

GV3P65

TeSys GV3-Circuit breaker-thermal-magnetic - 48...65A - EverLink BTR connectors

Main

Commercial Status	Commercialised
Range of product	TeSys GV3
Device short name	GV3P
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 = 12 kA at 500 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 = 6 kA at 690 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 Icu = 50 kA at 400/415 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service short-circuit breaking capacity	50 % at 690 V AC 50/60 Hz conforming to IEC 60947-2 50 % at 500 V AC 50/60 Hz conforming to IEC 60947-2 100 % at 400/415 V AC 50/60 Hz conforming to IEC 60947-2 100 % 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
Thermal protection adjustment range	48...65 A
Trip unit technology	Thermal-magnetic
Magnetic tripping current	910 A

Complementary

Mounting mode	By clips By screws
Mounting support	Plate Rail
Mounting position	Horizontal Vertical
Motor power kW	30 kW at 400/415 V AC 50/60 Hz 55 kW at 690 V AC 50/60 Hz 45 kW at 500 V AC 50/60 Hz
Control type	Rotary knob
[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	65 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	50000 cycles
Electrical durability	50000 cycles for AC-3 at 440 V In
Operating rate	25 cyc/h
Rated duty	Continuous conforming to IEC 60947-4-1
Connections - terminals	EverLink BTR screw connectors 2 cable(s) 0...0.04 in ² (1...25 mm ²) - cable stiffness : flexible - with cable end EverLink BTR screw connectors 2 cable(s) 0...0.04 in ² (1...25 mm ²) - cable stiffness : flexible - without cable end EverLink BTR screw connectors 2 cable(s) 0...0.04 in ² (1...25 mm ²) - cable stiffness : solid
Tightening torque	44.25...70.8 lbf.in (5...8 N.m) - on EverLink BTR screw connectors- cable 0.05 in ² (35 mm ²) 44.25 lbf.in (5 N.m) - on EverLink BTR screw connectors- cable 0.04 in ² (25 mm ²)
Mechanical robustness	Vibrations 4 Gn, 5...300 Hz conforming to IEC 60068-2-6 Shocks opened 30 Gn for 11 ms conforming to IEC 60068-2-27 Shocks closed 15 Gn for 11 ms conforming to IEC 60068-2-27
Suitability for isolation	Yes conforming to IEC 60947-1
Phase failure sensitivity	Yes conforming to IEC 60947-4-1
Height	5.2 in (132 mm)
Width	2.17 in (55 mm)
Depth	5.35 in (136 mm)
Product weight	2.12 lb(US) (0.96 kg)

Environment

Standards	EN/IEC 60947-1 EN/IEC 60947-2 EN/IEC 60947-4-1 UL 508 type E CSA C22.2 No 14-05 type E
Product certifications	ATEX BV CCC CSA DNV GL GOST LROS (pending) RINA UL
Protective treatment	TH
IP degree of protection	IP20 conforming to IEC 60529
IK degree of protection	IK09
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)