Product Data Sheet Characteristics

HVF146□

General Information & Ratings

Product Code	HVF146□
Rated Voltage (kV)	4.76kV
Rated Current [In max, 40°C]	630/ 1,200/ 2,000/ 3,000A
Number of Poles	3P
Rated Frequency [Hz]	60Hz
Installation Type	Fixed Type
	Draw-Out Type

Characteristics

Rated Short-Circuit Breaking Current (kA)		40kA					
Rated Short-Circuit Making Current (kA)		104kA					
Short-Time Withstand Current for 3sec (kA)		40kA					
Power-Frequensy Withstand Voltage (kV, 1min)		19kV					
Impulse Withstand Voltage (kV, 1.2 x 50μs)		60kV					
Operating Duty		O-0.3sec-CO-15sec-CO					
Operating Time [ms], (at DC125V)	Closing Time	45-70					
	Opening Time	28-38					
Motor	System	Motor spring stored energy					
	Supply Voltage (V)	DC48V	DC125V	DC250V	DC110V	DC120V	DC240C
	Current (A)	22A	8A	4A	8A	8A	4A
Closing Operating	System	Shunt close					
	Supply Voltage (V)	DC48V	DC125V	DC250V	DC110V	DC120V	DC240C
	Current (A)	3A	1.5A	1A	1.5A	1.5A	1A
Opening Operating	System	Shunt trip					
	Supply Voltage (V)	DC48V	DC125V	DC250V	DC110V	DC120V	DC240C
	Current (A)	8A	3A	2A	3A	3A	2A
Operating Life [times]	Mechanical	10,000					
	Electrical	50					
Breaking Time (Cycles)		3					
Auxiliary Contacts		4NO+4NC (Max, 10NO+10NC)					
Mechanical Endurance Classification		-					
Electrical Endurance Classification		-					
Capacitive Current Switching		C2					
VI (Vacuum Interrupter) Type		HVS01750 / HVS01753					

Environment

Ambient air temperature for operation	-5 °C to 40 °C (23°F to 104°F)
Altitude above sea level	≤ 1,000 m (3,280 ft)
Relative humidity to be within	≤ 95%

Standards & Certifications

Certification	ANSI C.37.09

Dimension & Installation

Fixed Type (3P)	Width (inch)	30.5
	Height (inch)	26.3 (630~2000A) / 29.0 (3000A)
	Depth (inch)	17.6 (630~2000A) / 19.1 (3000A)
	Weight (lb)	309 (1200A) / 353 (2000A) / 441 (3000A)
Phase-to-Phase Clearance (inch)		10
Phase-to-Ground Clearance (inch)		11.4 (630~2000A) / 12.0 (3000A)
Draw-out Type (3P)	Width (inch)	31.3
	Height (inch)	28.3 (630~2000A) / 32.2 (3000A)
	Depth (inch)	28.3
	Weight (lb)	397 (1200A) / 485 (2000A) / 617 (3000A)
Phase-to-Phase Clearance (inch)		10
Phase-to-Ground Clearance (inch)		12.9 (630~2000A) / 13.5 (3000A)
Type Mounting	XA type	Fixed VCB with control jack
	GA/MA type	Draw-out VCB body only for GS/MS cradle
	GS type	Draw-out VCB body with GS cradle (Metalic partion & bushing with shutter)
	MS type	Draw-out VCB body with MS cradle (Metalic partion & bushing with shutter, with door)
Country of Orgin		South Korea

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