

Joslyn Clark *JC*

MEDIUM VOLTAGE VACUUM CONTACTOR

MVC Series

The Joslyn Clark USAVAC medium voltage vacuum contactors are ideal for applications for 2300V to 7200V. Current ratings of 200-1200 ampere, and motor ratings up to 7000 HP at 6600V are available.

- 7200V, 600 Ampere, 3 phase vacuum contactor with In-Line Power Terminals
- 400 Ampere, 3 phase vacuum contactor with alternative line terminal position enabling line and load termination to be on same side of contactor. Ideal for dropout starter designs. Can be easily converted.

The MVC Series Medium Voltage Vacuum Contactors offer many unique features to create easy maintenance, dependability and versatility. The modular design allows for a simplified assembly and easy inspection, utilizing minimum parts.

The control module contains the coil and auxiliary contacts, which can easily be removed for inspection or replacement.



Features

- Front Accessible
- Panel mount or table mount
- Field selectable power terminals
- Full phase insulated, B.I.L. 60kV
- Rugged design
- Compact, Lightweight
- Low Maintenance
- Self-adjusting power contacts



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Specifications

Catalog Numbers ^{1,2}			
2,500V	MVC77U032A25-**	MVC77U034A25-**	MVC77U036A25-**
5,000V	MVC77U032A50-**	MVC77U034A50-**	MVC77U036A50-**
7,200V	MVC77U032A72-**	MVC77U034A72-**	MVC77U036A72-**

Power Ratings Enclosed			
Rated Operational Current	200A	400A	600A
Rated Frequency	50/60Hz		
E1 Interrupt Rating	2,500V - 20 MVA equivalent to 4.62KA		
MVA & KA Values	5,000V - 40 MVA equivalent to 4.62KA		
Contactors Only	7,200V - 60 MVA equivalent to 4.62KA		
E2 Fuse Coordination (5000V)	400 MVA 45.7 KA RMS (38R max. fuse size)		
Peak Withstand Current (5000V)	57.8 KA - Peak (38R max. fuse size); 50 KA (24R max. fuse size)		
Short Time Current (1s)	6,000V	7,000V	9,000V
Short Time Current (5s)	4,000V	5,000V	6,000V
Short Time Current (15s)	2,000V	2,600V	3,000V
Switching Frequency	300 cycles per hour		
Elec. Life at Rated Current	600,000 cycles	400,000 cycles	250,000 cycles
Mechanical Life - No Load	750,000 cycles		
Dielectric Strength / B.I.L.	20,000V (1 min. per Interrupter) 60,000V (60ms per Interrupter)		
Chop Current Max	0.9A		
Operating Range at Rated Voltage	+10% -15%		
Closing Power VA/Duration	650VA / 45ms		
Holding Power	7VAC / 0.47VDC		
Average Opening Time	90ms		
Average Closing Time	40ms		
Average Pick-Up at Rated Voltage	≤85%		
Average Drop-out at Rated Voltage	≤70%		
Recommended Control Transformer	300VA		600VA

Application Ratings	
Mounting Installation	All Planes (Contactor only)
Altitude	6600 ft. (2000 Meters)
Operating Temperature Range	32°F (0°C) +134°F (57°C)
Vibration / Shock	40Hz - 2G. / 30G.
Weight	56 lbs. (25.4 kg)
Auxiliary Contacts	2 N.O. & 2 N.C. (standard); 4 N.O. & 4 N.C. (optional) ³

Coil Voltages

Suffix	Coil Voltage
-76	110/120VAC 50/60Hz
-26	220/240VAC 50/60Hz
-125	125VDC
-150	250VDC

Motor HP/KW AC3

Voltage	Power Factor	200A	400A	600A
2,500V	0.8	800	1,625	2,500
2,500V	1.0	1,000	2,000	3,000
3,300V	0.8	1,050	2,125	3,175
3,300V	1.0	1,350	2,750	4,000
4,160V	0.8	1,350	2,750	4,000
4,160V	1.0	1,625	3,350	5,000
6,600V	0.8	2,125	4,250	6,000
6,600V	1.0	2,750	5,500	8,000

Transformer Load KVA

Voltage	200A	400A	600A
2,500V	800	1,600	2,400
3,300V	1,000	2,100	3,200
4,160V	1,350	2,700	4,100
6,600V	2,100	4,300	6,500

Transformer Load KVA

Voltage	200A	400A	600A
2,500V	550	1,100	1,650
3,300V	750	1,500	2,250
4,160V	1,000	2,000	3,000
6,600V	1,500	3,000	4,500

NOTES:

- Consult factory for 2, 4, 5 Pole Contactors, and Mechanically Interlocked Contactors.
- Consult factory for certifications and approvals.
- Excludes DC Voltages.

** Coil Voltage

