

# Product data sheet

Specifications



## TeSys Deca Manual Starter and Protector, thermal magnetic circuit protector, rotary handle, 0.16...0.25 A, screw clamp terminals

GV2P02

**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	0.06 kW 400/415 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 60947-2 100 kA Icu 440 V AC 50/60 Hz IEC 60947-2 100 kA Icu 500 V AC 50/60 Hz IEC 60947-2 100 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 60947-2 100 % 400/415 V AC 50/60 Hz IEC 60947-2 100 % 440 V AC 50/60 Hz IEC 60947-2 100 % 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	0.25 A
Thermal protection adjustment range	0.16...0.25 A IEC 60947-2
Magnetic tripping current	3.08 A
[Ith] conventional free air thermal current	0.25 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
Suitability for isolation	Yes IEC 60947-1

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Power dissipation per pole</b>	2.5 W
<b>Mechanical durability</b>	100000 cycles
<b>Electrical durability</b>	100000 cycles AC-3 415 V In 100000 cycles AC-3e 415 V In
<b>Rated duty</b>	Uninterrupted IEC 60947-4-1
<b>Connections - terminals</b>	Power circuit screw clamp terminal 2 0.002...0.009 in <sup>2</sup> (1...6 mm <sup>2</sup> )solid Power circuit screw clamp terminal 2 0.002...0.009 in <sup>2</sup> (1.5...6 mm <sup>2</sup> )flexible without cable end Power circuit screw clamp terminal 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible with cable end
<b>Tightening torque</b>	15.05 lbf.in (1.7 N.m) screw clamp terminal
<b>Fixing mode</b>	35 mm symmetrical DIN rail clipped Panel screwed with 2 x M4 screws)
<b>Mounting position</b>	Horizontal Vertical
<b>Width</b>	1.8 in (45 mm)
<b>Height</b>	3.5 in (89 mm)
<b>Depth</b>	3.8 in (97 mm)
<b>color</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 IEC 60529
<b>Climatic withstand</b>	IACS E10
<b>Ambient Air Temperature for Storage</b>	-40...176 °F (-40...80 °C)
<b>Fire resistance</b>	1760 °F (960 °C) IEC 60695-2-11
<b>Ambient air temperature for operation</b>	-4...140 °F (-20...60 °C)
<b>Mechanical robustness</b>	Shocks 30 Gn for 11 ms Vibrations 5 Gn, 5...150 Hz
<b>Operating altitude</b>	<= 6561.68 ft (2000 m)

## Ordering and shipping details

<b>Category</b>	US10I122367
<b>Discount Schedule</b>	0111
<b>GTIN</b>	3389110213416
<b>Returnability</b>	Yes

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Country of origin	TH
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## Packing Units

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Unit Type of Package 1	PCE
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Nbr. of units in pkg.	1
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Package 1 Height	1.850 in (4.700 cm)
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Package 1 Width	3.661 in (9.300 cm)
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Package 1 Length	3.937 in (10.000 cm)
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Package weight(Lbs)	9.242 oz (262.000 g)
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Unit Type of Package 2	S02
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Number of Units in Package 2	20
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Package 2 Height	5.906 in (15.000 cm)
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Package 2 Width	11.811 in (30.000 cm)
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Package 2 Length	15.748 in (40.000 cm)
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Package 2 Weight	12.280 lb(US) (5.570 kg)
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## Contractual warranty

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Warranty	18 months
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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
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## Use Better

### Materials and Substances

Packaging made with recycled cardboard	Yes
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Packaging without single use plastic	Yes
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<a href="#">EU RoHS Directive</a>	Compliant with Exemptions
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REACH Regulation	<a href="#">REACH Declaration</a>
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California proposition 65	<b>WARNING:</b> 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
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## Use Again

### Repack and remanufacture

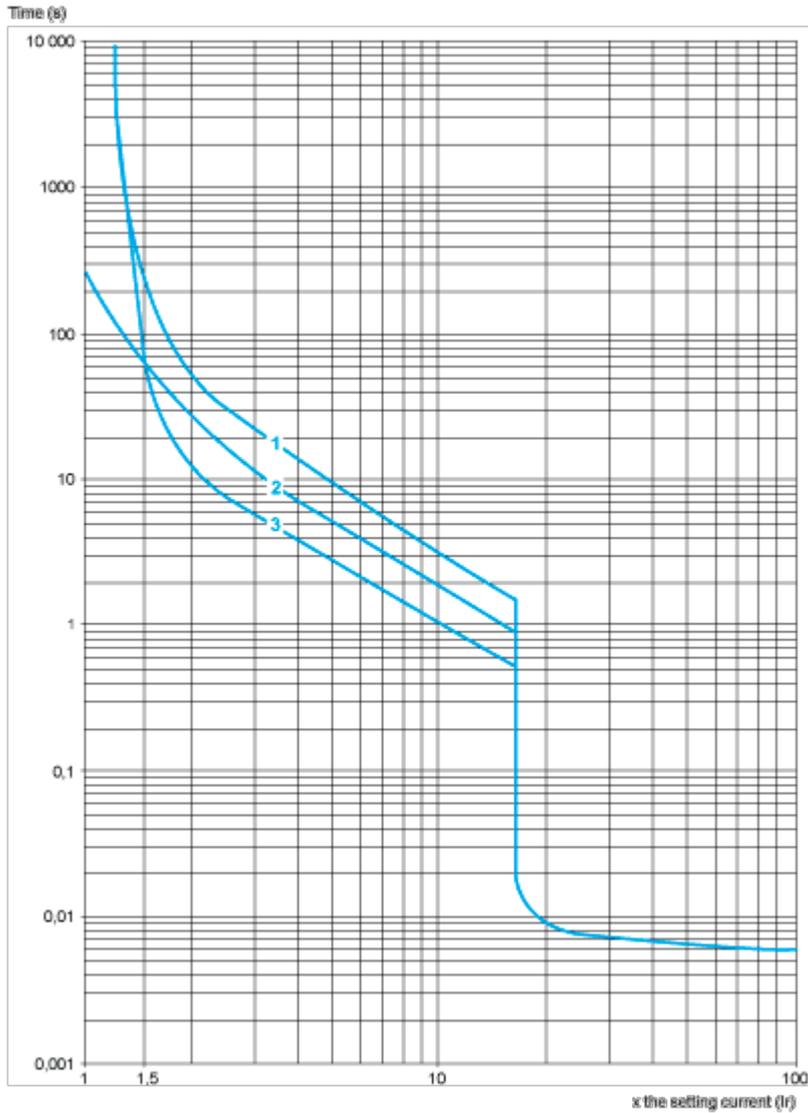
Circularity Profile	<a href="#">End of Life Information</a>
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Take-back	No
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WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
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Performance Curves

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

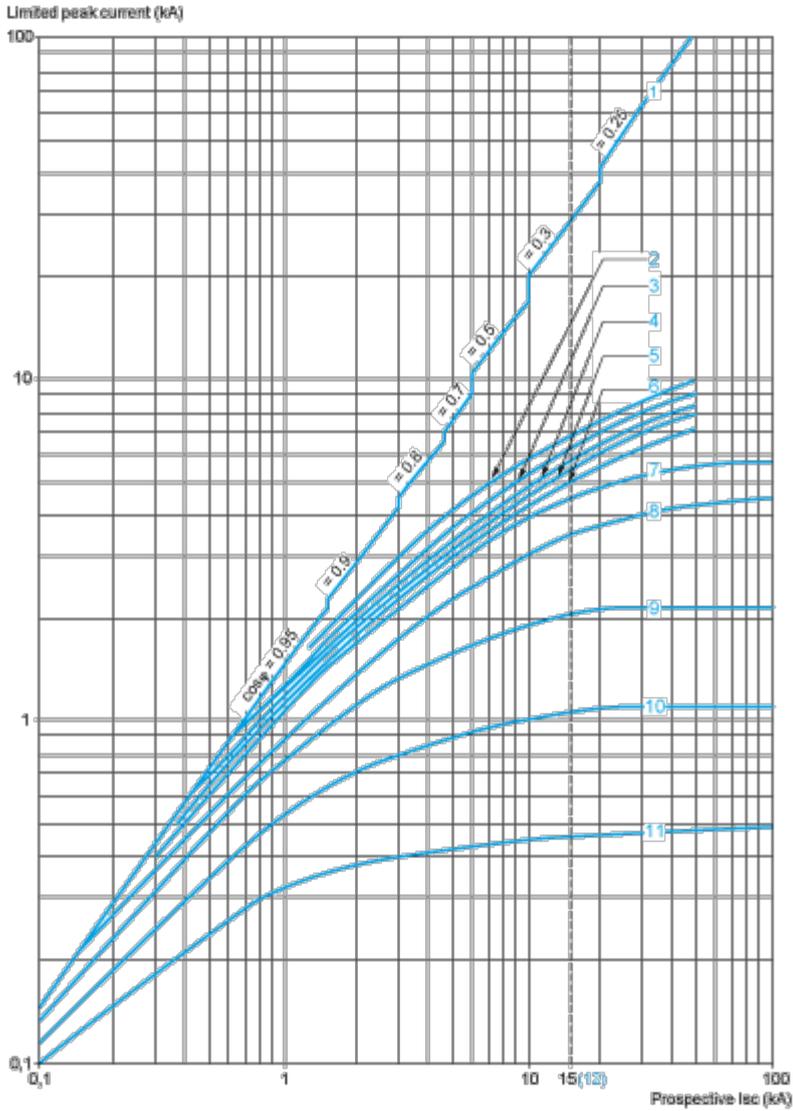


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

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

**Dynamic Stress**

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

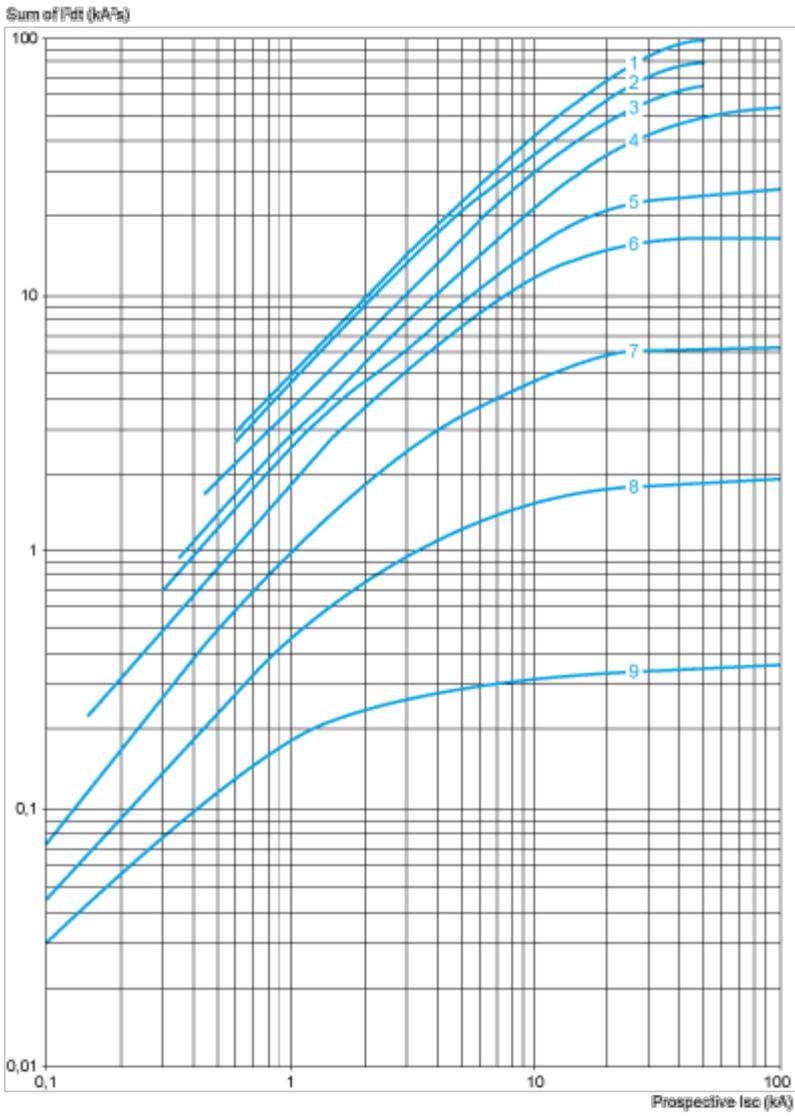


- 1 Maximum peak current
- 2 24-32 A
- 3 20-25 A
- 4 17-23 A
- 5 13-18 A
- 6 9-14 A
- 7 6-10 A
- 8 4-6.3 A
- 9 2.5-4 A
- 10 1.6-2.5 A
- 11 1-1.6 A
- 12 Limit of rated ultimate breaking capacity on short-circuit of GV2ME (14, 18, 23, and 25 A ratings).

**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

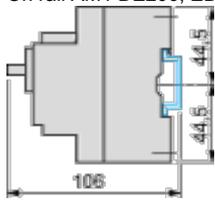


- 1 24-32 A
- 2 20-25 A
- 3 17-23 A
- 4 13-18 A
- 5 9-14 A
- 6 6-10 A
- 7 4-6.3 A
- 8 2.5-4 A
- 9 1.6-2.5 A
- 10 1-1.6 A

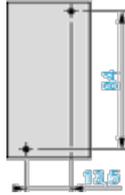
Dimensions Drawings

**GV2P**

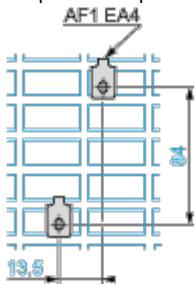
On rail AM1 DE200, ED200 (35 x 15)



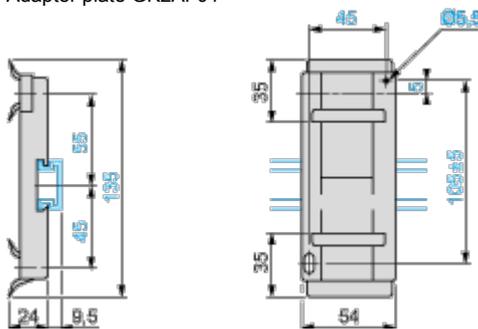
Panel mounted



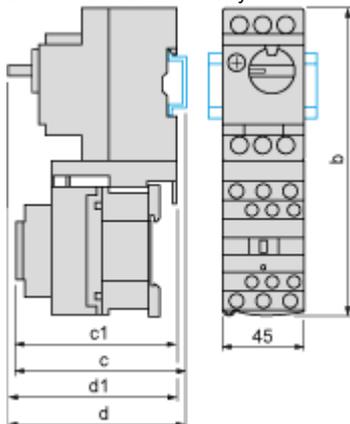
On pre-slotted plate AM1 PA



Adapter plate GK2AF01



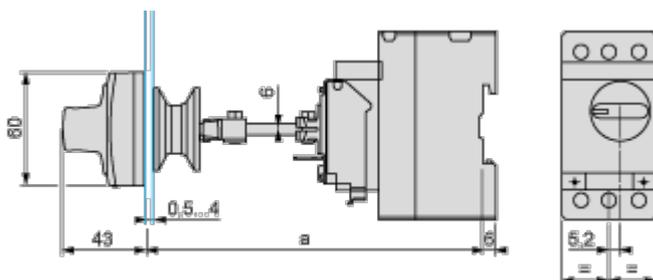
Combination GV2P + TeSys d contactor



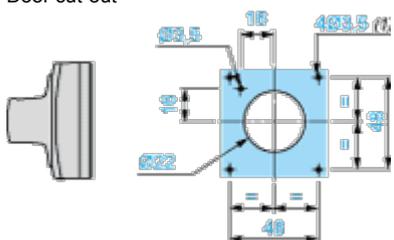
GV2P +	LC1D09...D18	LC1D25 and D32
b	176.4	186.8
c1	100.1	106.4
c	105.6	111.9
d1	95	95
d	100.5	100.5

**Mounting**

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

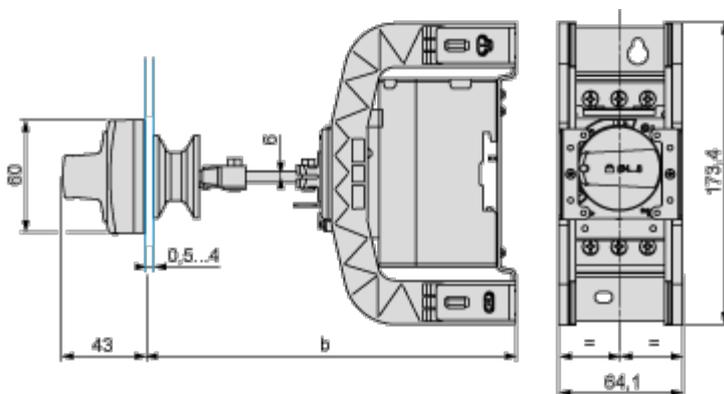


Door cut-out



(1) For IP65 only.

Mounting of External Operator GVAPH02 for Motor Circuit Breakers GV2P



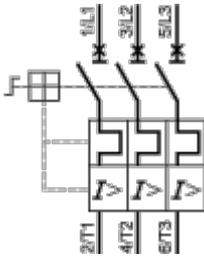
	a		b	
	Minimum	Maximum	Minimum	Maximum
GV2APN <sub>..</sub>	140	250	-	-
GV2APN <sub>..</sub> + GVAPH02	-	-	151	250



Connections and Schema

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GV2P••



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.



Offer Marketing Illustration

Product benefits / Features

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**TeSys Deca Motor Circuit Breakers**  
Range Accessories

A collection of accessories for TeSys Deca Motor Circuit Breakers, including:

- Auxiliary contact blocks
- Energy Sensor
- Terminal block
- Combination block
- Current limiter
- Comb busbar
- Extended rotary handle

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 in the center, with 'ON' and 'OFF' markings. A QR code and 'Schneider Electric' 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.

Image of product / Alternate images

Alternative

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Technical Illustration

Assembly's dimensions

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