

General Specifications

Rev
D

Physical Data	Units	
Contact Arrangement		SPST-Latching
Form		P
Weight	Oz.	1.5

Environmental Data

Shock, 11ms ½ sine (operating)	g_{peak}	50
Vibration, 55-2000 Hz	g_{rms}	10
Altitude, maximum	ft.	80,000
Operating Ambient Temperature Range	°C	-55 to +85

Electrical Data

Rated Operating Voltage	Vdc	270
Load Polarity (Power Switching and Carry)		A2 (+); A1 (-)
Rated Resistive Load	Amps	15
Resistive Load Life	Cycles	5,000
Rated Overload Current	Amps	60
Arc Duration, nominal/maximum	msec	5/100
Overload Life	Cycles	50
Current Carry capability ¹		
Continuous	A	45
Contact Resistance, maximum	mΩ	10
Maximum Terminal Temperature	°C	200
Insulation Resistance @ 500 Vdc	MΩ	100

Dielectric Withstand Voltage @ Sea Level

Coil to Case	Vrms	500
All Other Points	Vrms	2,000

Mechanical Data

	Units	
Operate Time, maximum ²	ms	5
Contact Bounce ²	ms	3

Operate Time, Release Time, and Contact Bounce are measured with the relay stabilized at 25°C and operated with nominal coil voltage. Operate Time includes bounce.

 **Kilovac**
connectivity
550 Linden Ave.
Carpinteria, CA US 93013
Internet: www.te.com

TITLE

CONTACTOR, SPST-LATCHING

SD-

AP44P SERIES

CD

CUSTOMER DRAWING

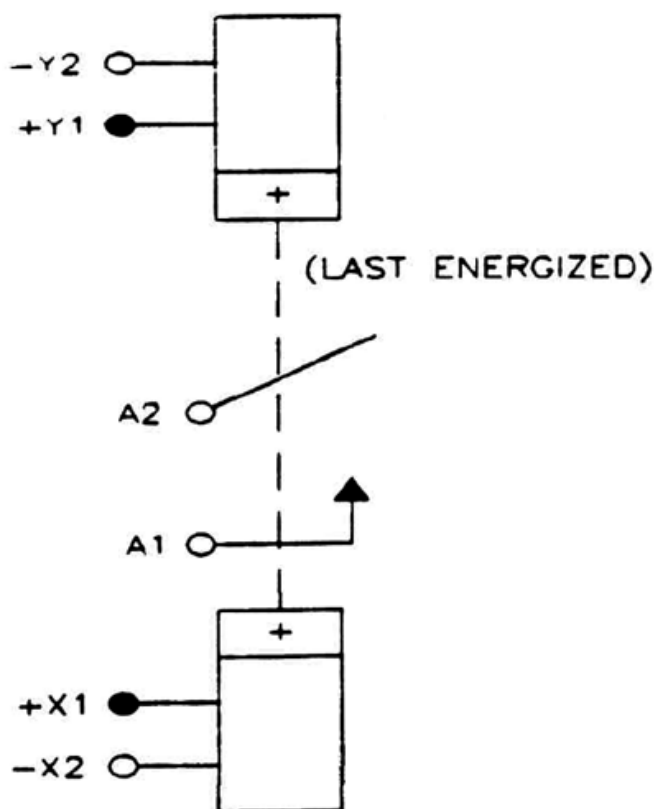
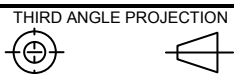
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NONE

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COIL DATA

Coil Voltage, nominal	Vdc	28
Maximum	Vdc	33
Coil Resistance $\pm 10\%^1$	Ω	80
Pickup Voltage, maximum	Vdc	22
Cont. Current Test, High Temp & Alt	Vdc	17
High Temperature, Cold Coil	Vdc	14
Room Temperature, Cold Coil	Vdc	14
Coil Pulse Width (On)		
Minimum	msec	5
Maximum	MSec	1000
Coil Duty Cycle, maximum	%	5

Schematic**CUSTOMER DRAWING****SD-****AP44P SERIES**

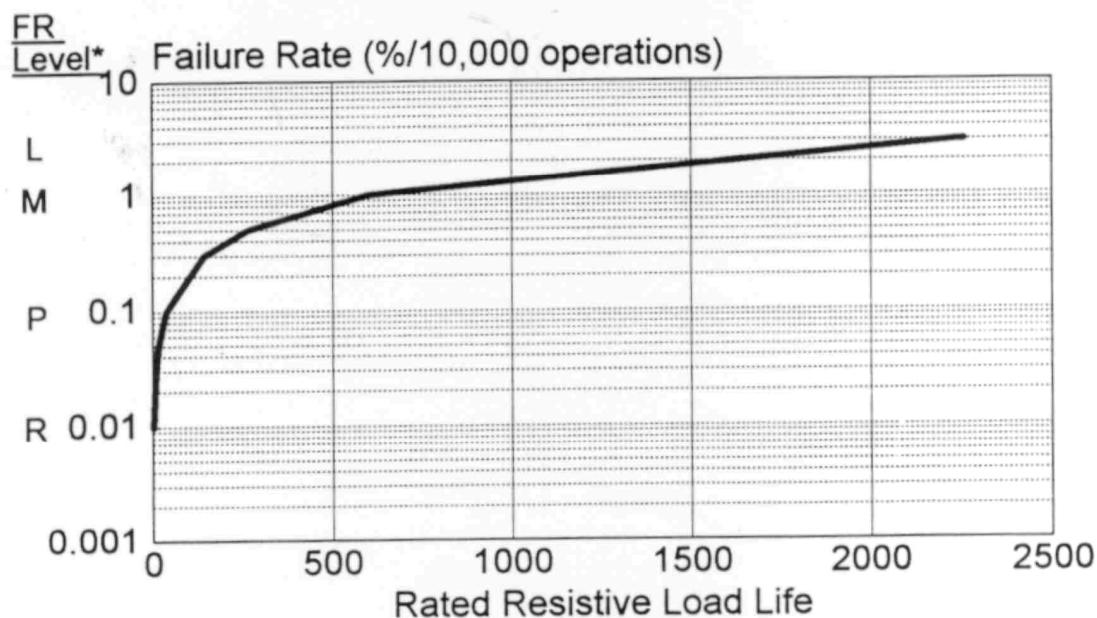
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Failure Rate vs. Rated Resistive Load Life at 15 A, 270 Vdc



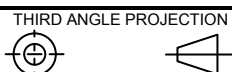
* Failure Rate letter designations per MIL-STD-690



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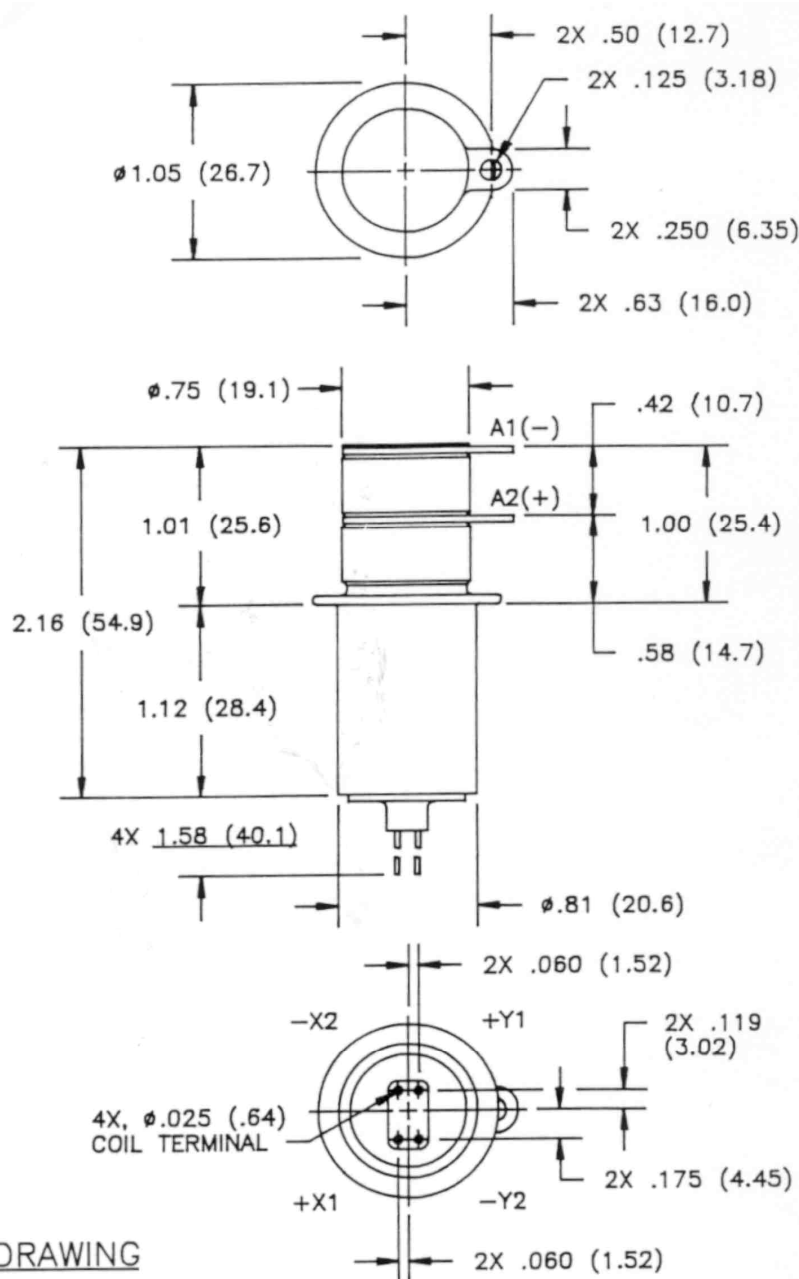


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Part Drawing**OUTLINE DRAWING****Dimensions in Inches**

(Dimensions in Parentheses are in Millimeters)

Tolerances Except as Noted

.xx = $\pm .03$.xxx = $\pm .010$ $\angle x^\circ = \pm 5^\circ$

DO NOT SCALE DWG.

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THIRD ANGLE PROJECTION

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Rev
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Revisions

REV.	DESCRIPTION	DATE	APP.	
A	Initial Release NPR 9162	94/01/20	RG	
B	Revised Pages 1 and 2 ECO 9443	95/06/06	SA	
C	New Template DCO 11856	99/12/14	PWK	
D	Change MAX V from 29 to 33 Vdc on sheet 3	05/09/12	AE	



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THIRD ANGLE PROJECTION



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