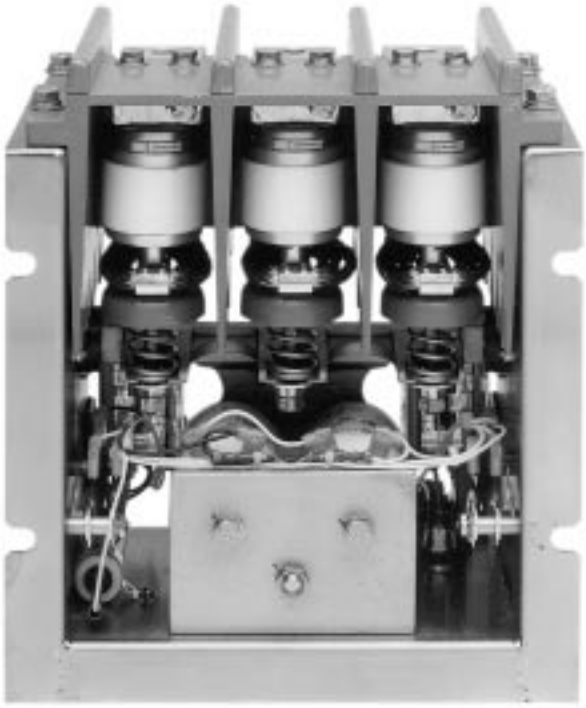
Three Phase Vacuum Contactors
RP133

MODEL RP 133-2332-00

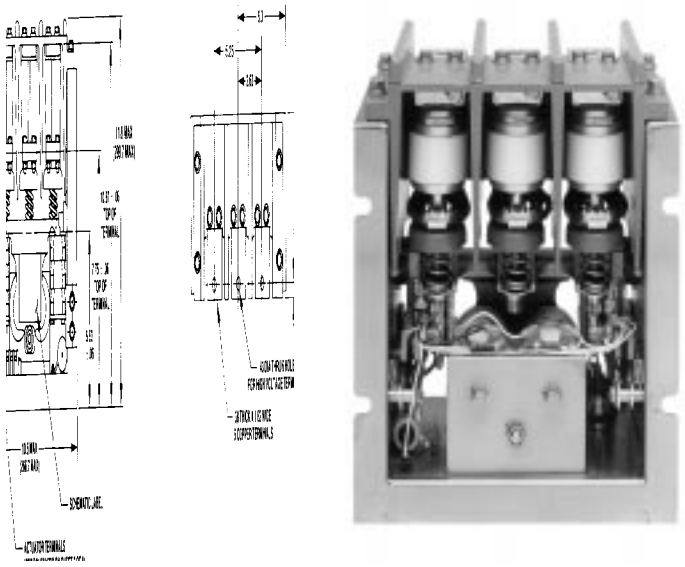
Weighing less than 30 pounds, this small contactor (11.8” x 10.5” x 5.5”) is designed to meet the requirements of today’s modern equipment. The size reduction is accomplished by utilizing three new Jennings vacuum interrupters that were developed for this specific purpose. The vacuum interrupter, a hermetic enclosure in which the contacts operate, is the key component of this three phase vacuum contactor. The contact-to-contact gap required to interrupt the circuit is short, thus permitting ultra reliable operation. The special contact materials used are rated for use up to 1.5 kV, 450 amperes load life and 4500 amperes fault current.



The contactor, which use vacuum as the dielectric and interrupting medium, is performing better in many applications than the conventional air magnetic or oil immersed types that have been in general use. The contactor is rugged, requires minimal maintenance, is smaller and lighter than other types, and is environmentally safe and extremely durable. Because of their reliability and durability, vacuum contactors are becoming the switching device of choice in motor controllers that operate production and processing equipment, mining and construction equipment, earth movers or carriers, power shovels, rock crushers and conveyors.

Designed to withstand the frequent switching required to control furnaces and large air conditioning motors, the RP133-2332-00 Contactor is commonly used to protect power transformers and DC power supplies, and also to switch capacitor banks for voltage regulation and power factor correction as a means of reducing operating cost.

Load life of the RP133-2332-00 Contactor is typically one million operations at rated load current. Maintenance is minimized as the main contacts are sealed to eliminate contamination. It operates at an ambient temperature range of –40° to +85°C.



RP133 Vacuum Interrupter used in RP133-2332-00 contactor.

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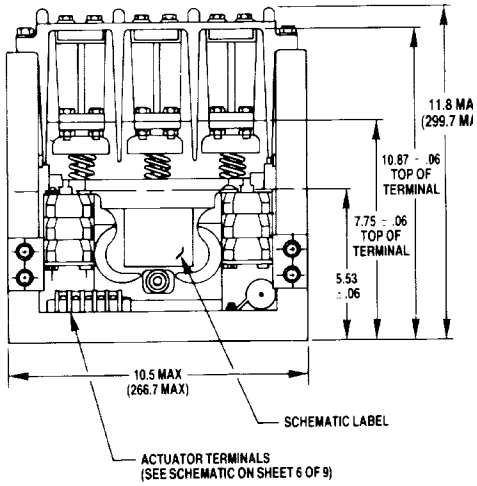
ELECTRICAL SPECIFICATIONS

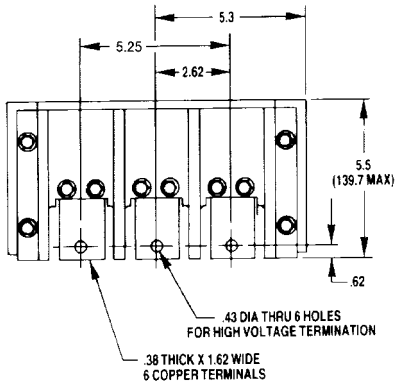
VOLTAGE RATINGS	
Maximum 3 Ø line voltage	600 V and 1.5 kV*
Dielectrics 50/60/400 Hz, 60 sec. withstand	
line-to-ground	6.5kV RMS
line-to-line	6.5kV RMS
across open contacts	6.5kV RMS
B.I.L. - 1.2 X 50, µsec impulse	
line-to-ground	20 kV peak
line-to-line	20 kV peak
across open contacts	20 kV peak
CURRENT RATINGS *(See Specifications for Complete Electrical Ratings)*	
Continuous current	450 A RMS
Load switching current	450 A RMS
Capacitors - 750 KVAR @ 1.5 kV	
Motors - 750 HP @ 1.1 kV	
Making current	
Random make 100 times @ 1.5 kV with 3 sec. backup: 4.5 kA RMS	
Random make 10 times @ 1.5 kV with current limiting fuse: 28 kA pk	
Random make 100 times @ 1,5 kV with 3 sec. backup: 6 kA RMS	
Chop current @ 30 A switching with	
1000 Ω surge impedance circuit	1.5 A max.
Electrical Life @ rated switching current	10^6 close/open operations
INTERRUPT CURRENT	
4500A RMS @1.5 kV	
ACTUATOR	
Control Voltage	
115 VAC	+10% - 15% 50-60 Hz
110 VDC	+10% - 20%
Control Current	
Pull-in Amps	7.1
Hold-in Amps	0.9
AUXILIARY CONTACTS	
Configuration	
2 NC, 3 NO, SPST double break, 10 A resistive @ 600 VAC	

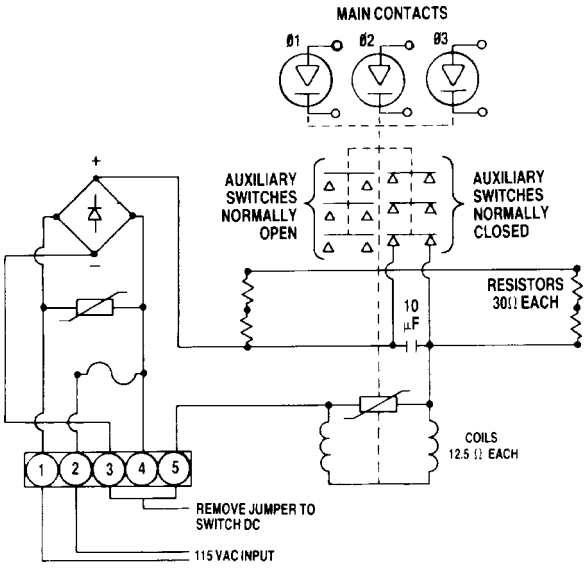
**3300 VOLTS AVAILABLE ON SPECIAL ORDER.*

MECHANICAL SPECIFICATIONS

Weight	30 lbs. maximum
Release Time from control switch off to separation of main contacts	16 msec maximum
Mounting	Operates any position







UNIT SHOWN IN DE-ENERGIZED POSITION