

# GV3ME80

## TeSys GV3 - Circuit breaker - thermal-magnetic - 56...80 A - screw clamp terminals



### Main

Range	TeSys
Product name	TeSys GV3
Device short name	GV3ME
Product or component type	Circuit breaker
Device application	Motor
Poles description	3P
Network type	AC
Utilisation category	Category A conforming to IEC 60947-2 AC-3 conforming to IEC 60947-4-1
Network frequency	50/60 Hz conforming to IEC 60947-4-1
Breaking capacity	2 kA Icu at 690 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 4 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 15 kA Icu at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 100 kA Icu at 230/240 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service short-circuit breaking capacity	60 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 230/240 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 690 V AC 50/60 Hz conforming to IEC 60947-2
Thermal protection adjustment range	56...80 A
Trip unit technology	Thermal-magnetic
Magnetic tripping current	1040 A

### Complementary

Mounting mode	By clips By screws
Mounting support	Plate Rail
Mounting position	Horizontal Vertical
Motor power kW	45 kW at 500 V AC 50/60 Hz 55 kW at 690 V AC 50/60 Hz 37 kW at 400/415 V AC 50/60 Hz
Control type	Push-button
[Ue] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
[Ui] rated insulation voltage	690 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	6 kV conforming to IEC 60947-2
Power dissipation per pole	8 W
Mechanical durability	30000 cycles
Electrical durability	30000 cycles for AC-3 at 440 V

Operating rate	25 cyc/h
Rated duty	Continuous conforming to IEC 60947-4-1
Connections - terminals	Screw clamp terminals 1 cable(s) 2.5...16 mm <sup>2</sup> - cable stiffness : flexible - with cable end Screw clamp terminals 1 cable(s) 2.5...16 mm <sup>2</sup> - cable stiffness : flexible - without cable end Screw clamp terminals 1 cable(s) 2.5...35 mm <sup>2</sup> - cable stiffness : solid
Tightening torque	5 N.m - on screw clamp terminals
Mechanical robustness	Vibrations 2.5 Gn, 0...25 Hz conforming to IEC 60068-2-6 Shocks 22 Gn for 20 ms conforming to IEC 60068-2-27
Phase failure sensitivity	Yes conforming to IEC 60947-4-1
Height	120 mm
Width	61.2 mm
Depth	113 mm
Product weight	0.7 kg

## Environment

Standards	BS EN DIN EN 60947-2 DIN EN 60947-4-1 EN/IEC NF EN
Product certifications	CSA UL LROS
Protective treatment	TC
IP degree of protection	IP20 conforming to IEC 60529
IK degree of protection	IK04
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-40...80 °C
Fire resistance	960 °C conforming to IEC 60695-2-1
Operating altitude	3000 m