



MOTORTRONICS™

Solid State AC Motor Control

MVF Series 7.2 kV 400A

Motortronics 7.2kV Class, 'Non-Latching' and 'Latching' Series of medium voltage three-phase indoor vacuum contactors can be used in power systems with a rated voltage of up to 7.2 kV and can be used for continuous AC operating currents of up to 400 amperes. Control voltage for the contactor is 120VAC.



Non-Latching - uses constant-on electromagnetic coils to close, and hold closed the vacuum bottle contacts. When the power to the electromagnetic coil is removed, the vacuum chamber contacts spring open (termed as; electrically held contacts or non-latching contacts).

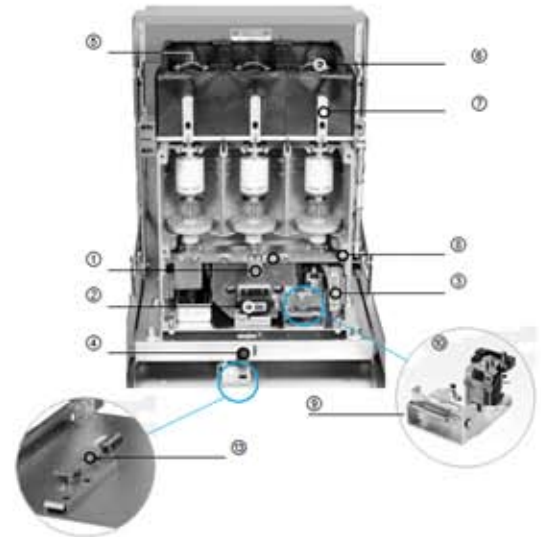
Latching - uses separate coils and mechanisms to both close and open the vacuum bottle contacts (termed as; mechanically held or latching, contacts).



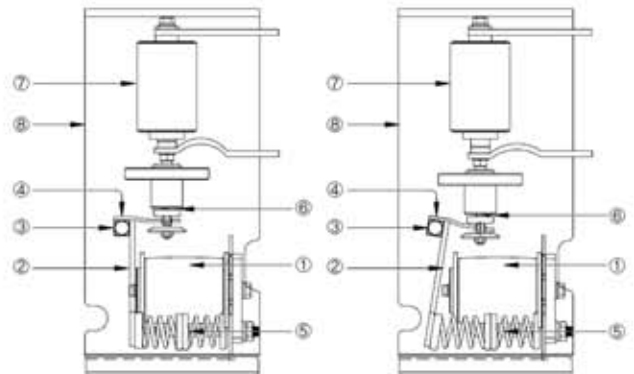
***Latching and Non-Latching
BIL 60kV***

MVF Series Medium Voltage Contactor

Specification		Fixed type without fuse	Draw-out type without fuse			
Type	Continuously energized	34-72-4-C-X-0-3-0-12	34-72-4-C-B-F1-0-12			
	Latched	34-72-4-L-X-0-3-0-12	34-72-4-L-B-F1-0-12			
Rated insulation voltage (kV)		7.2 kV				
Rated operation voltage (kV)		7.2 kV				
Rated frequency (Hz)		50/60 Hz				
Rated current (A)		400 A				
Impulse withstand voltage (kV) (BIL)		60 kV				
Power frequency withstand voltage (kV/min)		20 kV/min				
Control dielectric strength (kV/min)		2 kV/min				
Making and breaking capability (kA)		4 kA				
Breaking Capacity (kA, 0-3min-CO-3min-CO)	E1	4 (50 MVA@7.2 kV)				
	E2	50 @7.2 kV **				
Peak current (kA)	1 sec	6.3 kA				
	30 sec	3 kA				
Mechanical Endurance	Continuously energized	1,000,000 operations				
	Latched	300,000 operations				
Control voltage(V)		AC/DC 100~125 V				
Auxiliary contact		3 Normally Open and 2 Normally Closed Contacts				
Applicable load capacity	Motor (kW)	3000 kW				
	Transformer (kVA)	4000 kVA				
	Capacitor (KVAR)	2000 KVAR				
Weight (kg / lbs.)		19 kg / 42 lbs.	35 kg / 77 lbs.			
Operating Time and Current		Closing Current (A)	Holding Current (A)	Opening Current (A)	Closing Time(ms)	Opening Time(ms)
Continuously Energized Type		3	0.5	-	Max. 110	Max. 40
Latched Type		3	-	4	Max. 110	Max. 25
Control Voltage						
Closing		85~110 % of rated voltage				
Opening		75~110 % of rated voltage				
Rated Current of Auxiliary Contact						
Voltage		110 VAC		220 VAC		
Rated Current		5 A		2 A		
Operation condition						
Altitude		Less than 1,000 m A.S.L				
Relative humidity		Below 95 %				
Ambient temperature		-5C ~ +40 °C				
Switching frequency		Not faster than 20 operations / 1 minute				
Required mounting direction		Horizontal or Vertical				
Additional Ratings						
Drop-out control voltage		AC/DC 25 V				
Chopping current		1 A				



- ① ON/OFF indicator
- ② Counter
- ③ Control plug
- ④ Draw-out button
- ⑤ Fuse
- ⑥ Fuse holder
- ⑦ Fuse melting detector
- ⑧ Manual checking hole
- ⑨ Emergency trip button
- ⑩ Latch device
- ⑪ Front cover
- ⑫ Name plate
- ⑬ Position switch.



Close Condition

Open Condition

- ① Closing coil
- ② Moving core
- ③ Main shaft
- ④ Pressing plate
- ⑤ Tripping spring
- ⑥ Pressing spring
- ⑦ Vacuum interrupter
- ⑧ Insulation frame

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PN: MT-CTR7P2-071415