

# Product data sheet

Specifications



## Motor circuit breaker, Easy TeSys Power, GZ1E, AC-3, 3P, 20..25A, thermal magnetic trip

GZ1E22

### 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 screws<br>By clips  |
| Mounting support                                    | Rail   |
| Mounting position                                   | Any position   |
| Motor power kW                                      | 5.5 kW at 230 V AC 50/60 Hz<br>11 kW at 440 V AC 50/60 Hz<br>11 kW at 400 V AC 50/60 Hz<br>15 kW at 500 V AC 50/60 Hz<br>22 kW at 690 V AC 50/60 Hz  |
| Breaking capacity                                   | Icu: 2 kA at 690 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu: 10 kA at 400/415 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu: 30 kA at 230/240 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu: 5 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu: 3 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<br>75 % at 690 V AC 50/60 Hz conforming to IEC 60947-2<br>50 % at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>75 % at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>40 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2                           |
| Control type  | Push-button  |
| Thermal protection adjustment range                 | 20...25 A  |
| Magnetic tripping current                           | 327 A  |
| [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  |

|   |   |
|---|---|
| <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<br>Screw clamp terminals 2 1.5...6 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>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>                             | EN/IEC 60947-1<br>EN/IEC 60947-2<br>EN/IEC 60947-4-1<br>GB/T 14048.1<br>GB/T 14048.2<br>GB/T 14048.4<br>EN/IEC 60335-1:Clause 30.2<br>EN/IEC 60335-2-40:Annex JJ |
| <b>Product certifications</b>                | CB Scheme<br>CCC<br>CE<br>EAC  |
| <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>             | 4.900 cm  |
| <b>Package 1 Width</b>              | 8.400 cm  |
| <b>Package 1 Length</b>             | 9.100 cm  |
| <b>Package 1 Weight</b>             | 271.000 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>             | 6.861 kg  |

# 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                       | 44 kg CO2 eq.                                 |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |
| Carbon footprint of the manufacturing phase [A1 to A3] | 2 kg CO2 eq.                                  |
| Carbon footprint of the distribution phase [A4]        | 0.5 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.                                |

### Use Better



### Materials and Substances

|  |  |
|--|--|
| Packaging made with recycled cardboard | Yes  |
| Packaging without single use plastic   | Yes  |
| SCIP Number                            | 25204872-3df4-48c8-9f77-906ce87e060b   |
| 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 %   | 57  |
| 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 |

Offer Marketing Illustration

Product benefits / Features

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## Easy TeSys Motor Circuit Breakers



### 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



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

Offer Marketing Illustration

Product benefits / Features

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## 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

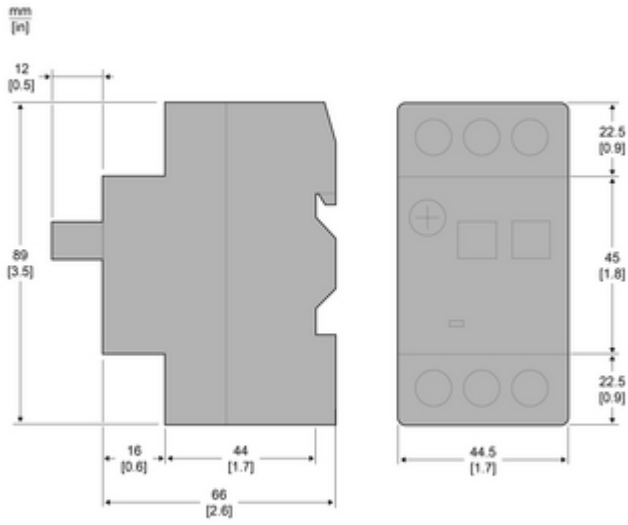
Icu breaking capacity up to 100kA

One size from 0.1A to 32A,  
Width = 44.5 mm

Technical Illustration

Assembly's dimensions

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## Technical Illustration

### Assembly's dimensions

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