Specifications



#### (!) Discontinued

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

GV7RS220

## 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 lcu at 500 V AC 50/60 Hz conforming to IEC 60947-2 65 kA lcu at 440 V AC 50/60 Hz conforming to IEC 60947-2 100 kA lcu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 70 kA lcu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 10 kA lcu 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 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 mm <sup>2</sup>			
Tightening Torque	10 N.m on screw M6 screw type 15 N.m on bare cable connectors for cable 1.5185 mm <sup>2</sup>			
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	тс	
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 Premium<sup>TM</sup> 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-CO<sub>2</sub> 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 >

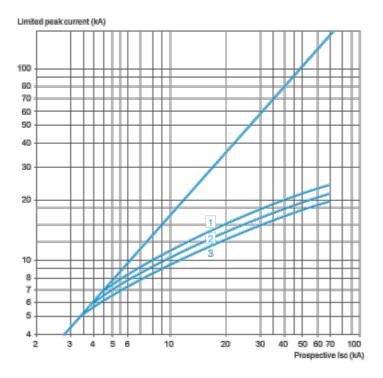
**Eu Rohs Directive** 

Not applicable, out of EU RoHS legal scope

### Performance Curves

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

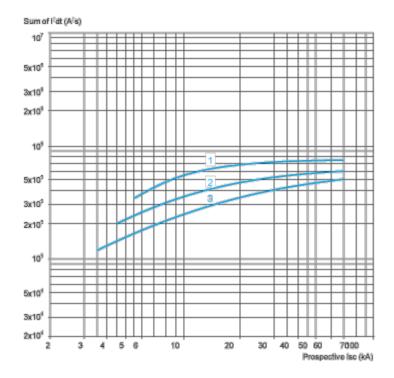
**Dynamic Stress** I peak = f (prospective lsc) For GV7RS only



- 1 GV7RS220
- 2 GV7RS150
- 3 GV7RS100

## Thermal Limit (3-Phase 400/415 V)

**Thermal Limit** Sum of I<sup>2</sup>dt = f (prospective lsc) For GV7RS only

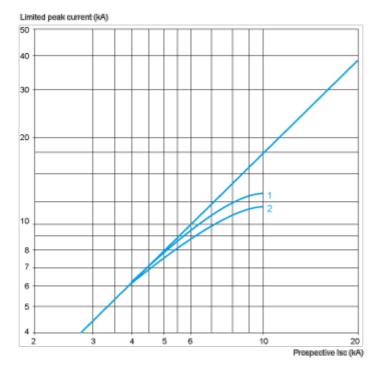


- 1 GV7RS220
- 2 GV7RS150
- 3 GV7RS100

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

**Dynamic Stress** I peak = f (prospective lsc)

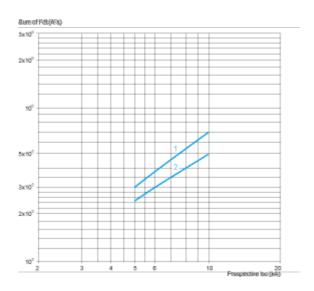
For GV7RS only



- 1 GV7RS220
- 2 GV7RS150 and GV7RS100

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

**Thermal Limit** Sum of I<sup>2</sup>dt = f (prospective lsc) For GV7RS only

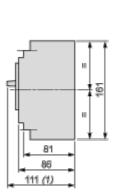


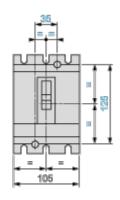
- 1 GV7RS220
- 2 GV7RS150 and GV7RS100

#### **Dimensions Drawings**

### GV7R

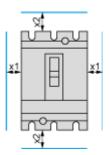
Dimensions





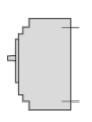
(1) 126 for GV7R<sub>•</sub>220.

#### **Minimum Electrical Clearance**



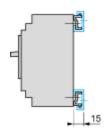
		x1	x2
Painted or insulated metal plate, insulation or insulated bar		0	30
	U ≤ 440 V	5	35
Bare metal plate	440 V < U < 600 V	10	35
	U ≥600 V	20	35

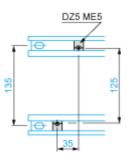
#### GV7R Panel Mounting



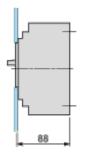


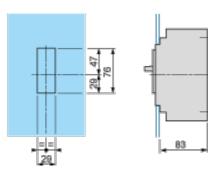
Mounting on 2 Mounting Rails DZ5 MB201



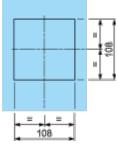


#### Flush-Mounting

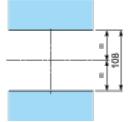




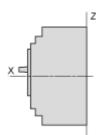
1 circuit breaker GV7R



n circuit breakers GV7R side by side

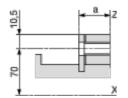


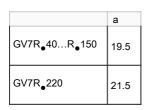
#### Connection



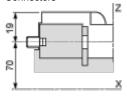
Smooth terminals

**GV7RS220** 





Connectors



Connections and Schema

