Product data sheet
Characteristics

GV7RS220
TeSys GV7 Manual Starter and Protector, thermal magnetic circuit protector, rocker lever, 3 P, AC-3, 132...220 A, high interrupt

Product availability: Stock - Normally stocked in distribution facility



Main

Range	TeSys
Product name	TeSys GV7
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 10 kA Icu at 660/690 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 70 kA Icu at 380/415 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
[Ics] rated service short-circuit breaking capacity	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 60947-2 100 % 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
Thermal protection adjustment range	132...220 A
Trip unit technology	Thermal-magnetic

Complementary

Mounting mode	By clips By screws
Mounting support	Flush Panel mounting Rail Kit for fixing the switchgear
Mounting position	Vertical
Motor power kW	110 kW at 400...415 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 660...690 V AC 50/60 Hz 200 kW at 660...690 V AC 50/60 Hz 90 kW at 400...415 V AC 50/60 Hz
Control type	Rocker lever
System Voltage	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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Mechanical durability	20000 cycles
Electrical durability	10000 cycles AC-3 at 440 V In 20000 cycles AC-3 at 440 V In/2
Operating rate	25 cyc/h
Rated duty	Continuous conforming to IEC 60947-4-1
Connection pitch	1.38 in (35 mm) without spreaders 1.77 in (45 mm) with spreaders
Connections - terminals	Bars Cable with lug - external diameter : 10 mm Bare cable connectors 1.5...185 mm² Screw
Tightening torque	10 N.m - on screw - screw M6 15 N.m - on bare cable connectors- cable 1.5...185 mm²
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
Height	4.92 in (125 mm)
Width	4.13 in (105 mm)
Depth	4.37 in (111 mm)
Product weight	5.18 lb(US) (2.35 kg)

Environment

Standards	EN/IEC 60947-1 EN/IEC 60947-2 EN/IEC 60947-4-1 NF C 63-120 NF C 63-650 NF C 79-130 VDE 0113 VDE 0660
Product certifications	DNV UL
Protective treatment	TC
IP degree of protection	IP405 with terminal shrouds conforming to IEC 60529
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) conforming to IEC 60695-2-1
Operating altitude	6561.68 ft (2000 m)

Ordering and shipping details

Category	22366 - MAN STR PROTECTORS-GV1/GV3
Discount Schedule	I11
GTIN	00785901504832
Nbr. of units in pkg.	1
Package weight(Lbs)	4.5899999999999999
Returnability	Y
Country of origin	CN

Offer Sustainability

RoHS (date code: YYWW)	Will not be compliant
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
California proposition 65	WARNING: This product can expose you to chemicals including:
- - - - - - - Substance 1	Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer.
- - - - - - - More information	For more information go to www.p65warnings.ca.gov

Contractual warranty

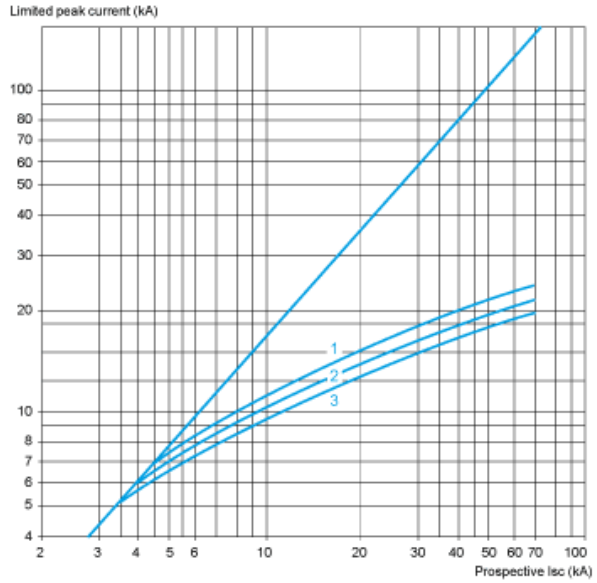
Warranty period	18 months

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

Dynamic Stress

I peak = f (prospective Isc)

For GV7RS only



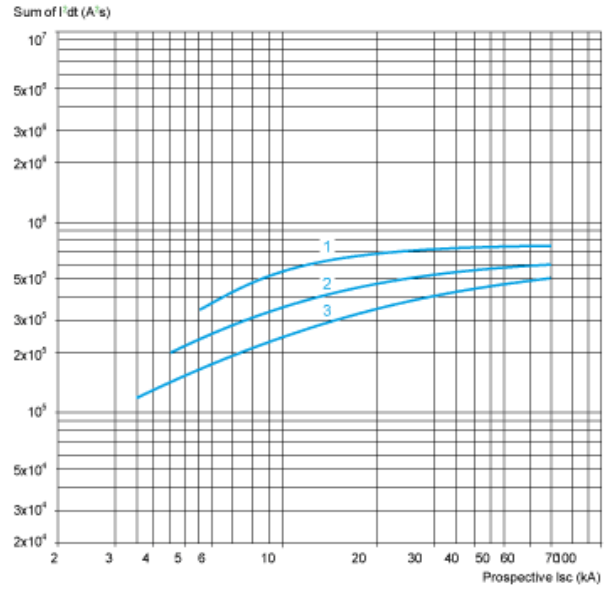
1 GV7RS220
2 GV7RS150
3 GV7RS100

Thermal Limit (3-Phase 400/415 V)

Thermal Limit

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

For GV7RS only



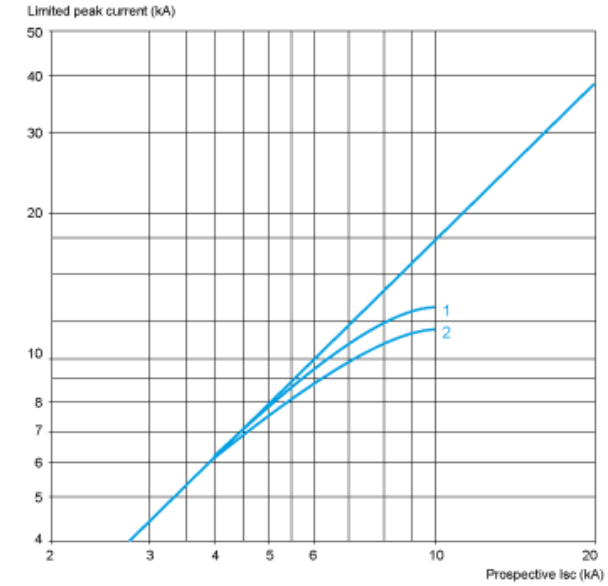
1 GV7RS220
2 GV7RS150
3 GV7RS100

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

Dynamic Stress

I peak = f (prospective Isc)

For GV7RS only



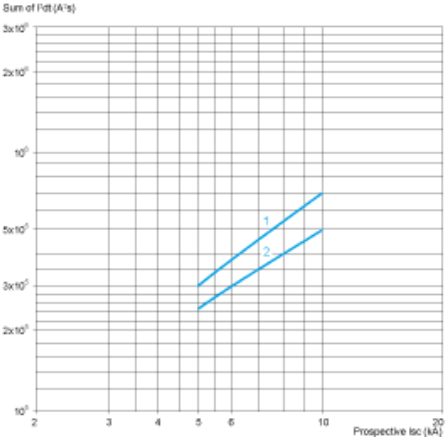
1 GV7RS220
2 GV7RS150 and GV7RS100

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

Thermal Limit

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

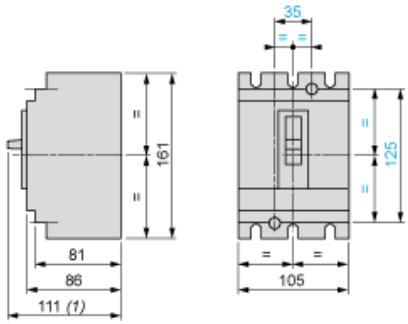
For GV7RS only



1 GV7RS220
2 GV7RS150 and GV7RS100

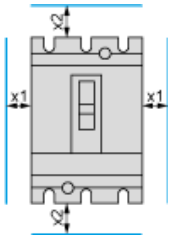
GV7R

Dimensions



(1) 126 for GV7R•220.

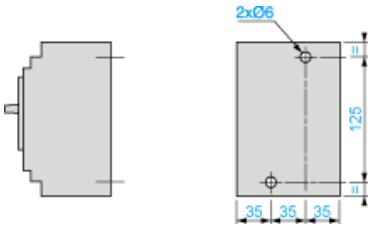
Minimum Electrical Clearance



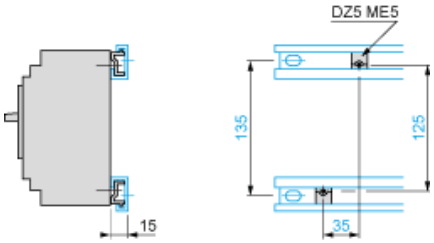
		x1	x2
Painted or insulated metal plate, insulation or insulated bar		0	30
Bare metal plate	U ≤ 440 V	5	35
440 V < U < 600 V	10	35	
U ≥600 V	20	35	

GV7R

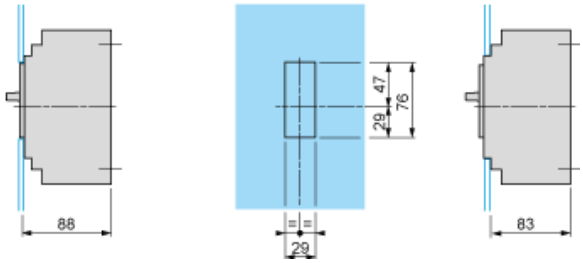
Panel Mounting



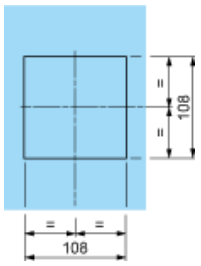
Mounting on 2 Mounting Rails DZ5 MB201



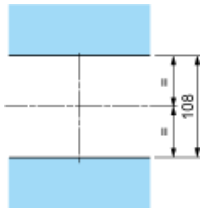
Flush-Mounting



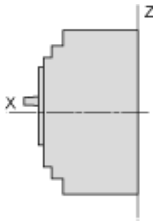
1 circuit breaker GV7R



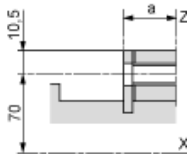
n circuit breakers GV7R side by side



Connection

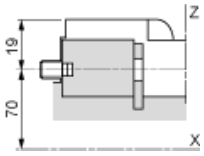


Smooth terminals



	a
GV7R•40…R•150	19.5
GV7R•220	21.5

Connectors



GV7RS220

Motor Circuit Breakers
GV7 R

