



# MOTORTRONICS™

*Solid State AC Motor Control*

**When safety really matters...**



**MVC-ARC designed, manufactured, assembled and tested in accordance with:**

- IEC 60694
- IEC 60470
- IEC 62271-102
- IEC 60044-1
- IEC 60044-8
- IBC 2000
- NEMA ICS 3 Part 1 & 2, 1993 (R2000)
- UL 347, EEMAC E14-1. Arc Resistant
- ANSI C19.7
- ANSI C:37.20.7, 200X, Arc Resistant
- IEC 62271-200
- IEC 60282-1
- IEC 60255
- IEC 60044-2
- IEC 61958
- IEC 60044-3

# MVC-ARC

**ARC Resistant Medium Voltage Soft Starter**



# MVC-ARC

## RATINGS

### Motor Controller Ratings

Rated current	200A	400A
Rated voltage (kV)	7.2	7.2
Rated insulation level		
Power frequency withstand voltage 50 Hz - 1 min (rms kV)	20	20
Lightning impulse withstand voltage 1.2/50 $\mu$ s (kV peak)	60	60
Frequency (Hz)	50/60	50/60
Nominal current and maximum short time withstand current (1)		
Rated current	200	400
Short time withstand current lth max.	(kA/3 s) 40 / (kA/2 s) 50	(kA/3 s) 40 / (kA/2 s) 50
Disconnect 0.25 second	50	50
Equipment (after fuses) 1 second / 30 seconds	4.2/1.7	7.8/3
Earthing Switch Fault Close		
kA Symmetrical	5kA	5kA
kA Peak	14kA	14kA
Internal arc withstand (Optional)		
1.second / 0.5 seconds / 0.25 seconds	25kA / 40kA / 50kA	25kA
0.50 second	40kA	40kA
0.25 second	50kA	50kA
Altitude Rating (meters/ft)	1000/3281	1000/3281

### Contacting Rating

Rated current In	200	400
Electrical Endurance	250,000	250,000
Mechanical Endurance Standard / Latched	2,500,000 / 250,000	2,500,000 / 250,000
Short Circuit Interrupting Amps (RMS Sym.)	6.3kA	6.3kA
Short Circuit Withstand at Rated Voltage (fused)		
kA Symmetrical / kA Peak	50 / 130	50 / 130
Short time withstand current lth max.		
1 second / 30 seconds	4 / 2.4	6 / 2.4
Chopping Current (Avg. RMS Amps)	0.5	0.5
Switching Frequency (Ops per hour)	1200/300 latched	1200/300 latched
Maximum Closing Time (milliseconds)	100 or less	100 or less
Maximum Opening Time (milliseconds)	30 or less	30 or less

#### 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](http://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](http://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](http://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](http://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](http://www.motortronics.com)