

TeSys protection components

Motor circuit breakers TeSys GV4

Environment								
Circuit breaker type			GV4L	GV4LE	GV4P	GV4PE	GV4PEM	GV4PB
Conforming to standards			IEC/EN 60947-1, IEC/EN 60947-2, IEC/EN 60947-4-1		IEC/EN 60947-1, IEC/EN 60947-2, IEC/EN 60947-4-1, UL 60497-4-1, CSA 22.2 n° 60497-4-1			IEC/EN 60947-2, IEC/ EN 60947-4-1
Product certifications			CCC, EAC		CCC, EAC, CSA (cCSAus), ATEX			UL 489, CSA C22.2 n°5
Climatic withstand			According to IACS E10					
Degree of protection (front face)	Conforming to IEC 60529	Open mounted	IP 40 front face except on connection area. Connection area: - IP20 with EverLink connector - IP40 with crimp lug connector and terminal shield.					
		In enclosure ⁽¹⁾	DRH = IP40 ERH = IP54 or IP65					
Shock resistance	Conforming to IEC 60068-2-27		15g - 11 ms		15g - 11 ms			
Vibration resistance	Conforming to IEC 60068-2-6		2.0 to 13.2 Hz and amplitude ±1 mm 13.2 to 100 Hz acceleration 0.7 g					
Ambient air temperature	Storage		°C	-50...+85				
	Operation		°C	-25...+70				
Temperature compensation			°C	Non applicable		-25...+60 ⁽²⁾		
Flame resistance	Conforming to IEC 60695-2-11		°C	960				
Maximum operating altitude			m	2000 without derating. Up to 5000 with derating				
Suitable for isolation	Conforming to IEC 60947-1 § 7-1-6			Yes				
Resistance to mechanical impact			J	IK07 (2J)				
Sensitivity to phase failure				No		Yes		
Technical characteristics								
Utilisation category	Conforming to IEC 60947-2			A		A		
	Conforming to IEC 60947-4-1			AC-3 ⁽³⁾				
Rated operational voltage (Ue)	Conforming to IEC 60947-2		V	690				
Rated insulation voltage (Ui)	Conforming to IEC 60947-2		V	800				
Rated voltage	Conforming to CSA C22-2 n°1, UL 60947-4-1		V	Non applicable		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	8				
Total power dissipated per pole			W	6.1		4.6		
Mechanical durability (C.O.: Closing, Opening)			C.O.	40000				
Electrical durability for AC-3/415V duty (C.O.: Closing, Opening)	415 V In		C.O.	5 000				
Duty class (maximum operating rate)			C.O./h	25				
Maximum conventional rated thermal current (Ith)			A	115				
Rated duty				Continuous duty				

⁽¹⁾ DRH = with Direct Rotary Handle

ERH = with Extended Rotary Handle

⁽²⁾ For operation up to 70 °C, please consult your regional sales office.

⁽³⁾ Up to 100 A.