

GV3P40

motor circuit breaker GV3 poles - 40 A - everlink
BTR screw connectors - thermomagnetic trip unit



Main

Range of product	GV3P
Device short name	Thermal magnetic circuit breaker
Product or component type	Thermal magnetic circuit breaker
Circuit breaker application	Motor protection
Poles description	3P
Network type	AC
Control type	Rotary knob
Motor power kW	22 kW at 500 V AC 50/60 Hz 37 kW at 690 V AC 50/60 Hz 18.5 kW at 400...415 V AC 50/60 Hz
Trip unit technology	Thermal-magnetic
Magnetic tripping current	560 A
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: EverLink BTR screw connectors 2 cable 1...25 mm ² - cable stiffness: solid Power circuit: EverLink BTR screw connectors 2 cable 1...25 mm ² - cable stiffness: flexible - without cable end Power circuit: EverLink BTR screw connectors 1 cable 1...35 mm ² - cable stiffness: flexible - without cable end Power circuit: EverLink BTR screw connectors 2 cable 1...25 mm ² - cable stiffness: flexible - with cable end Power circuit: EverLink BTR screw connectors 1 cable 1...35 mm ² - cable stiffness: flexible - with cable end Power circuit: EverLink BTR screw connectors 2 cable 1...35 mm ² - cable stiffness: solid

Complementary

Network frequency	50/60 Hz
Mounting mode	Fixed
Mounting support	Plate Rail
Mounting position	Horizontal Vertical
[In] rated current	40 A
Thermal protection adjustment range	30...40 A conforming to IEC 60947-4-1
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	690 V conforming to IEC 60947-2
[Ith] conventional free air thermal current	40 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	8 W
Mechanical durability	50000 cycles
Electrical durability	50000 cycles on AC-3 at 440 V In

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Maximum number of switchings	25 cyc/h
Rated duty	Continuous conforming to IEC 60947-4-1
Type of connector	EverLink BTR screw connectors
Tightening torque	5 N.m - on EverLink BTR screw connectors - cable 25 mm ² 8 N.m - on EverLink BTR screw connectors - cable 35 mm ²
Breaking capacity	Icu 10 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 Icu 100 kA at 400...415 V AC 50/60 Hz conforming to IEC 60947-2 Icu 5 kA at 690 V AC 50/60 Hz conforming to IEC 60947-2 Icu 50 kA at 230...240 V AC 50/60 Hz conforming to IEC 60947-2 Icu 50 kA at 440 V AC 50/60 Hz 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 50 % at 400...415 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 440 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 500 V AC 50/60 Hz conforming to IEC 60947-2 60 % at 690 V AC 50/60 Hz conforming to IEC 60947-2
Height	132 mm
Width	55 mm
Depth	136 mm
Product weight	1.1 kg

Environment

Standards	CSA C22-2 No 14-05 type E EN 60947-1 EN 60947-2 IEC 60947-1 IEC 60947-2 UL 508 type E
Product certifications	ATEX CCC CSA GOST UL
Protective treatment	TH
IP degree of protection	IP20 open mounted conforming to IEC 60529
Shock resistance	15 gn (On) and 30 gn (Off) 11 ms conforming to IEC 60068-2-27
Vibration resistance	4 gn 5...300 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	<= 3000 m
Resistance to mechanical impact	10 J in enclosure