

# Lembar data produk

Spesifikasi



## TeSys GV2 - Motor circuit breaker - thermal-magnetic - 2.5...4 A

GV2P08

### 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	1.1 kW at 400/415 V AC 50/60 Hz 1.5 kW at 500 V AC 50/60 Hz 2.2 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 60947-2 100 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 8 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 60947-2 100 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 100 % 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	4 A
Thermal protection adjustment range	2.5...4 A conforming to IEC 60947-4-1
Magnetic tripping current	74 A
[Ith] conventional free air thermal current	4 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
Suitability for isolation	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>	10.200 cm
<b>Package 1 Weight</b>	324.000 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	20

Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.756 kg
Unit Type of Package 3	P06
Number of Units in Package 3	320
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	114.912 kg

## Contractual warranty

Warranty	12 months
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## Keberlanjutan

**Green Premium™** label adalah komitmen Schneider Electric untuk memberikan produk dengan performa lingkungan terbaik di kelasnya. Green Premium menjanjikan kepatuhan pada peraturan terbaru, transparansi pada dampak lingkungan, serta produk melingkar dan rendah CO<sub>2</sub>.

**Panduan untuk menilai keberlanjutan produk** adalah laporan resmi yang menjelaskan standar label lingkungan global dan bagaimana menafsirkan deklarasi lingkungan.

[Pelajari lebih lanjut tentang Green Premium >](#)

[Panduan untuk menilai keberlanjutan produk >](#)



Transparansi RoHS/REACH

## Kinerja kesejahteraan

Reach Free Of Svhc

Rohs Exemption Information [Yes](#)

## Sertifikasi & Standar

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

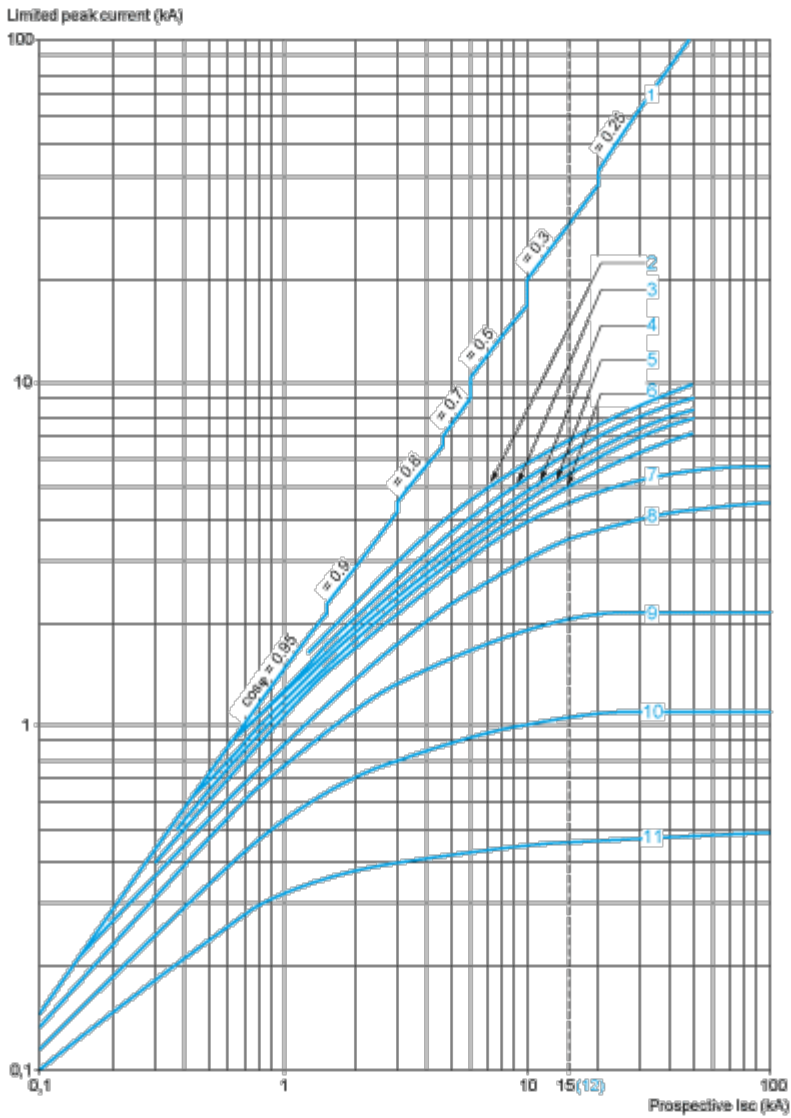


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

**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<sup>2</sup>s in the Magnetic Operating Zone

Sum of I<sup>2</sup>dt = f (prospective Isc) at 1.05 Ue = 435 V

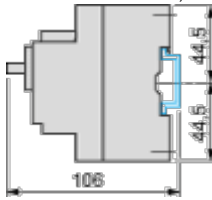


- 1 24-32 A
- 2 20-25 A
- 3 17-23 A
- 4 13-18 A
- 5 9-14 A
- 6 6-10 A
- 7 4-6.3 A
- 8 2.5-4 A
- 9 1.6-2.5 A
- 10 1-1.6 A

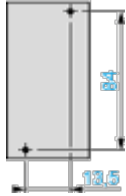
## Dimensions Drawings

### GV2P

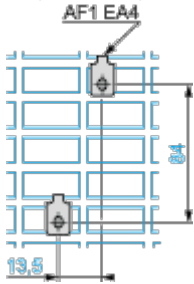
On rail AM1 DE200, ED200 (35 x 15)



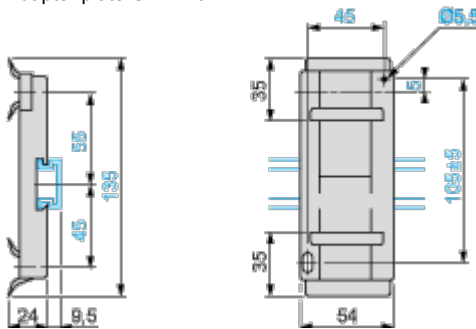
Panel mounted



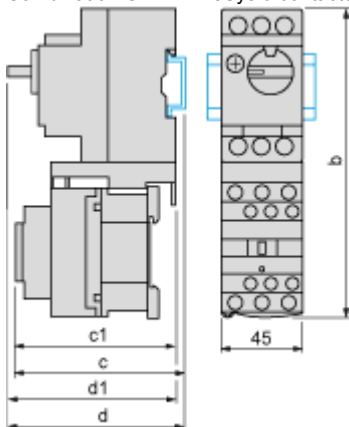
On pre-slotted plate AM1 PA



Adapter plate GK2AF01



Combination GV2P + TeSys d contactor

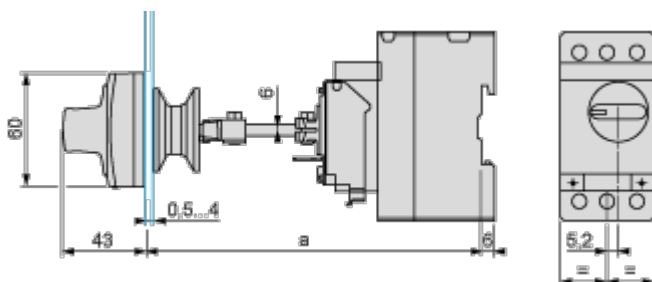




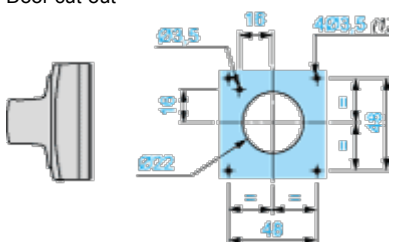
GV2P +	LC1D09...D18	LC1D25 and D32
b	176.4	186.8
c1	100.1	106.4
c	105.6	111.9
d1	95	95
d	100.5	100.5

**Mounting**

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

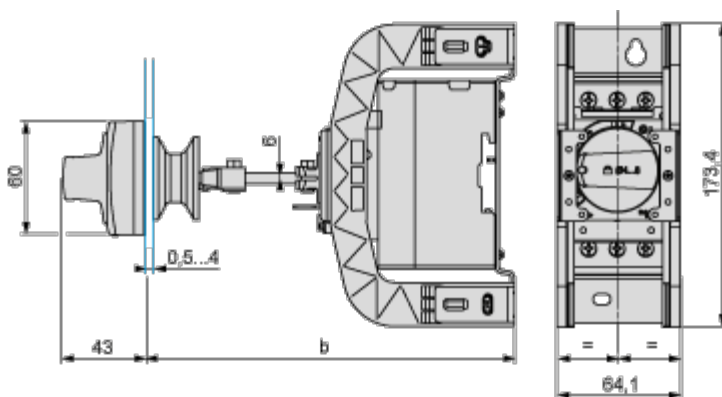


Door cut-out



(1) For IP65 only.

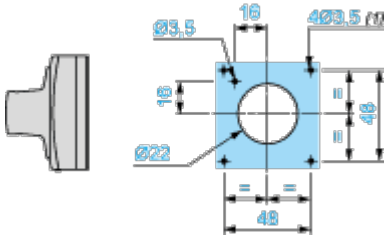
Mounting of External Operator GVAPH02 for Motor Circuit Breakers GV2P



	a		b	
	Minimum	Maximum	Minimum	Maximum
GV2APN <sub>01,02,04</sub>	140	250	–	–
GV2APN <sub>01,02,04</sub> + GVAPH02	–	–	151	250

	a		b	
	Minimum	Maximum	Minimum	Maximum
GV2APN <sub>..</sub> + GVAPK11	250	434	–	–
GV2APN <sub>..</sub> + GVAPH02 + GVAPK11	–	–	250	445

Door cut-out

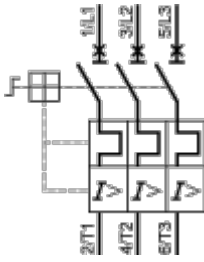


(1) For IP65 only.

## Connections and Schema

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GV2P••




Offer Marketing Illustration

Product benefits / Features

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**TeSys Deca**  
Motor Circuit Breakers

GV2P08



Number of poles  
**3P**

Network type  
**AC**

Network frequency  
**50/60Hz**

Trip unit  
**Thermal-magnetic**

Thermal protection adjustment range  
**2.5-4 A**

Breaking capacity  
**100 kA Icu**

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 with a green arrow pointing to its handle. Below it, seven different accessories are arranged in two rows. Each accessory is accompanied by a small image and a text label. The accessories include auxiliary contact blocks, an energy sensor, terminal blocks, combination blocks, current limiters, comb busbars, and extended rotary handles.

Offer Marketing Illustration

Product benefits / Features

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The image shows a TeSys Deca Motor Circuit Breaker, a black industrial device with a green handle. It has three main terminals at the top labeled 1L1, 3L2, and 5L3, and three at the bottom labeled 2T1, 4T2, and 6T3. A green handle is positioned in the center, with 'ON' and 'OFF' markings. A QR code and the Schneider logo are visible on the front panel.

### 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.

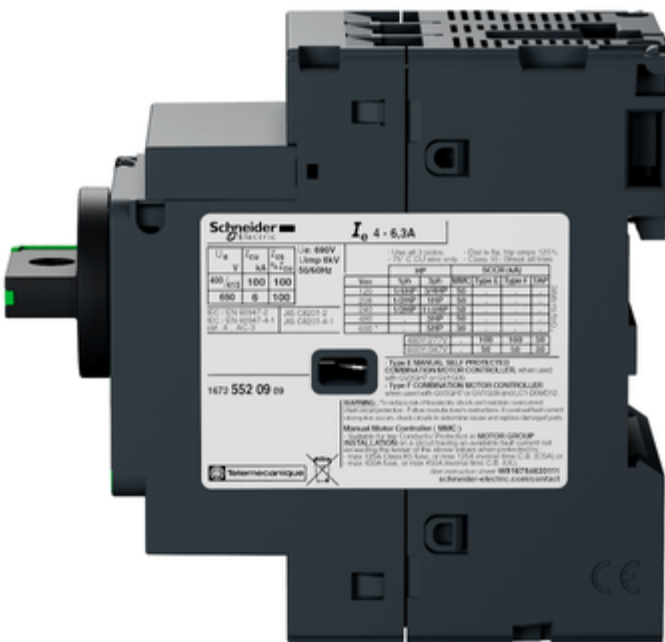
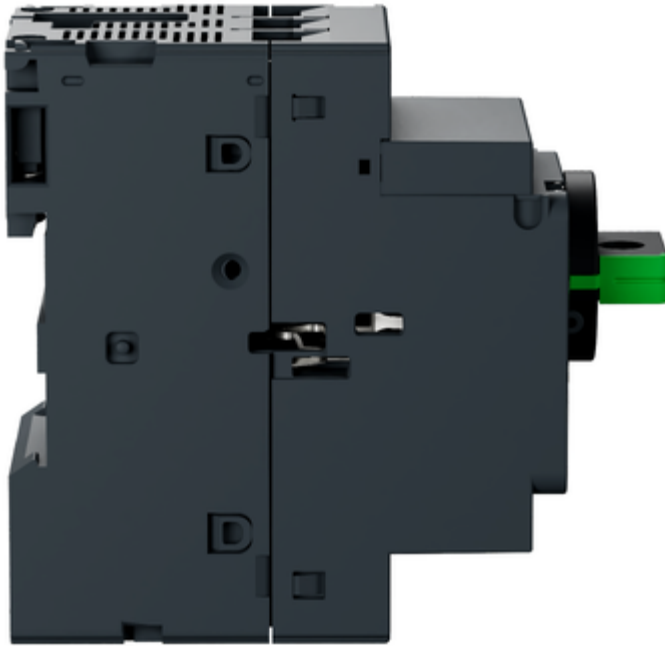


Image of product / Alternate images

Alternative

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**Schneider Electric** **I<sub>0</sub> 4 - 6,3A**

U <sub>e</sub>	I <sub>e</sub>	I <sub>th</sub>	U <sub>imp</sub>
V	SA	% I <sub>e</sub>	kV
480	100	100	50/60Hz
690	0	100	

- Use all 3 poles. - Use in the 100 amp 100%  
 - Use in 2-pole mode. - Use in 100 amp 100%  
 - Use in 100 amp 100%

Type		Type		Type	
U <sub>e</sub>	I <sub>e</sub>	U <sub>e</sub>	I <sub>e</sub>	U <sub>e</sub>	I <sub>e</sub>
480	100	480	100	480	100
690	0	690	0	690	0

1672 552 09 09  
 Type F MANUAL SELF PROTECTING  
 COMBINATION MOTOR CONTROLLER  
 Type F COMBINATION MOTOR CONTROLLER  
 when used with contactors or contactors and circuit breakers

**WARNING:** This device is intended for use in industrial applications only. It is not intended for use in residential or commercial applications. It is not intended for use in applications where it may be exposed to fire, explosion, or other hazardous conditions. 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 mechanical stress or high vibration. It is not intended for use in applications where it may be exposed to high electromagnetic interference (EMI) or high radio frequency interference (RFI). It is not intended for use in applications where it may be exposed to high magnetic fields or high electric fields. It is not intended for use in applications where it may be exposed to high radiation levels. It is not intended for use in applications where it may be exposed to high levels of pollution or high levels of dust. It is not intended for use in applications where it may be exposed to high levels of salt or high levels of corrosive gases. It is not intended for use in applications where it may be exposed to high levels of moisture or high levels of humidity. It is not intended for use in applications where it may be exposed to high levels of vibration or high levels of shock. It is not intended for use in applications where it may be exposed to high levels of mechanical stress or high levels of strain. It is not intended for use in applications where it may be exposed to high levels of fatigue or high levels of wear. It is not intended for use in applications where it may be exposed to high levels of aging or high levels of degradation. It is not intended for use in applications where it may be exposed to high levels of environmental stress or high levels of environmental strain. It is not intended for use in applications where it may be exposed to high levels of environmental fatigue or high levels of environmental wear. It is not intended for use in applications where it may be exposed to high levels of environmental aging or high levels of environmental degradation. It is not intended for use in applications where it may be exposed to high levels of environmental stress or high levels of environmental strain. It is not intended for use in applications where it may be exposed to high levels of environmental fatigue or high levels of environmental wear. It is not intended for use in applications where it may be exposed to high levels of environmental aging or high levels of environmental degradation.

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