

Product data sheet

Specifications



TeSys GV7 - circuit breaker - 3P - AC-3 - 30...50 A - thermal-magnetic

GV7RE50

⚠ Discontinued on: Jan 18, 2021

⚠ 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 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	30...50 A
Trip Unit Technology	Thermal-magnetic

Complementary

Mounting Mode	By clips By screws
Mounting Support	Rail Kit for fixing the switchgear Flush Panel mounting
Mounting Position	Vertical
Motor Power Kw	22 kW 400...415 V AC 50/60 Hz 30 kW 500 V AC 50/60 Hz 30 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
[Ith] Conventional Free Air Thermal Current	50 A IEC 60947-4-1

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

[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	1.38 in (35 mm) without spreaders 1.77 in (45 mm) with spreaders
Connections - Terminals	Bars Cable with lug - external diameter: 0.39 in (10 mm) Screw Bare cable connectors 0.00...0.15 in² (1.5...95 mm²)
Tightening Torque	88.51 lbf.in (10 N.m) screw M6 132.76 lbf.in (15 N.m) bare cable connectors 0.00...0.15 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	6.34 in (161 mm)
Width	4.13 in (105 mm)
Depth	4.37 in (111 mm)
Net Weight	4.44 lb(US) (2.015 kg)

Environment

Standards	EN/IEC 60947-2 NF C 79-130 EN/IEC 60947-1 EN/IEC 60947-4-1 NF C 63-650 VDE 0660 VDE 0113 NF C 63-120
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	2000 m

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.53 in (11.5 cm)

Package 1 Width	5.51 in (14 cm)
Package 1 Length	6.89 in (17.5 cm)
Package 1 Weight	4.24 lb(US) (1.924 kg)

Contractual warranty

Warranty	18 months
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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-CO₂ 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 >](#)



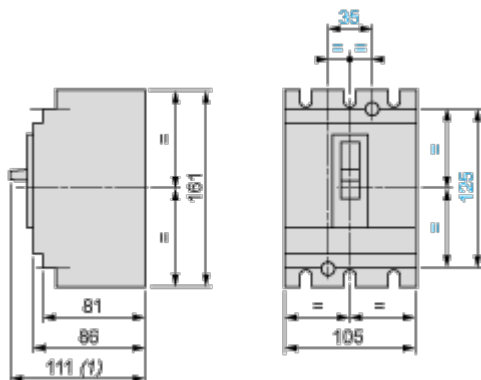
Transparency

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

Dimensions Drawings

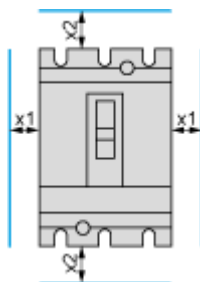
GV7R

Dimensions



(1) 126 for GV7R.220.

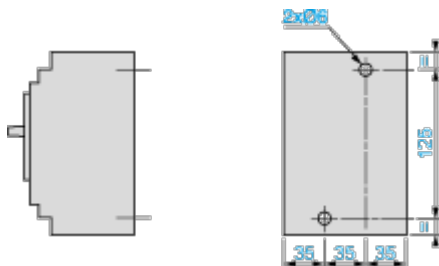
Minimum Electrical Clearance



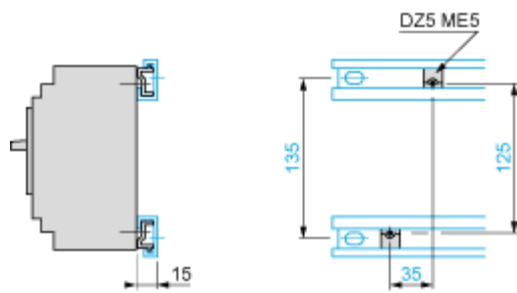
		x1	x2
Painted or insulated metal plate, insulation or insulated bar		0	30
Bare metal plate	$U \leq 440 \text{ V}$	5	35
	$440 \text{ V} < U < 600 \text{ V}$	10	35
	$U \geq 600 \text{ V}$	20	35

GV7R

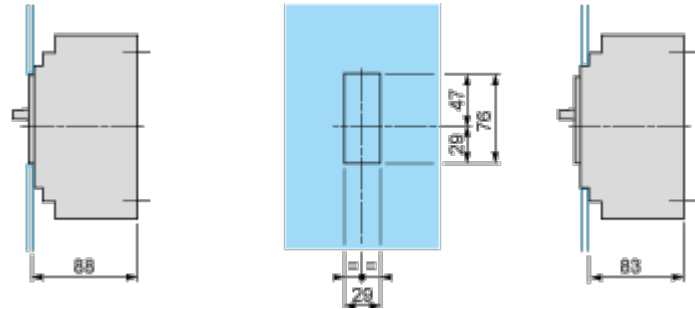
Panel Mounting



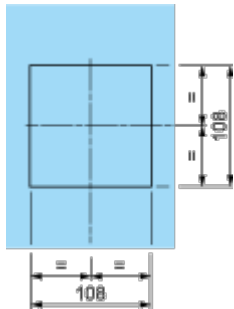
Mounting on 2 Mounting Rails DZ5 MB201



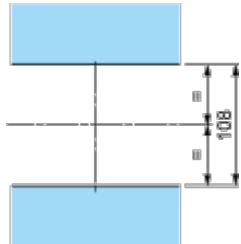
Flush-Mounting



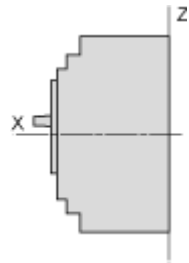
1 circuit breaker GV7R



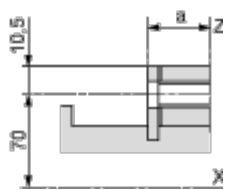
n circuit breakers GV7R side by side



Connection

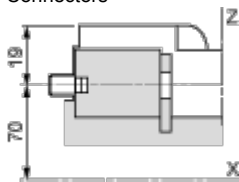


Smooth terminals



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

Connectors



Connections and Schema

Motor Circuit Breakers
GV7 R

