Specifications



① Discontinued

TeSys GV7 - circuit breaker - 3P -AC-3 - 132...220 A - thermalmagnetic

GV7RE220

Uiscontinued on: Sep 9, 2020

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 35 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 | 132220 A | |
| Trip Unit Technology | Thermal-magnetic | |

Complementary

| Mounting Mode | By screws By clips | |
|--------------------------------|--|--|
| Mounting Support | Panel mounting Rail Kit for fixing the switchgear Flush | |
| Mounting Position | Vertical | |
| Motor Power Kw | 110 kW at 400415 V AC 50/60 Hz 110 kW at 500 V AC 50/60 Hz 132 kW at 500 V AC 50/60 Hz 160 kW at 500 V AC 50/60 Hz 160 kW at 660690 V AC 50/60 Hz 200 kW at 660690 V AC 50/60 Hz 90 kW at 400415 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 | | |
|--|--|--|--|
| [Ith] Conventional Free Air Thermal Current | 220 A conforming to IEC 60947-4-1 | | |
| [Uimp] Rated Impulse Withstand Voltage | 8 kV conforming to IEC 60947-2 | | |
| Power Dissipation Per Pole | 14.5 W | | |
| Power Dissipation Per Pole | 14.5 W | | |
| Mechanical Durability | 20000 cycles | | |
| Electrical Durability | 10000 cycles for AC-3 at 440 V In 20000 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 1.5185 mm ² | | |
| Tightening Torque | 10 N.m on screw M6 screw type 15 N.m on bare cable connectors for cable 1.5185 mm ² | | |
| Mechanical Robustness | Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations: 2.5 Gn, 025 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 | 126 mm | | |
| Net Weight | 2.35 kg | | |

Environment

| Standards | VDE 0113 EN/IEC 60947-4-1 VDE 0660 EN/IEC 60947-1 NF C 63-120 EN/IEC 60947-2 NF C 79-130 NF C 63-650 | |
|--|---|--|
| 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 | -2570 °C | |
| Ambient Air Temperature For Storage | -5595 °C | |
| Fire Resistance | 960 °C conforming to IEC 60695-2-1 | |
| Operating Altitude | 2000 m | |

Packing Units

Unit Type Of Package 1

| Number Of Units In Package 1 | 1 |
|------------------------------|---------|
| Package 1 Height | 11.6 cm |
| Package 1 Width | 14 cm |
| Package 1 Length | 17.6 cm |
| Package 1 Weight | 2.08 kg |

Contractual warranty

Warranty

12 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass 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

Not applicable, out of EU RoHS legal scope

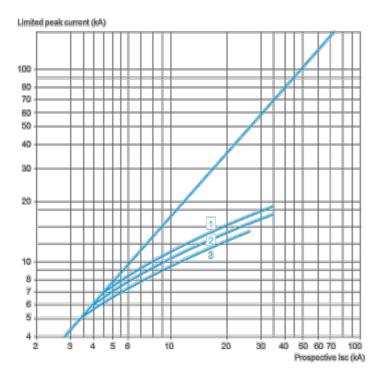
Environmental Disclosure

Product Environmental Profile

Performance Curves

Current Limitation on Short-Circuit (3-Phase 400/415 V)

Dynamic Stress I peak = f (prospective lsc) For GV7RE only

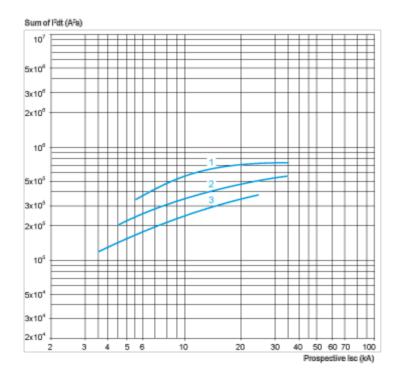


- 1 GV7RE220
- 2 GV7RE150
- 3 GV7RE100

Thermal Limit (3-Phase 400/415 V)

Thermal Limit

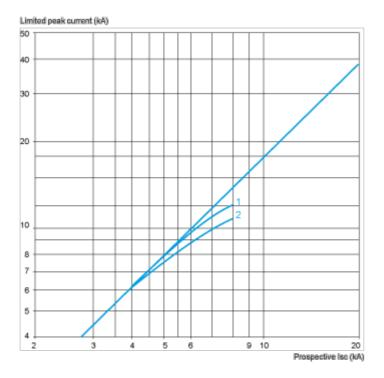
Sum of I^2 dt = f (prospective lsc) For GV7RE only



- 1 GV7RE220
- 2 GV7RE150
- 3 GV7RE100

Current Limitation on Short-Circuit (3-Phase 690 V)

Dynamic Stress I peak = f (prospective Isc) For GV7RE only

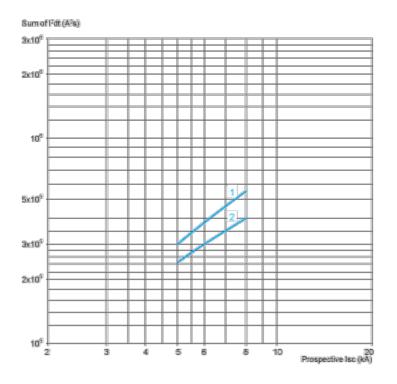


- 1 GV7RE220
- 2 GV7RE150 and GV7RE100

Thermal Limit on Short-Circuit (3-Phase 690 V)

Thermal Limit

Sum of I²dt = f (prospective lsc) For GV7RE only



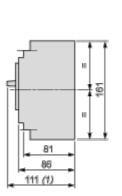
1 GV7RE220

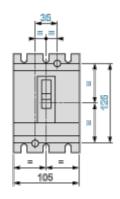
2 GV7RE150 and GV7RE100

Dimensions Drawings

GV7R

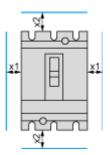
Dimensions





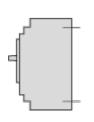
(1) 126 for GV7R_•220.

Minimum Electrical Clearance



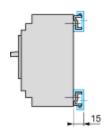
| | | x1 | x2 |
|---|-------------------|----|----|
| Painted or insulated metal plate, insulation or insulated bar | | 0 | 30 |
| | U ≤ 440 V | 5 | 35 |
| Bare metal plate | 440 V < U < 600 V | 10 | 35 |
| | U ≥600 V | 20 | 35 |

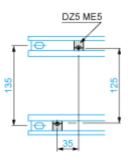
GV7R Panel Mounting



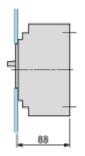


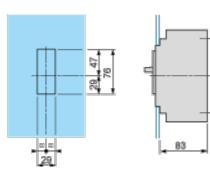
Mounting on 2 Mounting Rails DZ5 MB201



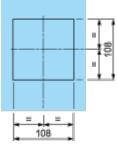


Flush-Mounting

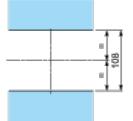




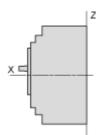
1 circuit breaker GV7R



n circuit breakers GV7R side by side

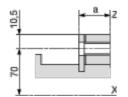


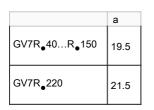
Connection



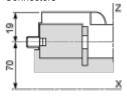
Smooth terminals

GV7RE220





Connectors



Connections and Schema

