GV4PEM80N6

TeSys GV4 - thermal magnetic multifunction circuit breaker - 80A 3P - comp. lug

Green Premium Product

Main

Range	TeSys
Product name	TeSys GV4
Device short name	GV4P
Product or component type	Multifunction circuit breaker
Device application	Motor
Poles description	3P
Utilisation category	Category A
Trip unit technology	Electronic Thermal-magnetic
Protection type	Short time short-circuit protection Short-circuit Overload Phase unbalance Long start Ground fault protection Phase loss Jam Locked rotor
Motor tripping class	10 20
[In] rated current	80 A
Breaking capacity	65 kA at 208Y/120 V AC 50/60 Hz according to UL 60947 65 kA at 240 V AC 50/60 Hz according to UL 60947 35 kA at 480Y/277 V AC 50/60 Hz according to UL 60947 [Icu] : 100 kA at 220...240 V AC 50/60 Hz according to IEC 60947-2 [Icu] : 50 kA at 380...415 V AC 50/60 Hz according to IEC 60947-2 [Icu] : 50 kA at 440 V AC 50/60 Hz according to IEC 60947-2 [Icu] : 15 kA at 525 V AC 50/60 Hz according to IEC 60947-2 [Icu] : 8 kA at 660...690 V AC 50/60 Hz according to IEC 60947-2 [Icu] : 25 kA at 500 V AC 50/60 Hz according to IEC 60947-2 18 kA at 600Y/347 V AC 50/60 Hz according to UL 60947
[Ics] rated service breaking capacity	100 kA : at 220...240 V AC 50/60 Hz according to IEC 60947-2 50 kA : at 380...415 V AC 50/60 Hz according to IEC 60947-2 50 kA : at 440 V AC 50/60 Hz according to IEC 60947-2

	25 kA : at 500 V AC 50/60 Hz according to IEC 60947-2
	15 kA : at 525 V AC 50/60 Hz according to IEC 60947-2
	2 kA : at 660...690 V AC 50/60 Hz according to IEC 60947-2
Trip unit rating	40...80 A
Control type	Toggle

Complementary

Communication port protocol	NFC
[Ue] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
Motor power kW	22 kW at 400...415 V AC 50/60 Hz
	30 kW at 400...415 V AC 50/60 Hz
	30 kW at 500 V AC 50/60 Hz
	37 kW at 400...415 V AC 50/60 Hz
	37 kW at 500 V AC 50/60 Hz
	37 kW at 660...690 V AC 50/60 Hz
	45 kW at 500 V AC 50/60 Hz
	45 kW at 660...690 V AC 50/60 Hz
	55 kW at 660...690 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV according to IEC 60947-2
[Ui] rated insulation voltage	800 V conforming to IEC 60947-2
Mounting mode	By screws
	By clips
Mounting support	75 mm symmetrical DIN rail
	Plate
	35 mm symmetrical DIN rail
Suitability for isolation	Yes according to IEC 60947-1
Mechanical durability	40000 cycles
Electrical durability	14000 cycles for AC-3 at 440 V In/2
	7000 cycles for AC-3 at 440 V In
Local signalling	Green flag for presence of auxiliary contacts
Number of slots	1 slot(s) for alarm switch fault signalling contact (plug-in)
	1 slot(s) for voltage release electrical remote tripping (plug-in)
	1 slot(s) for auxiliary switch open/close contact (plug-in)
Connection pitch	27 mm
Connections - terminals	Lugs-ring terminals
Tightening torque	9 N.m for 16...95 mm²
	5 N.m for 1.5...10 mm²
Quality labels	CE
Standards	EN/IEC 60947-4-1
	UL 60947-4-1
	EN/IEC 60947-2
	CSA C22.2 No 60947-4-1
Height	155 mm
Width	81 mm
Depth	116 mm
Product weight	1.45 kg
Colour	Grey (RAL 7016)

Environment

Product certifications	IEC
Tropicalisation	2 according to IEC 68-2
IP degree of protection	IP40 (front face) according to IEC 60529
IK degree of protection	IK07 according to IEC 62262
Pollution degree	3 according to IEC 60947-1
Mechanical robustness	Shocks 15 Gn for 11 ms according to IEC 60068-2-27
	Vibrations +/- 1 mm for 2...13.2 Hz according to IEC 60068-2-6
	Vibrations 0.7 gn for 13.2...100 Hz according to IEC 60068-2-6
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-50...85 °C

Operating altitude	> 2000...5000 m with derating
	2000 m without derating

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1736 - Schneider Electric declaration of conformity
	Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
	Reference not containing SVHC above the threshold
Product environmental profile	Available
	Product environmental
Product end of life instructions	Available
	End of life manual