Product data sheet
Characteristics

GV7RS80
TeSys GV7 - circuit breaker - 3P - AC-3 - 48...80 A - thermal-magnetic

Discontinued

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 65 kA Icu at 440 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 70 kA Icu at 380/415 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
[Ics] rated service short-circuit breaking capacity	100 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 % 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
Thermal protection adjustment range	48…80 A
Trip unit technology	Thermal-magnetic

Complementary

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 at 400...415 V AC 50/60 Hz 45 kW at 500 V AC 50/60 Hz 55 kW at 500 V AC 50/60 Hz 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

[Ith] conventional free air thermal current	80 A conforming to IEC 60947-4-1
[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 for AC-3 at 440 V In 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 45 mm with spreaders
Connections - terminals	Bars Cable with lug - external diameter: 10 mm Screw Bare cable connectors 1.5…95 mm²
Tightening torque	10 N.m on screw M6 screw type 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 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	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
Product certifications	UL DNV
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

Offer Sustainability

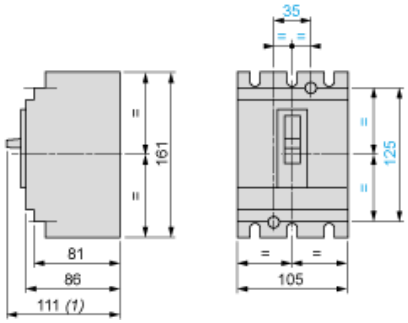
EU RoHS Directive	Not applicable, out of EU RoHS legal scope
Environmental Disclosure	Product Environmental Profile

Contractual warranty

Warranty	18 months

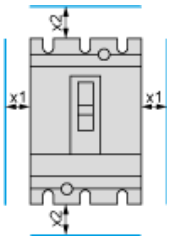
GV7R

Dimensions



(1) 126 for GV7R•220.

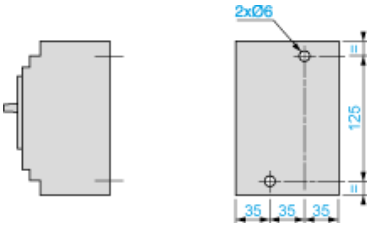
Minimum Electrical Clearance



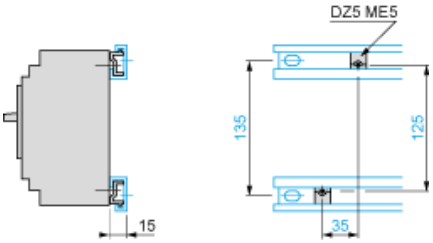
		x1	x2
Painted or insulated metal plate, insulation or insulated bar		0	30
Bare metal plate	U ≤ 440 V	5	35
	440 V < U < 600 V	10	35
	U ≥600 V	20	35

GV7R

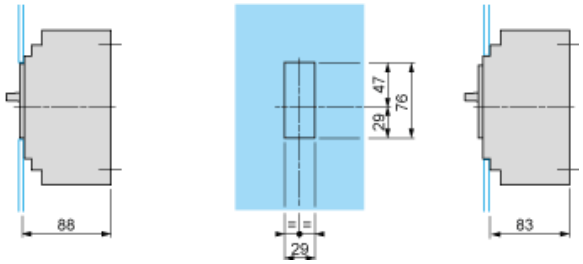
Panel Mounting



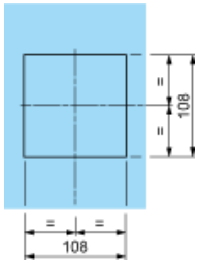
Mounting on 2 Mounting Rails DZ5 MB201



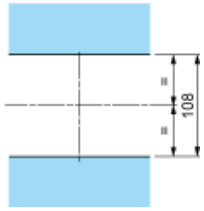
Flush-Mounting



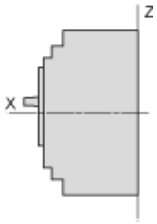
1 circuit breaker GV7R



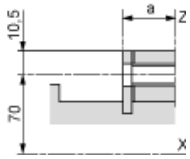
n circuit breakers GV7R side by side



Connection

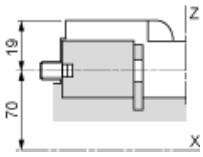


Smooth terminals

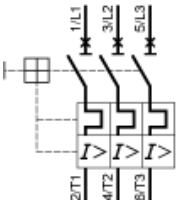


	a
GV7R•40…R•150	19.5
GV7R•220	21.5

Connectors



Motor Circuit Breakers
GV7 R



GV7RS80 is replaced by:

Thermal magnetic motor circuit breakers GV4PE80S

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

Qty 1

Reason for Substitution: End of life | Substitution date: 15 April 2019