

# Product datasheet

Specifications



## Motor circuit breaker, TeSys GV2, 3P, 0.25-0.4 A, thermal magnetic, screw clamp terminals

Local distributor code:  
22426785GV2P03

EAN Code: 3389110213423

### 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<br>AC-3 conforming to IEC 60947-4-1<br>AC-3e conforming to IEC 60947-4-1                                                                                                                                                                                                         |
| Network frequency                                   | 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                                                                                                    |
| Motor power kW                                      | 0.09 kW at 400/415 V AC 50/60 Hz                                                                                                                                                                                                                                                                                      |
| Breaking capacity                                   | 100 kA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>100 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<br>100 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 690 V AC 50/60 Hz conforming to IEC 60947-2                          |
| Control type                                        | Rotary handle                                                                                                                                                                                                                                                                                                         |
| [In] rated current                                  | 0.4 A                                                                                                                                                                                                                                                                                                                 |
| Thermal protection adjustment range                 | 0.25...0.4 A conforming to IEC 60947-2                                                                                                                                                                                                                                                                                |
| Magnetic tripping current                           | 5.8 A                                                                                                                                                                                                                                                                                                                 |
| [Ith] conventional free air thermal current         | 0.4 A conforming to IEC 60947-2                                                                                                                                                                                                                                                                                       |
| [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                                                                                                                                                                                                                                                                                         |
| Power dissipation per pole                          | 2.5 W                                                                                                                                                                                                                                                                                                                 |

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

|                         |                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mechanical durability   | 100000 cycles                                                                                                                                                                                                                                                                         |
| Electrical durability   | 100000 cycles for AC-3 at 415 V In<br>100000 cycles for AC-3e at 415 V In                                                                                                                                                                                                             |
| Rated duty              | Uninterrupted conforming to IEC 60947-4-1                                                                                                                                                                                                                                             |
| Connections - terminals | Power circuit: screw clamp terminal 2 cable(s) 1...6 mm <sup>2</sup> - solid<br>Power circuit: screw clamp terminal 2 cable(s) 1.5...6 mm <sup>2</sup> - flexible without cable end<br>Power circuit: screw clamp terminal 2 cable(s) 1...4 mm <sup>2</sup> - flexible with cable end |
| Tightening torque       | 1.7 N.m - on screw clamp terminal                                                                                                                                                                                                                                                     |
| Fixing mode             | 35 mm symmetrical DIN rail: clipped<br>Panel: screwed (with 2 x M4 screws)                                                                                                                                                                                                            |
| Mounting position       | Horizontal<br>Vertical                                                                                                                                                                                                                                                                |
| Width                   | 45 mm                                                                                                                                                                                                                                                                                 |
| Height                  | 89 mm                                                                                                                                                                                                                                                                                 |
| Depth                   | 97 mm                                                                                                                                                                                                                                                                                 |
| Colour                  | Dark grey                                                                                                                                                                                                                                                                             |

## Environment

|                                       |                                                                                                                                          |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60947-2<br>EN/IEC 60947-4-1<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>IEC/EN 60335-2-40:Annex JJ<br>IEC/EN 60335-1:Clause 30.2 |
| Product certifications                | CCC<br>UL<br>CSA<br>EAC<br>ATEX<br>LROS (Lloyds register of shipping)<br>BV<br>RINA<br>DNV-GL<br>UKCA                                    |
| IK degree of protection               | IK04                                                                                                                                     |
| IP degree of protection               | IP20 conforming to IEC 60529                                                                                                             |
| Climatic withstand                    | conforming to IACS E10                                                                                                                   |
| Ambient air temperature for storage   | -40...80 °C                                                                                                                              |
| Fire resistance                       | 960 °C conforming to IEC 60695-2-11                                                                                                      |
| Ambient air temperature for operation | -20...60 °C                                                                                                                              |
| Mechanical robustness                 | Shocks: 30 Gn for 11 ms<br>Vibrations: 5 Gn, 5...150 Hz                                                                                  |
| Operating altitude                    | <= 2000 m                                                                                                                                |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 5.000 cm  |
| Package 1 Width              | 9.000 cm  |
| Package 1 Length             | 10.000 cm |

|                              |           |
|------------------------------|-----------|
| Package 1 Weight             | 255.000 g |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 20        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 5.500 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             | 94.308 kg |

## Logistical informations

|                   |    |
|-------------------|----|
| Country of origin | FR |
|-------------------|----|

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## 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

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 42 kg CO2 eq.                                 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 2 kg CO2 eq.                                  |
| Carbon footprint of the distribution phase [A4]        | 0.1 kg CO2 eq.                                |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 40 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.5 kg CO2 eq.                                |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                                                                        |
|----------------------------------------|----------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                    |
| Packaging without single use plastic   | Yes                                                                                    |
| SCIP Number                            | C43ff11b-b8ca-450d-9fce-baeaa5c7731f                                                   |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>                                                 |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a> |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again

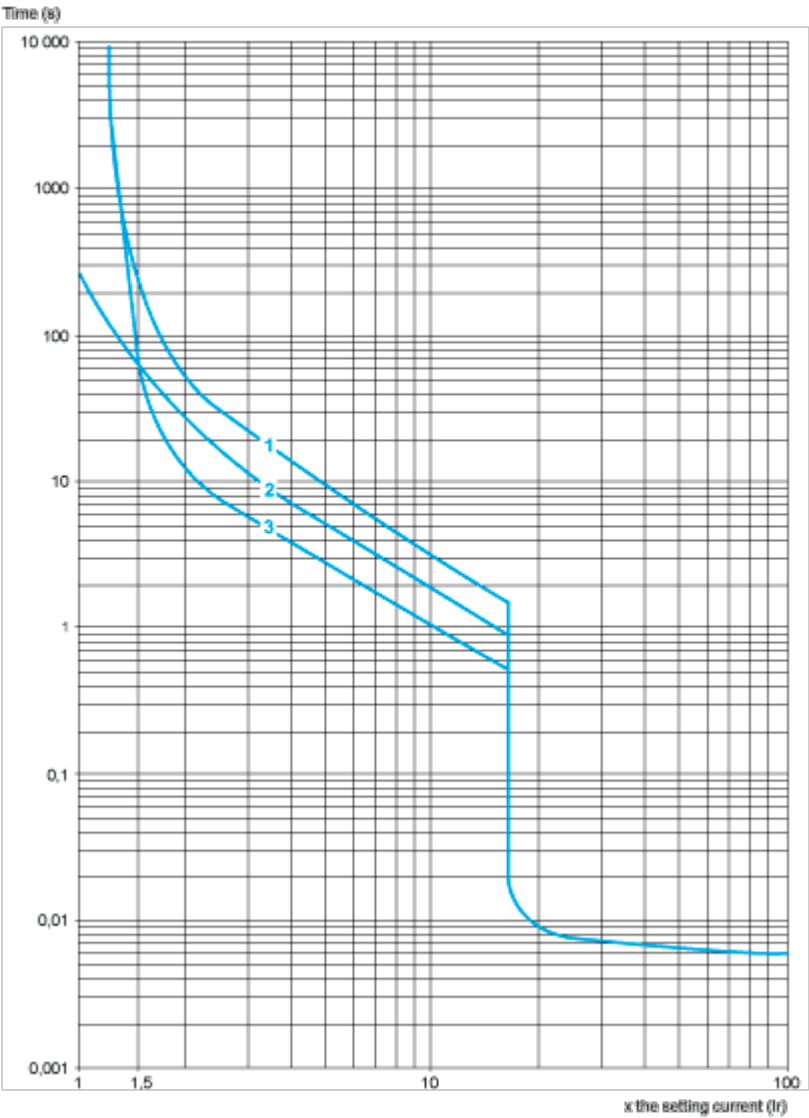


### Repack and remanufacture

|                                 |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in %   | 51                                                                                                                                                                                                              |
| End of life manual availability | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| 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

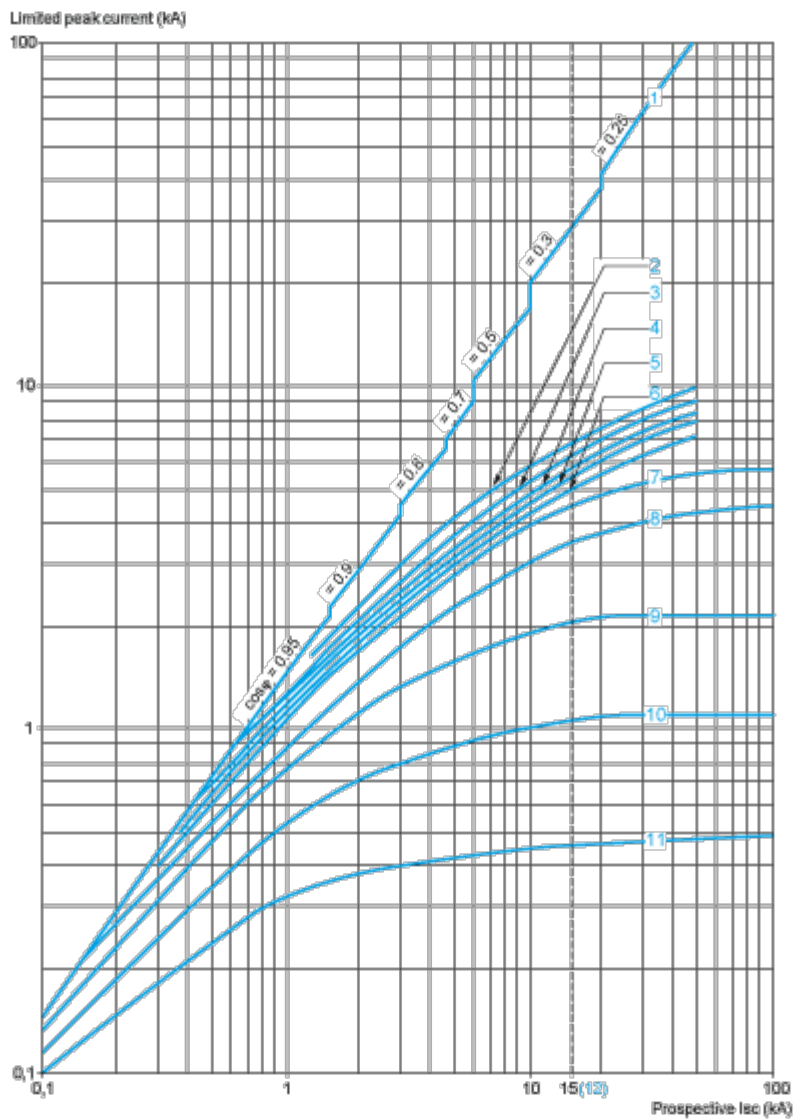
Thermal-Magnetic Tripping Curves for GV2ME and GV2P  
Average Operating Times at 20 °C Related to Multiples of the Setting Current



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

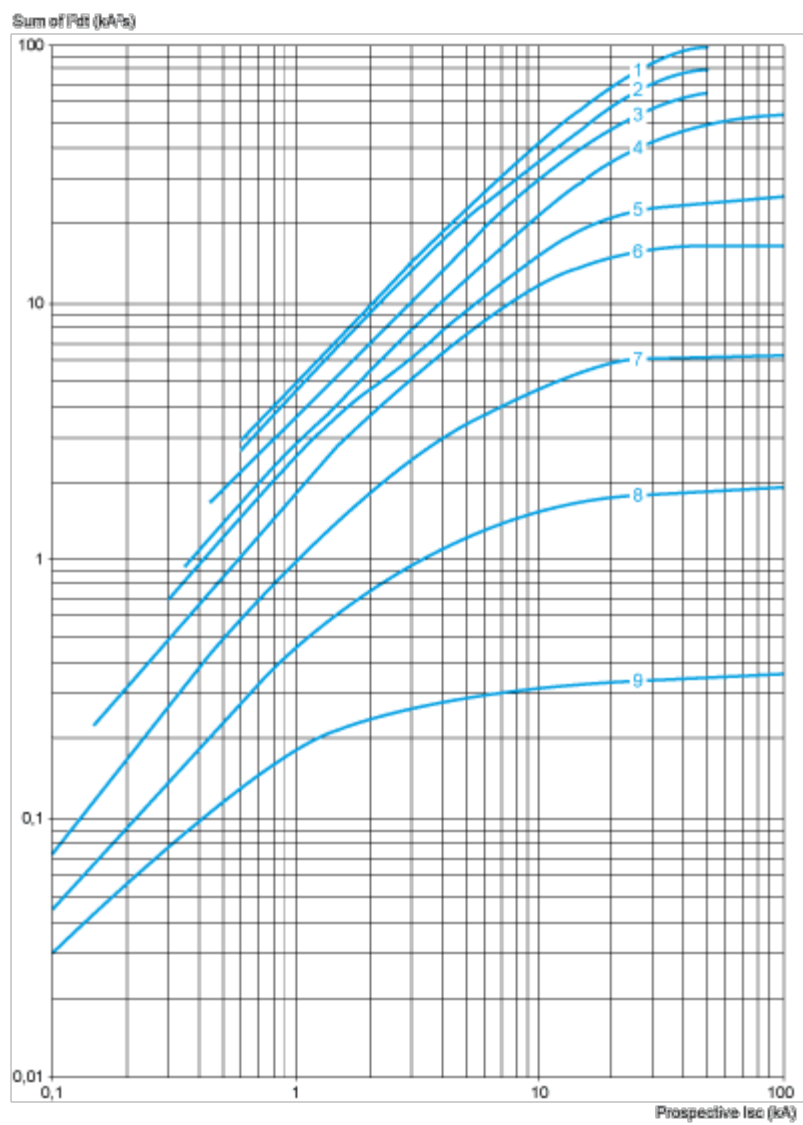
Current Limitation on Short-Circuit for GV2ME and GV2P (3-Phase 400/415 V)  
Dynamic Stress

I peak = f (prospective Isc) at 1.05 Ue = 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<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

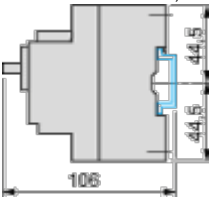


- 1 24-32 A
- 2 20-25 A
- 3 17-23 A
- 4 13-18 A
- 5 9-14 A
- 6 6-10 A
- 7 4-6.3 A
- 8 2.5-4 A
- 9 1.6-2.5 A
- 10 1-1.6 A

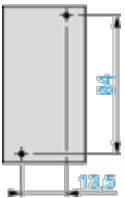
Dimensions Drawings

GV2P

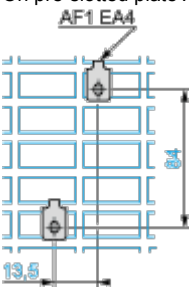
On rail AM1 DE200, ED200 (35 x 15)



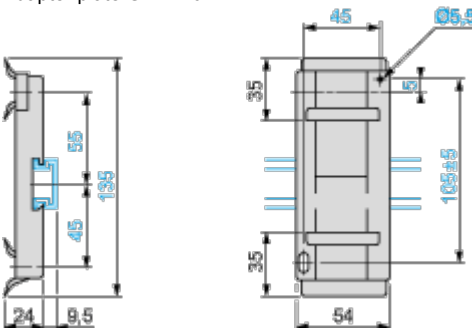
Panel mounted



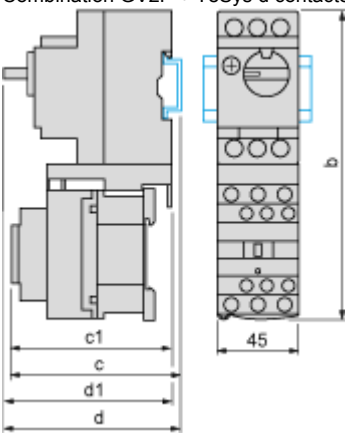
On pre-slotted plate AM1 PA



Adapter plate GK2AF01



Combination GV2P + TeSys d contactor

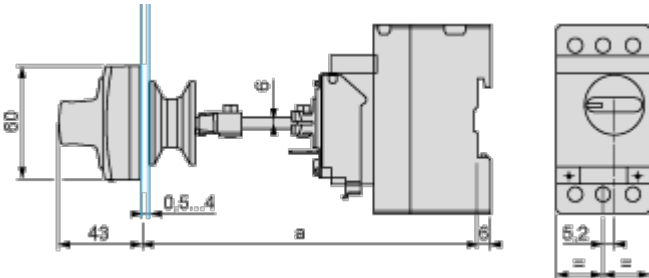




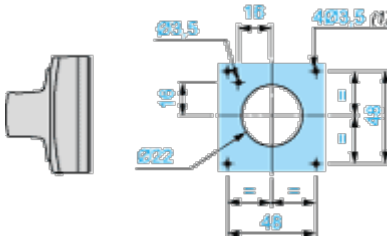
| GV2P + | LC1D09...D18 | LC1D25 and D32 |
|--------|--------------|----------------|
| b      | 176.4        | 186.8          |
| c1     | 100.1        | 106.4          |
| c      | 105.6        | 111.9          |
| d1     | 95           | 95             |
| d      | 100.5        | 100.5          |

Mounting

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

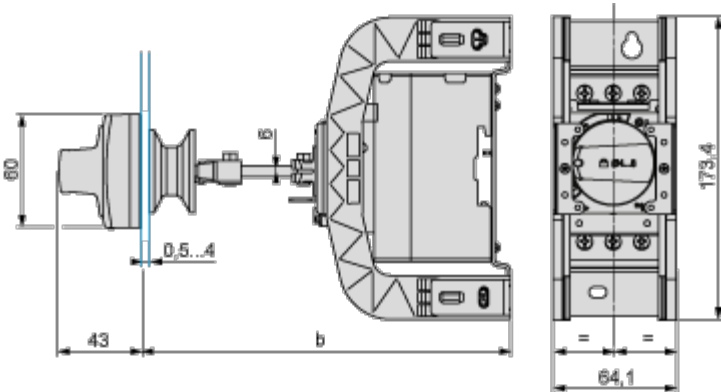


Door cut-out



(1) For IP65 only.

Mounting of External Operator GVAPH02 for Motor Circuit Breakers GV2P

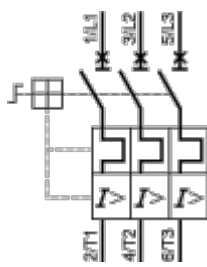


|                                | a       |         | b       |         |
|--------------------------------|---------|---------|---------|---------|
|                                | Minimum | Maximum | Minimum | Maximum |
| GV2APN <sub>..</sub>           | 140     | 250     | –       | –       |
|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



Connections and Schema

GV2P••



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

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TeSys Deca Motor  
Circuit Breakers  
Range Accessories



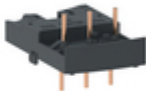
Auxiliary  
contact blocks



Energy Sensor



Terminal block



Combination block



Current limiter



Comb busbar



Extended  
rotary handle

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

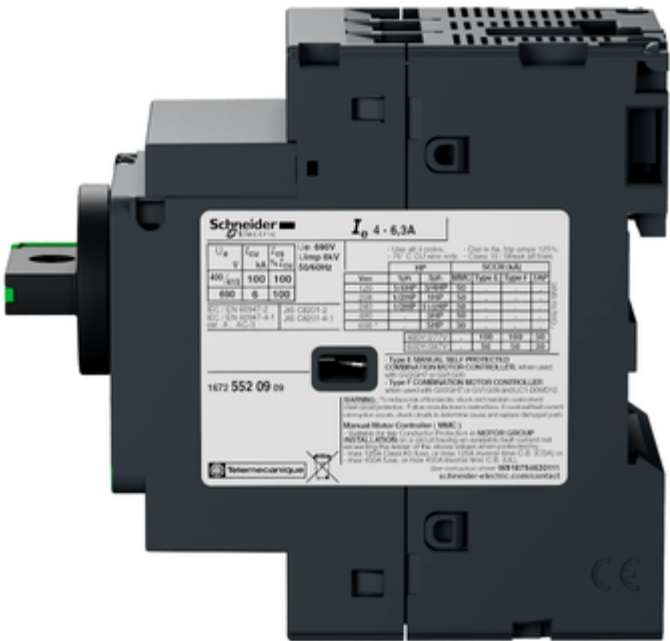
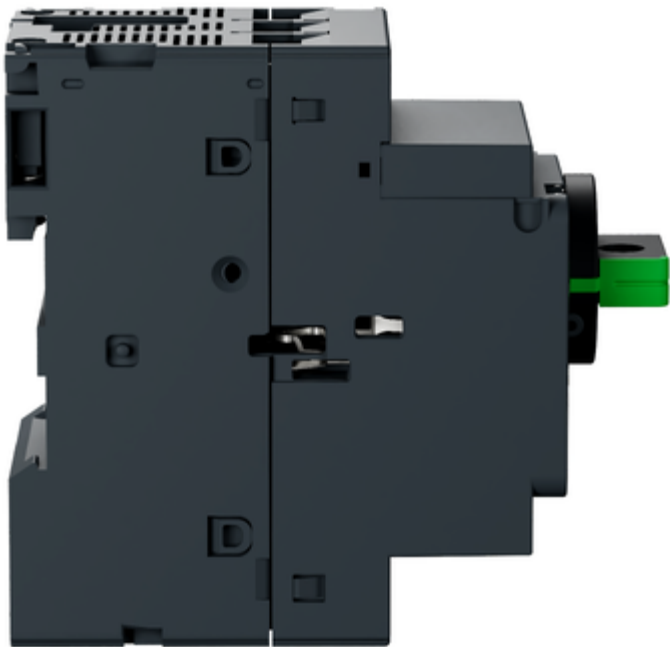
Compliant to motor control and protection, in accordance with standards.



Image of product / Alternate images

Alternative

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Technical Illustration

Assembly's dimensions

