

Joslyn Clark *JC*

HEAVY DUTY VACUUM CONTACTOR 1140 Series

As one of the most demanding industries for rugged duty, mining equipment requires reliable power switching and motor-starting solutions to ensure dependable productivity in harsh environments. Joslyn Clark vacuum contactors are recognized by the leading coal-mine machine builders for applications on long-wall mining equipment, continuous miners, conveyors, power centers and other related equipment.

We developed the 1,140 Volt Vacuum Contactor Series, to meet the specific needs of our partners in the mining industry. In addition to meeting those power requirements, the new vacuum contactor offers several other benefits. For an industry in which space is critical, the 1140 Series features the smallest footprint.

This rugged contactor can be mounted in any plane and is front accessible. It also features a long electrical life and the kind of durability and reliability you've come to expect from Joslyn Clark vacuum contactors. Whatever your requirements, Joslyn Clark has the contactor and motor-starting system solutions to meet your needs.

Features

- Designed to Standards IEC 60947-4, CSA22.2 & UL508
- Heavy Duty Mining Design
- Standard contactor includes 2NO & 2NC Aux. Contacts
- Optional contactor includes 4NO & 4NC Aux. Contacts
- Visual ON/OFF indicator
- Visual wear indicator
- Line & Load Terminal Hex Bolts
- Mounts in any plane



HEAVY DUTY VACUUM CONTACTOR

1140 Series



Specifications

Catalog Numbers	CV77U033A12-**
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Coil Voltages

Suffix	Coil Voltage
-11	110VAC 50/60Hz
-22	220VAC 50/60Hz

Power Ratings Enclosed	
Rated Insulating & Operating Volt	1,140V
Rated Operating Current - AC1	AC1 330A at 40C; 300A at 60C
Rated Operating Power - AC3	428KW/1140V
Rated Operating Power - AC4	140KW/1140V
Rated impulse withstand voltage	8,000V
Rated Frequency	50-60Hz
Making Current	3,000A
Breaking Current	2,400A
Dielectric Strength / B.I.L.	6000V (1 Minute per Interrupter)
Interrupting Current	3,000A
Short Time Withstand Current (50ms)	10,000A
Short Time Current (1s)	6,000A
Short Time Current (10s)	2,400A
Electrical Life at Rated Current (AC3 Duty Cycles)	1,000,000 cycles
Switching Frequency	600 cycles per hour
Operating Range at Rated Voltage	-30% + 25% at Range Voltage
Closing Power/Duration	1680VA <100ms
Holding Power	3.6VA
Average Opening Time	160 milliseconds
Average Closing Time	20-40 milliseconds
Average Pick-Up at Rated Voltage	≤75%
Average Drop-Out at Rated Voltage	≤70%

Application Ratings	
Mounting Installation	All Planes (Contactor only)
Altitude	Up to 6600 ft. (2000 m)
Operating Temperature	-13°F (-25°C) +140°F (60°C)
Vibration / Shock	10-50Hz - 2G/30G
Weight	17 lbs. (7.71 kg.)
Auxiliary Contacts	2 N.O. & 2 N.C. (standard); 4 N.O. & 4 N.C. (optional)

** Coil Voltage

