35 & 60 Series - Mercury Displacement Relay

Up to 3PST, 35 or 60 Amp



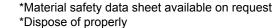


The 35 & 60 series products are mercury displacement relays. Sealed tubes containing liquid mercury assure contact surfaces are freshly replenished with every contact movement. Contact resistance is among the lowest available for any electromechanical relay. The M35 series offers superior long life performance. Products are available with 1, 2, or 3 poles rated 35 amps. Contacts can be normally open or normally closed.

Optional DIN rail adaptors – 1 pole = 16-MDRDIN-1, 2 or 3 pole = 16-MDRDIN-2/3

GENERAL SPECIFICATIONS (@ 25° C)							
Contacts:	35	60					
Contact Configuration Contact Material Contact Rating	Up to 3PST Liquid Mercury	Up to 3PST Liquid Mercury					
120 / 240VAC Resistive 28VDC Resistive Motor 120VAC 1 Phase Motor 240VAC 1 Phase Contact Resistance, Initial	35 Amp 35 Amp 5Hp 5Hp 50 milliohms max @ 6VDC	60 Amp 60 Amp 5Hp 10Hp 50 milliohms max @ 6VDC					
Coil:							
Coils Available Nominal Coil Power Input Voltage Tolerance - AC Input Voltage Tolerance - DC Drop-out voltge Duty	AC and DC 7 to 28VA 3 to 9W 85% to 110% of nominal 80% to 110% of nominal 10% of nominal Continuous	AC and DC 7 to 28VA 3 to 9W 85% to 110% of nominal 80% to 110% of nominal 10% of nominal Continuous					
Timing:							
Operate Time (max) Release Time (max)	50ms 80ms	50ms 80ms					
Dielectric Strength:							
Across Open Contacts Between Mutally Insulated Points Insulation Resistance	2650 VRMS 2650 VRMS 1000 megohms @ 500VAC	2650 VRMS 2650 VRMS 1000 megohms @ 500VAC					
Temperature:							
Operating Storage	-34 to 74°C (-30 to 165°F) -40 to 105°C (-40 to 221°F)	-34 to 74°C (-30 to 165°F) -40 to 105°C (-40 to 221°F)					
Life Expectancy:							
Electrical (full load operations) Mechanical (no load operations)	250,000 5,000,000	250,000 5,000,000					
Miscellaneous:							
Mounting Desition	Vartical within 10 degrees	Vartical within 10 degrees					

Mounting Position Vertical within 10 degrees Vertical within 10 degrees Hermetically Sealed Enclosure Hermetically Sealed Weight Varies Varies Recom'd Min. Wire Size for rated load #6 Copper #4 Copper Recom'd Min. Torque on Pwr. Terminals 36 in./lbs 50in./lbs





Power Relays

30 - 300 Amp

35 Series







60 Series



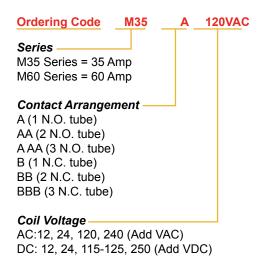




35 & 60 Series - Mercury Displacement Relay

Up to 3PST, 35 or 60 Amp

CAUTION: Overheating of power terminals may occur if wires are not tightened to minimum torque values resulting in catastrophic failure of the relay tube.



Contact Ratings for 35 Series

Voltage	Phase	HP 1Ø 3Ø	Motor Amp 1Ø 3Ø	Resistive Amp	Tungsten		
120VAC	1Ø 3Ø	3.0* 5.0*	34.0 30.0	35*	35*		
240VAC	1Ø 3Ø	5.0* 7.5*	28.0 19.0	35*	17		
480VAC	1Ø 3Ø	5.0* 10.0*	14.0 14.0	35*	9		
600VAC	1Ø 3Ø	5.0 * 10.0*	11.2 11.0	25**	7		
24VDC	DC	0.5	27.0	35*	35*		
48VDC	DC	0.5	13.5	35*	35*		
125VDC	DC	0.5	5.2	16*	16*		
250VDC	DC	0.5	2.6	12*	12*		

Contact Ratings for 60 Series

Voltage	Phase	HP 1Ø 3Ø	Motor Amp 1Ø 3Ø	Resistive Amp	Tungsten Amp Amp "A" (N.O.) "B" (N.C.)			
120VAC	1Ø 3Ø	3.0* 5.0*	34.0 30.0	60*	60* 45*			
240VAC	1Ø 3Ø	5.0* 10.0*	28.0 28.0	60*	30.0 22.5			
480VAC	1Ø 3Ø	7.5* 15.0*	21.0 21.0	60*	15.0 11.2			
600VAC	1Ø 3Ø	7.5 * 15.0*	16.0 17.0	50**	12.0 9.0			
24VDC	DC	0.75	39.0	60*	50.0* 50.0*			
48VDC	DC	0.75	19.5	60*	50.0* 50.0*			
125VDC	DC	0.75	7.4	40*	40.0* 40.0*			
250VDC	DC	0.75	3.7	20*	20.0* 20.0*			



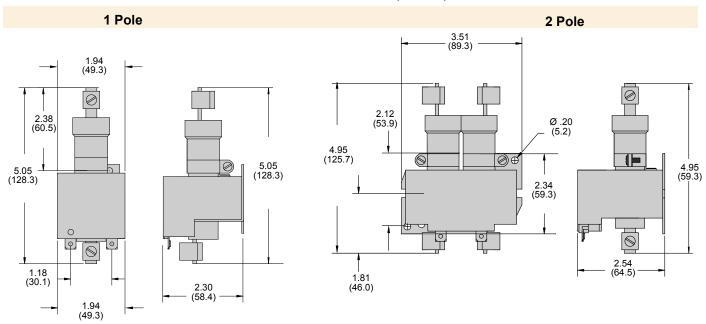
*UL & CSA Listed

Power Relays

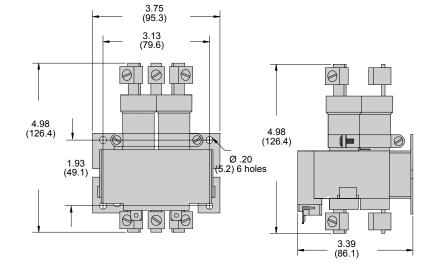
30 - 300 Amp

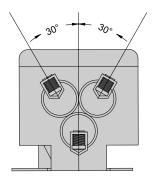
Outline Dimensions

Dimensions shown in inches & (millimeters)



3 Pole 3 Pole Top View





*Normally closed tubes (B style) sit lower in coil assemblies

