



ⓘ Discontinued

Main

Range	TeSys
Product name	TeSys GV7
Device short name	GV7R
Device application	Motor
Poles description	3P
Network type	AC
Network type	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
Utilisation category	AC-3 conforming to IEC 60947-4-1
Network frequency	50/60 Hz conforming to IEC 60947-4-1
Electrical symbol	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
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
Network type	45 kW at 400...415 V AC 50/60 Hz 75 kW at 660...690 V AC 50/60 Hz
[Ue] rated operational voltage	30000 cycles for AC-3 at 440 V In 50000 cycles for AC-3 at 440 V In/2
Network frequency	750 V AC 50/60 Hz conforming to IEC 60947-2
Control type	Rocker lever
[Ue] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2

Standards	100 A conforming to IEC 60947-4-1
Standards	IEC 60947-2
Power dissipation per pole	5 W
Maximum operating rate	25 cyc/h
Rated duty	Continuous conforming to IEC 60947-4-1
Condition of use	35 mm without spreaders 45 mm with spreaders
Connections - terminals	Bars Cable with lug - external diameter: 10 mm Screw Bare cable connectors 1.5...95 mm ²
Connections - terminals	10 N.m on screw M6 screw type 15 N.m on bare cable connectors for cable 1.5...95 mm ²
Mechanical robustness	Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations: 2.5 Gn, 0...25 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

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
Standards	960 °C conforming to IEC 60695-2-1
Product certifications	DNV UL
Protective treatment	TC
IP degree of protection	IP405 conforming to IEC 60529 (with terminal shrouds)
Pollution degree	3
Operating altitude	2000 m

Packing Units

Package 1 Weight	1.926 kg
Package 1 Height	11.300 cm
Package 1 width	14.000 cm
Package 1 Length	17.400 cm

Offer Sustainability

EU RoHS Directive	Not applicable, out of EU RoHS legal scope
Environmental Disclosure	Product Environmental Profile

Contractual warranty

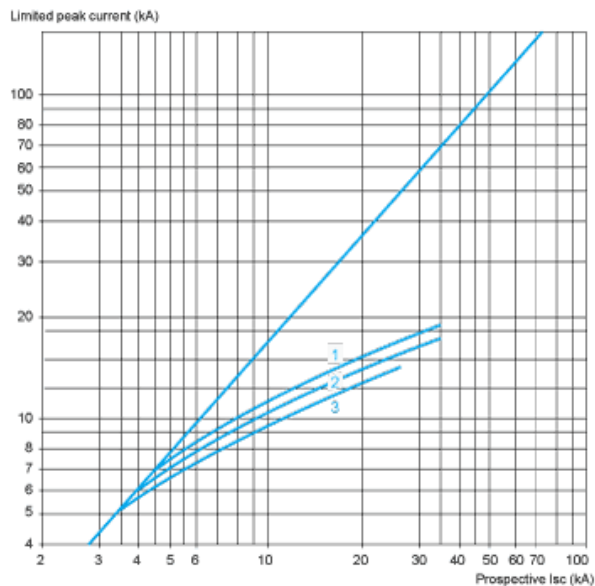
Warranty	18 months
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Current Limitation on Short-Circuit (3-Phase 400/415 V)

Dynamic Stress

$I_{peak} = f(\text{prospective } I_{sc})$

For GV7RE only



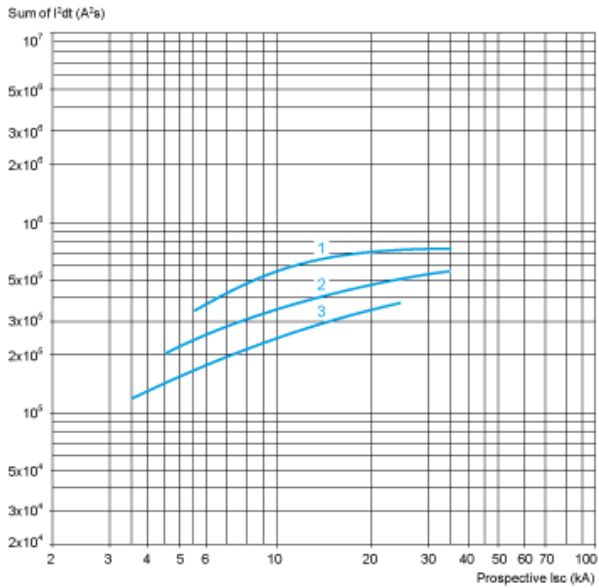
- 1 GV7RE220
- 2 GV7RE150
- 3 GV7RE100

Thermal Limit (3-Phase 400/415 V)

Thermal Limit

$\text{Sum of } I^2 dt = f(\text{prospective } I_{sc})$

For GV7RE only



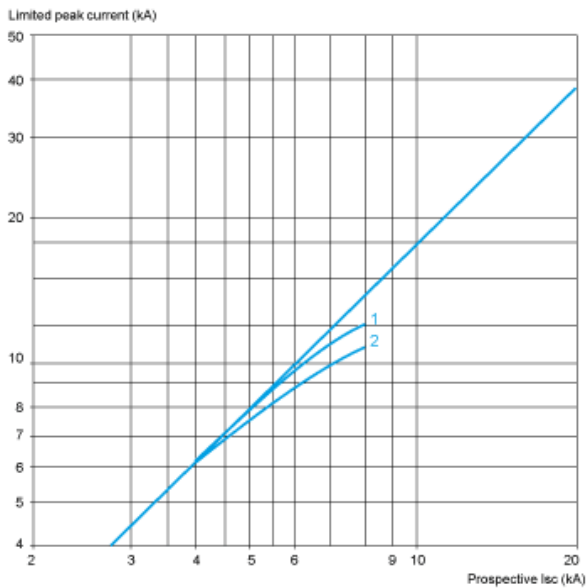
- 1 GV7RE220
- 2 GV7RE150
- 3 GV7RE100

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

Dynamic Stress

$$I_{\text{peak}} = f(\text{prospective Isc})$$

For GV7RE only



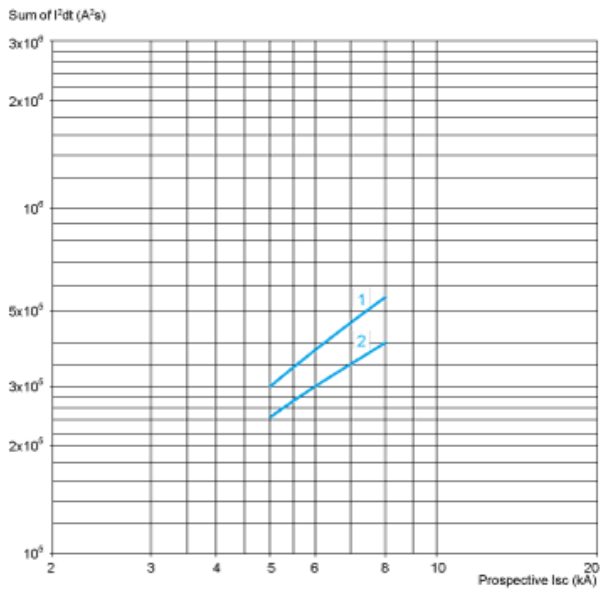
- 1 GV7RE220
- 2 GV7RE150 and GV7RE100

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

Thermal Limit

$$\text{Sum of } I^2dt = f(\text{prospective Isc})$$

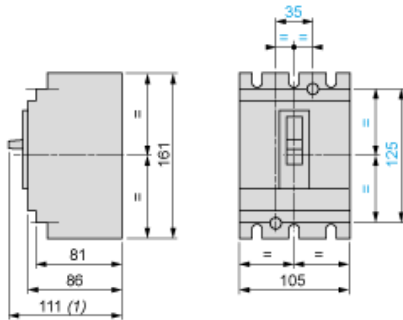
For GV7RE only



- 1 GV7RE220
- 2 GV7RE150 and GV7RE100

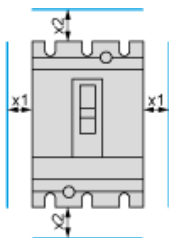
GV7R

Dimensions



(1) 126 for GV7R.220.

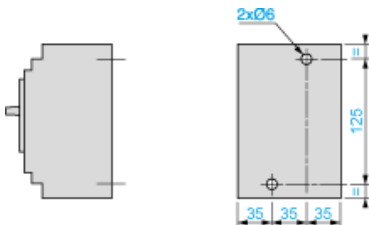
Minimum Electrical Clearance



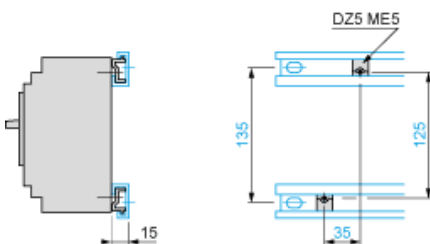
		x1	x2
Painted or insulated metal plate, insulation or insulated bar		0	30
Bare metal plate	$U \leq 440 \text{ V}$	5	35
	$440 \text{ V} < U < 600 \text{ V}$	10	35
	$U \geq 600 \text{ V}$	20	35

GV7R

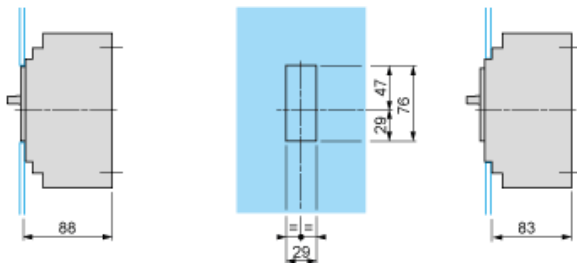
Panel Mounting



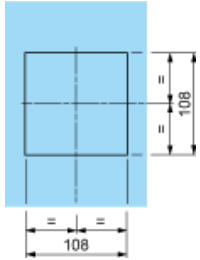
Mounting on 2 Mounting Rails DZ5 MB201



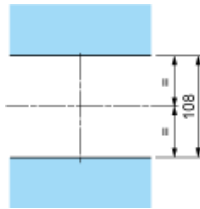
Flush-Mounting



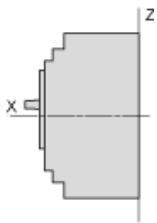
1 circuit breaker GV7R



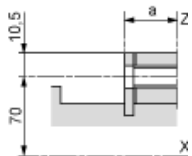
n circuit breakers GV7R side by side



Connection

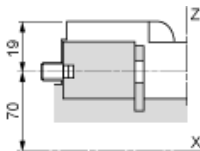


Smooth terminals



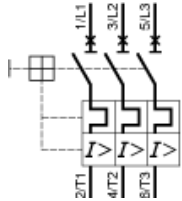
	a
GV7R.40...R.150	19.5
GV7R.220	21.5

Connectors



Motor Circuit Breakers

GV7 R



GV7RE100 is replaced by:



Thermal magnetic motor circuit breakers GV4PE115B

Motor circuit breaker, TeSys GV4, 3P, 115A, Icu 25kA, thermal magnetic, Everlink terminals

Qty 1

Reason for Substitution: End of life | Substitution date: 11 August 2020 | Global group 1