

GV3ME80

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

Main

Commercial Status	Commercialised
Range of product	TeSys GV3
Device short name	GV3ME
Product or component type	Circuit breaker
Circuit breaker application	Motor protection
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	Icu = 2 kA at 690 V AC 50/60 Hz conforming to IEC 60947-2 Icu = 10 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 Icu = 100 kA at 230/240 V AC 50/60 Hz conforming to IEC 60947-2 Icu = 4 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 Icu = 15 kA at 400/415 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 60947-2 100 % at 230/240 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 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	55 kW at 690 V AC 50/60 Hz 45 kW at 500 V AC 50/60 Hz 37 kW at 400/415 V AC 50/60 Hz
Control type	Pushbutton
[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) 0...0.02 in ² (2.5...16 mm ²) - cable stiffness : flexible - with cable end Screw clamp terminals 1 cable(s) 0...0.02 in ² (2.5...16 mm ²) - cable stiffness : flexible - without cable end Screw clamp terminals 1 cable(s) 0...0.05 in ² (2.5...35 mm ²) - cable stiffness : solid
Tightening torque	44.25 lbf.in (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	4.72 in (120 mm)
Width	2.41 in (61.2 mm)
Depth	4.45 in (113 mm)
Product weight	1.54 lb(US) (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	-4...140 °F (-20...60 °C)
Ambient air temperature for storage	-40...176 °F (-40...80 °C)
Fire resistance	1760 °F (960 °C) conforming to IEC 60695-2-1
Operating altitude	9842.52 ft (3000 m)