

TeSys GV7 - circuit breaker - 3P - AC-3 - 60...100 A - thermal-magnetic

GV7RE100

! 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	60100 A
Trip Unit Technology	Thermal-magnetic

Complementary

Mounting Mode	By screws By clips
Mounting Support	Flush Rail Kit for fixing the switchgear Panel mounting
Mounting Position	Vertical
Motor Power Kw	45 kW at 400415 V AC 50/60 Hz 75 kW at 660690 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	100 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 1.595 mm²
Tightening Torque	10 N.m on screw M6 screw type 15 N.m on bare cable connectors for cable 1.595 mm²
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	111 mm
Net Weight	2.04 kg

Environment

Standards	NF C 63-120 VDE 0660 NF C 63-650 EN/IEC 60947-1 EN/IEC 60947-4-1 EN/IEC 60947-2 VDE 0113 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	-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	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	1 928 kg

Contractual warranty

Warranty 18 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 >

Eu Rohs Directive

Not applicable, out of EU RoHS legal scope

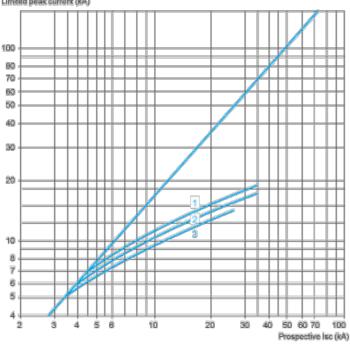
Performance Curves

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

Dynamic Stress

I peak = f (prospective lsc) For GV7RE only

Limited peak current (kA)

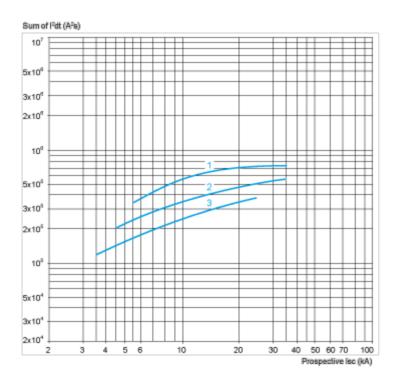


- GV7RE220
- 2 GV7RE150
- GV7RE100 3

Thermal Limit (3-Phase 400/415 V)

Thermal Limit

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



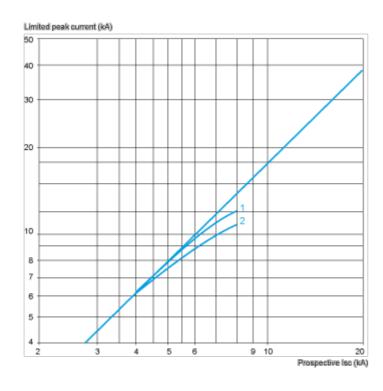
- 1 GV7RE220
- 2 GV7RE150
- 3 GV7RE100

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

Dynamic Stress

I peak = f (prospective lsc)

For GV7RE only

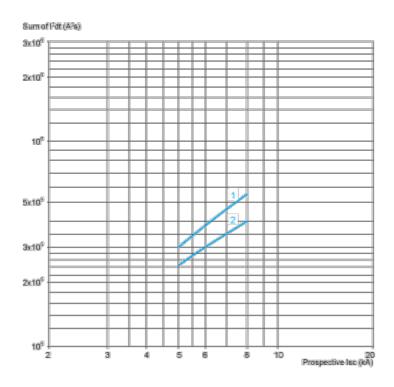


- 1 GV7RE220
- 2 GV7RE150 and GV7RE100

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

Thermal Limit

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

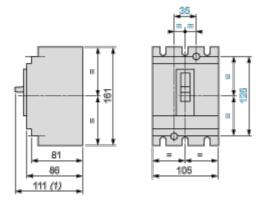


- 1 GV7RE220
- 2 GV7RE150 and GV7RE100

Dimensions Drawings

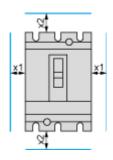
GV7R

Dimensions



(1) 126 for GV7R_{\bullet} 220.

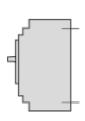
Minimum Electrical Clearance



		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

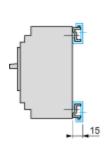


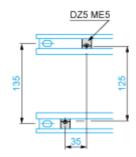


Mounting on 2 Mounting Rails DZ5 MB201

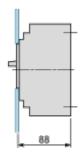
Product datasheet

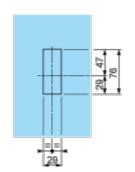
GV7RE100

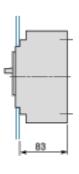




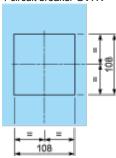
Flush-Mounting



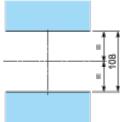




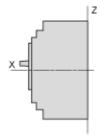
1 circuit breaker GV7R



n circuit breakers GV7R side by side



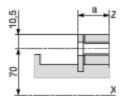
Connection



Smooth terminals

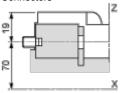
Product datasheet

GV7RE100



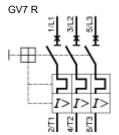
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GV7R•40R•150	19.5
GV7R _• 220	21.5

Connectors



Connections and Schema

Motor Circuit Breakers



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