

# Product datasheet

Specifications



## Motor circuit breaker, TeSys Deca, 3P, 6 to 10A, thermal magnetic, screw clamp terminals, button control

GV2ME14

### 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 AC-3 conforming to IEC 60947-4-1 AC-3e conforming to IEC 60947-4-1
Network frequency	50/60 Hz conforming to IEC 60947-2
Motor power kW	3 kW at 400/415 V AC 50/60 Hz 4 kW at 400/415 V AC 50/60 Hz 4 kW at 500 V AC 50/60 Hz 5.5 kW at 500 V AC 50/60 Hz 5.5 kW at 690 V AC 50/60 Hz 7.5 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 15 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 3 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 75 % at 690 V AC 50/60 Hz conforming to IEC 60947-2
Control type	Push-button
[In] rated current	10 A
Thermal protection adjustment range	6...10 A conforming to IEC 60947-2
Magnetic tripping current	149 A
[Ith] conventional free air thermal current	10 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

<b>Phase failure sensitivity</b>	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>	Uninterrupted conforming to IEC 60947-4-1
<b>Connections - terminals</b>	Power circuit: screw clamp terminal 2 cable(s) 1...6 mm <sup>2</sup> solid Power circuit: screw clamp terminal 2 cable(s) 1.5...6 mm <sup>2</sup> flexible without cable end Power circuit: screw clamp terminal 2 cable(s) 1...4 mm <sup>2</sup> flexible with cable end
<b>Tightening torque</b>	1.7 N.m - on screw clamp terminal
<b>Fixing mode</b>	35 mm symmetrical DIN rail: clipped Panel: screwed (with adaptor plate)
<b>Mounting position</b>	Horizontal Vertical
<b>Width</b>	45 mm
<b>Height</b>	89 mm
<b>Depth</b>	78.5 mm
<b>Net weight</b>	0.26 kg
<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

Package 1 Height	4.800 cm
Package 1 Width	8.000 cm
Package 1 Length	9.000 cm
Package 1 Weight	268.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	24
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.818 kg
Unit Type of Package 3	P06
Number of Units in Package 3	384
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	119.088 kg

## Contractual warranty

Warranty (in months)	18
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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

Total lifecycle Carbon footprint	43 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	1 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]	0.7 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	04104e70-ba29-493c-b2cc-b5837d1f879b
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
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## Use Again

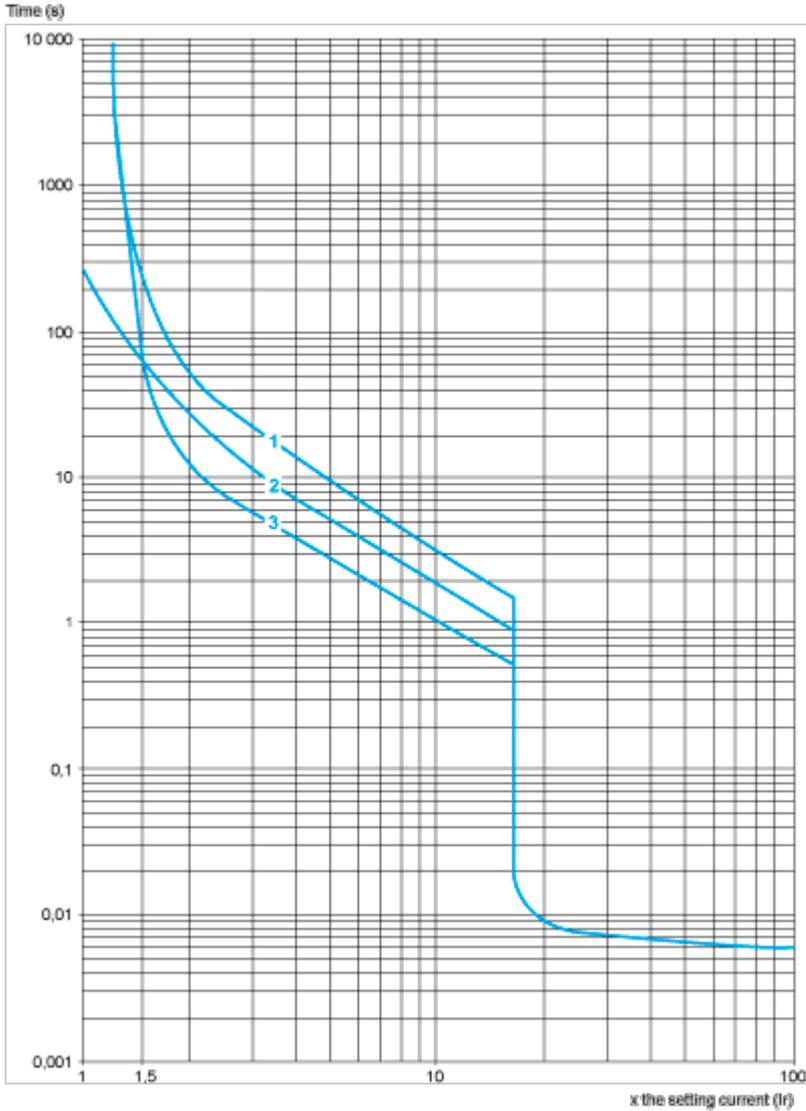


### Repack and remanufacture

Recyclability potential, in %	63
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

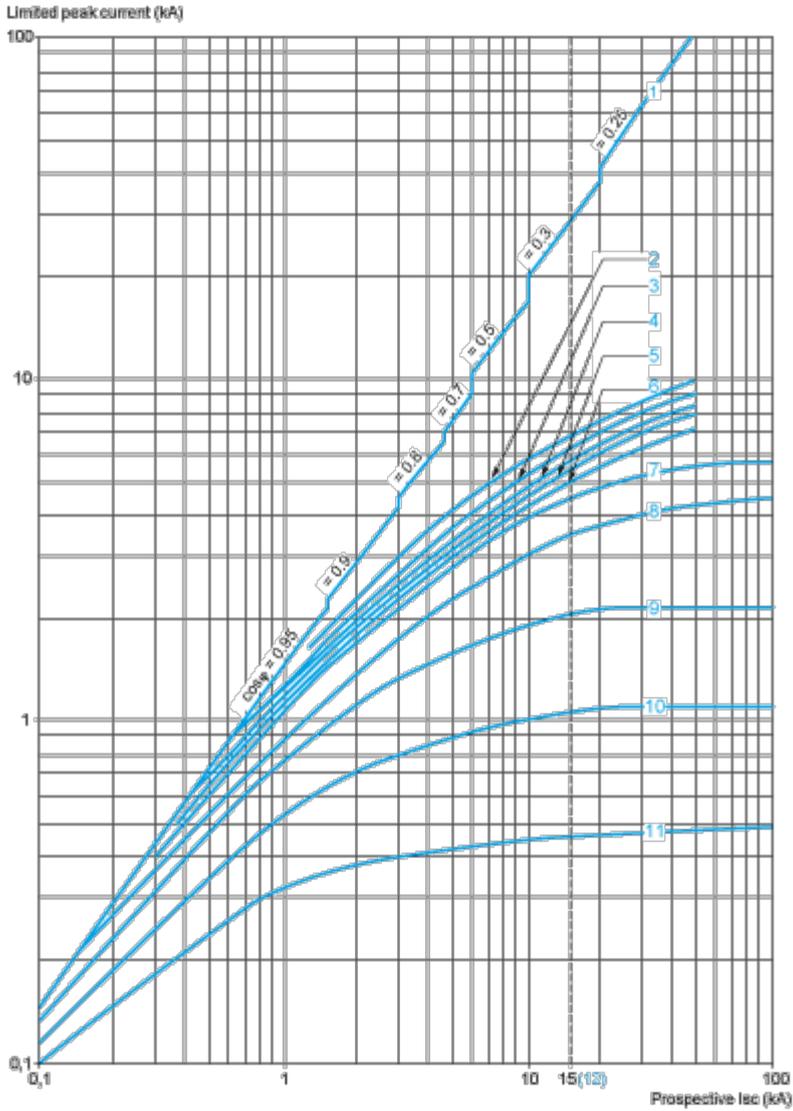


- 1 3 poles from cold state
- 2 2 poles from cold state
- 3 3 poles from hot state

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

**Dynamic Stress**

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

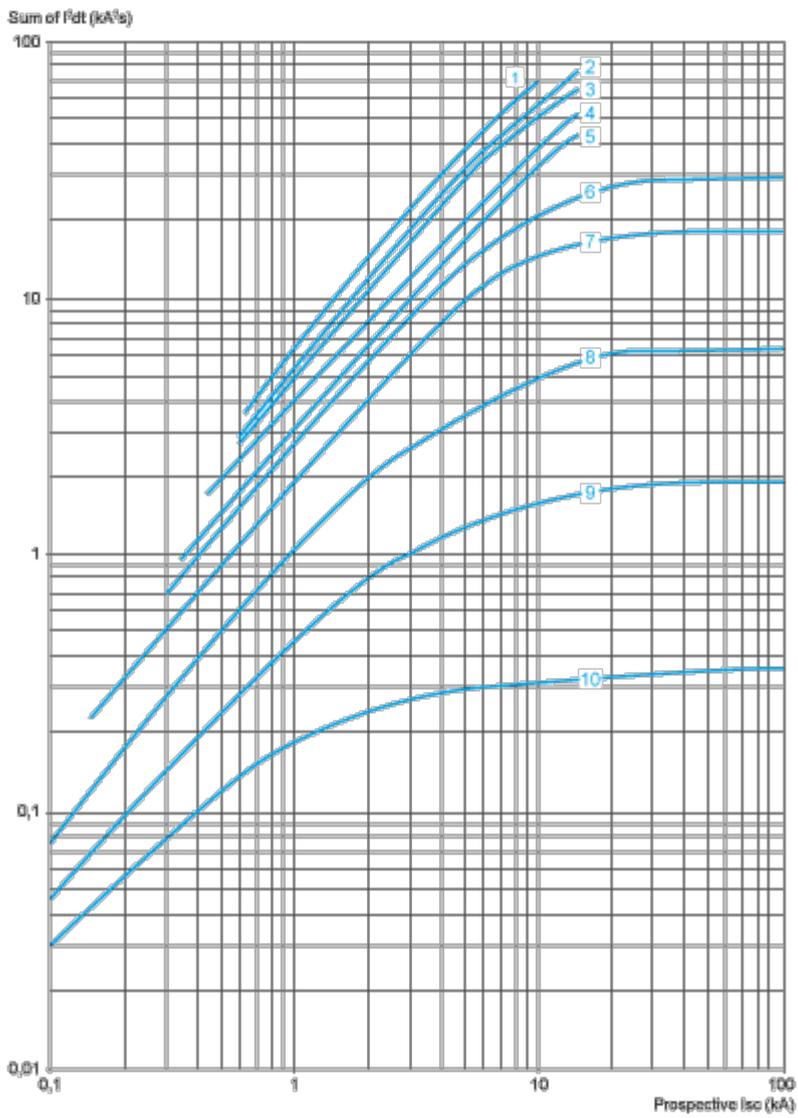


- 1 Maximum peak current
- 2 24-32 A
- 3 20-25 A
- 4 17-23 A
- 5 13-18 A
- 6 9-14 A
- 7 6-10 A
- 8 4-6.3 A
- 9 2.5-4 A
- 10 1.6-2.5 A
- 11 1-1.6 A
- 12 Limit of rated ultimate breaking capacity on short-circuit of GV2ME (14, 18, 23, and 25 A ratings).

**Thermal Limit on Short-Circuit for GV2ME**

Thermal Limit in  $kA^2s$  in the Magnetic Operating Zone

Sum of  $I^2dt = f$  (prospective Isc) at 1.05 Ue = 435 V

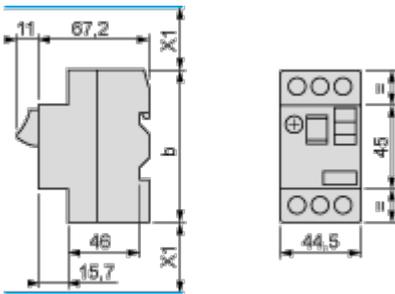


- 1 24-32 A
- 2 20-25 A
- 3 17-23 A
- 4 13-18 A
- 5 9-14 A
- 6 6-10 A
- 7 4-6.3 A
- 8 2.5-4 A
- 9 1.6-2.5 A
- 10 1-1.6 A

Dimensions Drawings

Dimension

GV2ME



(1) Maximum

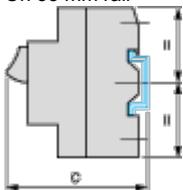
X1 Electrical clearance = 40 mm for  $U_e \leq 690$  V

	b
GV2ME $\bullet\bullet$	89
GV2ME $\bullet\bullet$ 3	101

Mounting

GV2ME

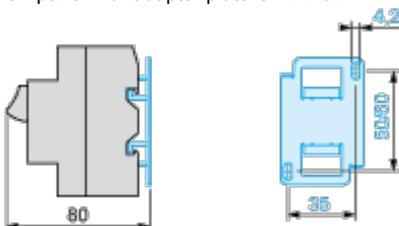
On 35 mm rail



c = 78.5 on AM1 DP200 (35 x 7.5)

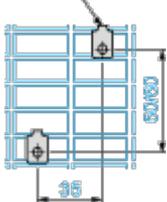
c = 86 on AM1 DE200, ED200 (35 x 15)

On panel with adapter plate GV2AF02

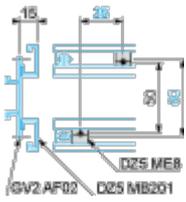


On pre-slotted plate AM1 PA

AF1 EA4

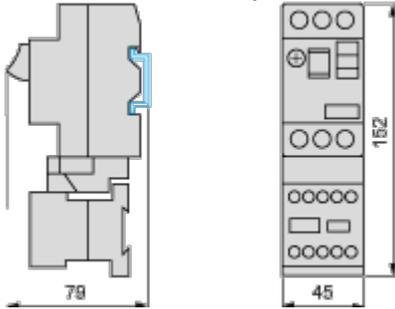


On rails DZ5 MB201



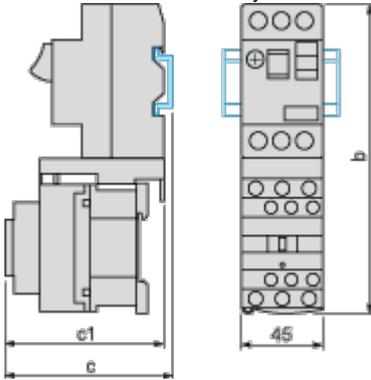
**GV2AF01**

Combination GV2ME + TeSys k contactor



**GV2AF3**

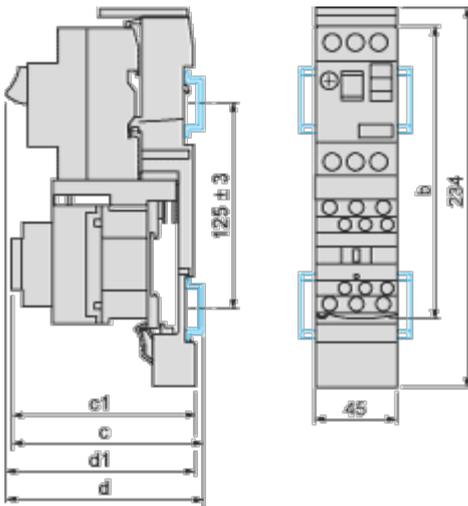
Combination GV2ME + TeSys d contactor



GV2ME +	LC1D09...D18	LC1D25 and D32
b	176.4	186.8
c1	94.1	100.4
c	99.6	105.9

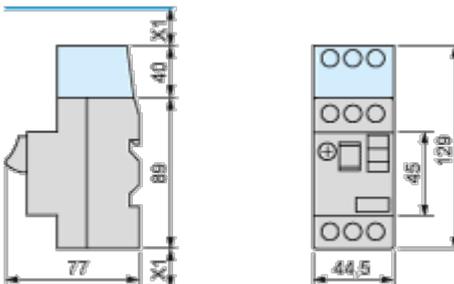
**GV2AF4 + LAD311**

Combination GV2ME + TeSys d contactor



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)

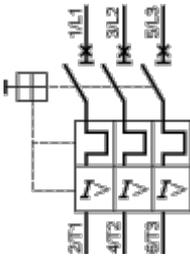


X1 = 10 mm for Ue = 230 V or 30 mm for 230 V < Ue ≤ 690 V

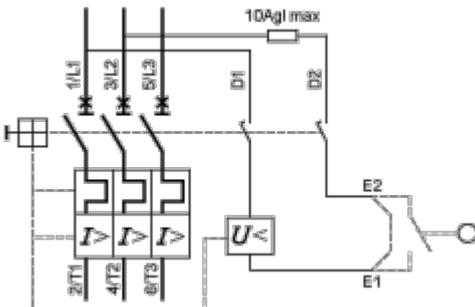
Connections and Schema

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GV2ME•• and GV2RT



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

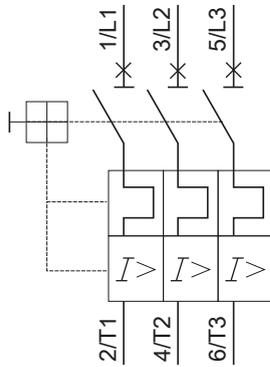


Technical Illustration

Wiring diagram

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GV2ME $\times$



REFER TO TECHNICAL DRAWINGS AND DOCUMENTATION FOR COMPLETE INFORMATION.

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

The image displays a collection of accessories for TeSys Deca Motor Circuit Breakers. At the top left, a large black motor circuit breaker is shown against a green circular background. Below it, the title 'TeSys Deca Motor Circuit Breakers' is written in black, with 'Range Accessories' in green. The accessories are arranged in two rows of four. Each accessory is accompanied by a small image and a label: Energy Sensor (a white box with wires), Mounting and adapters (two metal plates), Terminal block (a black block with three terminals), Combination block (a black block with four terminals), Motor starter adapter plate (a black plate with four terminals), Current limiter (a black block with two terminals), Comb busbar (a long black bar with many terminals), and Auxiliary contact blocks (two black blocks with multiple terminals).

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 red handle. It has three terminals at the top labeled 1, 2, and 3, and three terminals at the bottom labeled 2, 4, and 6. The handle is in the 'OFF' position. 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.



Offer Marketing Illustration

Product benefits / Features

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Offer Marketing Illustration

Product benefits / Features

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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

Image of product / Alternate images

Alternative

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**Schneider Electric**

**I<sub>e</sub> 0,1 - 0,16A**

**UL LISTED** 17000  
SEAN MET. CNTLR.

U <sub>e</sub>	I <sub>cu</sub>	I <sub>cs</sub>	U <sub>imp</sub>	U <sub>gk</sub>
V	kA	%I <sub>cu</sub>	6kV	
400/415	100	100		
690	100	100		

UL: 690V  
U<sub>imp</sub> 6kV  
50/60Hz

U <sub>e</sub>	I <sub>cu</sub>	I <sub>cs</sub>
V	kA	%I <sub>cu</sub>
120	10	10
208	10	10
240	10	10
480	10	10
600	10	10

Lightning torque 15 lb. ft. 70°C CU: 800 8-10  
Tipping current 125kA  
Numbers on dial are full load motor currents  
Short Circuit Current Rating:  
50kA rms sym 240V 50kA rms sym 480V  
30kA rms sym 600V

**Suitable as Motor Disconnect**  
Suitable for motor group installation on a circuit having an available fault current not exceeding the lesser of the above values when protected by 125A Class K-3 fuses, or when protected by 125A Inverse Time Circuit Breaker having ratings not less than the above values.

schneider-electric.com/contact

