

USAVAC - LOW VOLTAGE

AC Vacuum Contactors

A

CV Series
NEMA Size 6
NEMA V600
IEC 600A

- UL listed to 1500V
- CSA Certified to 1500V
- CE
- Three Ratings
- One Small Size



600V NEMA Size 6 540A



1000V 600A

600Volt Nema Size 6 540A Contactor 3 Pole Nema ICS-2 UL508 CSA 22.2

Rating Nema Size 6	Maximum Horsepower/KW Rating 3 Phase HP/KW				Open Type
	200/208V	250V	460V	575V	
600V	200/208V	250V	460V	575V	Catalog #
HP/KW	150/112	200/150	400/300	400/300	CV77U030606-*

1000Volt 600AMP Contactor 3 Pole IEC 947-4-1 UL508 CSA 22.2

Rating 600A 1000V	Maximum Horsepower/KW Rating 3 Phase HP/KW						Open Type
	200/208V	220/240V	400V	460V	575/600V	660-690V	
1000V	200/208V	220/240V	400V	460V	575/600V	660-690V	Catalog #
HP/KW	200/150	200/150	250/187	400/300	600/450	650/485	CV77U036A06-*

1500V 600AMP Contactor 3 Pole IEC 947-4-1 (1000V) UL508 (1500V) CSA 22.2 (1500V)

Rating 600A Nema V600	Maximum Horsepower/KW Rating 3 Phase HP/KW								Open Type
	200/208V	220/240V	400V	460V	575/600V	660-690V	1000V	1500V	
1500V	200/208V	220/240V	400V	460V	575/600V	660-690V	1000V	1500V	Catalog #
HP/KW	200/150	200/150	250/187	400/300	600/450	650/485	1000/750	1200/900	CV77U036A15-*
Nema V600	200/150	200/150	375/280	500/350	600/470	-	1100/820	1600/1200	CV77U036V15-*

Options (Discount Schedule JC11) Field Kits

Description	Catalog #
Wire Size (2) #2-600 mcm 3 lugs per kit	KVC6-2
Aux Contact Kit 2N/O 2N/C 10A 600VAC	AK1
Aux. Contact Kit 2N/O 2N/C 10MA 5VDC	AK3

Ordering Information

- Use complete catalog number when ordering. Replace the (*) with the suffix from the coil table.
- Engineering Data page A19.
- Renewal Parts page A14.

* Coil Table

Voltage Suffix	
120 AC	-76
240 AC	-26
380 AC	-38
460 AC	-46
125V DC	-125
250V DC	-250

Replacement Parts (Discount Schedule JC80)

Description	Catalog #
Interrupter Phase Assembly	A77-460880A-2
Coil 110/120V 50/60 HZ	A77-460930A-1
Coil 220/240V 50/60 HZ	A77-460930A-2
Coil 380/415V 50/60 HZ	A77-460930A-3
Coil 440/480V 50/60 HZ	A77-460930A-4
Coil 125V DC	A77-460930A-7
Coil 250V DC	A77-460930A-8
Control PAK 110/120 50/60 HZ	A77-460916A-4
Control PAK 220/240 50/60 HZ	A77-460916A-5
Control PAK 380-415V 50/60 HZ	A77-460916A-6
440-480V 50/60 HZ	
Aux. Contact Kit 2N/O 1N/C +1 N/C Late Break	AK Std.

USAVAC LOW VOLTAGE CONTACTORS & STARTERS

Engineering Data

Technical Specifications CV Series

Description	NEMA Size 6 600V	600 Amp 1000V	600 Amp 1500V
Cat #	CV 77U030606-*	CV 77U036A06-*	CV 77U036A15-*
Standard	NEMA 1CS-2 UL508 CSA22.2	IEC 947-4-1 NEMA 1CS-2-9 UL508 CSA22.2	IEC 947-4-1 1000V NEMA 1CS-2-9 UL508 CSA22.2 1500V
Power Ratings Enclosed			
Insul. & Operating Volt	600 Volts	1000 Volts	1500 Volts
Rated Oper. AC1	540 Amps	600 Amps	600 Amps
Rated Oper. AC3	400 HP 460/575V	750 HP 550KW-660V	1200 HP 900KW-1500V
Rated Oper. AC4	250 HP 460/575V	525 HP-390KW-660V	950 HP-700KW-1500V
Rated Frequency	50 - 400 Hz		
Making Current	6000 Amps		
Breaking Current	4800 Amps		
Dielectric Strength	6Kv - 1 Min. Interruptor		
Interrupting Current	6 KA		
Short Time Current 1 Sec.	9000 A		
Short Time Current 10 Sec	4800 A		
Mechanical Life	.75 X 10 ⁶		
Elect. Life AC3 Duty	.5 X 10 ⁶		
Switching Frequency	300/Hour (1 Every 12 Sec)		
Withstand Current	30KA 50 MSec		
Chop Current Max	0.9 A		
Operating Range	-15% + 10% - over Range Voltage		
Inrush Power VA	1600VA 120 ms Duration		
Holding Power VA	10-12.5 VA		
Opening Time MS	160ms		
Closing Time MS	20-40ms		
Pick-Up Voltage	80% Cold 85% Hot or less		
Drop-Out Voltage	70% or less		
Recommended CPT	500VA Machine Tool Transformer 5% Regulation at 20%pf		
Applications Ratings			
Mounting Installation	All Planes (Contactor only)		
Altitude	6600 ft. 2000 Meters		
Ambient Storage	-65°F (-54°C) +160°F (71°C)		
Operating	-40°F (-40°C) +122°F (50°C)		
Vibration / Shock	40Hz - 2G. / 30G.		
Weight	28 lbs. 12.7 Kg.		

Power Rating

Voltage	Motor HP/KW AC3	
	540A	600A
208	150/112	200/150
220/240	200/150	2000/150
380/415	----	250/187
460	400/300	500/350
575/600	400/300	600/450
660/690	----	650/485
1000	----	1000/750
1500	----	1200/900
Three Phase Transformer Load KVA		
Voltage	540A	600A
208	194	216
220/240	224	249
380/400	396	415
415/440	432	450
460/500	476	519
575/600	520	620
660	617	685
1000	1040	1384
1500	1560	2076
Three Phase Capacitor Load KVAR		
Voltage	540A	600A
208	160	173
220/240	172	200
380/400	296	332
415/440	324	366
460	360	382
575/600	460	500
1000	780	830
1500	1168	1250

Options

- Lug Kit 2#6 600mcm 3 lugs per kit Cat.# KVC6-2

Auxiliary Contact Kits

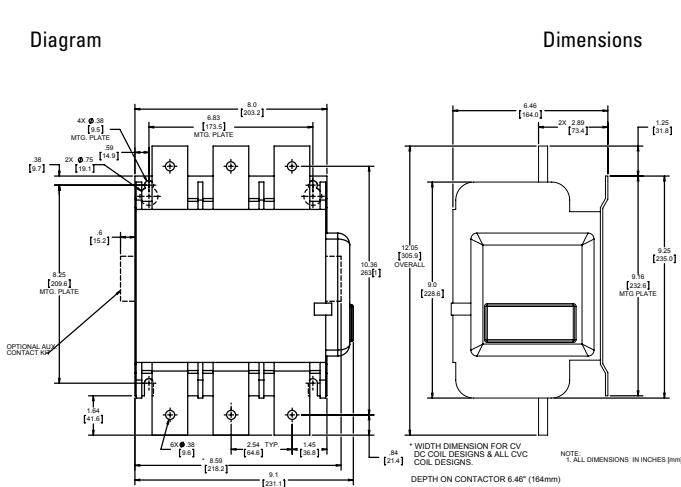
- 2NO. 2 NC 600V. 10A ac. Cat.# AK1
- 2NO. 2 NC 5V.10mA dc. Cat.# AK3

Only 1 Kit can be added for total of 3 N/O 3 N/C contacts (1 N/O 1 N/C Standard)

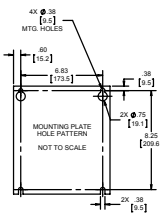
Coils

Description	Hz.	Cat.Suffix
110/120V	50/60Hz.	-76
220/240V	50/60Hz.	-26
380/415V	50/60Hz.	-38
440/480V	50/60Hz.	-46
125V DC		-125
250V DC		-250

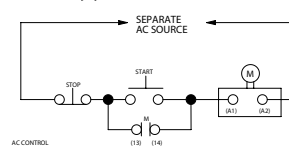
Diagram



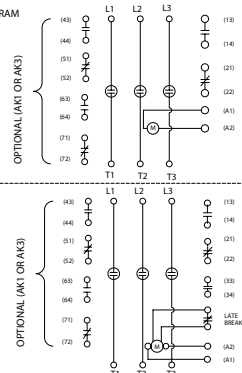
Dimensions



Schematic



Wiring Diagram



For 250V dc contact 21/22 is Late Break N/C in series with 'm' late break

DEPTH OF CONTACTOR 6.46" (164mm)