

425 Series - 3Poles - Open Style Power Relay

10-30 Amp, 1-3 HP, 3PST - N.O. To 3PDT

The Series 425 Power Relay is capable of handling up to 30 Amp and 1HP to 3HP loads.

The 425 series (3 pole) has sufficient spacing to allow for 600VAC contact rating.

425XCX (3PDT) and the 425CXX (3PST-NO) are rated for loads up to 10A@ 600VAC and 25A up to 240VAC. 3HP@208-240VAC 425CXX and 425XXC are rated for 3Phase 208-240VAC

RU
E13224



The design features include:

- An enclosed coil, screw terminals, and Silver-Alloy contacts as standard.
 - Excellent wiping action of the moving contacts designed for industrial environments.
 - Contact ratings that include single-phase or 3-phase loads such as motors, solenoids, heaters and compressors.
 - A wide choice of options to choose from including Tungsten contacts for high inrush applications.
- For full list of optional features see page 2.

GENERAL SPECIFICATIONS (@ 25° C)

Contacts:

Contact Configuration	3PDT (Other Options Avail.)
Contact Material	Silver Alloy (Tungsten Avail.)
Contact Rating (per pole except 3 Phase)	
120 / 240VAC Resistive	25 Amp
28VDC Resistive	30 Amp
277VAC 1 Phase	17 Amp
600VAC 1 Phase	10 Amp
Motor 120VAC 1 Phase	1Hp
Motor 208-240VAC 3 Phase	3Hp
Auxiliary Switches up to 240VAC	10 Amps
Contact Resistance, Initial	50 milliohms max @ 6VDC

Coil:

Coils Available	AC and DC
Nominal Coil Power	11VA 4W
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)	30ms
Release Time (max)	15ms

Dielectric Strength:

Across Open Contacts	1500 VRMS
Between Mutally Insulated Points	2500 VRMS
Insulation Resistance	1000 megohms @ 500VDC

Temperature:

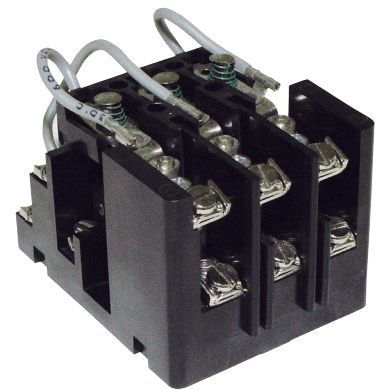
Operating	-55 to 45°C (-67 to 113°F)
Storage	-55 to 80°C (-67 to 176°F)

Life Expectancy:

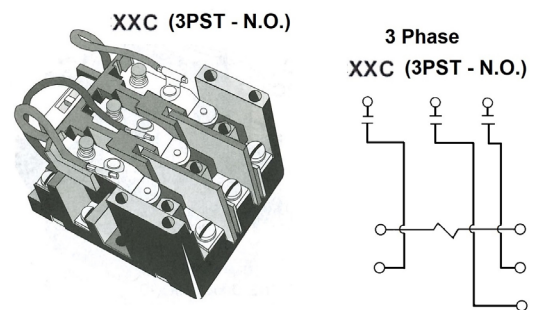
Electrical (full load operations)	100,000
Mechanical (no load operations)	10,000,000

Miscellaneous:

Mounting Position	Any
Enclosure	Open
Weight	9.0oz (250 grams)

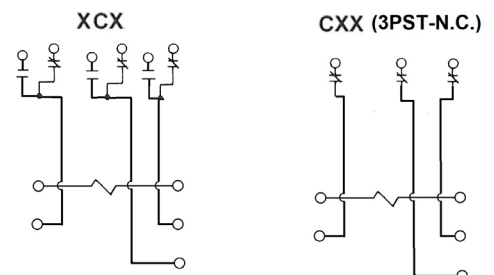


425 Wire Diagram



425 Wire Diagram (Top View)

(Viewed from front of relay.)



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10-30 Amp, 1-3 HP, 3PST - N.O. To 3PDT

Ordering Code **425** **XCX** **-120VAC**

Series
425

Contact Arrangement
CXX (3PST - N.O.)
XXC (3PST - N.C.)
XCX (3PDT)

Optional Features
Tungsten contacts (high inrush) - CODE W
0.25" Quick connect terminals - CODE 18
1 Auxiliary contacts each SPDT - CODE 90
2 Auxiliary contacts each SPDT - CODE 91
Coil Suppression Diode - CODE V
Half Wave Rectified Coil - CODE V2

Coil Voltage
AC: 6, 12, 24, 48, 120, 240 (Add VAC)
DC: 6, 12, 24, 48, 115-125 (Add VDC)

Contact Ratings

Load	30VDC	120-240VAC	277VAC	600VAC
General duty	30 Amp	25 Amp	17 Amp	10 Amp

Coil Specifications

AC Coil, 50/60HZ		DC Coil	
Nominal Voltage	Resistance ohms (±10%)	Nominal Voltage	Resistance ohms (±10%)
12	1.8	12	35.5
24	6.7	24	142
48	27	48	568
120	170	115/125	2980
240	680	-	-
480	2720	-	-

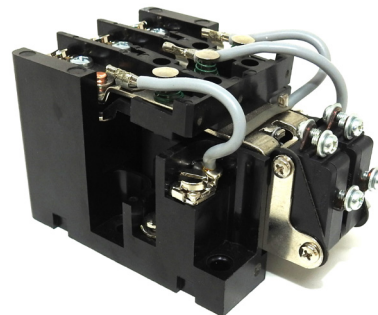
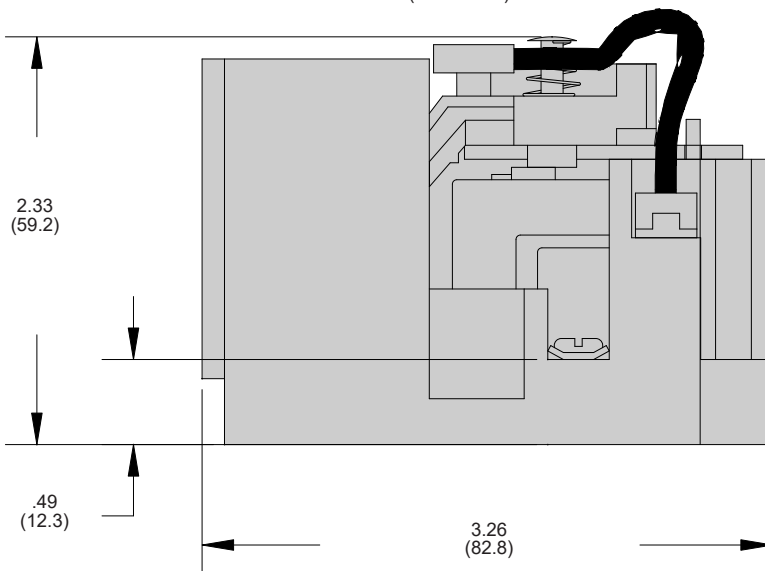
Coil Power Consumption: AC - 11VA, DC - 4.0W

** For 220 VDC use 3600 Ω, 10 Watt resistor in series with 110 VDC relay.



MAX Outline Dimensions

Dimensions shown in inches & (millimeters)



425XCX91 with 2 Auxiliary Switches

**Recommended Mounting Screw Size: 10-32

