

Joslyn Clark 

COMPACT VACUUM CONTACTOR CV Series

Joslyn Clark's Compact CV Series Vacuum Contactors and Starters are ideal for tough industrial applications. The compact design provides flexibility for retrofitting air break contactors, thus enabling an existing application to continue with maintenance cost and down time eliminated.

These compact CV Series Contactors and Starters are suitable for worldwide applications and for use with all types of motors including high efficiency IEC and NEMA design E motors.

The CV Series are easily interchangeable with NEMA Air Break contactors & starters. This series also features a simplified DC magnet system with range rated economized coils for improved reliability.

International Ratings For Global Applications
UL508 Listed | CSA22.2 certified | NEMA ICS-2 | IEC 947-4.1

Mechanically Interlocked versions are available for reversing applications.

Features

- Front Accessible
- Long Mechanical & Electrical Life
- Mounts in any plane
- Class 20 Bi-metallic overload relays
- Quiet, Rugged Design
- Standard with On/OFF Indicator
- Compact, Lightweight
- Side mounted auxiliary contacts



COMPACT VACUUM CONTACTOR

CV Series



NEMA Size 4 Specifications

Catalog Numbers ¹	CV77U030406-**	CV77U032006-**	CV77031615-**
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Power Ratings Enclosed			
Rated Insulating & Operating Voltage	600V	1,000V	1,500V
Rated Operating Current - AC1	135A	200A	200A
Rated Operating Power - AC3	100HP 460/575V	250HP 185KW-660V	500HP 370KW-1,500V
Rated Operating Power - AC4	60HP 460/575V	175HP 130KW-660V	315HP 235KW-1,500V
Rated Frequency	50-400Hz		
Making Current	2,000A		
Breaking Current	1,600A		
Dielectric Strength / B.I.L.	6,000V (1 Minute per Interrupter)		
Interrupting Current	2,200A		
Short Time Withstand Current (50ms)	10,000A		
Short Time Current (1s)	5,000A		
Short Time Current (10s)	1,600A		
Mechanical Life - No Load	1,200,000 cycles		
Electrical Life at Rated Current (AC3 Duty Cycles)	1,000,000 cycles		
Switching Frequency	600 cycles per hour		
Chopping Current	0.9A		
Operating Range at Rated Voltage	-15% +10%		
Closing Power / Duration	1,200VA 20 ms Duration		
Holding Power	12VA		
Average Opening Time	120ms		
Average Closing Time	20-40ms		
Average Pick-Up at Rated Voltage	≤85%		
Average Drop-Out at Rated Voltage	≤70%		
Recommended Control Transformer	400VA Machine Tool Transformer; 5% Regulation at 20%pf		

Application Ratings	
Mounting Installation	All Planes (Contactor only)
Altitude	Up to 6600 ft. (2000 m)
Operating Temperature Range	-40°F (-40°C) / +122°F (50°C)
Vibration / Shock	40Hz - 2G. / 30G.
Weight	21 lbs. (9.53 kg)
Auxiliary Contacts	1 N.C. & 1 N.O. (standard); 3 N.C. & 3 N.O. (optional)

Coil Voltages

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

Motor HP/KW AC3

Voltage	135A	200A
200/208V	43/30	60/45
220/240V	50/37	75/56
380/415V	75/56	125/93
440V	100/75	125/93
460/480V	100/75	150/112
575V	125/93	150/112
600V	125/93	200/149
660/690V	-	200/149
1,000V	-	300/224
1,500V	-	500/373

Three Phase Transformer Load KVA

Voltage	135A	200A
200/208V	44/46	66/68
220/240V	49/53	72/79
380/415V	84/92	125/137
440V	98	145
460/480V	102/107	151/158
575V	128	189
600V	133	197
660/690V	-	217/227
1,000V	-	329
1,500V	-	494

Three Phase Transformer Load KVAR

Voltage	150A	200A
208V	40	54
220/240V	43	62
380/400V	74	104
415/440V	81	114
460V	90	127
575/600V	115	156
1,000V	195	260
1,500V	292	390

NOTES:

¹ Consult factory for certifications and approvals.

