

48 Series - 15 Amp Contactor

4PST- N.O. Double Make



E13224

The 48 Series is a contactor with 4 Normally Open, Double Make Contacts rated up to 15 Amps or 3HP.

- It utilizes a solenoid type moving core design which generates high contact forces.
- The coil is encapsulated for complete protection.
- Screw Terminals are standard.
- Optional Auxiliary Switch - 15A @120 or 240VAC. (See other ratings below.)

GENERAL SPECIFICATIONS (@ 25° C)

Contacts:

Contact Configuration	4PST-NO - Double Make
Contact Material	Silver Alloy
Contact Rating	
120 / 240VAC Resistive	15 Amp
28VDC Resistive	15 Amp
Motor 120VAC 1 Phase	1Hp
Motor 240VAC 3 Phase	3Hp
Contact Resistance, Initial	50 milliohms max. @ 6VDC
Auxiliary Contact Ratings	
120 / 240 VAC	15 Amp
1/8 HP @ 120VAC, 1/4 HP @ 240 VAC	
1/2 HP @ 125VDC, 1/4 HP @ 240 VDC	

Coil:

Coils Available	AC and DC
Nominal Coil Power	AC: 22VA, DC: 10W
Input Voltage Tolerance - AC	85% to 110% of nominal
Input Voltage Tolerance - DC	80% to 110% of nominal
Drop-out voltage	10% of nominal or higher
Duty	Continuous

Timing:

Operate Time (max)	60 mS
Release Time (max)	30 mS

Dielectric Strength:

Across Open Contacts	2500Vrms
Between mutually insulated point	2500Vrms
Insulation resistance	1,000 Mohms min. @ 500VDC

Temperature:

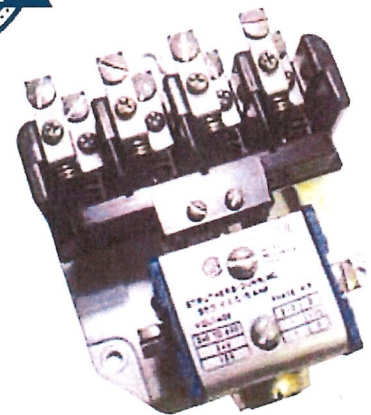
Operating	-40 to 50°C (-40 to 122°F)
Storage	-40 to 105°C (-40 to 221°F)

Life Expectancy:

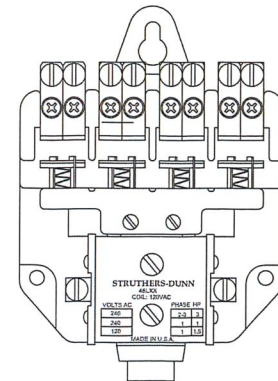
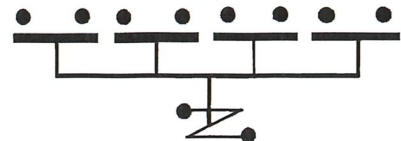
Electrical (full load)	100,000
Mechanical (no load)	5,000,000

Miscellaneous:

Mounting Position	Vertical - Contacts Up
Enclosure	Open
Weight	26.4 oz (748 grams)



48 Wire Diagram



UP



Mounting Position

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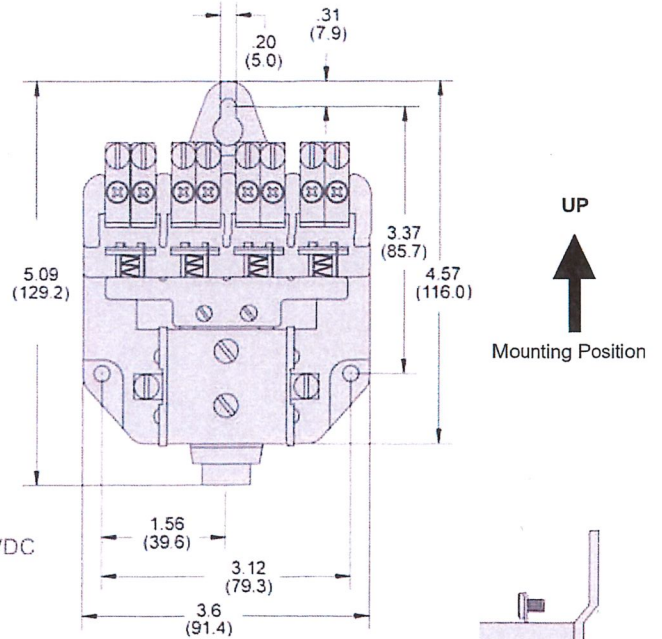
4PST- N.O. Double Make

ADDITIONAL CONTACT RATINGS

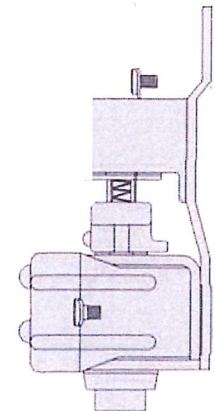
Volts	Phase	Resistance Amps	Motor HP
120VAC	1	15	1
208/240VAC	1	15	1.5
208/240VAC	2-3	15	3
480/600VAC	2-3	15	3
110/125VDC	-	15	-
230VDC	-	2	-
Auxiliary Contact			
120VAC	1	15	-
240VAC	1	5	-



Max Outline Dimensions
Dimensions Shown in inches & (millimeters)



*120VAC or 115-125VDC
†240VAC or 230VDC



Voltage	Coil Data		DC	
	AC, 50/60HZ	DC	mA	ohms
12	1.83	1.00	.72	16.5
24	.91	5.30	.41	58.2
120*	.18	92.0	.08	1450
240†	.92	420	.05	4200
440	.05	2100	-	-
550	.04	3100	-	-

Ordering Code 48 LXX 90 -120VAC

Series _____
48

Contact Arrangement _____
LXX- 4 poles - N.O., double make

Options _____
1 Form C Auxiliary contact - CODE 90 (snap switch)

Coil Voltage _____
AC: 12, 24, 120, 240, 440, 550 (Add VAC)
DC: 12, 24, 125, 230 (Add VDC)

Note:
Contactors must be mounted in a Vertical position with the Contacts up. Mounting screws (3) should be 10-32 thread (or Metric equivalent) and minimum 1/2" (12.7) long.