

# Product datasheet

Specifications



## motor circuit breaker GZ1 - 3 poles 3d - 13..18A - thermomagnetic trip unit

GZ1E20

### Main

Range	Easy TeSys
Range of product	Easy TeSys Power
Product or component type	Circuit breaker
Device short name	GZ1E
Device application	Motor
Trip unit technology	Thermal-magnetic
Suitability for isolation	Yes conforming to IEC 60947-1 appendix 7.1.6
Colour	Grey (RAL 7011)

### Complementary

poles description	3P
Network type	AC
Utilisation category	AC-3
Network frequency	50/60 Hz conforming to IEC 60947-2
mounting mode	By clips By screws
mounting support	Rail
mounting position	Any position
Motor power kW	4 kW at 230 V AC 50/60 Hz 7.5 kW at 400 V AC 50/60 Hz 9 kW at 440 V AC 50/60 Hz 10 kW at 500 V AC 50/60 Hz 15 kW at 690 V AC 50/60 Hz
Breaking capacity	Icu: $\geq$ 100 kA at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 Icu: 2 kA at 690 V AC 50/60 Hz conforming to IEC 60947-2 Icu: 10 kA at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 Icu: 6 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 Icu: 5 kA at 500 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 75 % at 690 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 75 % at 500 V AC 50/60 Hz conforming to IEC 60947-2
Control type	Push-button
Thermal protection adjustment range	13...18 A
Magnetic tripping current	223 A
[Ue] rated operational voltage	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>Power dissipation</b>	2.5 W (per pole)
<b>Mechanical durability</b>	100000 cycles
<b>Electrical durability</b>	100000 cycles for AC-3
<b>Maximum operating rate</b>	25 cyc/h
<b>Connections - terminals</b>	Screw clamp terminals 2 1...6 mm <sup>2</sup> - cable stiffness: solid Screw clamp terminals 2 1.5...6 mm <sup>2</sup> - cable stiffness: flexible without cable end Screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end
<b>Height</b>	89 mm
<b>Width</b>	44.5 mm
<b>Depth</b>	78 mm
<b>Net weight</b>	0.26 kg

## Environment

<b>Standards</b>	IEC 60947-2 IEC 60947-4
<b>Protective treatment</b>	TH
<b>IP degree of protection</b>	IP20 conforming to IEC 60529
<b>Ambient air temperature for operation</b>	-20...60 °C
<b>Ambient air temperature for storage</b>	-40...80 °C
<b>Fire resistance</b>	960 °C conforming to IEC 60695-2-1
<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>	4.800 cm
<b>Package 1 Width</b>	8.400 cm
<b>Package 1 Length</b>	9.000 cm
<b>Package 1 Weight</b>	272.000 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	24
<b>Package 2 Height</b>	15.000 cm
<b>Package 2 Width</b>	30.000 cm
<b>Package 2 Length</b>	40.000 cm
<b>Package 2 Weight</b>	6.884 kg
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	384
<b>Package 3 Height</b>	75.000 cm
<b>Package 3 Width</b>	60.000 cm
<b>Package 3 Length</b>	80.000 cm

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Package 3 Weight

118.644 kg

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Mercury Free

RoHS Exemption Information Yes

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu RoHS Directive Compliant with Exemptions

China RoHS Regulation [China RoHS declaration](#)  
Product out of China RoHS scope. Substance declaration for your information

Environmental Disclosure [Product Environmental Profile](#)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile [End of Life Information](#)

Offer Marketing Illustration

Product benefits / Features

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Easy TeSys Motor  
Circuit Breakers  
Range Accessories

Contact blocks

Auxiliary contact

Mounting accessories

Manual starter enclosure


Manual starter padlocking

The image displays a collection of accessories for Easy TeSys Motor Circuit Breakers. At the top left is a grey motor circuit breaker. Below it, the text 'Easy TeSys Motor Circuit Breakers Range Accessories' is shown. The accessories are arranged in three rows: the first row contains 'Contact blocks' and an 'Auxiliary contact'; the second row contains 'Mounting accessories', 'Manual starter enclosure', and 'Manual starter padlocking'.

Offer Marketing Illustration

Product benefits / Features

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The image shows a Schneider Easy TeSys Motor Circuit Breaker (GZ1E20) in a dark grey plastic housing. It features a red emergency stop button, a grey push button, and a black rotary selector switch. The front panel has a QR code, a small indicator light, and technical markings including 'Schneider Electric', 'Easy TeSys Power', and 'GZ1E20'. The device is shown against a white background with a green curved graphic element on the left.

### Easy TeSys Motor Circuit Breakers

#### Technical Benefits


- Specifically designed for the control and protection of motors conforming to standards IEC 60947-2 and IEC 60947-4-1.
- Thermal-magnetic or magnetic protection
- Push button control
- One size from 0.37 to 15 Kw under 440V
- Icu breaking capacity up to 100 kA
- One size from 0.1A to 32A, Width = 44.5 mm

Offer Marketing Illustration


Product benefits / Features

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## Easy TeSys Motor Circuit Breakers



A Schneider Easy TeSys Motor Circuit Breaker (GZ1E20) is shown against a green background. It is a grey, rectangular device with a red handle and a white button. The top and bottom have terminal blocks with screws. The Schneider logo and 'Easy TeSys' are visible on the front panel.

-  **Designed for the essential**  
Designed to deliver essential control & protection, providing the right balance between performance and cost without quality compromise
-  **Easy choice and application**  
Easier to install, order and understand, operates with multi-standard screws
-  **Cost-effective**  
Provides a cost-effective solution to simple light duty applications

Technical Illustration

Assembly's dimensions

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