

## MOTORTRONICS

Solid State AC Motor Control

# WYF 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. Available in 110/220V AC or DC control voltage for the contactor.



**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).

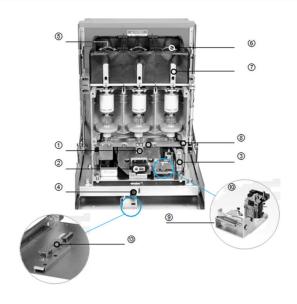


Latching and Non-Latching BIL 60kV

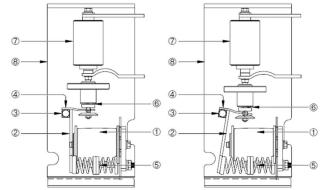
### World Class Medium Voltage Vacuum Contactors

## MVF Series

Specification		Fixed type without fuse			Draw-out type without fuse			
Tune	Continuously energized	34-72-4-C-X-0-3-0-12		34	34-72-4-C-B-F1-0-12			
Туре	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)		6.6 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	E1	4 (50 MVA@7.2	4 (50 MVA@7.2 kV)					
(kA, O-3min-CO-3min-CO)	E2	50 @7.2 kV **	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						
	Condenser (KVAR)	2000 KVAR						
Weight (kg / lbs.)		19 kg / 42 lbs. 35 kg / 77 lbs.						
Operating Time and Current			Closing	Holding	Opening	Closing	Opening	
		Control Voltage	Current (A)	Current (A)	Current (A)	Time(ms)		
Continuously Energized Type		110 VDC	2.5	1	N/A			
		220 VDC	1.6	0.7	N/A	80 Max. 80 Max.	40 Max.	
		110 VAC	2	0.8	N/A			
		220 VAC	1	0.5	N/A			
Latched Type		110 VDC	2.7	N/A	5	120 Max. 80 Max.	25 Max.	
		220 VDC	1.7	N/A	4			
		110 VAC	1.9	N/A	3.5			
		220 VAC	1.2	N/A	3			
Control Voltage								
Closing	85~110 % of rated voltage							
Opening		70~110 % of rated voltage						
Rated Current of Auxiliary	Contact	100000000000000000000000000000000000000						
Voltage	110 VAC	110 VAC 220 VAC						
Rated Current		5A 2A						
Operation condition								
Altitude		Less than 1,000	Δ S I					
Relative humidity		Below 85 %						
Ambient temperature		-5C ~ +40C						
Switching frequency		Not faster than 20 operations / 1 minute						
Required mounting direction		Horizontal or Vertical						
Additional Ratings		nonzonial or ve	incai	1. 1. 1.1.				
Drop-out control voltage		AC/DC 25 V						
The Reservoir Control of the Control								
Chopping current		1A						



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



#### Close Condition

- 1 Closing coil
- 2 Moving core
- 3 Main shaft
- 4 Pressing plate

#### **Open Condition**

- 5 Tripping spring
- 6 Pressing spring
- 7 Vacuum interrupter
- Insulation frame

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PN: CTR7P2-031025