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

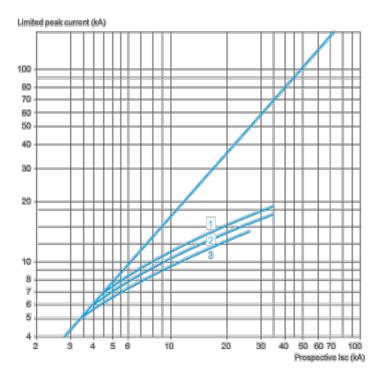
Environmental Disclosure

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

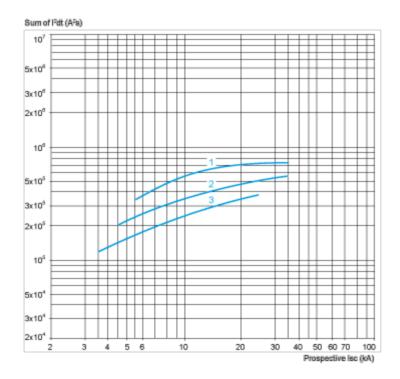


- 1 GV7RE220
- 2 GV7RE150
- 3 GV7RE100

Thermal Limit (3-Phase 400/415 V)

Thermal Limit

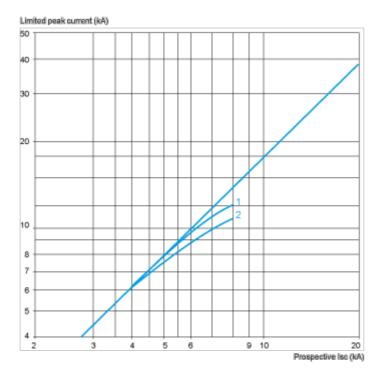
Sum of I^2 dt = f (prospective lsc) For GV7RE only



- 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

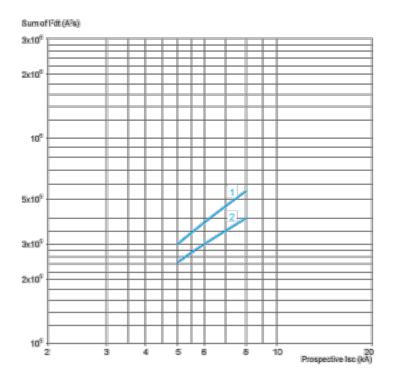


- 1 GV7RE220
- 2 GV7RE150 and GV7RE100

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

Thermal Limit

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



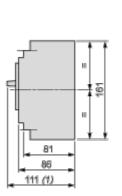
1 GV7RE220

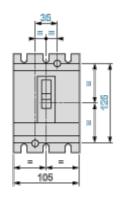
2 GV7RE150 and GV7RE100

Dimensions Drawings

GV7R

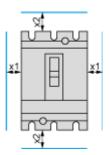
Dimensions





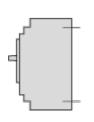
(1) 126 for GV7R_•220.

Minimum Electrical Clearance



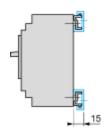
		x1	x2
Painted or insulated metal plate, insulation or insulated bar		0	30
	U ≤ 440 V	5	35
Bare metal plate	440 V < U < 600 V	10	35
	U ≥600 V	20	35

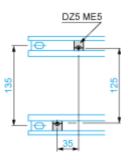
GV7R Panel Mounting



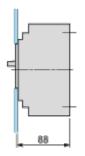


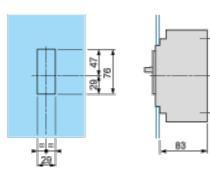
Mounting on 2 Mounting Rails DZ5 MB201



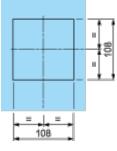


Flush-Mounting

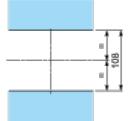




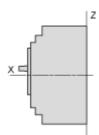
1 circuit breaker GV7R



n circuit breakers GV7R side by side

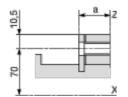


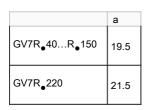
Connection



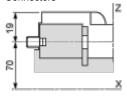
Smooth terminals

GV7RE220





Connectors



Connections and Schema

