

# Product data sheet

Specifications



## Motor circuit breaker, TeSys Deca, 3P, 1 to 1.6A, thermal magnetic, spring terminals

GV2ME063

### Main

|                           |                       |
|---------------------------|-----------------------|
| Range                     | TeSys Deca            |
| Product name              | TeSys GV2             |
| Product or component type | Motor circuit breaker |
| Device short name         | GV2ME                 |
| 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                                      | 0.37 kW at 400/415 V AC 50/60 Hz<br>0.55 kW at 400/415 V AC 50/60 Hz<br>0.37 kW at 500 V AC 50/60 Hz<br>0.55 kW at 500 V AC 50/60 Hz<br>0.75 kW at 500 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                                        | Push-button                                                                                                                                                                                                                                                                                                           |
| [In] rated current                                  | 1.6 A                                                                                                                                                                                                                                                                                                                 |
| Thermal protection adjustment range                 | 1...1.6 A conforming to IEC 60947-2                                                                                                                                                                                                                                                                                   |
| Magnetic tripping current                           | 26.2 A                                                                                                                                                                                                                                                                                                                |
| [Ith] conventional free air thermal current         | 1.6 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                                                                                                                                                                                                                                                                                       |

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 conforming to IEC 60947-1                                                                                                                                                                                                |
| Power dissipation per pole | 2.5 W                                                                                                                                                                                                                        |
| 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: spring terminals 2 cable(s) 1...6 mm²solid<br>Power circuit: spring terminals 2 cable(s) 1.5...4 mm²flexible without cable end<br>Power circuit: spring terminals 2 cable(s) 1...4 mm²flexible with cable end |
| Fixing mode                | 35 mm symmetrical DIN rail: clipped<br>Panel: screwed (with adaptor plate)                                                                                                                                                   |
| Mounting position          | Horizontal<br>Vertical                                                                                                                                                                                                       |
| Width                      | 45 mm                                                                                                                                                                                                                        |
| Height                     | 101 mm                                                                                                                                                                                                                       |
| Depth                      | 78.5 mm                                                                                                                                                                                                                      |
| Product weight             | 0.28 kg                                                                                                                                                                                                                      |
| 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             | 5.500 cm  |
| Package 1 Width              | 11.000 cm |

|                              |           |
|------------------------------|-----------|
| Package 1 Length             | 8.500 cm  |
| Package 1 Weight             | 284.900 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             | 6.014 kg  |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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 | 43                                            |
| Environmental Disclosure         | <a href="#">Product Environmental Profile</a> |

Use Better

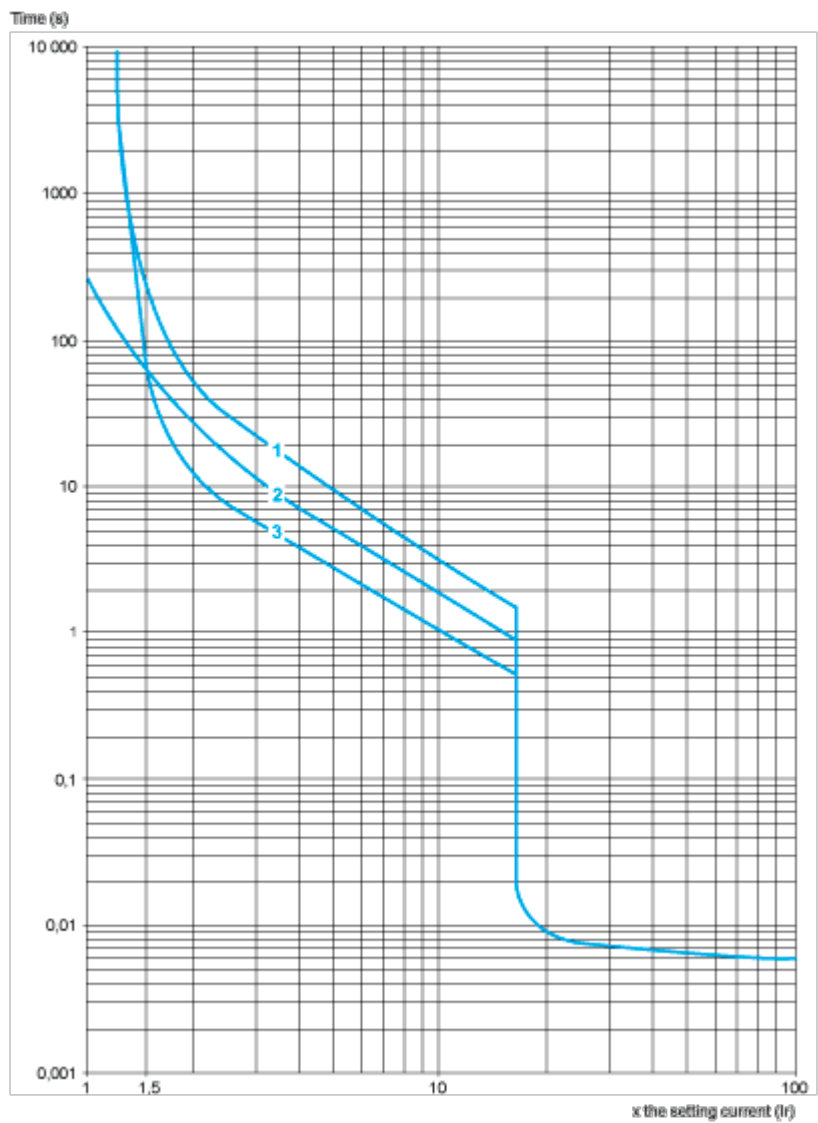
| Materials and Substances               |                                                                                                                                                                                                                                                           |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                                                                                                                                                                                       |
| Packaging without single use plastic   | Yes                                                                                                                                                                                                                                                       |
| <a href="#">EU RoHS Directive</a>      | Compliant with Exemptions                                                                                                                                                                                                                                 |
| SCIP Number                            | 04104e70-ba29-493c-b2cc-b5837d1f879b                                                                                                                                                                                                                      |
| REACH Regulation                       | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                         |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

Use Again

| Repack and remanufacture        |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

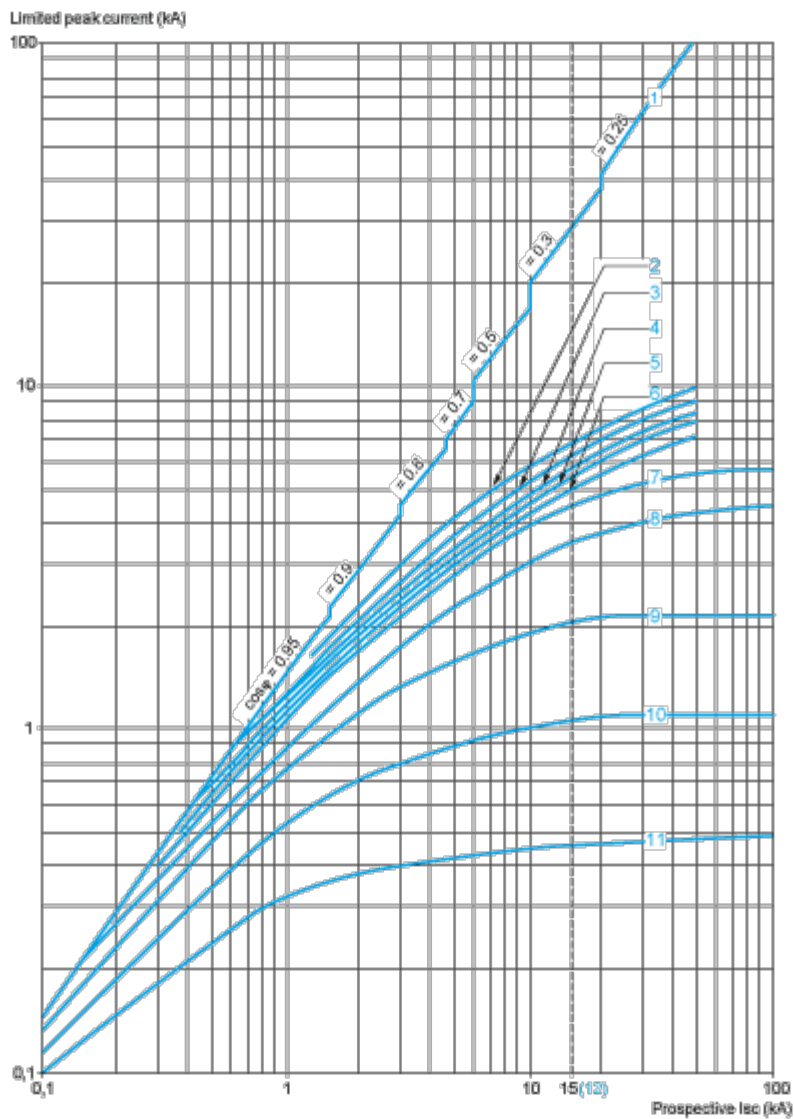


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

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

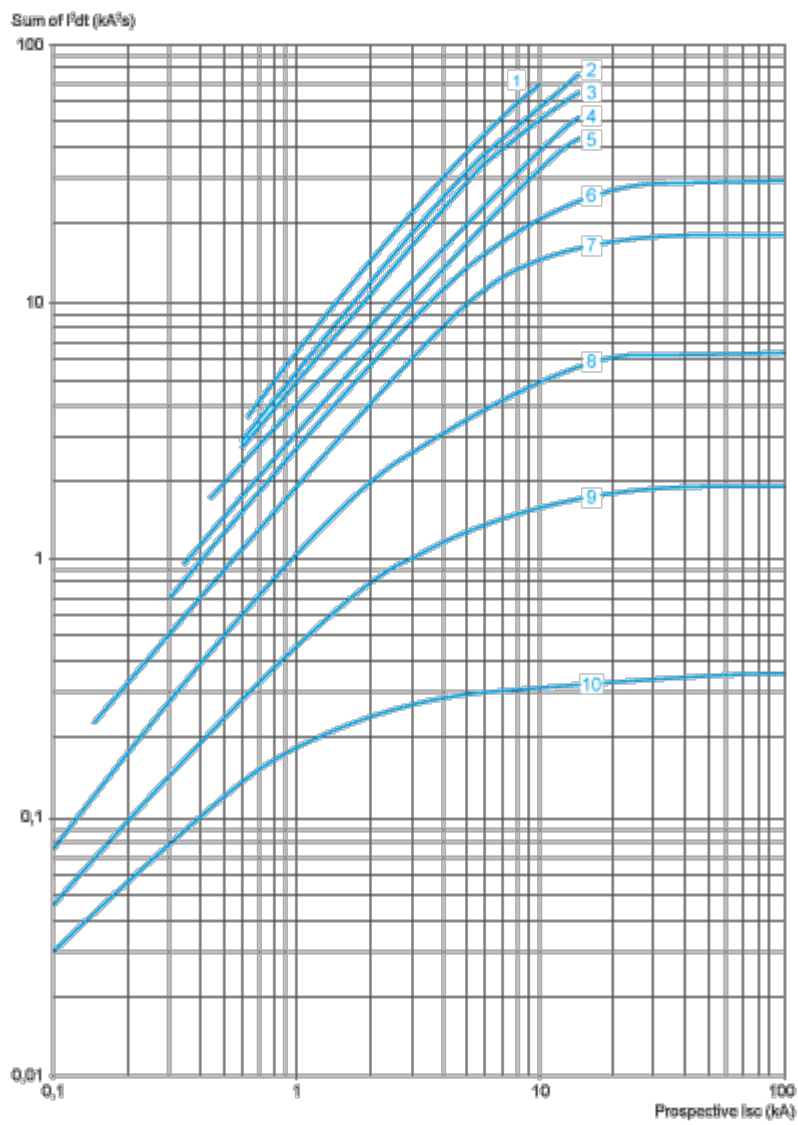
Dynamic Stress

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 GV2ME**  
**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

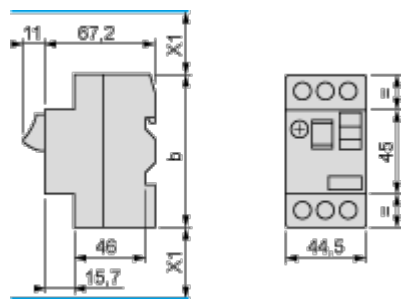


- 1 24-32 A
- 2 20-25 A
- 3 17-23 A
- 4 13-18 A
- 5 9-14 A
- 6 6-10 A
- 7 4-6.3 A
- 8 2.5-4 A
- 9 1.6-2.5 A
- 10 1-1.6 A

Dimensions Drawings

Dimension

GV2ME



(1) Maximum

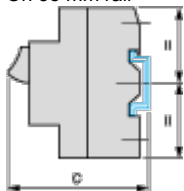
X1 Electrical clearance = 40 mm for  $U_e \leq 690\text{ V}$

|          | b   |
|----------|-----|
| GV2ME●●  | 89  |
| GV2ME●●3 | 101 |

Mounting

GV2ME

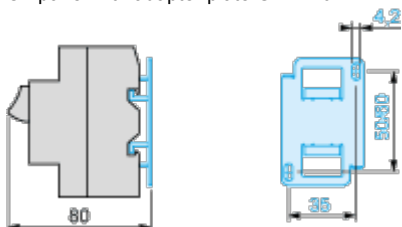
On 35 mm rail



c = 78.5 on AM1 DP200 (35 x 7.5)

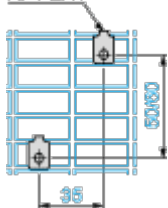
c = 86 on AM1 DE200, ED200 (35 x 15)

On panel with adapter plate GV2AF02



On pre-slotted plate AM1 PA

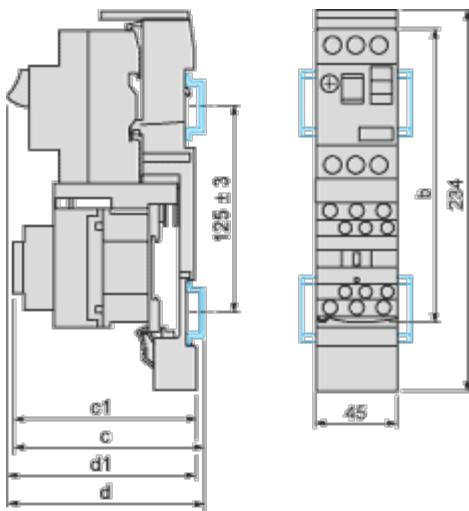
AF1 EA4



On rails DZ5 MB201

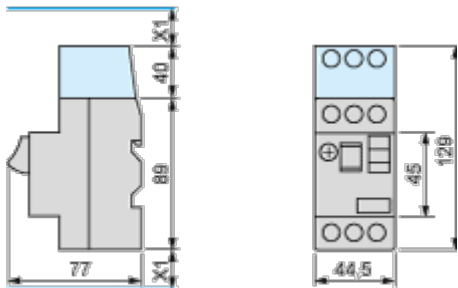


## GV2ME063



| GV2ME + | LC1D09...D18 | LC1D25 and D32 |
|---------|--------------|----------------|
| b       | 176.4        | 186.8          |
| c1      | 103.1        | 136.4          |
| c       | 135.6        | 141.9          |
| d1      | 107          | 107            |
| d       | 112.5        | 112.5          |

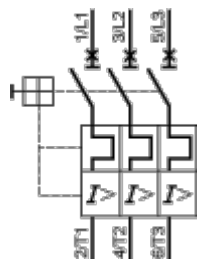
GV2ME + GV1L3 (Current Limiter)



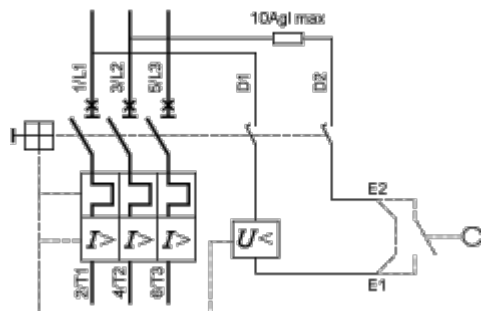
X1 = 10 mm for Ue = 230 V or 30 mm for 230 V < Ue ≤ 690 V

Connections and Schema

GV2ME•• and GV2RT



Connection of Undervoltage Trip for Dangerous Machines (Conforming to INRS) on GV2ME Only



Offer Marketing Illustration

Product benefits / Features

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### TeSys Deca Motor Circuit Breakers

Range Accessories



Energy Sensor



Mounting and adapters



Terminal block



Combination block



Motor starter  
adapter plate



Current limiter



Comb busbar



Auxiliary  
contact blocks

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 red handle. It has three main terminals at the top labeled 1, 2, and 3, and three at the bottom labeled 2, 4, and 6. The front panel features a red handle with 'ON' and 'OFF' positions, a 'RESET' button, and a 'STOP' button. A small display shows '12.23A'. A QR code is visible on the bottom left of the front panel. The Schneider logo is at the bottom right of 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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