Product Data Sheet
Air Circuit Breakers
HGL 20B, 20Q

General Information & Ratings

Product Code	HGL20 (B, Q Frame)
Rated Current [In max, 40°C]	1,000/1,200/1,250/1,600/2,000A
Number of Poles	3, 4P
Rated Frequency [Hz]	50 / 60Hz
Operation Temperature	-4°F to +140°F (-20°C to +60°C)
Installation Type	Fixed Type
	Draw-Out Type

Characteristics

Rated Current of Neutral Pole (N) (_ % x In)			100%
Rated Short-Circuit Current with instantaneous (Duty : O-15s-CO)	AC	635V	85kA
		508V	100kA
		254V	100kA
Rated Short-Circuit Current without instantaneous (Duty : O-15s-CO)	AC	635V	85kA
		508V	85kA
		254V	85kA
Rated Short Time Current			85kA
Operating Time [ms]	Opening		Less than 40ms
	Closing		Less than 80ms
Mechanical Durability (60Hz)			12,500 cycles
Electrical Durability (60Hz)			2,800 cycles
Main Contact Material			Ag
Arcing Contact Material			Cu
Shunt Trip Coil Operating Time (fully open)			35 ms
Closing Coil Operating Time (fully open)			80 ms

Protection relay

Model Name		GPR-LN	GPR-LA	GPR-LAG	GPR-LP
Control Power	External Power	-	●	●	●
	Self-Power	●	●	●	●
Protection Function	LTD (Long Time)	●	●	●	●
	STD (Short Time)	●	●	●	●
	INST (Instantaneous)	●	●	●	●
	Pre-Trip Alarm	-	●	●	●
	Ground Fault Trip	●	●	-	●
	Thermal Function	●	●	●	●
	Fail Safe	●	●	●	●
	Field Test	-	●	●	●
Indication	LED indication	-	●	●	●
	Fault LED	L	L,S/I,G,PTA	L,S/I,G,PTA, leakage	L,S/I,G,PTA
	Measurement LCD	-	●	●	●
Output Contact	Individual Contact (4a)	-	●	●	●
Operation	Communication	NFC	Modbus-RTU	Modbus-RTU	Modbus-RTU
	Event/Fault recording	●	●	●	●

Standards & Certifications

Certification	UL1066

Environment

Ambient air temperature for operation	-20°C to 60°C (-4°F to 140°F)
Altitude above sea level	≤ 2,000 m (6,562 ft)
Relative humidity toBe within	≤ 85%

Dimension & Installation

Fixed Type (3P)	Width (inch)	16.71	
	Height (inch)	15.92	
	Depth (inch)	11.65	
	Weight (lb)	117	
Draw-Out Type (3P)	Width (inch)	15.71	
	Height (inch)	19.17	
	Depth (inch)	16.54	
	Weight (lb)	220	
Phase-to-Phase Clearance (inch)		Vertical type	4.53
Phase-to-Ground Clearance (inch)		Vertical type	4.53
Main Contact Gap (mm)		30	
Arcing Contact Gap (mm)		36	
Country of Origin		South Korea	

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