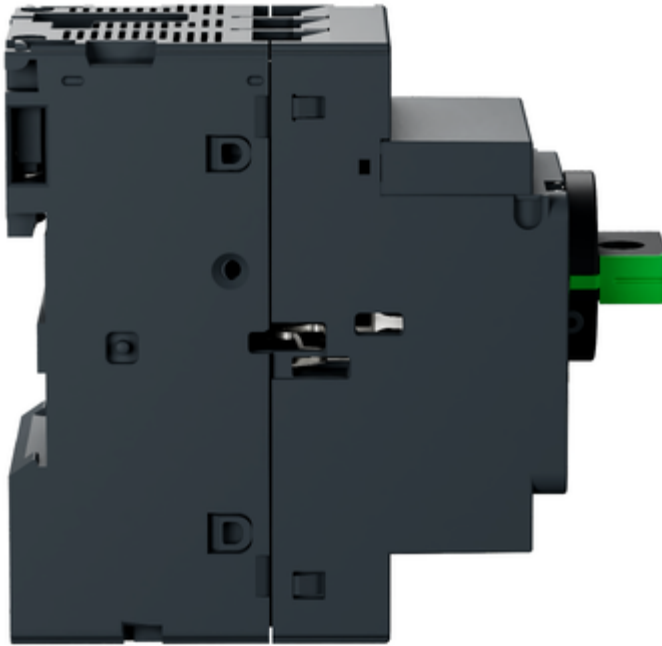
Comb busbar



Extended
rotary handle

Image of product / Alternate images

Alternative





Technical Illustration

Assembly's dimensions

