

TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION

VACUUM CIRCUIT BREAKER

HV6CS Series



COMPACT & LIGHTWEIGHT

Toshiba's HV6CS series vacuum circuit breakers deliver big performance in a small package. Featuring a compact, lightweight design, the HV6CS can be specifically used in medium voltage, low-capacity power receiving and transforming facilities. Its low surge features and compact size make it ideal for a wide variety of applications including mobile power centers and portable substations.

- 600 A, 2.4 to 7.2 kV, 12.5 kAIC
- Available in Fixed or Drawout Style & Manual or Motor-Operated
- Designed for Safety with Electrical & Mechanical Interlocks
- Front-Mounted Operation Counter
- Conforms to JIS C 4603 & JEC-2300 Standards
- Power Terminals Available in Vertical (U) or Horizontal (L) Directions
- Undervoltage Trip (120 VAC Control Power Must be Present)



Interruption Sequence



Undervoltage Trip Plug

FEATURES

- Compact Design Features Toshiba's Axial-Magnetic Field Interrupters, Allowing for Installation Where Traditional Breakers Will Not Fit
- Various Mounting & Connection Methods Available, Easing Installation & Reducing Installation Costs
- Multiple Main Terminal Configurations Provide Simpler Installation & Design
- Excellent Breaking/Interrupting Performance Ensures Long Life & Low Maintenance
- Low Surge Interrupters & Chopping Current, Eliminating Need for Special Protective Devices for Motor Starting & Transformer Loads
- No External Surge Protection Required, Removing Need for Motor Surge Arresters

SPECIFICATIONS

Model No.	HV6CS-U	HV6CS-L	HV6CS-MU	HV6CS-ML	HV6CS-MLD
Installation	Fixed				Drawout
Operation	Manual-Closing		Motor Spring-Closing		
Dimensions (HxWxD) (in.)	12.2 x 14.37 x 20.67	12.2 x 18.11 x 17.72	12.2 x 14.37 x 20.67	12.2 x 18.11 x 17.72	14.61 x 19.29 x 16.06
Weight (lbs.)	67		73		100
Max. Continuous Current Rating	600 A				
Interrupting Current (0.15 PF)	12.5 kA (Symmetrical)				
Rated Frequency	50 or 60 Hz				
Making Current	31.5 kA (Peak)				
Interrupting Time	Three Cycles				
Basic Impulse Level	60 kV				
Mechanical Life	10,000 Operations				
Load-Switching Life	10,000 Operations				

PART NUMBERING CONVENTION

Use the following part numbering convention to configure your HV6CS circuit breaker. For example, HV6CS-ML-VV is an HV6CS, fixed-type, motor-operated model, with horizontal power stabs and 125 VDC close/charge/trip.

		Type	Closing-Coil Voltage		Trip-Coil Voltage		Factory Modification	
Model								
HV6CS	Code	Configuration/Operation	Code	Voltage	Code	Voltage	Code	Modification
	-U	Fixed/Manual	-A	None (Manually Operated)	S	24/32 VDC	-R*	Replaces V16 Series Fix-Mounted Version (Same Faceplate Dimensions)
	-L	Fixed/Manual			V	125 VDC		
	-MU	Fixed/Motor	-V	125 VDC/120 VAC	S	24/32 VDC		
	-ML	Fixed/Motor			V	125 VDC		
-MLD	Drawout/Motor				N/A			
Drawout Cell for HV6CS-MLD								
H6A-HLS		Dimensions: 17.72" H x 21.06" W x 21.5" D Weight: 45 lbs.						

*Note: Factory modification "-R" includes a special mounting faceplate on the HV6CS so it can replace a V16S or HV6AS/FS without enclosure modifications (if power terminations are by bus bars, field modification may be necessary). The front-facing side of the HV6CS is smaller than the V16S. This modification is applicable to fixed-type models only, if the faceplate was used for mounting or if the face was protruding through the enclosure. This is a no-cost adder.

INDUSTRIES SERVED

- Oil & Gas
- HVAC
- Mining
- Steel
- Utilities

APPLICATIONS

- Generators
- Motors
- Transformers



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