

GV2P20

motor circuit breaker GV2-P - 13...18 A - 3 3d -
thermal magnetic trip unit



Main

Range of product	TeSys
Device short name	GV2P
Product or component type	Circuit breaker
Circuit breaker application	Motor protection
Poles description	3P
Network type	AC
Control type	Rotary knob
Motor power kW	15 kW at 690 V AC 50/60 Hz 9 kW at 500 V AC 50/60 Hz 7.5 kW at 400...415 V AC 50/60 Hz
[In] rated current	18 A
Magnetic tripping current	223 A
Thermal protection adjustment range	13...18 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 ² - cable stiffness: solid Power circuit: screw clamp terminal 2 cable 1.5...6 mm ² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminal 2 cable 1...4 mm ² - 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 AC 50/60 Hz conforming to IEC 60947-2
[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	18 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 ² 1.7 N.m - on screw clamp terminal - cable 1.5...6 mm ² 1.7 N.m - on screw clamp terminal - cable 1...4 mm ²
Breaking capacity	Icu > 100 kA at 230...240 V AC 50/60 Hz conforming to IEC 60947-2

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Icu > 100 kA at 230/240 V AC 50/60 Hz with current limiter conforming to IEC 60947-2
 Icu >= 100 kA at 400/415 V AC 50/60 Hz with current limiter conforming to IEC 60947-2
 Icu 10 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2
 Icu 100 kA at 440 V AC 50/60 Hz with current limiter conforming to IEC 60947-2
 Icu 100 kA at 500 V AC 50/60 Hz with current limiter conforming to IEC 60947-2
 Icu 20 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2
 Icu 4 kA at 690 V AC 50/60 Hz conforming to IEC 60947-2
 Icu 50 kA at 400...415 V AC 50/60 Hz conforming to IEC 60947-2
 Icu 50 kA at 690 V AC 50/60 Hz with current limiter conforming to IEC 60947-2

[Ics] rated service short-circuit breaking capacity	> 100 % at 230...240 V AC 50/60 Hz conforming to IEC 60947-2 > 100 % at 230/240 V AC 50/60 Hz with current limiter conforming to IEC 60947-2 >= 100 % at 400/415 V AC 50/60 Hz with current limiter conforming to IEC 60947-2 100 % at 690 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 400...415 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 440 V AC 50/60 Hz with current limiter conforming to IEC 60947-2 50 % at 500 V AC 50/60 Hz with current limiter conforming to IEC 60947-2 75 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 75 % at 500 V AC 50/60 Hz conforming to IEC 60947-2
Height	89 mm
Width	44.5 mm
Depth	97 mm
Product weight	0.350 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 CSA DNV EZU GL GOST LROS (Lloyds register of shipping) PTB RINA 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
Vibration resistance	5 gn 5...150 Hz conforming to IEC 60068-2-6
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