Series PC

Special Purpose Contactors for Resistance Heating Loads

Installation Instructions

Application

Easy Heat special purpose magnetic contactors are designed for the control of electric heating or snow melting equipment. Magnetic contactors connect and disconnect power supply and load in response to the closing and opening of a pilot control contact (thermostat, switch, snow sensors, etc.). They provide dependable full voltage control of resistance heating loads. These controls are available in six ratings from 40 to 112 NON-INDUCTIVE amperes at 120 to 480 volts. All contactors are 3 pole, with coil voltages of 120 and 208/240 available.

Construction

Compact — Space-saving dimensions mean smaller panels and more wiring room.

Straight-through Wiring — Line terminals are located at the top, load terminals at the bottom. This construction eliminates the necessity of looping wires around the control and reduces wiring costs.

Mounting — Contactors are designed for mounting on a vertical surface. Side-by-side grouping is possible since all terminals are front accessible and isolated from adjacent controls by molded barriers.

Interchangeable Mounting — The control can be fastened on a panel by using a combination of multiple mounting holes and slots provided.

Terminals — Line and load terminals are supplied with pressure connectors. Pilot control wires can be attached to the line terminals by using integral auxiliary quick connectors.

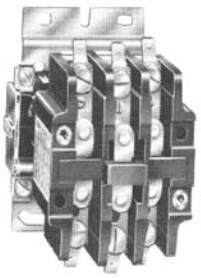
Arc Box — Molded of glass-filled thermosetting material, it withstands arc tracking and prevents flash-over.

Contacts — Made of silver-cadmium oxide that resists welding, arc erosion, and mechanical wear, these critical components are bonded to rugged backing material.

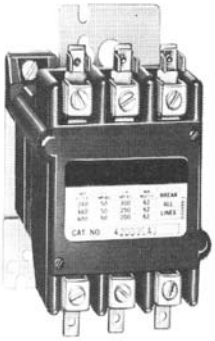
Coil — Encapsulated in a moisture-proof epoxy that resists mechanical, electrical, and thermal stresses, the coil also serves as a guide for the moving armature assembly. It is equipped with terminals having both pressure and quick-connectors. Connections may be made either by inserting the stripped wire under the screw head and tightening or by pressing on a quick-connector. Coils are available for all standard voltages and frequencies. They pull in with a maximum of 85% rated volts and drop out at approximatley 60% of rated volts.

Ratings —The ampere ratings shown in the table are for continuous duty on resistance heating loads.

Enclosure — Contactors are supplied in a NEMA type 1 General Purpose Enclosure. This enclousre protects personnel from accidental contact with electrical apparatus. It meets the needs of indoor applications in normal atmosphere free of excessive moisture, dust and explosive materials.



PC-403
PC-503



PC-603
PC-753



PC-933
PC-1123

Ratings

CATALOG NO.	VOLTS	POLES	AMPS/POLE
PC-403*	600	3	40
PC-503*	600	3	50
PC-603*	600	3	60
PC-753*	600	3	75
PC-933*	600	3	93
PC-1123*	600	3	112

UL Listed. All units complete with NEMA 1 enclosure.
*Coil Voltages add proper letter to Catalog No. as follows:
F-120V G-208/240V

Dimensions

MODEL NO.	NEMA 1 GENERAL PURPOSE ENCLOSURE			Contactor NO ENCLOSURE		
	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH
PC-403	8 5/8"	5"	4"	4"	2 1/2"	3 1/8"
PC-503	8 5/8"	5"	4"	4"	2 1/2"	3 1/8"
PC-603	10	6"	5"	4 1/2"	3 3/16"	3 7/8"
PC-753	12 3/4"	7 7/8"	5 3/4"	4 5/32"	2 9/16"	3 11/16"
PC-933	12 3/4"	7 7/8"	5 3/4"	5 1/4"	3 1/2"	4 3/8"
PC-1123	21 7/8"	11 5/8"	8"	5 1/4"	3 1/2"	4 3/8"

EASYHEAT®
US T. (800) 537-4732 / F. (888) 324-2440
CAN T. (800) 794-3766 / F. (800) 361-4574

EMERSON
Industrial Automation

©2008 Easy Heat