

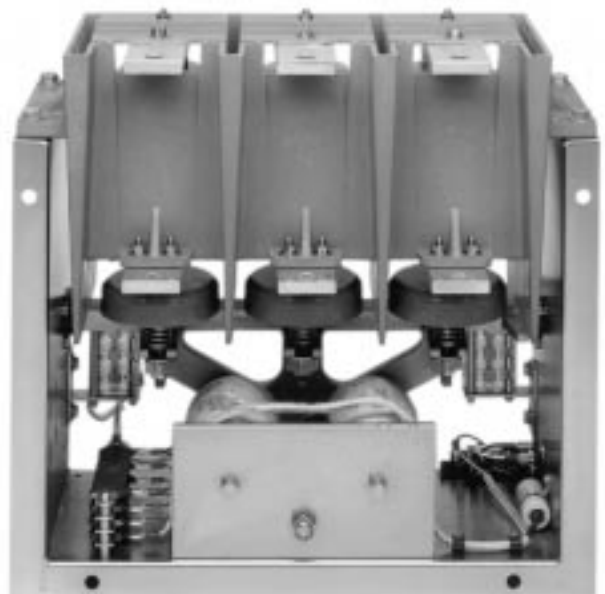
### MODEL RP 173-2310-00

Weighing less than 67 pounds, this small contactor (18"X18"x 8") is designed to meet the requirements of today's modern equipment. This small size is accomplished by utilizing three 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 long life, low chop contact materials used are rated for use up to 7.2 kV @ 450/600 amperes. See Specifications for electrical load life.

The contactor, which uses vacuum as the dielectric and interrupting medium, performs better in 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, petroleum and construction equipment, earthmovers and conveyors, power shovels and all types of industrial loads.

Designed to withstand the frequent switching required to control furnaces and large motors, the RP 173-2310-00 Contactor is commonly used in industrial applications to switch power transformers and capacitor banks for voltage regulation and power factor correction as a means of reducing operating cost.

Load life of the RP 173-2310-00 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  $-40^{\circ}$  to  $+85^{\circ}$  C.



### ELECTRICAL SPECIFICATIONS

VOLTAGE RATINGS	
3 Ø line voltage	1.5, 2.5, 5.0 and 7.2 kV
Dielectrics 50/60/400 Hz, 60 sec. withstand	
line-to-ground	30 kV RMS
line-to-line	30 kV RMS
across open contacts	30 kV RMS
B.I.L. 1.2 X 50 µsec impulse	
line-to-ground	60 kV peak
line-to-line	60 kV peak
CURRENT RATINGS (See Specifications for Complete Electrical Ratings)	
Continuous current	450 A / 600 A RMS
Load switching current	450 A RMS
Capacitors - 2000 KVAR @ 4.16 kV* Grounded Neutral	
Motors - 5000 HP @ 7.2 kV	
Transformer - 5000 KVA @ 7.2 kV	
Making Current	
Random make 100 times @ 7.2 kV with 3 sec. backup: 4.5 kA RMS	
Random make 10 times @ 7.2 kV with current limiting fuse: 55 kA pk	
Random make 100 times @ 5.0 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 <sup>6</sup> close/open operations
INTERRUPT CURRENT	
6000A RMS @ 5.0 kV	
ACTUATOR	
Control Voltage**	
115 VAC	+10% - 15% 50-60 Hz
110 VDC	+10% - 20%
Control Current	
Pull-in Amps	3.3
Hold-in Amps	0.5
AUXILIARY CONTACTS	
Configuration	
2 NC, 3 NO, SPST double break, 10 A resistive @ 600 VAC	

\*7.2 kV CAPACITIVE RATING AVAILABLE ON SPECIAL ORDER

\*\*For actuate voltage of 230 VAC or 220 VDC order Model No. RP173-2311-00

### MECHANICAL SPECIFICATIONS

Weight	67 lbs. maximum
Release Time from control switch off	
to separation of main contacts	100 msec maximum
Mounting	Operates any position

