Product data sheet

Specifications



Discontinued

TeSys GV7 Manual Starter and Protector, thermal magnetic circuit protector, rocker lever, 3 P, AC-3, 60...100 A

GV7RE100

Discontinued on: Jan 23, 2021

Product availability: Non-Stock - Not normally stocked in distribution facility

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 IEC 60947-4-1
Network frequency	50/60 Hz IEC 60947-4-1
Breaking capacity	35 kA Icu 440 V AC 50/60 Hz IEC 60947-2 85 kA Icu 220/240 V AC 50/60 Hz IEC 60947-2 36 kA Icu 380/415 V AC 50/60 Hz IEC 60947-2 25 kA Icu 500 V AC 50/60 Hz IEC 60947-2 8 kA Icu 660/690 V AC 50/60 Hz IEC 60947-2
[Ics] rated service short-circuit breaking capacity	100 % 440 V AC 50/60 Hz IEC 60947-2 100 % 220/240 V AC 50/60 Hz IEC 60947-2 100 % 380/415 V AC 50/60 Hz IEC 60947-2 50 % 500 V AC 50/60 Hz IEC 60947-2 50 % 660/690 V AC 50/60 Hz IEC 60947-2
thermal protection adjustment range	60…100 A
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
Motor power kW	45 kW 400...415 V AC 50/60 Hz 75 kW 660...690 V AC 50/60 Hz
Control Type	Rocker lever
[Ue] rated operational voltage	690 V AC 50/60 Hz IEC 60947-2
[Ui] rated insulation voltage	750 V AC 50/60 Hz IEC 60947-2

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[Ith] conventional free air thermal current	100 A IEC 60947-4-1
[Uimp] rated impulse withstand voltage	8 kV IEC 60947-2
power dissipation per pole	5 W
Power dissipation per pole	5 W
Mechanical durability	50000 cycles
Electrical durability	30000 cycles AC-3 440 V In 50000 cycles AC-3 440 V In/2
maximum operating rate	25 cyc/h
Rated duty	Continuous IEC 60947-4-1
Connection pitch	1.4 in (35 mm) without spreaders 1.8 in (45 mm) with spreaders
Connections - terminals	Bars Cable with lug - external diameter: 0.4 in (10 mm) Screw Bare cable connectors 0.002…0.1 in² (1.5…95 mm²)
Tightening torque	88.5 lbf.in (10 N.m) screw M6 132.8 lbf.in (15 N.m) bare cable connectors 0.002…0.1 in² (1.5…95 mm²)
Mechanical robustness	Shocks 15 Gn for 11 ms IEC 60068-2-27 Vibrations 2.5 Gn, 0...25 Hz IEC 60068-2-6
Suitability for isolation	Yes IEC 60947-1
Phase failure sensitivity	Yes IEC 60947-4-1 § 7-2-1-5-2
Height	6.3 in (161 mm)
Width	4.1 in (105 mm)
Depth	4.4 in (111 mm)
Net Weight	4.50 lb(US) (2.04 kg)

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
Product Certifications	DNV UL
Protective treatment	TC
IP degree of protection	IP405 IEC 60529 with terminal shrouds)
Pollution degree	3
Ambient air temperature for operation	-13…158 °F (-25…70 °C)
Ambient Air Temperature for Storage	-67…203 °F (-55…95 °C)
Fire resistance	1760 °F (960 °C) IEC 60695-2-1
Operating altitude	6561.68 ft (2000 m)

Ordering and shipping details

Category	US10I1122366
Discount Schedule	0I11

GTIN	3389110566840
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	4.5 in (11.5 cm)
Package 1 Width	5.5 in (14 cm)
Package 1 Length	6.9 in (17.5 cm)
Package weight(Lbs)	4.251 lb(US) (1.928 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Better

Materials and Substances

EU RoHS Directive	**Not applicable, out of EU RoHS legal scope**

Use Again

Repack and remanufacture

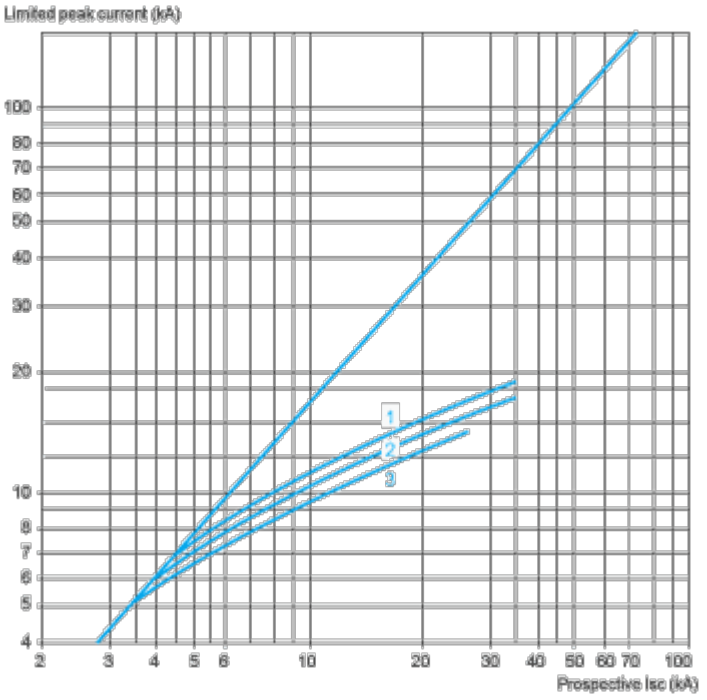
WEEE Label	 **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**

Performance Curves

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

Dynamic Stress

I peak = f (prospective Isc)
For GV7RE only



1 GV7RE220

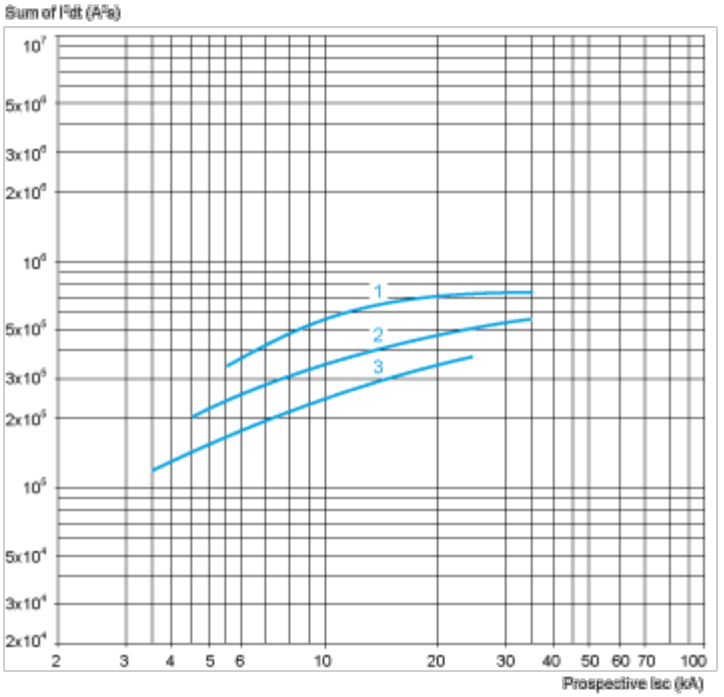
2 GV7RE150

3 GV7RE100

Thermal Limit (3-Phase 400/415 V)

Thermal Limit

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



1 GV7RE220

2 GV7RE150

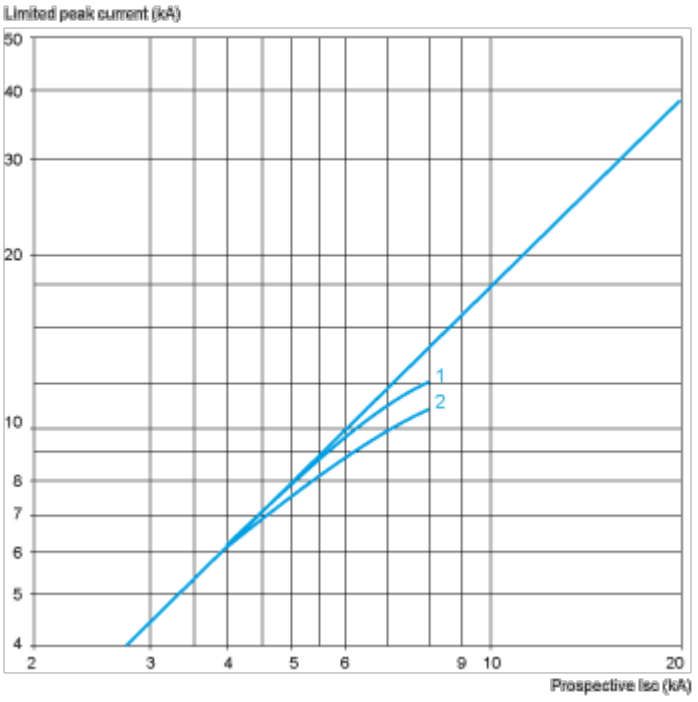
3 GV7RE100

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

Dynamic Stress

I peak = f (prospective Isc)

For GV7RE only



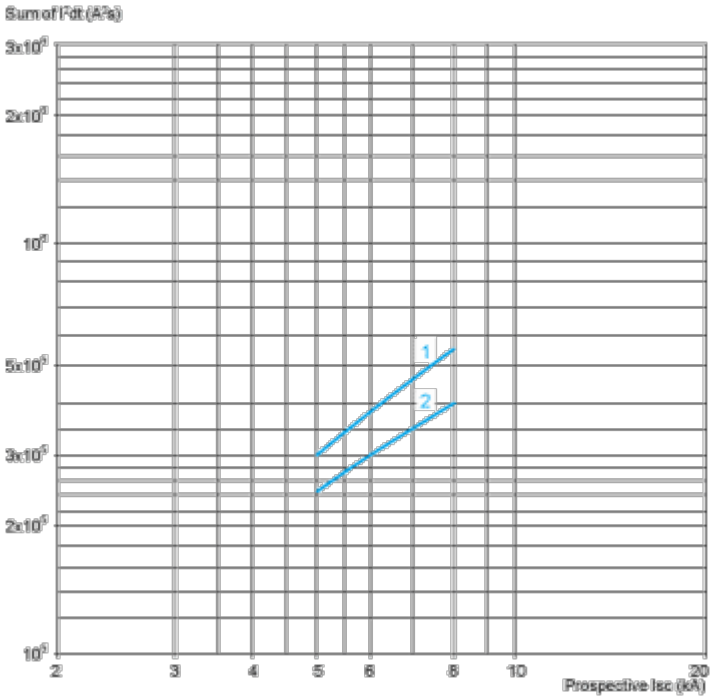
1 GV7RE220

2 GV7RE150 and GV7RE100

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

Thermal Limit

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



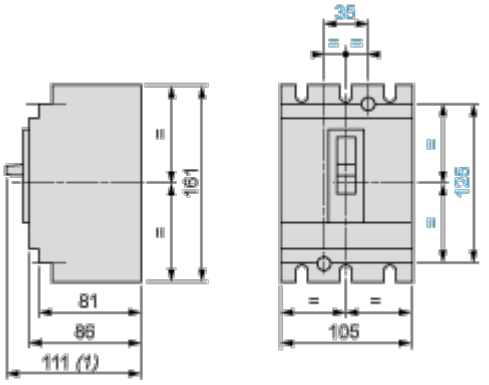
1 GV7RE220

2 GV7RE150 and GV7RE100

Dimensions Drawings

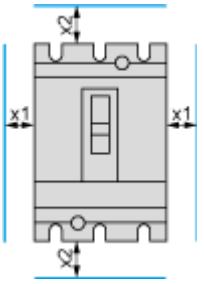
GV7R

Dimensions



(1) 126 for GV7R•220.

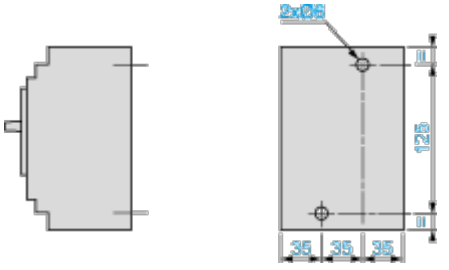
Minimum Electrical Clearance



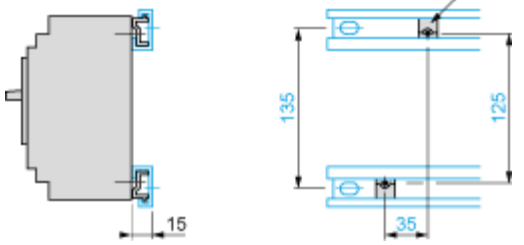
		x1	x2
Painted or insulated metal plate, insulation or insulated bar		0	30
Bare metal plate	U ≤ 440 V	5	35
	440 V < U < 600 V	10	35
	U ≥600 V	20	35

GV7R

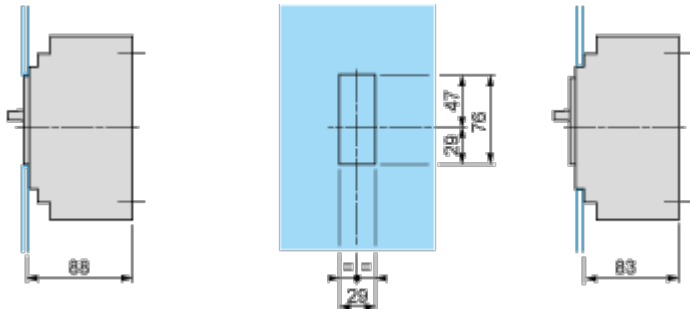
Panel Mounting



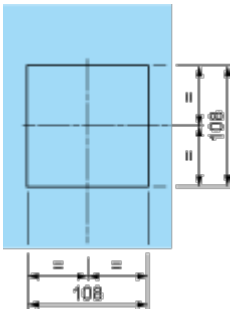
Mounting on 2 Mounting Rails DZ5 MB201



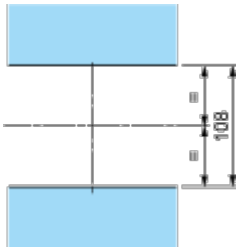
Flush-Mounting



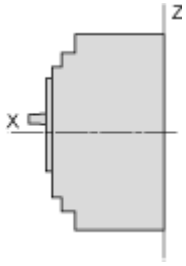
1 circuit breaker GV7R



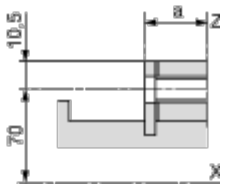
n circuit breakers GV7R side by side



Connection

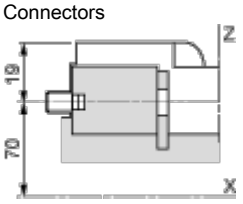


Smooth terminals



	a
GV7R●40…R●150	19.5
GV7R●220	21.5

Connectors



Connections and Schema

Motor Circuit Breakers
GV7 R

