

# Product datasheet

Specifications



## Motor circuit breaker, TeSys Deca, 3P, 2.5-4A, thermal magnetic, spring terminals, toggle handle

GV2RT083

⚠ Discontinued on: Apr 13, 2023

⚠ Discontinued

### Main

Range	TeSys Deca
Product name	TeSys GV2
Product or component type	Motor circuit breaker
Device short name	GV2RT
Device application	Motor protection Transformer
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	0.55 kW at 220/230 V AC 50/60 Hz motor protection high peak current 0.75 kW at 220/230 V AC 50/60 Hz motor protection high peak current 1.1 kW at 400/415 V AC 50/60 Hz motor protection high peak current 1.5 kW at 400/415 V AC 50/60 Hz motor protection high peak current 1.5 kW at 440 V AC 50/60 Hz motor protection high peak current 1.5 kW at 500 V AC 50/60 Hz motor protection high peak current 2.2 kW at 500 V AC 50/60 Hz motor protection high peak current 2.2 kW at 690 V AC 50/60 Hz motor protection high peak current 3 kW at 690 V AC 50/60 Hz motor protection high peak current 1 kW at 230/240 V AC 50/60 Hz transformer protection 1.6 kW at 400/415 V AC 50/60 Hz transformer protection 2 kW at 400/415 V AC 50/60 Hz transformer protection 1.6 kW at 440 V AC 50/60 Hz transformer protection 2 kW at 440 V AC 50/60 Hz transformer protection 2 kW at 500 V AC 50/60 Hz transformer protection 2.5 kW at 500 V AC 50/60 Hz transformer protection 2.5 kW at 690 V AC 50/60 Hz transformer protection
Breaking capacity	100 kA Icu at 220/230 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 3 kA Icu at 690 V AC 50/60 Hz conforming to IEC 60947-2
Control type	Toggle
[In] rated current	4 A
Thermal protection adjustment range	2.5...4 A conforming to IEC 60947-2
Magnetic tripping current	78 A
[Ith] conventional free air thermal current	4 A conforming to IEC 60947-2

<b>[Ue] rated operational voltage</b>	690 V AC 50/60 Hz conforming to IEC 60947-2
<b>[Ui] rated insulation voltage</b>	690 V AC 50/60 Hz conforming to IEC 60947-2
<b>[Uimp] rated impulse withstand voltage</b>	6 kV conforming to IEC 60947-2
<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: spring terminals 2 cable(s) 1...6 mm <sup>2</sup> solid Power circuit: spring terminals 2 cable(s) 1.5...4 mm <sup>2</sup> flexible without cable end Power circuit: spring terminals 2 cable(s) 1...4 mm <sup>2</sup> flexible with cable end
<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

## Environment

<b>Standards</b>	EN/IEC 60947-2 EN/IEC 60947-4-1
<b>Product certifications</b>	CCC UL CSA EAC LROS (Lloyds register of shipping) BV 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>	8.5 cm
<b>Package 1 Width</b>	9.4 cm
<b>Package 1 Length</b>	4.8 cm
<b>Package 1 Weight</b>	286.0 g

# Contractual warranty

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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]	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]	0.5 kg CO2 eq.

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
SCIP Number	04104e70-ba29-493c-b2cc-b5837d1f879b
EU RoHS Directive	<a href="#">Compliant By Exemption</a>

## Use Longer



### Lifetime extension

Repair	No
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## Use Again



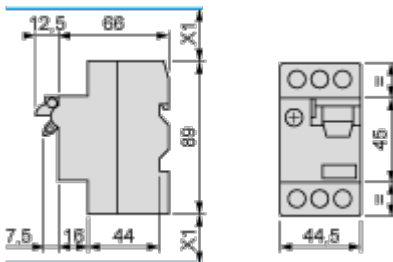
### Repack and remanufacture

Recyclability potential, in %	63
End of life manual availability	<a href="#">End of Life Information</a>
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

GV2RT

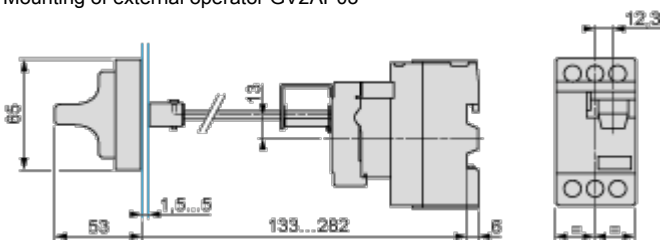
Dimensions



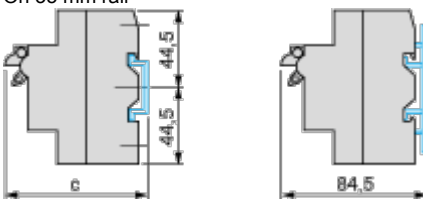
X1: Electrical clearance = 40 mm for  $U_e < 690$  V

Mounting

Mounting of external operator GV2AP03



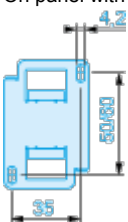
On 35 mm rail



c = 80 on AM1 DP200 (35 x 7.5)

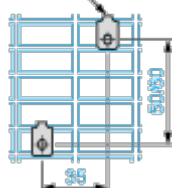
c = 88 on AM1 DE200, ED200 (35 x 15)

On panel with adapter plate GV2AF02

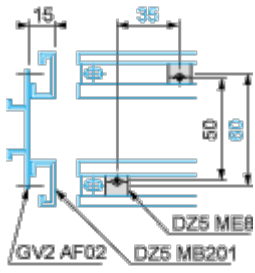


On pre-slotted plate AM1 PA

AF1 EA4



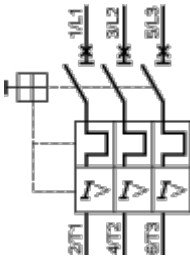
On rails DZ5 MB



Connections and Schema

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GV2ME•• and GV2RT



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 main terminals at the top labeled 1, 2, and 3, and three at the bottom labeled 2, 4, and 6. A red handle is in the center, with 'OFF' above it and 'ON' below it. To the right of the handle is a green button labeled 'RESET'. Below the handle is a small display area with a QR code and the text 'TeSys Deca Motor Circuit Breaker'. 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**  
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 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 text label: Energy Sensor (a white rectangular device with a cable), Mounting and adapters (two grey metal brackets), Terminal block (a black plastic block with three terminals), Combination block (a black plastic block with four terminals), Motor starter adapter plate (a black metal plate with four terminals), Current limiter (a black metal block with two terminals), Comb busbar (a long black metal bar with multiple terminals), and Auxiliary contact blocks (two black plastic blocks with multiple terminals).

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.

