

545 Series - Screw Terminal Latching Contactor

4PST NO double make, 30 Amp

The 545 series is a three or four pole, double make, normally open, dual coil mechanical latch contactor rated up to 7.5 HP. It will hold its last energized position indefinitely without requiring any power itself. Contacts change state when the appropriate coil is energized. This makes the 545 series especially well suited to battery driven devices, and to any application where power consumption or coil heating must be minimized.

GENERAL SPECIFICATIONS (@ 25° C)

Contacts:

Contact Configuration	4PST-NO Double Make
Contact Material	Silver Alloy
Contact Rating	
120 / 240VAC Resistive	30 Amp
28VDC Resistive	30 Amp
Contact Resistance, Initial	100 milliohms max @ 6VDC

Coil:

Coils Available	AC and DC up to 600V
Nominal Coil Power	22VA 7W
Input Voltage Tolerance - AC	85% to 110% of nominal
Input Voltage Tolerance - DC	80% to 110% of nominal
Drop out voltage	10% of nominal
Duty	Continuous

Timing:

Operate Time (max)	100ms
Release Time (max)	50ms

Dielectric Strength:

Across Open Contacts	1000Vrms
Between Mutually Insulated Points	2500Vrms
Insulation Resistance	1,000 Megohms min @ 500VDC

Temperature:

Operating	-20 to 70°C (-4 to 158°F)
Storage	-40 to 105°C (-40 to 221°F)

Life Expectancy:

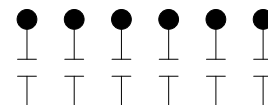
Electrical (full load operations)	100,000
Mechanical (no load operations)	500,000

Miscellaneous:

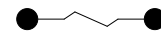
Mounting Position	Vertical, Contacts Up
Mating Socket	-
Enclosure	Open
Weight	31.5oz (800 grams)



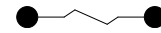
545 Wire Diagram
(Top View)



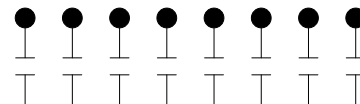
SET



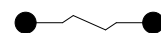
Reset



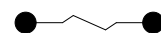
KXX (3PST - NO)



SET



Reset

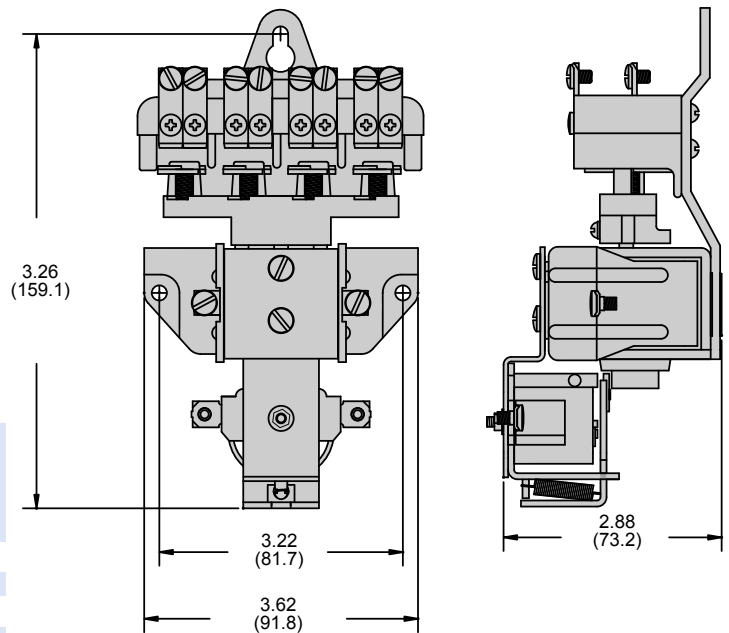


LXX (4PST - NO)

Latching / Sequencing Relays

10 - 100 Amp

Outline Dimensions
Dimensions Shown in inches & (millimeters)



Section 4

Contact Ratings

Load Contacts voltage (50/60HZ)	Phase	KXX (3 Pole)		LXX (4 Pole)	
		Resistive load (Amp)	Motor load (HP)	Resistive load (Amp)	Motor load (HP)
120	1	30	1.5	15	1
208/240	1	30	3	15	1.5*
208/240	2 - 3	15	7.5	15	3*
480/600	2 - 3	15	7.5	15	3

Load Contacts voltage (VDC)	Phase	KXX (3 Pole)		LXX (4 Pole)	
		Resistive load (Amp)	Motor load (HP)	Resistive load (Amp)	Motor load (HP)
115/125	-	15	-	15	-
230	-	2	-	2	-

Note: *AC coil is 120, 50/60HZ
**DC coils 115-125VDC



UP
Recommended
Mounting As
Shown - Contacts Up

Ordering Code 545 KXX -120VAC

Series
545

Contact Arrangement
KXX (3PST - N.O. - double make)
LXX (4PST - N.O. - double make)

Coil Voltage
AC: 12, 24, 120, 240, 440, 550 (Add VAC)
DC: 12, 24, 115-125, 240 (Add VDC)

Coil Specifications

AC Coil, 50/60HZ			DC Coil		
Nominal voltage	Resistance ohms ±10%	Nominal current (Amp)	Nominal voltage	Resistance ohms ±10%	Nominal current (Amp)
12	1	1.83	12	16.5	0.72
24	5.30	0.91	24	58.2	0.41
*120	92.0	0.18	**120	1450	0.08
240	420	0.92	240	4200	0.05
440	2100	0.05	-	-	-
550	3100	0.04	-	-	-

Note: *AC coil is 120, 50/60HZ
**DC coils 115-125VDC