



# MOTORTRONICS™

*Solid State AC Motor Control*

## MVF Series 12 kV

**Motortronics** 12kV Class, 'Non-Latching' Series of medium voltage three-phase indoor vacuum contactors can be used in power systems with a rated voltage of up to 12 kV and can be used for continuous AC operating currents of up to 400, 630 or 800 amperes. Control power for the design 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).

RATED CURRENT	RATED VOLTAGE	PART NUMBER NON-LATCHING
400A	12kV	34-400-3-12000
630A	12kV	34-630-3-12000
800A	12kV	34-800-3-12000



***Latching and Non-Latching  
BIL 75kV***

***MVF Series Medium Voltage Contactor***

## 12kV RATINGS

### RATED CURRENT

### 400A

### 630A / 800A

RATED CURRENT	400A	630A / 800A
Rated Voltage	12kV RMS	12kV RMS
Rated Maximum Closing Current	2,000A	4,000A / 6,300A
Rated Maximum Breaking Current	3,200A	3,200A / 5,040A
Interruption - Sym. Unfused Amps	4.8kA	4.8kA
Interruption - Sym. Fused Amps	36.7kA	36.7kA
Rated Operating Voltage	110 - 120 VAC	110 ~ 120 VAC
Maximum Capacitive Current	230A	230A
Closing Current - (Non Latching and Latching Models)	≤DC 6 A	≤DC 14 A
Holding Current - (Non Latching models)	DC 0.45 A	DC 0.8 A
Latch Release Current - (Latching Models)	DC 2.5 A	DC 2.5 A
Maximum Control Circuit Hi-Pot Level	2.0kV	2.0kV
Basic Impulse Level (BIL)	75kV	75kV
MV Contact Resistance (20°C)	≤ 250μΩ	≤ 250μΩ
VCB Contact Closure Synch	≤ 2.0ms	≤ 2.0ms
Switch-On Time	≤ 150ms	≤ 150ms
Switch-Off Time	≤ 50ms	≤ 50ms
Rated Operating Frequency	300 times/h	300 times/h
Mechanical life	1,000,000 times	1,000,000 times
Rated Operating Frequency	1,800 CPH	1,800 CPH
Electrical Life - AC-3	300,000 cycles	300,000 cycles
Electrical Life - AC-4	100,000 cycles	100,000 cycles
Weight	32 kg / 71 Lbs	32 kg / 71 Lbs

### CORPORATE HEADQUARTERS

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