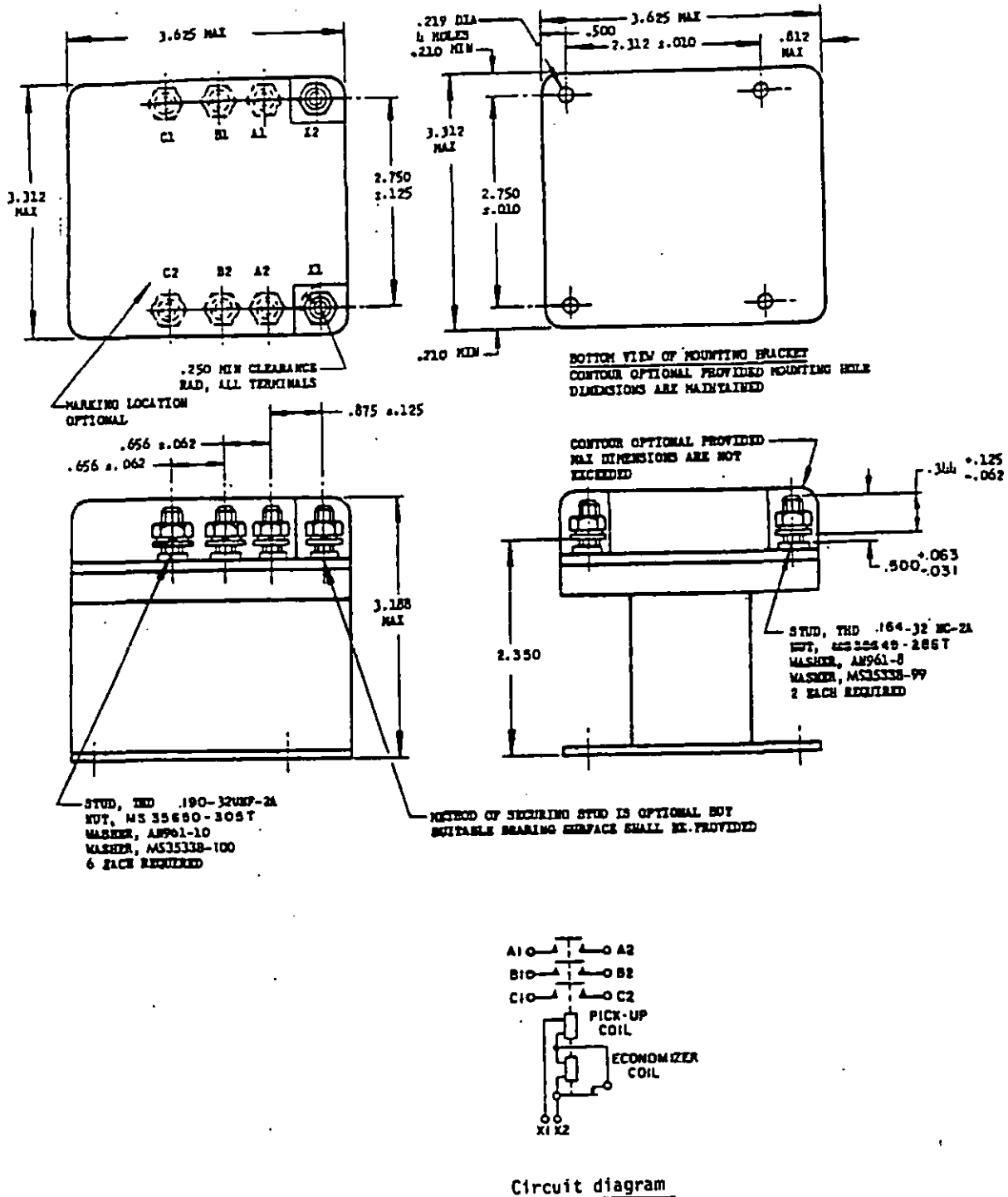


FED. SUP CLASS  
5945User activities: Army -  
Navy -  
Air Force -Review activities: Army -  
Navy - AS, EC  
Air Force - 99, 11

Military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications for repetitive use shall be made from this document when applicable.



⑥ ENTIRE STANDARD REVISED

P.A. AF-85	International Interest	TITLE RELAY ELECTROMAGNETIC, 50 AMPERES, 3 PST. N.O. TYPE II, NON - HERMETICALLY SEALED	MILITARY STANDARD
Other Cust NAVY-AS	-		MS24193
Procurement Specification MIL-R-6106		SUPERSEDES: AN 3341	PAGE 1 OF 5

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APPROVED 26 SEPT 1957 REVISED ⑥ 17 JUNE 68

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5945User activities: Army -  
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Navy - AS, EC  
Air Force - 99, 11

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Inches	mm	Inches	mm	Inches	mm
.010	.25	.210	5.33	.875	22.23
.031	.79	.219	5.56	2.350	59.69
.062	1.57	.250	6.35	2.750	69.85
.063	1.60	.344	8.74	3.188	80.98
.125	3.18	.500	12.70	3.312	84.12
.164	4.17	.656	16.66	3.625	92.08
.190	4.83	.812	20.62		

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are  $\pm .031$  (0.79 mm).
4. Additional flat washer may be used for terminal seat.
5. Terminal covers and barriers required at power terminals.
6. Part number MS24193-D1 replaces number AN3341-1.
7. In the event of a conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.
8. Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation form a part of this standard to the extent specified herein.

TABLE I. Dash numbers and characteristics.

Dash number MS 24193 -	Type	Coil	Terminal type	Mounting or mating socket	Max weight in pounds
D1	II	dc	Stud	Plate	1.6

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## TITLE

RELAY ELECTROMAGNETIC, 50 AMPERES, 3 PST,  
N.O. TYPE II, NON - HERMETICALLY SEALED

MILITARY STANDARD

MS24193

Procurement Specification  
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SUPERSEDES: AN3341

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TABLE II. Operating Characteristics.

MS part no.		Coil data										Time (milliseconds-maximum)			
		Coil	Nominal		Max		Max pick-up voltage			Hold voltage $\frac{2}{\text{---}}$	Drop out voltage $\frac{2}{\text{---}}$	Operate $\frac{3}{\text{---}}$	Release $\frac{4}{\text{---}}$	Bounce $\frac{5}{\text{---}}$	
			Volts $\frac{1}{\text{---}}$	Freq. Hz	Reson $\pm 10\%$ 25 °C	Volts	Amperes	Normal $\frac{2}{\text{---}}$	Hign temp test					Cont. current test	Main
D1	X1, X2	28	dc	In- rush state 13.5/71.5	29	In- rush state 2.4/.45	18	21	22.5	7.0	1.5	20	15	4	

1/ CAUTION: Use of any coil voltage less than nominal coil voltage will compromise the operation of the relay.  
2/ Over the temperature range.  
3/ With nominal coil voltage.  
4/ From nominal coil voltage.  
5/ Bounce time after life test 6 ms.

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1/ Absence of value indicates relay is not rated for 3 phase applications.  
2/ Transfer load indicates relay suitable for transfer between unsynchronized ac power supplies at rating indicated.

TABLE III. Rated contact load (amperes per pole) case grounded.

Type of load	Life operating cycles X 10 <sup>3</sup>	28 V dc			115 V ac, 1 phase			115/200 V ac, 3 phase 1/			See appropriate notes
		Main		Aux	Main		Aux	Main		Aux	
		NO	NC	NO NC	400 Hz	60 Hz	400 Hz	60 Hz	400 Hz	60 Hz	
Resistive	50	50			50				50		
Inductive	10	50			50				50		
Inductive											
Motor	50	50			50				50		
Lamp											
Transfer load											2/
Mechanical life reduced current	100	12.5			12.5				12.5		
Intermediate current	50	5			5				5		

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Interim Name  
Interim

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