

# GV2ME05

motor circuit breaker GV2-ME - 3 poles 3d -  
0.63...1A - thermomagnetic trip unit



## Main

Range of product	GV2ME
Product or component type	Circuit breaker
Circuit breaker application	Motor protection
Poles description	3P
Network type	AC
Control type	Pushbutton
Motor power kW	0.25 kW at 400...415 V AC 50/60 Hz 0.55 kW at 690 V AC 50/60 Hz
[In] rated current	1 A
Magnetic tripping current	13 A
Thermal protection adjustment range	0.63...1 A conforming to IEC 60947-4-1
Suitability for isolation	Yes conforming to IEC 60947-1 § 7-1-6
Utilisation category	AC-3 conforming to IEC 60947-4-1 Category A conforming to IEC 60947-2
Connections - terminals	Power circuit: screw clamp terminal 2 cable 1...6 mm <sup>2</sup> - cable stiffness: solid Power circuit: screw clamp terminal 2 cable 1.5...6 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit: screw clamp terminal 2 cable 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end

## Complementary

Network frequency	50/60 Hz
Mounting mode	Fixed
Mounting support	Plate Rail
Mounting position	Horizontal Vertical
Trip unit technology	Thermal-magnetic
Phase failure sensitivity	Yes conforming to IEC 60947-4-1 § 7-2-1-5-2
[Ue] rated operational voltage	600 V AC 50/60 Hz conforming to CSA C22-2 No 14 600 V AC 50/60 Hz conforming to UL 508 690 V conforming to IEC 60947-2 AC 50/60 Hz
[Ui] rated insulation voltage	600 V conforming to CSA C22-2 No 14 600 V conforming to UL 508 690 V conforming to IEC 60947-2
[Ith] conventional free air thermal current	1 A conforming to IEC 60947-4-1
Network frequency	50/60 Hz conforming to CSA 50/60 Hz conforming to IEC 60947-4-1 50/60 Hz conforming to UL
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947-2
Power dissipation per pole	2.5 W
Mechanical durability	100000 cycles
Electrical durability	100000 cycles on AC-3 at 440 V In/2
Maximum number of switchings	25 cyc/h
Rated duty	Continuous conforming to IEC 60947-4-1
Tightening torque	1.7 N.m - on screw clamp terminal - cable 1...6 mm <sup>2</sup> 1.7 N.m - on screw clamp terminal - cable 1.5...6 mm <sup>2</sup> 1.7 N.m - on screw clamp terminal - cable 1...4 mm <sup>2</sup>

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Breaking capacity	> 100 kA Icu conforming to IEC 60947-2 at 230...240 V AC 50/60 Hz > 100 kA Icu conforming to IEC 60947-2 at 400...415 V AC 50/60 Hz > 100 kA Icu conforming to IEC 60947-2 at 440 V AC 50/60 Hz > 100 kA Icu conforming to IEC 60947-2 at 500 V AC 50/60 Hz > 100 kA Icu conforming to IEC 60947-2 at 690 V AC 50/60 Hz
[Ics] rated service short-circuit breaking capacity	> 100 % conforming to IEC 60947-2 at 230...240 V AC 50/60 Hz > 100 % conforming to IEC 60947-2 at 400...415 V AC 50/60 Hz > 100 % conforming to IEC 60947-2 at 440 V AC 50/60 Hz > 100 % conforming to IEC 60947-2 at 500 V AC 50/60 Hz > 100 % conforming to IEC 60947-2 at 690 V AC 50/60 Hz
Height	89 mm
Width	44.5 mm
Depth	78.2 mm
Product weight	0.26 kg

## Environment

Standards	CSA C22-2 No 14-05 EN 60204 IEC 60947-1 IEC 60947-2 IEC 60947-4-1 NF C 63-120 NF C 63-650 NF C 79-130 UL 508 VDE 0113 VDE 0660
Product certifications	ATEX BV CCC CEBEC CSA DNV (Det Norske Veritas) EZU GL GOST LROS (Lloyds register of shipping) PTB RINA SETI TSE UL
Protective treatment	TH
IP degree of protection	IP20 open mounted conforming to IEC 60529
Shock resistance	30 gn 11 ms conforming to IEC 60068-2-27
Ambient air temperature for operation	-20...60 °C open mounted -20...40 °C in enclosure
Ambient air temperature for storage	-40...80 °C
Fire resistance	960 °C conforming to IEC 60695-2-1
Operating altitude	<= 2000 m
Resistance to mechanical impact	0.5 J open mounted