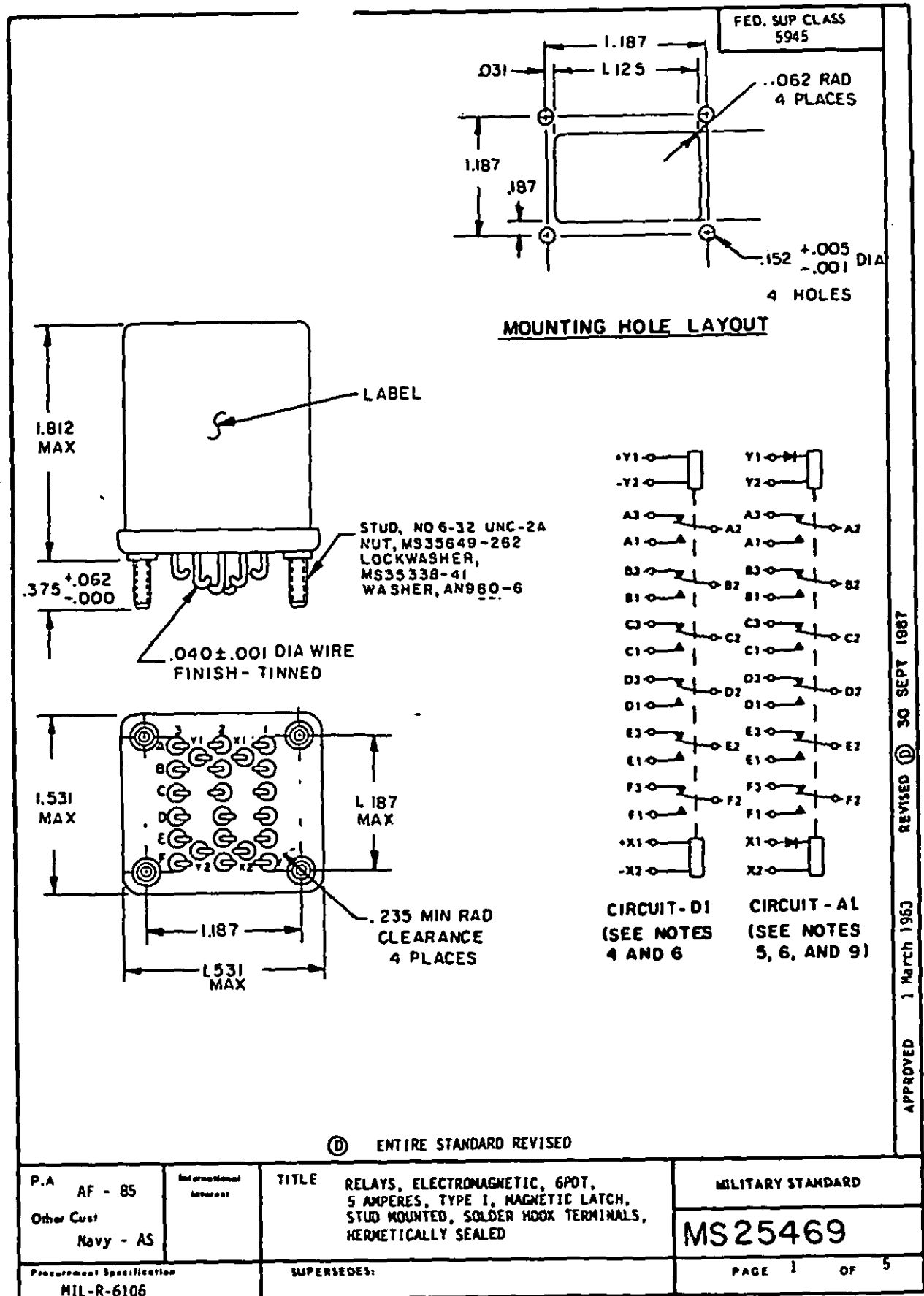


User activities:
Army -
Navy -
Air Force -

Review activities:
Army -
Navy - EC
Air Force - 11, 99

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APPROVED 1 March 1963 REVISED 30 SEPT 1987

DD FORM 672
1 MAY 73
AMSC N/A

(Coordinated) previous editions of this form are obsolete.

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

5945-0767-04

FED. SUP CLASS
5945

Inches	mm	Inches	mm
.001	0.03	.375	9.53
.005	0.13	.812	20.62
.031	0.79	1.125	28.58
.040	1.02	1.187	30.15
.062	1.57	1.531	38.89
.138	3.51	1.812	46.02
.152	3.86		
.235	5.95		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± 0.010 (0.25 mm).
4. Caution note to observe polarity must appear on relays with dc coils.
5. The use of diodes on ac relays is optional. Actual application must be shown on label.
6. Relay is magnetically latched in both positions.
7. Shock, vibration, and acceleration requirement applicable with coils de-energized.
8. Terminal numbers shall not appear on relay header. There shall be affixed to the relay a suitable legible circuit diagram that permanently and positively identifies each terminal location specified herein.
8. Pins to be perpendicular to header surface within one degree.
9. MS25469-A1 is inactive for new design.
10. 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.
11. 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. 1/

Dash number	Type	Coil	Terminal type	Mounting or mating socket	Auxiliary contacts	Max weight in pounds
MS25469-						
01	I	dc	Solder hook	Stud	None	0.37
A1 2/	I	ac	Solder hook	Stud	None	0.38

1/ MS25469-A01 cancelled without replacement.

2/ MS25469-A1 inactive for new design.

P.A. AF - 85 Other Cust Navy - AS	International Interest	TITLE RELAYS, ELECTROMAGNETIC, 6PDT, 5 AMPERES, TYPE I, MAGNETIC LATCH, STUD MOUNTED, SOLDER HOOK TERMINALS, HERMETICALLY SEALED	MILITARY STANDARD
Procurement Specification MIL-R-6106		SUPERSEDES:	MS25469
			PAGE 2 OF 5

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TABLE 11. Operating characteristics.

INS part no. MS25469-	Coil data										Time - (milliseconds maximum)			
	Coil	Nominal	Max	Max pick-up voltage				Operate 3/ 4/	Release	Contact bounce				
				Volts 1/ Hz	Freq. Hz	Res Ω	Volts High temp test			Amperes 2/ test	Cont temp test	Cont current test	Main	Aux
D1	X1, X2 Y1, Y2	28	dc	29	18	18	19.8	25	N/A	2	2	NO	NC	NC
A1 6/	X1, X2 Y1, Y2	115	1400 5/	122	90	90	95	25	N/A	2	2	NO	NC	NC

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/ MS25469-A1 may be used on 60 Hz if maximum ambient temperature is limited to +85°C, maximum current coil will be 0.077 ampere.

6/ MS25469 - A1 is inactive for new design.

P.A.
AF - 85
Other Cust
Navy - ASInternational
IndirectTITLE RELAYS, ELECTROMAGNETIC, 6PDT,
5 AMPERES, TYPE I, MAGNETIC LATCH,
STUD MOUNTED, SOLDER HOOK TERMINALS,
HERMETICALLY SEALED

MILITARY STANDARD

MS25469

Procurement Specification
MIL-R-6106

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User activities: Army -
Navy -
Air Force -

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

Type of load	Life operating cycles X 10 ³	28 V dc		115 V ac, 1 phase		115/200 V ac, 3 phase 1/			See appropriate notes
		Main	Aux	Main	Aux	Main	Aux	Aux	
		NO	NC	NO	NC	400 Hz	160 Hz	400 Hz 160 Hz	
Resistive	100	5	5	5	4				
Inductive	100								
Inductive	20	3	3	3	2				
Motor	100	1.5	1.5	1.5	1				
Lamp	100	0.8	2	0.8	0.6				
Transfer load									2/
Mechanical life reduced current	400	1.25	1.25	1.25	1				
Intmd current		Applicable per specification							

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.

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P.A.
AF - 85
Other Cust
Navy - AS

International
Interest

TITLE
RELAYS, ELECTROMAGNETIC, 6PDT
5 AMPERES, TYPE 1, MAGNETIC LATCH,
STUD MOUNTED, SOLDER HOOK TERMINALS,
HERMETICALLY SEALED.

MILITARY STANDARD

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Procurement Specification
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SUPERSEDES:

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APPROVED 1 March 1963 REVISED ① ENTIRE STANDARD REVISED

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Review activities: Army - EC
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User activities: Army -
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Environmental characteristics

Temperature range -70°C to +125°C
Max altitude rating 80,000 ft
Shock G-level 50 g's
Duration 11 ms
Max duration contact opening 10 μs
Vibration - Sinusoidal
G-level 10 g's
Frequency range 5 - 1,500 Hz
Acceleration 15 g's

Quality conformance inspection

Performance of groups B and C tests are not applicable to MS25469-A1.

Electrical characteristics

Insulation resistance, initial 100 megohms
After life or environmental tests 50 megohms
Dielectric strength (sea level)

	Initial	After life tests
Coil to case	1,000 V rms	1,000 V rms
Aux contacts		
All other points	1,000 V rms	1,000 V rms

Dielectric strength (altitude)

Coil to case	80,000 ft 250 V rms
Aux contacts	
All other points	250 V rms

Max contact drop initial 0.150 volt
After life test 0.175 volt
Overload current 20 amperes
Rupture current 25 amperes
Duty rating Continuous
RFI specification MIL-STD-461
(Applicable to coil circuits of ac operated relays)

P.A. AF - 85
Other Cust Navy - AS

Informational
Intentional

TITLE RELAYS, ELECTROMAGNETIC, 6PDT
5 AMPERES, TYPE 1, MAGNETIC LATCH,
STUD MOUNTED, SOLDER HOOK TERMINALS,
HERMETICALLY SEALED.

MILITARY STANDARD

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