

GK3EF80

GK3EF80 - Circuit breaker - magnetic - 80 A - screw clamp terminals



Main

Range	TeSys
Product name	TeSys GV3
Device short name	GK3EF
Product or component type	Circuit breaker
Device application	Motor
Poles description	3P
Network type	AC
Utilisation category	Category A conforming to IEC 60947-2
Network frequency	50...60 Hz
Breaking capacity	6 kA Icu at 690 V AC 50...60 Hz 15 kA Icu at 500 V AC 50...60 Hz 25 kA Icu at 440 V AC 50...60 Hz 35 kA Icu at 400/415 V AC 50...60 Hz 50 kA Icu at 230/240 V AC 50...60 Hz
[Ics] rated service short-circuit breaking capacity	50 % at 690 V AC 50...60 Hz 30 % at 500 V AC 50...60 Hz 30 % at 440 V AC 50...60 Hz 25 % at 400/415 V AC 50...60 Hz 40 % at 230/240 V AC 50...60 Hz
Trip unit rating	80 A
Trip unit technology	Magnetic
Magnetic tripping current	1040 A

Complementary

Mounting mode	By clips By screws
Mounting support	Rail
Mounting position	Any position
Motor power kW	55 kW at 500 V AC 50/60 Hz 37 kW at 400/415 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	750 V AC 50...60 Hz conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	10 kV conforming to IEC 60947-2
Electrical durability	1500 cycles for AC-3 at 415 V
Operating rate	40 cyc/h
Connections - terminals	Screw clamp terminals 2 cable(s) 2.5...16 mm ² - cable stiffness : flexible - with cable end Screw clamp terminals 2 cable(s) 2.5...16 mm ² - cable stiffness : flexible - without cable end Screw clamp terminals 1 cable(s) 2.5...35 mm ² - cable stiffness : solid
Tightening torque	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
Suitability for isolation	Yes conforming to IEC 60947-1
Height	120 mm
Width	66 mm
Depth	105 mm
Product weight	0.795 kg

Environment

Standards	EN 60204 IEC 60947-2
Protective treatment	TC
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	-20...70 °C
Ambient air temperature for storage	-40...80 °C
Fire resistance	960 °C conforming to IEC 60695-2-1
Operating altitude	3000 m