

# GV7RS100

TeSys GV7 Manual Starter and Protector,  
thermal magnetic circuit protector, rocker lever,  
3 P, AC-3, 60...100 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<br>10 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>65 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>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<br>100 % at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>100 % at 500 V AC 50/60 Hz conforming to IEC 60947-2                      |
| Thermal protection adjustment range                 | 60...100 A  |
| Trip unit technology                                | Thermal-magnetic  |

## Complementary

|   |  |
|---|--|
| Mounting mode                               | By clips<br>By screws  |
| Mounting support                            | Flush<br>Panel mounting<br>Rail<br>Kit for fixing the switchgear     |
| Mounting position                           | Vertical   |
| Motor power kW                              | 45 kW at 400...415 V AC 50/60 Hz<br>75 kW at 660...690 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 | 100 A conforming to IEC 60947-4-1                                    |
| [Uimp] rated impulse withstand voltage      | 8 kV conforming to 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 at 440 V In<br>50000 cycles AC-3 at 440 V In/2     |
| Operating rate                              | 25 cyc/h   |

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. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                           |   |
|---------------------------|---|
| Rated duty                | Continuous conforming to IEC 60947-4-1  |
| Connection pitch          | 1.38 in (35 mm) without spreaders<br>1.77 in (45 mm) with spreaders   |
| Connections - terminals   | Bars<br>Cable with lug - external diameter : 10 mm<br>Bare cable connectors 1.5...95 mm <sup>2</sup><br>Screw   |
| Tightening torque         | 10 N.m - on screw - screw M6<br>15 N.m - on bare cable connectors- cable 1.5...95 mm <sup>2</sup>               |
| Mechanical robustness     | Shocks 15 Gn for 11 ms conforming to IEC 60068-2-27<br>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            | 4.5 lb(US) (2.04 kg)  |

## Environment

|                                       |   |
|---------------------------------------|---|
| Standards                             | EN/IEC 60947-1<br>EN/IEC 60947-2<br>EN/IEC 60947-4-1<br>NF C 63-120<br>NF C 63-650<br>NF C 79-130<br>VDE 0113<br>VDE 0660 |
| Product certifications                | DNV<br>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                  | 00785901294283                     |
| Nbr. of units in pkg. | 1                                  |
| Package weight(Lbs)   | 4.2700000000000005                 |
| 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 <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>  |

## Contractual warranty

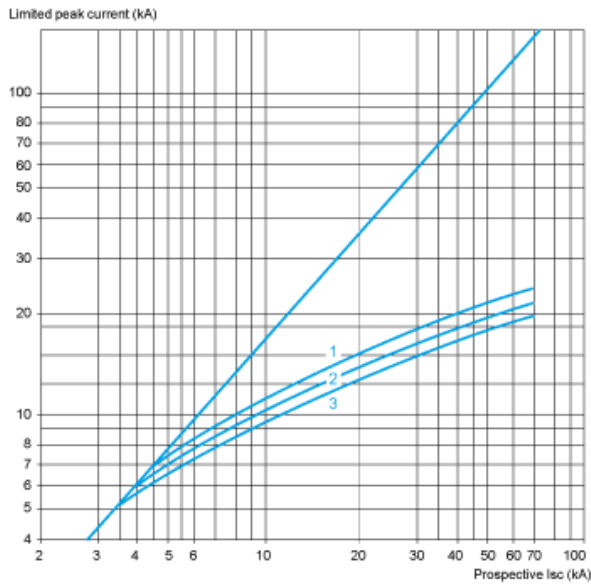
|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

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

Dynamic Stress

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

For GV7RS only



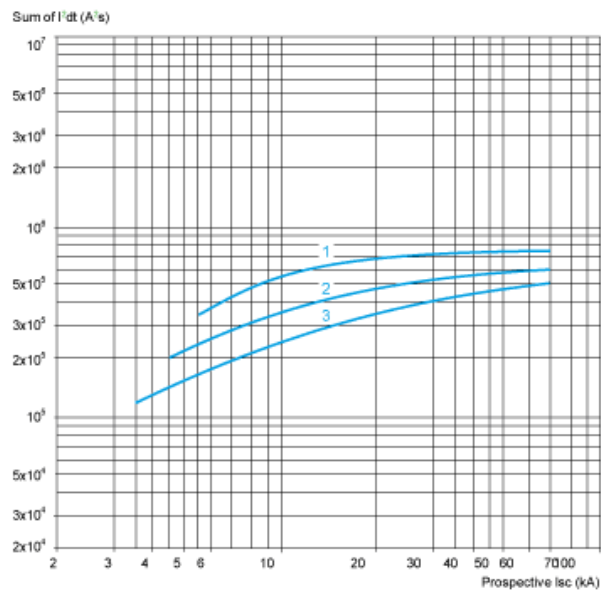
- 1 GV7RS220
- 2 GV7RS150
- 3 GV7RS100

Thermal Limit (3-Phase 400/415 V)

Thermal Limit

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

For GV7RS only



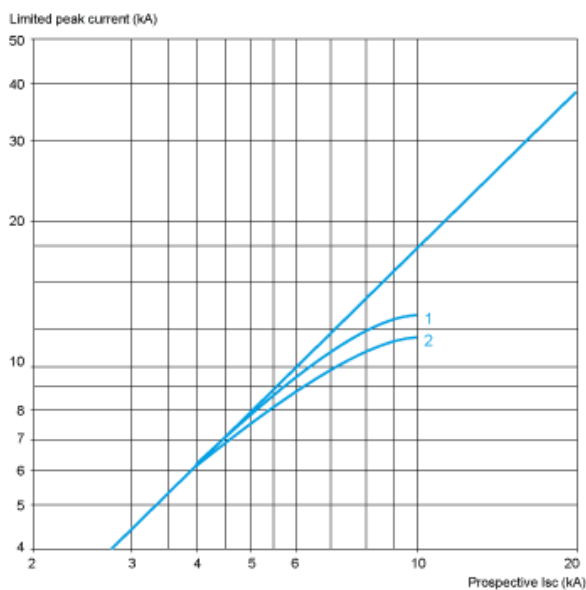
- 1 GV7RS220
- 2 GV7RS150
- 3 GV7RS100

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

Dynamic Stress

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

For GV7RS only



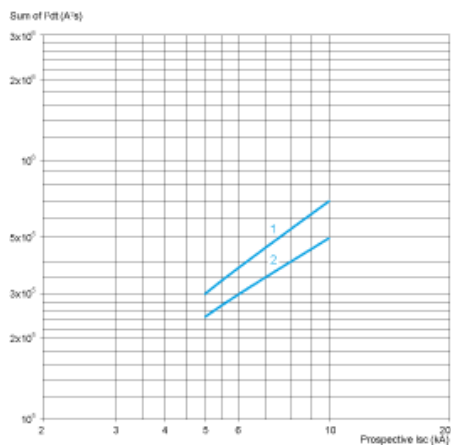
- 1 GV7RS220
- 2 GV7RS150 and GV7RS100

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

Thermal Limit

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

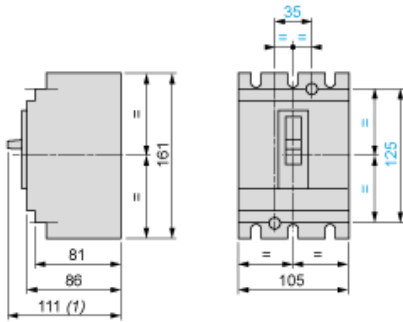
For GV7RS only



- 1 GV7RS220
- 2 GV7RS150 and GV7RS100

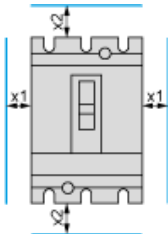
GV7R

Dimensions



(1) 126 for GV7R.220.

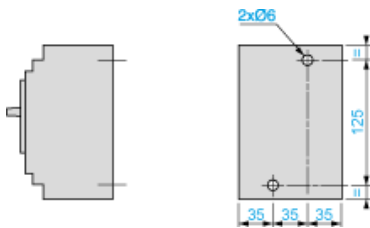
Minimum Electrical Clearance



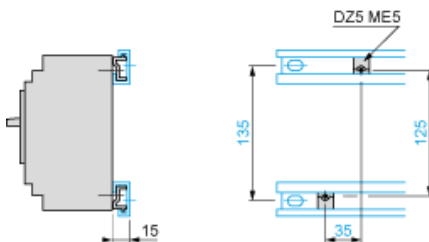
|   |                        | x1 | x2 |
|---|------------------------|----|----|
| Painted or insulated metal plate, insulation or insulated bar |                        | 0  | 30 |
| Bare metal plate  | $U \leq 440 \text{ V}$ | 5  | 35 |
| $440 \text{ V} < U < 600 \text{ V}$                       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

GV7R

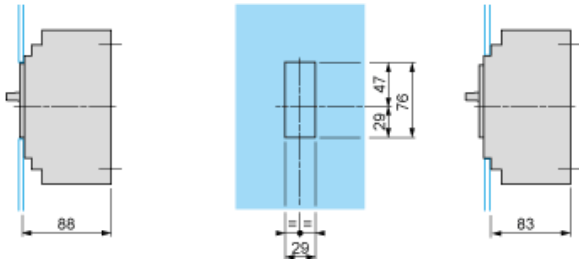
Panel Mounting



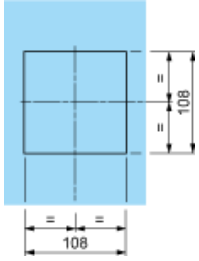
Mounting on 2 Mounting Rails DZ5 MB201



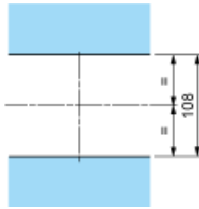
Flush-Mounting



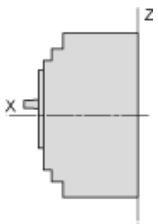
1 circuit breaker GV7R



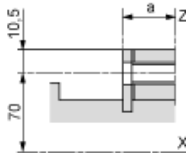
n circuit breakers GV7R side by side



### Connection

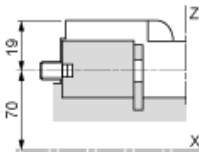


Smooth terminals



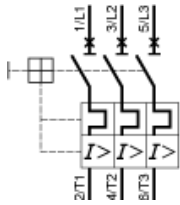
|                 | a    |
|-----------------|------|
| GV7R.40...R.150 | 19.5 |
| GV7R.220        | 21.5 |

Connectors



Motor Circuit Breakers

GV7 R



# Mouser Electronics

Authorized Distributor

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