

Product datasheet

Specifications



TeSys GV7 - circuit breaker - 3P - AC-3 - 48...80 A - thermal-magnetic

GV7RE80

EAN Code: 3389110566826

❗ Discontinued

Main

| | |
|---|---|
| Range | TeSys |
| Product Name | TeSys GV7 |
| Product Or Component Type | Circuit breaker |
| Device Short Name | GV7R |
| Device Application | Motor |
| Poles Description | 3P |
| Network Type | AC |
| Utilisation Category | AC-3 conforming to IEC 60947-4-1 |
| Network Frequency | 50/60 Hz conforming to IEC 60947-4-1 |
| Breaking Capacity | 35 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 36 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 25 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] Rated Service Short-Circuit Breaking Capacity | 100 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 500 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Thermal Protection Adjustment Range | 48...80 A |
| Trip Unit Technology | Thermal-magnetic |

Complementary

| | |
|--------------------------------|--|
| Mounting Mode | By screws By clips |
| Mounting Support | Kit for fixing the switchgear Rail Panel mounting Flush |
| Mounting Position | Vertical |
| Motor Power Kw | 37 kW at 400...415 V AC 50/60 Hz 45 kW at 500 V AC 50/60 Hz 55 kW at 500 V AC 50/60 Hz 55 kW at 660...690 V AC 50/60 Hz |
| Control Type | Rocker lever |
| [Ue] Rated Operational Voltage | 690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ui] Rated Insulation Voltage | 750 V AC 50/60 Hz conforming to IEC 60947-2 |

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

| | |
|---|---|
| [Ith] Conventional Free Air Thermal Current | 80 A conforming to IEC 60947-4-1 |
| [Uimp] Rated Impulse Withstand Voltage | 8 kV conforming to IEC 60947-2 |
| Power Dissipation Per Pole | 5 W |
| Power Dissipation Per Pole | 5 W |
| Mechanical Durability | 50000 cycles |
| Electrical Durability | 30000 cycles for AC-3 at 440 V In 50000 cycles for AC-3 at 440 V In/2 |
| Maximum Operating Rate | 25 cyc/h |
| Rated Duty | Continuous conforming to IEC 60947-4-1 |
| Connection Pitch | 35 mm without spreaders 45 mm with spreaders |
| Connections - Terminals | Bars Cable with lug - external diameter: 10 mm Screw Bare cable connectors 1.5...95 mm² |
| Tightening Torque | 10 N.m on screw M6 screw type 15 N.m on bare cable connectors for cable 1.5...95 mm² |
| Mechanical Robustness | Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations: 2.5 Gn, 0...25 Hz conforming to IEC 60068-2-6 |
| Suitability For Isolation | Yes conforming to IEC 60947-1 |
| Phase Failure Sensitivity | Yes conforming to IEC 60947-4-1 § 7-2-1-5-2 |
| Height | 161 mm |
| Width | 105 mm |
| Depth | 111 mm |
| Net Weight | 2.04 kg |

Environment

| | |
|---------------------------------------|---|
| Standards | VDE 0660 NF C 63-650 EN/IEC 60947-4-1 NF C 63-120 NF C 79-130 VDE 0113 EN/IEC 60947-2 EN/IEC 60947-1 |
| Product Certifications | DNV UL |
| Protective Treatment | TC |
| Ip Degree Of Protection | IP405 conforming to IEC 60529 (with terminal shrouds) |
| Pollution Degree | 3 |
| Ambient Air Temperature For Operation | -25...70 °C |
| Ambient Air Temperature For Storage | -55...95 °C |
| Fire Resistance | 960 °C conforming to IEC 60695-2-1 |
| Operating Altitude | 2000 m |

Packing Units

| | |
|------------------------------|-----|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |

| | |
|------------------|----------|
| Package 1 Height | 11.5 cm |
| Package 1 Width | 14 cm |
| Package 1 Length | 17.5 cm |
| Package 1 Weight | 1.934 kg |

Contractual warranty

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

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-CO₂ 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

Eu Rohs Directive

Pro-active compliance (Product out of EU RoHS legal scope)

[EU RoHS Declaration](#)

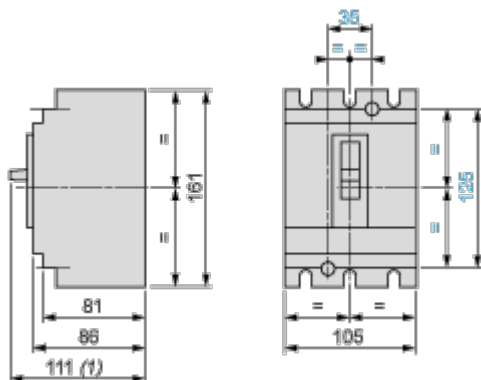
Environmental Disclosure

[Product Environmental Profile](#)

Dimensions Drawings

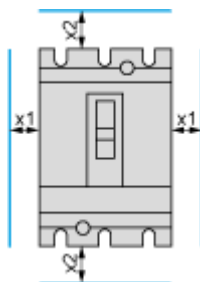
GV7R

Dimensions



(1) 126 for GV7R.220.

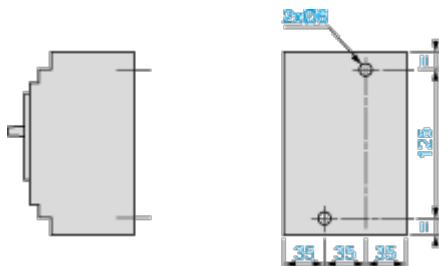
Minimum Electrical Clearance



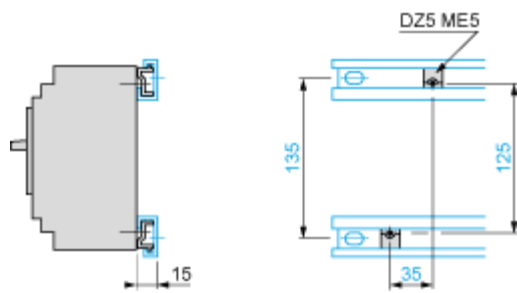
| | | x1 | x2 |
|---|-------------------------------------|----|----|
| Painted or insulated metal plate, insulation or insulated bar | | 0 | 30 |
| Bare metal plate | $U \leq 440 \text{ V}$ | 5 | 35 |
| | $440 \text{ V} < U < 600 \text{ V}$ | 10 | 35 |
| | $U \geq 600 \text{ V}$ | 20 | 35 |

GV7R

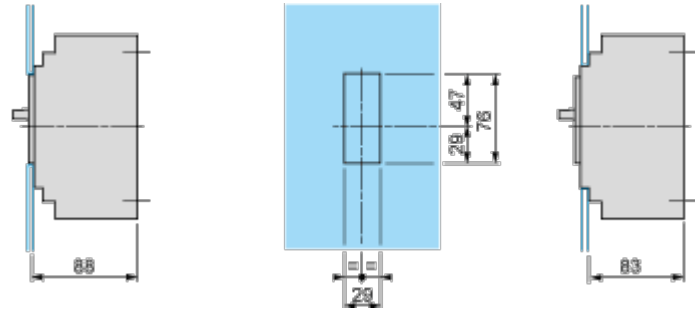
Panel Mounting



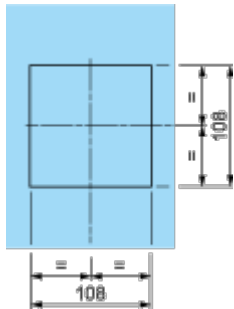
Mounting on 2 Mounting Rails DZ5 MB201



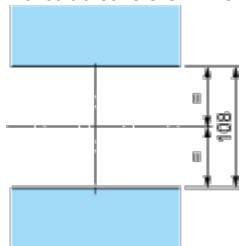
Flush-Mounting



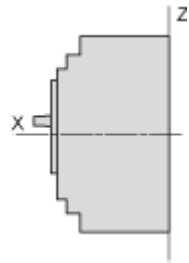
1 circuit breaker GV7R



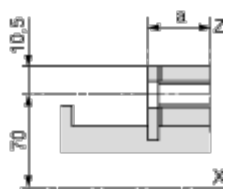
n circuit breakers GV7R side by side



Connection

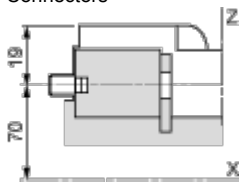


Smooth terminals



| | a |
|---|------|
| GV7R _• 40...R _• 150 | 19.5 |
| GV7R _• 220 | 21.5 |

Connectors



Connections and Schema

Motor Circuit Breakers
GV7 R

