

# Product datasheet

Specifications



## TeSys GV2 - Motor circuit breaker - thermal-magnetic - 9...14 A

GV2P16

### 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 conforming to IEC 60947-2 AC-3 conforming to IEC 60947-4-1 AC-3e conforming to IEC 60947-4-1
Network frequency	50/60 Hz conforming to IEC 60947-4-1
Motor power kW	5.5 kW at 400/415 V AC 50/60 Hz 7.5 kW at 500 V AC 50/60 Hz 9 kW at 690 V AC 50/60 Hz 11 kW at 690 V AC 50/60 Hz
Breaking capacity	100 kA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 42 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 6 kA Icu at 690 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service short-circuit breaking capacity	100 % at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 75 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 75 % at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 690 V AC 50/60 Hz conforming to IEC 60947-2
Control type	Rotary handle
[In] rated current	14 A
Thermal protection adjustment range	9...14 A conforming to IEC 60947-4-1
Magnetic tripping current	253.4 A
[Ith] conventional free air thermal current	14 A conforming to IEC 60947-4-1
[Ue] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
[Ui] rated insulation voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947-2
Phase failure sensitivity	Yes conforming to IEC 60947-4-1

<b>Suitability for isolation</b>	Yes conforming to IEC 60947-1
<b>Power dissipation per pole</b>	2.5 W
<b>Mechanical durability</b>	100000 cycles
<b>Electrical durability</b>	100000 cycles for AC-3 at 415 V In 100000 cycles for AC-3e at 415 V In
<b>Rated duty</b>	Continuous conforming to IEC 60947-4-1
<b>Tightening torque</b>	1.7 N.m - on screw clamp terminal
<b>Mounting position</b>	Horizontal Vertical
<b>Width</b>	45 mm
<b>Height</b>	89 mm
<b>Depth</b>	97 mm
<b>Colour</b>	Dark grey

## Environment

<b>Standards</b>	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
<b>Product certifications</b>	CCC UL CSA EAC ATEX LROS (Lloyds register of shipping) BV RINA DNV-GL UKCA
<b>IK degree of protection</b>	IK04
<b>IP degree of protection</b>	IP20 conforming to IEC 60529
<b>Climatic withstand</b>	conforming to IACS E10
<b>Ambient air temperature for storage</b>	-40...80 °C
<b>Fire resistance</b>	960 °C conforming to IEC 60695-2-11
<b>Ambient air temperature for operation</b>	-20...60 °C
<b>Mechanical robustness</b>	Shocks: 30 Gn for 11 ms Vibrations: 5 Gn, 5...150 Hz
<b>Operating altitude</b>	2000 m

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	4.800 cm
<b>Package 1 Width</b>	9.500 cm
<b>Package 1 Length</b>	10.000 cm
<b>Package 1 Weight</b>	336.000 g
<b>Unit Type of Package 2</b>	S02

<b>Number of Units in Package 2</b>	20
<b>Package 2 Height</b>	15.000 cm
<b>Package 2 Width</b>	30.000 cm
<b>Package 2 Length</b>	40.000 cm
<b>Package 2 Weight</b>	6.858 kg
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	320
<b>Package 3 Height</b>	75.000 cm
<b>Package 3 Width</b>	60.000 cm
<b>Package 3 Length</b>	80.000 cm
<b>Package 3 Weight</b>	109.260 kg

## Contractual warranty

<b>Warranty</b>	12 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-CO<sub>2</sub> 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

Reach Free Of Svhc

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](#)

Performance Curves

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

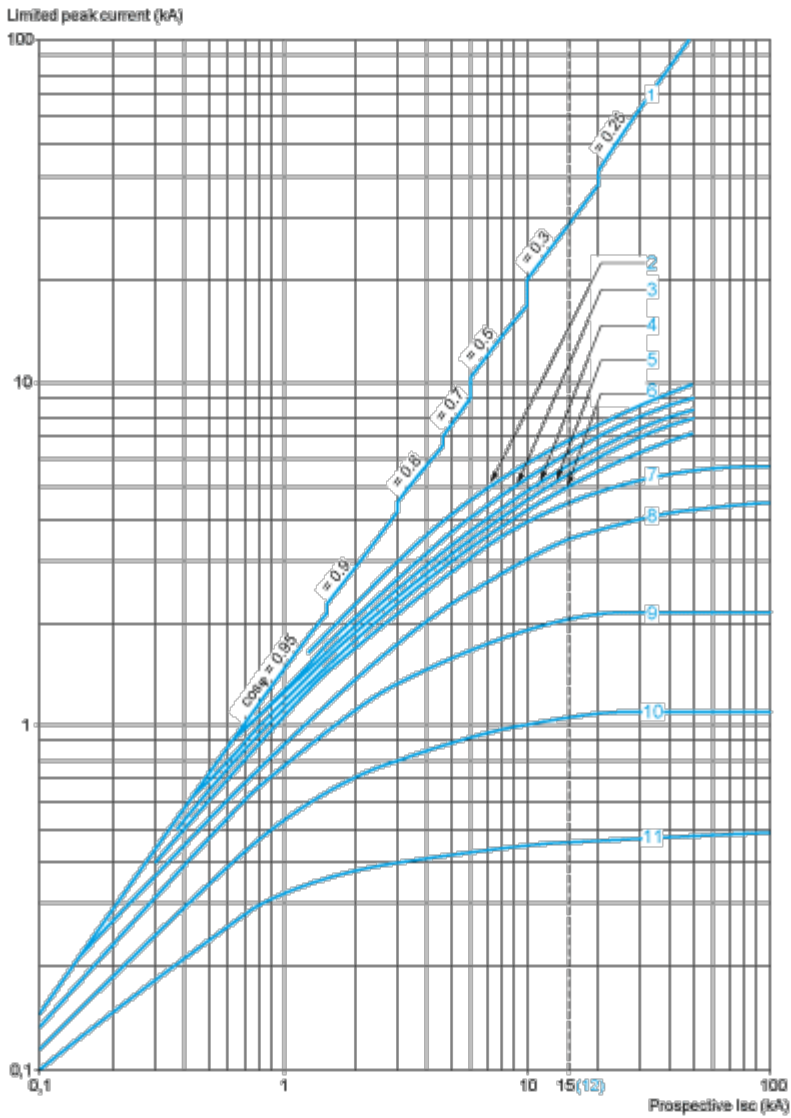


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

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

**Dynamic Stress**

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



- 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

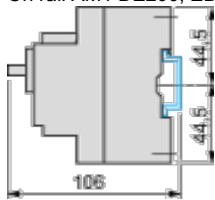


- 1 24-32 A
- 2 20-25 A
- 3 17-23 A
- 4 13-18 A
- 5 9-14 A
- 6 6-10 A
- 7 4-6.3 A
- 8 2.5-4 A
- 9 1.6-2.5 A
- 10 1-1.6 A

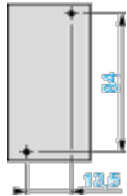
Dimensions Drawings

**GV2P**

On rail AM1 DE200, ED200 (35 x 15)



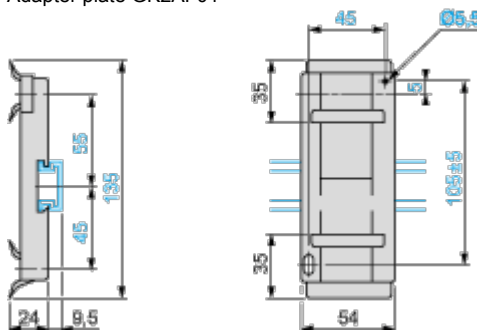
Panel mounted



On pre-slotted plate AM1 PA



Adapter plate GK2AF01



Combination GV2P + TeSys d contactor

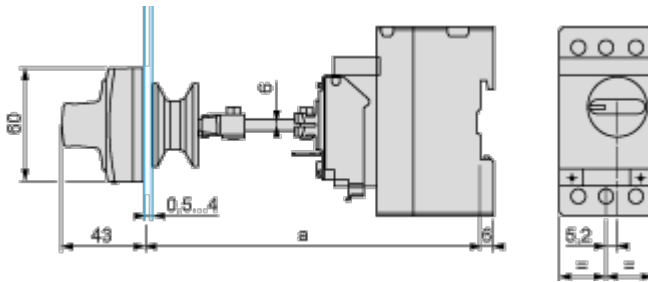




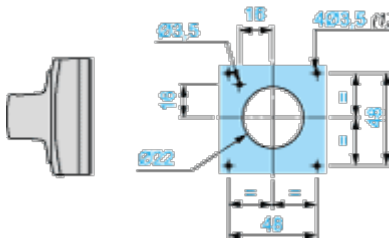
GV2P +	LC1D09...D18	LC1D25 and D32
b	176.4	186.8
c1	100.1	106.4
c	105.6	111.9
d1	95	95
d	100.5	100.5

**Mounting**

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

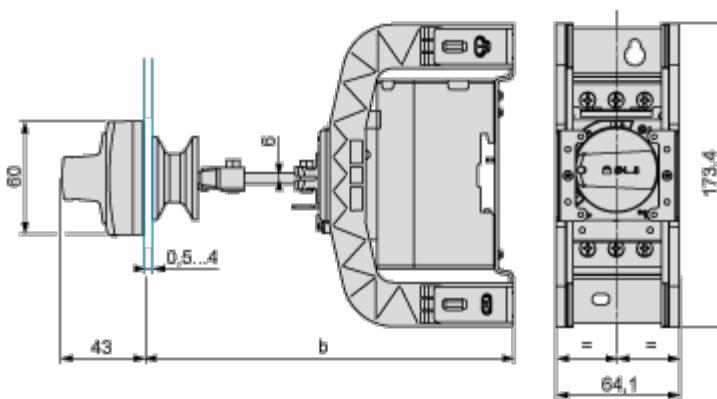


Door cut-out



(1) For IP65 only.

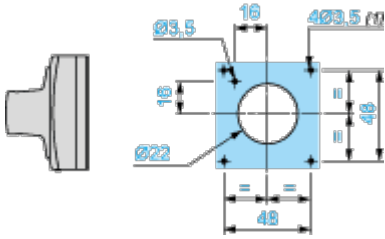
Mounting of External Operator GVAPH02 for Motor Circuit Breakers GV2P



	a		b	
	Minimum	Maximum	Minimum	Maximum
GV2APN <sub>..</sub>	140	250	-	-
GV2APN <sub>..</sub> + GVAPH02	-	-	151	250

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

Door cut-out

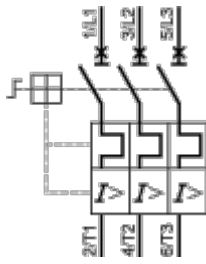


(1) For IP65 only.

Connections and Schema

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GV2P••



Offer Marketing Illustration

Product benefits / Features

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**TeSys Deca Motor Circuit Breakers**  
Range Accessories

Auxiliary contact blocks

Energy Sensor

Terminal block

Combination block

Current limiter

Comb busbar

Extended rotary handle

The image displays a collection of accessories for TeSys Deca Motor Circuit Breakers. At the top left, a large circuit breaker is shown against a green circular background. Below it, seven different accessory components are arranged in two rows. Each component is accompanied by a text label: Auxiliary contact blocks, Energy Sensor, Terminal block, Combination block, Current limiter, Comb busbar, and Extended rotary handle. The accessories include various electrical components like contact blocks, sensors, terminal blocks, busbars, and handles, all designed to enhance the functionality of the motor circuit breakers.

Offer Marketing Illustration

Product benefits / Features

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The image shows a TeSys Deca Motor Circuit Breaker, a black rectangular device with a green handle. It has three main terminals at the top labeled 1L1, 3L2, and 5L3, and three main terminals at the bottom labeled 2T1, 4T2, and 6T3. A green handle is positioned in the center, with a red indicator showing the breaker's status. 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

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## 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

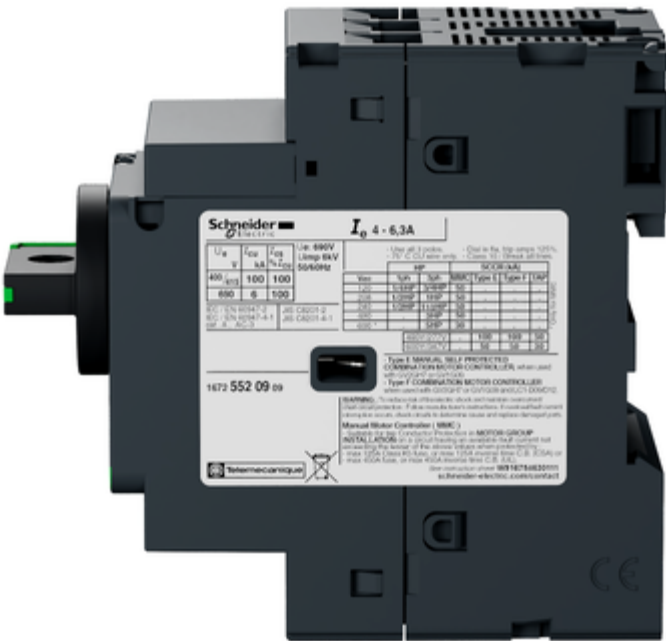
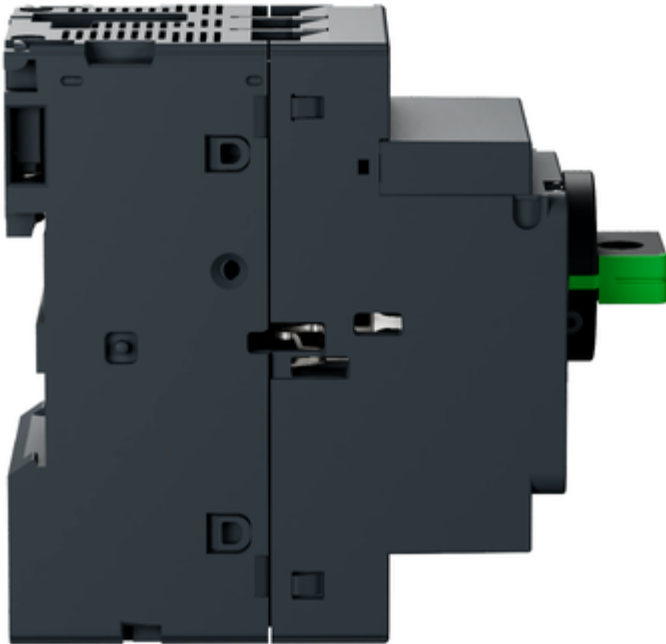
Compliant to motor control and protection, in accordance with standards.



Image of product / Alternate images

Alternative

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**Schneider Electric**

**I<sub>n</sub> 4 - 6,3A**

U <sub>e</sub>	I <sub>n</sub>	I <sub>cu</sub>	I <sub>cs</sub>	U <sub>imp</sub> kV
480 V	3A	100	100	50/60Hz
690 V	6	100		

- Use at 60°C ambient temperature  
 - Use at 100°C ambient temperature  
 - Use at 125°C ambient temperature  
 - Use at 150°C ambient temperature  
 - Use at 175°C ambient temperature  
 - Use at 200°C ambient temperature  
 - Use at 225°C ambient temperature  
 - Use at 250°C ambient temperature  
 - Use at 275°C ambient temperature  
 - Use at 300°C ambient temperature  
 - Use at 325°C ambient temperature  
 - Use at 350°C ambient temperature  
 - Use at 375°C ambient temperature  
 - Use at 400°C ambient temperature  
 - Use at 425°C ambient temperature  
 - Use at 450°C ambient temperature  
 - Use at 475°C ambient temperature  
 - Use at 500°C ambient temperature  
 - Use at 525°C ambient temperature  
 - Use at 550°C ambient temperature  
 - Use at 575°C ambient temperature  
 - Use at 600°C ambient temperature  
 - Use at 625°C ambient temperature  
 - Use at 650°C ambient temperature  
 - Use at 675°C ambient temperature  
 - Use at 700°C ambient temperature  
 - Use at 725°C ambient temperature  
 - Use at 750°C ambient temperature  
 - Use at 775°C ambient temperature  
 - Use at 800°C ambient temperature  
 - Use at 825°C ambient temperature  
 - Use at 850°C ambient temperature  
 - Use at 875°C ambient temperature  
 - Use at 900°C ambient temperature  
 - Use at 925°C ambient temperature  
 - Use at 950°C ambient temperature  
 - Use at 975°C ambient temperature  
 - Use at 1000°C ambient temperature

Type F MANUAL SELF PROTECTING  
 COMBINATION MOTOR CIRCUIT BREAKER  
 with integral thermal magnetic trip  
 Type F COMBINATION MOTOR CIRCUIT BREAKER  
 with integral thermal magnetic trip

WARNING: This device is intended for use in industrial applications only. It is not intended for use in residential applications. It is not intended for use in applications where it may be exposed to fire or explosion. It is not intended for use in applications where it may be exposed to high voltage or high current. It is not intended for use in applications where it may be exposed to high temperature or high humidity. It is not intended for use in applications where it may be exposed to high vibration or high shock. It is not intended for use in applications where it may be exposed to high electromagnetic interference. It is not intended for use in applications where it may be exposed to high radio frequency interference. It is not intended for use in applications where it may be exposed to high magnetic fields. It is not intended for use in applications where it may be exposed to high electric fields. It is not intended for use in applications where it may be exposed to high acoustic fields. It is not intended for use in applications where it may be exposed to high optical fields. It is not intended for use in applications where it may be exposed to high thermal fields. It is not intended for use in applications where it may be exposed to high mechanical fields. It is not intended for use in applications where it may be exposed to high chemical fields. It is not intended for use in applications where it may be exposed to high biological fields. It is not intended for use in applications where it may be exposed to high nuclear fields. It is not intended for use in applications where it may be exposed to high cosmic fields. It is not intended for use in applications where it may be exposed to high gravitational fields. It is not intended for use in applications where it may be exposed to high magnetic fields. It is not intended for use in applications where it may be exposed to high electric fields. It is not intended for use in applications where it may be exposed to high acoustic fields. It is not intended for use in applications where it may be exposed to high optical fields. It is not intended for use in applications where it may be exposed to high thermal fields. It is not intended for use in applications where it may be exposed to high mechanical fields. It is not intended for use in applications where it may be exposed to high chemical fields. It is not intended for use in applications where it may be exposed to high biological fields. It is not intended for use in applications where it may be exposed to high nuclear fields. It is not intended for use in applications where it may be exposed to high cosmic fields. It is not intended for use in applications where it may be exposed to high gravitational fields.

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