

OPEN STYLE - 1 TO 3 POLE, 30 AMP POWER RELAY

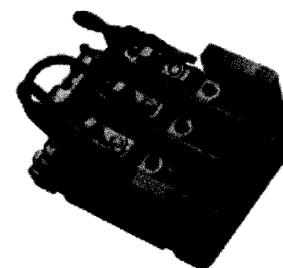
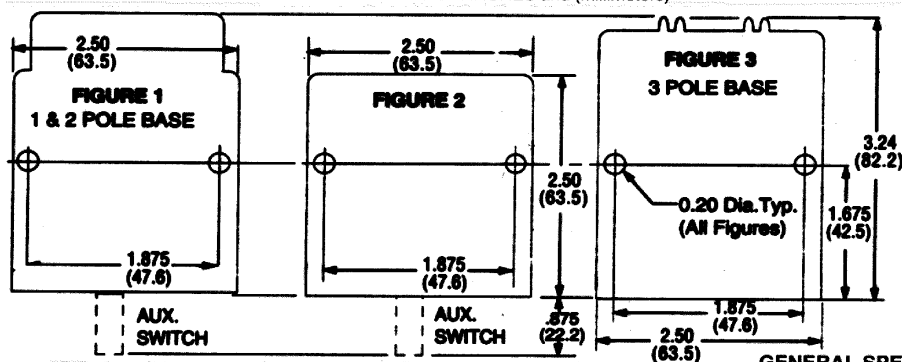
SERIES
425

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The series 425 Power relay is capable of handling up to 30 Amps and 1 Hp Loads. The Series 425 has sufficient spacing to allow for 600 Vac contact ratings. The Design features a enclosed coil, Screw Terminals and Silver Cadmium Oxide contacts as standard. The Series 425 has a wide choice of options to choose from.

OUTLINE DIMENSIONS

Dimensions shown are in INCHES and (millimeters)



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GENERAL SPECIFICATIONS

CONTACTS	Contact Material:	Silver Cadmium Oxide.
TIMING	Operate Time:	30 mS Max. @ Nominal Voltage.
	Release Time:	15 mS Max. @ Nominal Voltage.
INSULATION CHARACTERISTICS	Dielectric Strength	2500 V rms between Mutually insulated current carrying parts and those parts to ground.
	Insulation Resistance:	500 VDC Exceeds 1000 Megohms.
ENVIRONMENTAL CAPABILITIES	Ambient Temperature Rating:	AC: -55°C to +45°C @ Rated Operation. DC: -55°C to +80 °C
LIFE EXPECTANCY	Mechanical:	10 Million Operations no load
	Electrical:	100,000 Operations @ Rated Load.
MISCELLANEOUS	Enclosure:	Open Style
	Weight:	Small Base 9oz. large base 11 oz.approx.

CONTACT RATINGS 1 & 2 POLE

TYPE	LOAD	30VDC	120/240VAC	125VDC	600 VAC
Hot Armature (300V)	General Duty Motor (45% PF)	30A	30A 1 Hp	★	-
Insulated Armature (600V)	General Duty Motor (45% PF)	30A	30A 1 Hp	★	10A
★ Contact ratings for models with pm Blowout magnets (69)					
Contacts				125/DC	
NO				20A	
NC				20A	

3 POLE RELAY

Load	30/DC	120-240/AC	208-240/AC	277/AC	600/AC
General Duty					
Motor (45% PF)					

COIL SPECIFICATIONS 1 & 2 POLE RELAYS @ 25°C

Nominal Voltage	Resistance Ohms ± 10%		Current (MA)		Power Consumption	
	AC	DC	AC	DC	AC	DC
6	0.86	18	1600	333	9.8VA	2.0W
12	3.2	71	820	169	9.8VA	2.0W
24	12	288	410	84	9.8VA	2.0W
120 *	290	6050	85	18-21	9.8VA	2.0W
240 †	1200	-	43	-	9.8VA	-
480 **	4500	-	22	-	9.8VA	-

* AC Coil is 120V, 50/60Hz, DC Coil is 110-125VDC
 ** UL and CSA Listing only for insulated armature
 † For 220 VDC use 6000 Ω, 5 Watt resistor in series with 110 VDC relay.

COIL SPECIFICATIONS 3 POLE RELAYS @ 25°C

Nominal Voltage	Resistance Ohms ± 10%		Current (MA)		Power Consumption	
	AC	DC	AC	DC	AC	DC
12	1.8	35.5	1600	333	11VA	4.0W
24	6.7	142	820	169	11VA	4.0W
48	27	568	410	84	11VA	4.0W
120 *	170	2980	85	18-21	11VA	4.0W
240 **	680	-	43	-	11VA	-
480	2720	-	22	-	11VA	-

* AC Coil is 120V, 50/60Hz, DC Coil is 110-125VDC
 ** For 220 VDC use 3600 Ω, 10 Watt resistor in series with 110 VDC relay.

1, 2, and 3 Pole Relays

Min. Operate: AC: 85% of nominal Voltage or less @ 25°C
 DC: 75% of nominal Voltage or less @ 25°C
 Max. Over Voltage: 110% of nominal

ORDERING CODE

Typical Type No. **425 XBX 6990 -120A**

Series	425 Screw Terminal, 30A, 1-3 Pole
Contact Arrangements	
"Hot Armature Types 300V"	
AXX SPST-NO	FIG.2
XXA SPST-NC	FIG.2
XAX SPDT	FIG.2
HXX SPST-NO-DM	FIG.1
XHX SPDT-NC-DB	FIG.1
Insulated Armature Types (600V)	
XXH2 SPST-NC-DB	FIG.1
XHX2 SPDT-DB	FIG.1
HXX2 SPST-NO-DM	FIG.2
BXX DPST-NO	FIG.2
XXB, DPST-NC	FIG.1
XBX DPDT	FIG.1
CXX 3PST-NO	FIG.3
XCX 3PDT	FIG.3
Options	
Tungsten Contacts (High Inrush) - CODE W	
0.25 inch quick connect terminals- CODE 18	
Perm. Magnet Blowout	
(1 & 2 pole relays only) - CODE 69	
1 Aux. Contact (SPDT Snap Switch, 10A) - CODE 90	
2 Aux. Contact (SPDT Snap Switches, 10A) - CODE 91	
Coil Voltage	
AC:	6, 12, 24, 48, 120, 240, 480 (Add "A")
DC:	6, 12, 24, 48, 110 -125 (Add "D")