

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

GV7RS220

(!) 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	50 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2	
[lcs] rated service short-circuit breaking capacity	100 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 500 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 60947-2 100 % 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	Kit for fixing the switchgear Panel mounting Rail 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 mm²	
Tightening torque	10 N.m on screw M6 screw type 15 N.m on bare cable connectors for cable 1.5185 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	126 mm	
net weight	2.35 kg	

Environment

Standards	EN/IEC 60947-4-1 NF C 79-130 NF C 63-120 NF C 63-650 VDE 0660 EN/IEC 60947-1 VDE 0113 EN/IEC 60947-2	
Product certifications	UL DNV	
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	

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

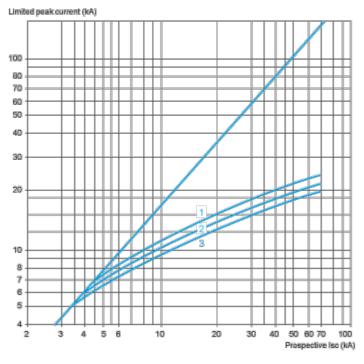
Not applicable, out of EU RoHS legal scope

Performance Curves

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

Dynamic Stress

I peak = f (prospective Isc) For GV7RS only

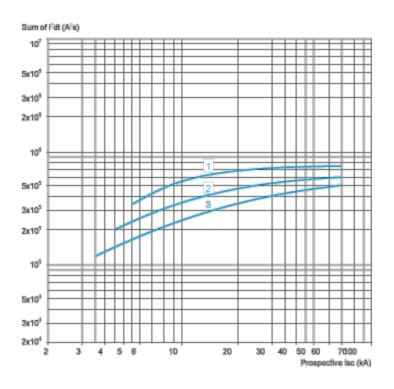


- **GV7RS220**
- GV7RS150 2
- GV7RS100 3

Thermal Limit (3-Phase 400/415 V)

Thermal Limit

Sum of $I^2dt = f$ (prospective Isc) For GV7RS only

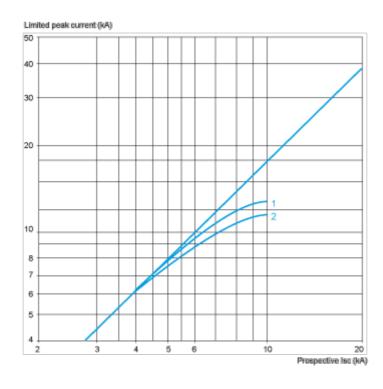


- 1 GV7RS220
- 2 GV7RS150
- 3 GV7RS100

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

Dynamic Stress

I peak = f (prospective lsc) For GV7RS only

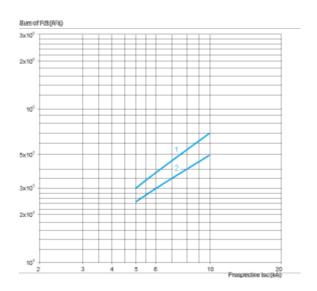


- 1 GV7RS220
- 2 GV7RS150 and GV7RS100

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

Thermal Limit

Sum of I²dt = f (prospective Isc) For GV7RS only

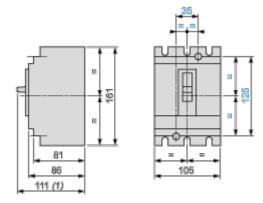


- 1 GV7RS220
- 2 GV7RS150 and GV7RS100

Dimensions Drawings

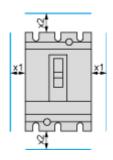
GV7R

Dimensions



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

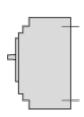
Minimum Electrical Clearance



		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

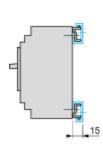
Panel Mounting





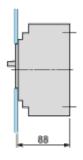
Mounting on 2 Mounting Rails DZ5 MB201

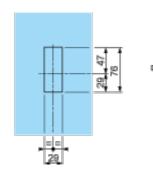
GV7RS220



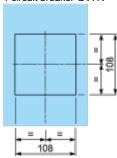


Flush-Mounting

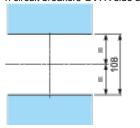




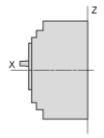
1 circuit breaker GV7R



n circuit breakers GV7R side by side



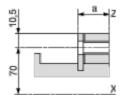
Connection



Smooth terminals

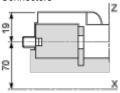
Product datasheet

GV7RS220



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GV7R _• 40R _• 150	19.5
GV7R _e 220	21.5

Connectors



Connections and Schema

Motor Circuit Breakers

