

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

GV7RE220

! 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 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	
[lcs] 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	

750 V AC 50/60 Hz conforming to IEC 60947-2	
220 A conforming to IEC 60947-4-1	
8 kV conforming to IEC 60947-2	
14.5 W	
14.5 W	
20000 cycles	
10000 cycles for AC-3 at 440 V In 20000 cycles for AC-3 at 440 V In/2	
25 cyc/h	
Continuous conforming to IEC 60947-4-1	
35 mm without spreaders 45 mm with spreaders	
Bars Cable with lug - external diameter: 10 mm Screw Bare cable connectors 1.5185 mm²	
10 N.m on screw M6 screw type 15 N.m on bare cable connectors for cable 1.5185 mm²	
Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations: 2.5 Gn, 025 Hz conforming to IEC 60068-2-6	
Yes conforming to IEC 60947-1	
Yes conforming to IEC 60947-4-1 § 7-2-1-5-2	
161 mm	
161 mm 105 mm	
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## **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 PCE

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 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 >



Transparency

Eu Rohs Directive Not applicable, out of EU RoHS legal scope

Environmental Disclosure Product Environmental Profile

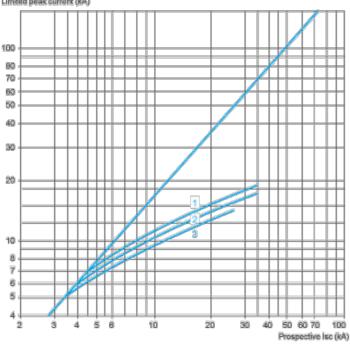
### Performance Curves

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

**Dynamic Stress** 

I peak = f (prospective Isc) For GV7RE only

Limited peak current (kA)

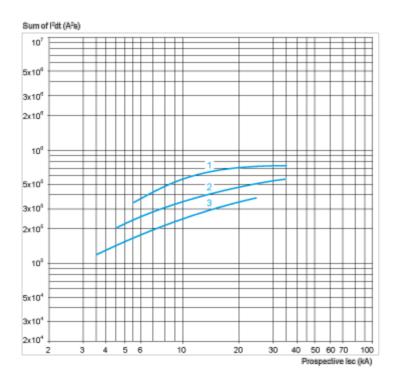


- GV7RE220
- 2 GV7RE150
- GV7RE100 3

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

**Thermal Limit** 

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



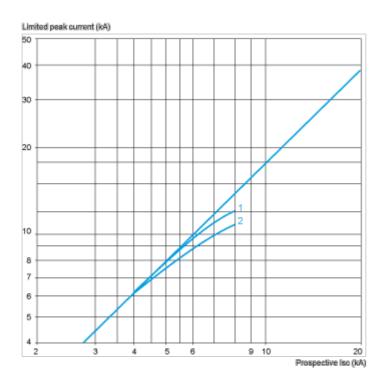
- 1 GV7RE220
- 2 GV7RE150
- 3 GV7RE100

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

**Dynamic Stress** 

I peak = f (prospective lsc)

For GV7RE only

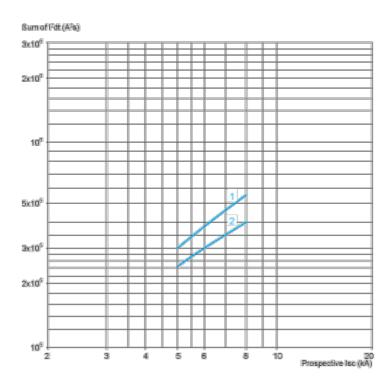


- 1 GV7RE220
- 2 GV7RE150 and GV7RE100

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

Thermal Limit

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

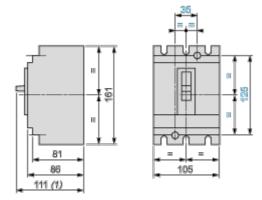


- 1 GV7RE220
- 2 GV7RE150 and GV7RE100

## **Dimensions Drawings**

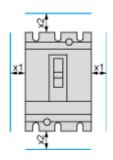
### **GV7R**

#### **Dimensions**



(1) 126 for  $\text{GV7R}_{\bullet}$ 220.

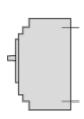
### **Minimum Electrical Clearance**



		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

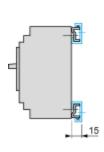
### **Panel Mounting**

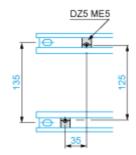




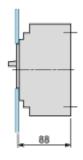
Mounting on 2 Mounting Rails DZ5 MB201

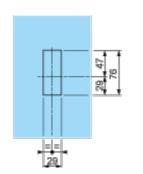
## **GV7RE220**

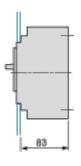




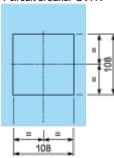
## Flush-Mounting



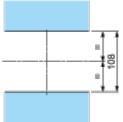




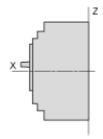
#### 1 circuit breaker GV7R



n circuit breakers GV7R side by side



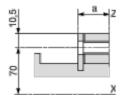
#### Connection



Smooth terminals

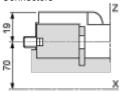
# **Product data sheet**

## **GV7RE220**



	а
GV7R <sub>•</sub> 40R <sub>•</sub> 150	19.5
GV7R <sub>•</sub> 220	21.5

### Connectors



## Connections and Schema

**Motor Circuit Breakers** 

