

# Product data sheet

Specifications



## TeSys GV7 Manual Starter and Protector, thermal magnetic circuit protector, rocker lever, 3 P, AC-3, 48...80 A, high interrupt

GV7RS80

❗ Discontinued on: 23 January 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	50 kA Icu 500 V AC 50/60 Hz IEC 60947-2 65 kA Icu 440 V AC 50/60 Hz IEC 60947-2 100 kA Icu 220/240 V AC 50/60 Hz IEC 60947-2 70 kA Icu 380/415 V AC 50/60 Hz IEC 60947-2 10 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 % 500 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 60947-2 100 % 660/690 V AC 50/60 Hz IEC 60947-2
Thermal protection adjustment range	48...80 A
Trip unit technology	Thermal-magnetic
<b>Complementary</b>	
Mounting Mode	By screws By clips
Mounting Support	Kit for fixing the switchgear Rail Flush Panel mounting
Mounting position	Vertical
Motor power kW	37 kW 400...415 V AC 50/60 Hz 45 kW 500 V AC 50/60 Hz 55 kW 500 V AC 50/60 Hz 55 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

<b>[Ui] rated insulation voltage</b>	750 V AC 50/60 Hz IEC 60947-2
<b>[Ith] conventional free air thermal current</b>	80 A IEC 60947-4-1
<b>[Uimp] rated impulse withstand voltage</b>	8 kV IEC 60947-2
<b>Power dissipation per pole</b>	5 W
<b>Power dissipation per pole</b>	5 W
<b>Mechanical durability</b>	50000 cycles
<b>Electrical durability</b>	30000 cycles AC-3 440 V In 50000 cycles AC-3 440 V In/2
<b>Maximum operating rate</b>	25 cyc/h
<b>Rated duty</b>	Continuous IEC 60947-4-1
<b>Connection pitch</b>	1.38 in (35 mm) without spreaders 1.77 in (45 mm) with spreaders
<b>Connections - terminals</b>	bars cable with lug 0.39 in (10 mm) screw bare cable connectors 0.00...0.15 in <sup>2</sup> (1.5...95 mm <sup>2</sup> )
<b>Tightening torque</b>	88.51 lbf.in (10 N.m) screw M6 132.76 lbf.in (15 N.m) bare cable connectors 0.00...0.15 in <sup>2</sup> (1.5...95 mm <sup>2</sup> )
<b>Mechanical robustness</b>	Shocks 15 Gn for 11 ms IEC 60068-2-27 Vibrations 2.5 Gn, 0...25 Hz IEC 60068-2-6
<b>Suitability for isolation</b>	Yes IEC 60947-1
<b>Phase failure sensitivity</b>	Yes IEC 60947-4-1 § 7-2-1-5-2
<b>Height</b>	6.34 in (161 mm)
<b>Width</b>	4.13 in (105 mm)
<b>Depth</b>	4.37 in (111 mm)
<b>Net Weight</b>	4.50 lb(US) (2.04 kg)

## Environment

<b>Standards</b>	EN/IEC 60947-1 EN/IEC 60947-4-1 EN/IEC 60947-2 NF C 79-130 NF C 63-120 VDE 0660 VDE 0113 NF C 63-650
<b>Product Certifications</b>	UL DNV
<b>Protective treatment</b>	TC
<b>IP degree of protection</b>	IP405 IEC 60529 with terminal shrouds)
<b>Pollution degree</b>	3
<b>Ambient air temperature for operation</b>	-13...158 °F (-25...70 °C)
<b>Ambient Air Temperature for Storage</b>	-67...203 °F (-55...95 °C)
<b>Fire resistance</b>	1760 °F (960 °C) IEC 60695-2-1
<b>Operating altitude</b>	6561.68 ft (2000 m)

## Ordering and shipping details

<b>Category</b>	22366-MAN STR PROTECTORS-GV1/GV3
<b>Discount Schedule</b>	I11

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<b>GTIN</b>	3389110566833
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<b>Returnability</b>	No
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<b>Country of origin</b>	CN
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## Packing Units

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<b>Unit Type of Package 1</b>	PCE
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<b>Number of Units in Package 1</b>	1
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<b>Package 1 Height</b>	4.53 in (11.5 cm)
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<b>Package 1 Width</b>	5.51 in (14 cm)
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<b>Package 1 Length</b>	6.77 in (17.2 cm)
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<b>Package 1 Weight</b>	4.26 lb(US) (1.932 kg)
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## Offer Sustainability

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<b>EU RoHS Directive</b>	Not applicable, out of EU RoHS legal scope
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<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
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## Contractual warranty

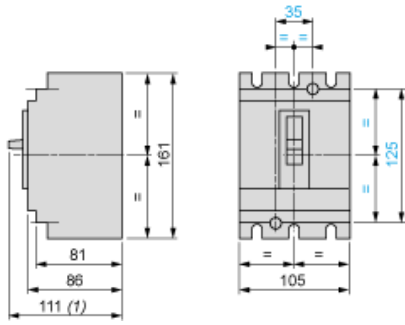
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<b>Warranty</b>	18 months
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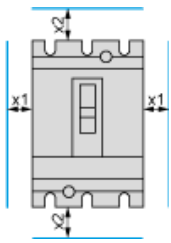
**GV7R**

Dimensions



(1) 126 for GV7R.220.

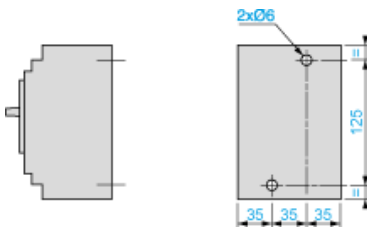
**Minimum Electrical Clearance**



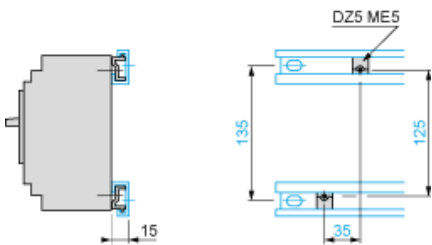
	x1	x2
Painted or insulated metal plate, insulation or insulated bar	0	30
Bare metal plate	$U \leq 440 \text{ V}$	5
	$440 \text{ V} < U < 600 \text{ V}$	10
	$U \geq 600 \text{ V}$	20

**GV7R**

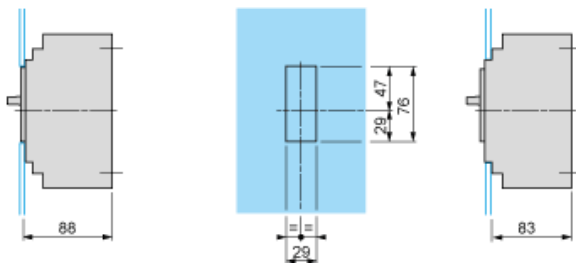
Panel Mounting



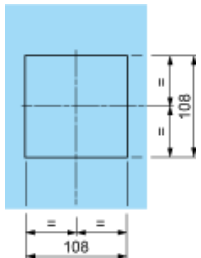
Mounting on 2 Mounting Rails DZ5 MB201



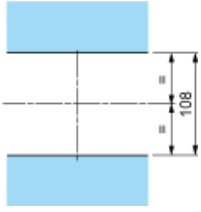
Flush-Mounting



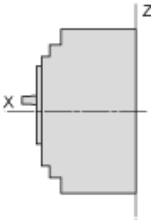
1 circuit breaker GV7R



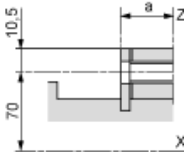
n circuit breakers GV7R side by side



**Connection**

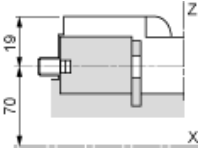


**Smooth terminals**



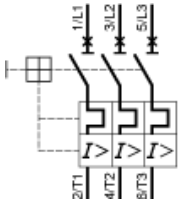
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GV7R.40...R.150	19.5
GV7R.220	21.5

**Connectors**



**Motor Circuit Breakers**

GV7 R



**Recommended replacement(s)**

GV7RS80 is replaced by:

1x



Motor circuit breaker, TeSys GV4, 3P, 80A, Icu 100kA, thermal magnetic, Everlink terminals  
GV4PE80S