



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 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

USA HEADQUARTERS

Motortronics / Phasetronics
 1600 Sunshine Drive
 Clearwater, Florida 33765
 USA
 Tel: + 727-573-1819 / 888-767-7792
 Fax: + 727-573-1803 / 800-548-4104
 E-mail: sales@motortronics.com
www.motortronics.com

UNITED KINGDOM

Motortronics UK
 Bristow House,
 Gillard Way, Ivybridge,
 Devon, PL21 9GG,
 United Kingdom
 Tel: +44 (0)1752-894554
www.motortronics-uk.co.uk

SOUTH KOREA

Motortronics Int'l Korea Co Ltd
 #1607, 128 Gasan digital 1-ro,
 Gasan digital 1-ro,
 Geumcheon-gu,
 Seoul 08507, Republic of Korea
 Tel: 82-2-867-5808
 Fax: 82-2-867-6004
www.motortronics-korea.com

CHINA

M & P Machinery & Electronics Control
Part of the Motortronics Group
 32 Jiaxin Road,
 Jimo,
 Qingdao, China 266229
 Tel: 86-532-81725028
 Fax: 86-532-81725038
www.mp-cn.com

UNITED ARAB EMIRATES

Motortronics MEA, LLC
 Sharjah Media City,
 Sharjah,
 United Arab Emirates
 Tel: +1 971-50 763 4920
www.motortronics.com

PN: MT-CTR12-080620