



❗ 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 | 25...40 A |
| Trip unit technology | Thermal-magnetic |

Complementary

| | |
|-------------------|--|
| Mounting mode | By screws By clips |
| Mounting support | Rail Panel mounting Kit for fixing the switchgear Flush |
| Mounting position | Vertical |
| Motor power kW | 22 kW at 500 V AC 50/60 Hz 22 kW at 660...690 V AC 50/60 Hz 18.5 kW at 400...415 V AC 50/60 Hz 18.5 kW at 500 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 | 40 A conforming to IEC 60947-4-1 |
| [Uimp] rated impulse withstand voltage | IEC 60947-2 8 kV |
| 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 | 2.01 kg |

Environment

| | |
|---------------------------------------|---|
| Standards | EN/IEC 60947-4-1 EN/IEC 60947-2 VDE 0113 VDE 0660 EN/IEC 60947-1 NF C 63-650 NF C 63-120 NF C 79-130 |
| 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

| | |
|------------------|-----------|
| Package 1 Weight | 1.912 kg |
| Package 1 Height | 14.000 cm |
| Package 1 width | 11.500 cm |
| Package 1 Length | 17.500 cm |

Offer Sustainability

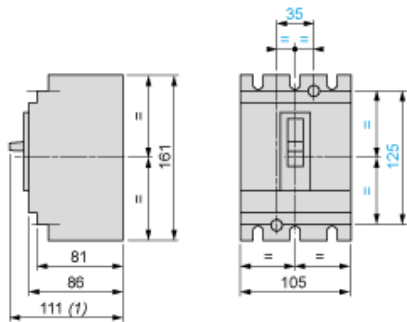
| | |
|--------------------------|---|
| EU RoHS Directive | Not applicable, out of EU RoHS legal scope |
| Environmental Disclosure | Product Environmental Profile |

Contractual warranty

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

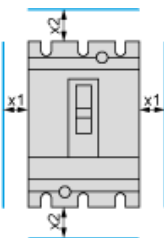
GV7R

Dimensions



(1) 126 for GV7R.220.

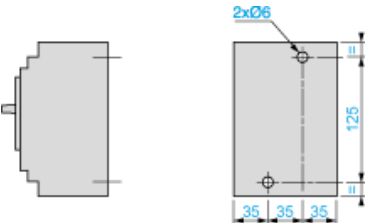
Minimum Electrical Clearance



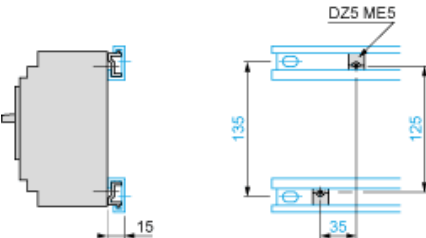
| | x1 | x2 |
|---|-----------------------------------|----|
| Painted or insulated metal plate, insulation or insulated bar | 0 | 30 |
| Bare metal plate | $U \leq 440\text{ V}$ | 5 |
| | $440\text{ V} < U < 600\text{ V}$ | 10 |
| | $U \geq 600\text{ V}$ | 20 |

GV7R

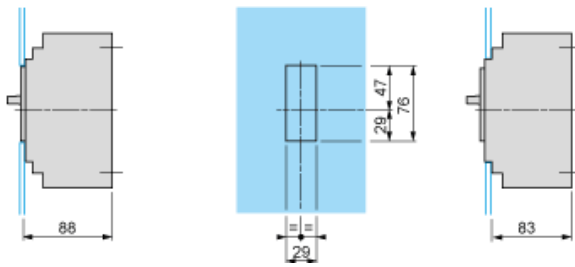
Panel Mounting



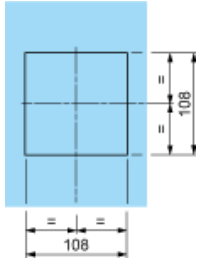
Mounting on 2 Mounting Rails DZ5 MB201



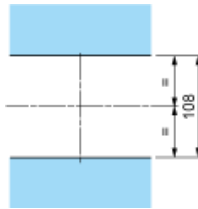
Flush-Mounting



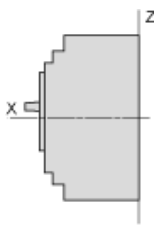
1 circuit breaker GV7R



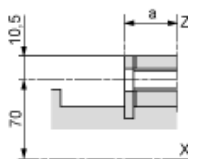
n circuit breakers GV7R side by side



Connection

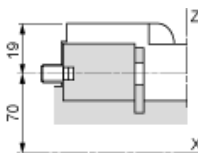


Smooth terminals



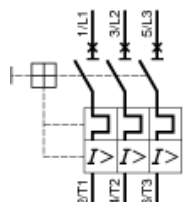
| | a |
|-----------------|------|
| GV7R•40...R•150 | 19.5 |
| GV7R•220 | 21.5 |

Connectors



Motor Circuit Breakers

GV7 R



GV7RE40 is replaced by:



Thermal magnetic motor circuit breakers GV4PE50B

Motor circuit breaker, TeSys GV4, 3P, 50A, Icu 25kA, thermal magnetic, Everlink terminals

Qty 1

Global group 1