

# Product datasheet

Specifications



## TeSys GV7 - circuit breaker - 3P - AC-3 - 48...80 A - thermal-magnetic

GV7RE80

 **Discontinued on:** 23 Jan 2021

**Price: 12,586.97 ZAR**

 **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<br>85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>36 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>25 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>8 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] Rated Service Short-Circuit Breaking Capacity | 100 % at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>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>50 % at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>50 % at 660/690 V AC 50/60 Hz conforming to IEC 60947-2                      |
| Thermal Protection Adjustment Range                 | 48...80 A                                                                                                                                                                                                                                                                                                           |
| Trip Unit Technology                                | Thermal-magnetic                                                                                                                                                                                                                                                                                                    |

### Complementary

|                                |                                                                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Mounting Mode                  | By screws<br>By clips                                                                                                            |
| Mounting Support               | Kit for fixing the switchgear<br>Rail<br>Panel mounting<br>Flush                                                                 |
| Mounting Position              | Vertical                                                                                                                         |
| Motor Power Kw                 | 37 kW at 400...415 V AC 50/60 Hz<br>45 kW at 500 V AC 50/60 Hz<br>55 kW at 500 V AC 50/60 Hz<br>55 kW at 660...690 V AC 50/60 Hz |
| Control Type                   | Rocker lever                                                                                                                     |
| [Ue] Rated Operational Voltage | 690 V AC 50/60 Hz conforming to IEC 60947-2                                                                                      |
| [Ui] Rated Insulation Voltage  | 750 V AC 50/60 Hz conforming to IEC 60947-2                                                                                      |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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 | 80 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 for AC-3 at 440 V In<br>50000 cycles for AC-3 at 440 V In/2                                          |
| Maximum Operating Rate                      | 25 cyc/h                                                                                                          |
| Rated Duty                                  | Continuous conforming to IEC 60947-4-1                                                                            |
| Connection Pitch                            | 35 mm without spreaders<br>45 mm with spreaders                                                                   |
| Connections - Terminals                     | Bars<br>Cable with lug - external diameter: 10 mm<br>Screw<br>Bare cable connectors 1.5...95 mm²                  |
| Tightening Torque                           | 10 N.m on screw M6 screw type<br>15 N.m on bare cable connectors for cable 1.5...95 mm²                           |
| 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                                      | 161 mm                                                                                                            |
| Width                                       | 105 mm                                                                                                            |
| Depth                                       | 111 mm                                                                                                            |
| Net Weight                                  | 2.04 kg                                                                                                           |

## Environment

|                                       |                                                                                                                           |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Standards                             | VDE 0660<br>NF C 63-650<br>EN/IEC 60947-4-1<br>NF C 63-120<br>NF C 79-130<br>VDE 0113<br>EN/IEC 60947-2<br>EN/IEC 60947-1 |
| Product Certifications                | DNV<br>UL                                                                                                                 |
| Protective Treatment                  | TC                                                                                                                        |
| Ip Degree Of Protection               | IP405 conforming to IEC 60529 (with terminal shrouds)                                                                     |
| Pollution Degree                      | 3                                                                                                                         |
| Ambient Air Temperature For Operation | -25...70 °C                                                                                                               |
| Ambient Air Temperature For Storage   | -55...95 °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 | 11.5 cm  |
| Package 1 Width  | 14 cm    |
| Package 1 Length | 17.5 cm  |
| Package 1 Weight | 1.934 kg |

## Contractual warranty

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

# Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class 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 >](#)

## Eu Rohs Directive

Pro-active compliance (Product out of EU RoHS legal scope)

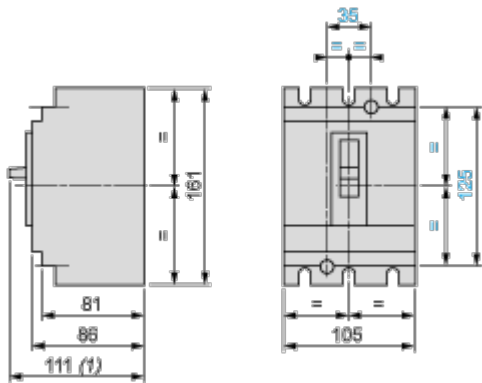
[EU RoHS Declaration](#)

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Dimensions Drawings

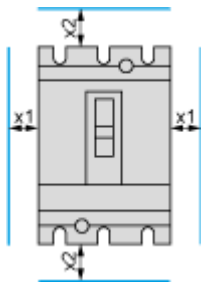
GV7R

Dimensions



(1) 126 for GV7R\_220.

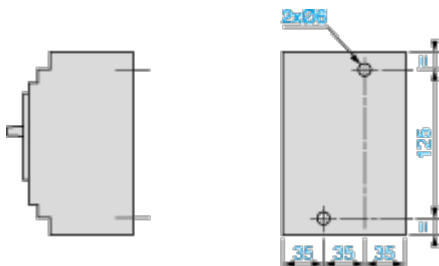
Minimum Electrical Clearance



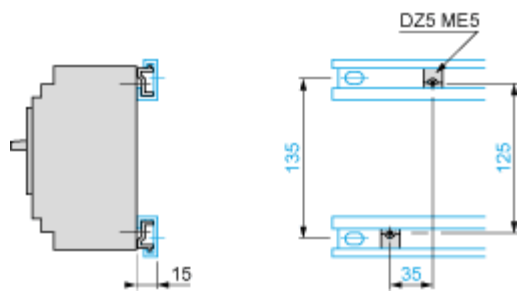
|                                                               |                                   | x1 | x2 |
|---------------------------------------------------------------|-----------------------------------|----|----|
| Painted or insulated metal plate, insulation or insulated bar |           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

GV7R

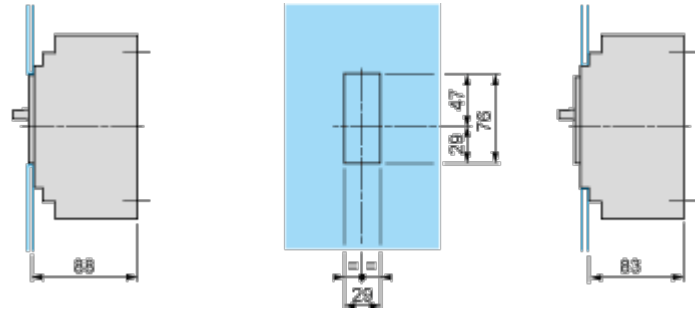
Panel Mounting



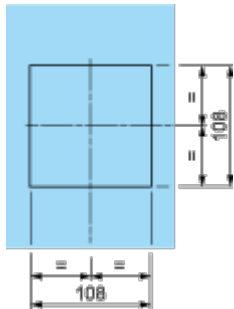
Mounting on 2 Mounting Rails DZ5 MB201



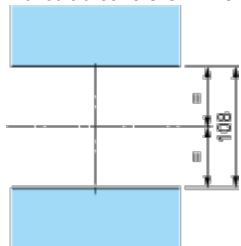
Flush-Mounting



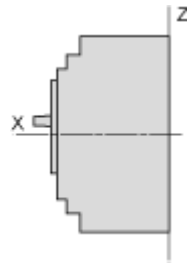
1 circuit breaker GV7R



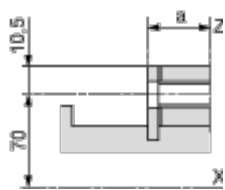
n circuit breakers GV7R side by side



Connection

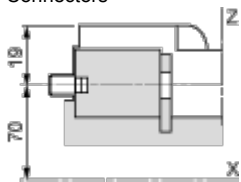


Smooth terminals



|                                           | a    |
|-------------------------------------------|------|
| GV7R <sub>•</sub> 40...R <sub>•</sub> 150 | 19.5 |
| GV7R <sub>•</sub> 220                     | 21.5 |

Connectors



Connections and Schema

Motor Circuit Breakers  
GV7 R

