

TeSys protection components

Magnetic motor circuit breakers GV2

Environment								
Circuit breaker type				GV2L	GV2LE	GV2ME	GV2P	GV2RT
Conforming to standards				IEC/EN 60947-4-1, IEC/EN 60947-2				
				CSA C22.2 n°60947-4-1 ⁽¹⁾				
Product certifications				CCC, EAC, BV, LROS, DNV-GL, RINA	CCC, EAC, BV, RINA	CCC, UL, CSA, EAC, ATEX, BV, LROS, DNV-GL, RINA	CCC, UL, CSA, EAC, ATEX, BV, LROS, DNV-GL, RINA	CCC, UL, CSA, EAC, BV, LROS
Climatic withstand				According to IACS E10				
Degree of protection (front face)	Conforming to IEC 60529	Open mounted In enclosure		Against direct finger contact: IP20				
				IP65 with GV2PC01 GV2PC02 enclosure	-	IP41 with GV2M●01 IP55 with GV2M●02 enclosure	IP 65 with GV2PC01 GV2PC02 enclosure	-
Shock resistance	Conforming to IEC 60068-2-27			30 gn - 11 ms				
Vibration resistance	Conforming to IEC 60068-2-6			5 gn (5 to 150 Hz)				
Ambient air temperature	Storage		°C	-40...+80				
	Operation	Open mounted	°C	-20...+60				
		In enclosure	°C	-20...+40				
Temperature compensation		Open mounted	°C	-20...+60				
		In enclosure	°C	-20...+40				
Flame resistance	Conforming to IEC 60695-2-11		°C	960				
Maximum operating altitude			m	2000				
Suitable for isolation	Conforming to IEC 60947-1 § 7-1-6			Yes				
Resistance to mechanical impact			J	0.5				
				IK04				
Sensitivity to phase failure				Yes, conforming to IEC 60947-4-1 § 8-2-1-5-2 for GV2ME & GV2P				
Technical characteristics								
Circuit breaker type				GV2L	GV2LE	GV2ME	GV2P	GV2RT
Utilisation category	Conforming to IEC 60947-2			A				
	Conforming to IEC 60947-4-1			AC-3				
Rated operational voltage (Ue)	Conforming to IEC 60947-2		V	690				
Rated insulation voltage (Ui)	Conforming to IEC 60947-2		V	690				
Rated voltage	Conforming to UL 60947-4-1		V	-	-	600	600	600
	CSA C 22.2 n° 60947-4-1			480	480	600	600	600
Rated operational frequency	Conforming to IEC 60947-4-1 UL, CSA		Hz	50/60				
Rated impulse withstand voltage (U imp)	Conforming to IEC 60947-2		kV	6				
Total power dissipated per pole			W	1.8	2.5			
Mechanical durability (C.O.: Closing, Opening)			C.O.	100 000				
Electrical durability for AC-3/415V duty (C.O.: Closing, Opening)			C.O.	100 000				
Duty class (maximum operating rate)			C.O./h	40	25			
Maximum conventional rated thermal current (Ith)	Conforming to IEC 60947-4-1		A	0.4...32	0.4...32	0.16...32	0.16...32	0.40...23
Rated duty	Conforming to IEC 60947-4-1			Continuous duty				

(1) GV2L03 to GV2L22, GV2LE03 to GV2LE22.

(2) UL 60947-4-1 type E for GV2P●● (except 32A).