ENGINEERING DATA SHEET

SERIES 9123

CONTACTOR 3 PST/NO, 25 AMP



Balanced armature design

Hermetically sealed

Contact arrangement 3 PST/NO

Designed to the

performance standards of MIL-PRF-6106

PRINCIPLE TECHNICAL CHARACTERISTICS

Contacts rated at 28 Vdc; 115 Vac, 400 Hz, 1Ø

115/200 Vac, 400 Hz, 3Ø

Weight 1.25 lb max

Dimensions 3.31in x 3.73in x 2.44in

Special units available upon request, including models with auxiliary contacts.

APPLICATION NOTES:

<u>101</u>

<u>102</u>

<u>103F</u>

007

CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole and load type [1]	Load current in Amps					
	28 Vdc	115 Vac 400 Hz	115/200 Vac 400 Hz 3Ø	115 Vac 60 Hz [5]	440 Vac 60 Hz [5] DELTA	
Resistive Inductive [6] Motor	25 25 25	25 25 25	25 25 25	15 15 7	12.5 12.5 10	
Intermediate current	2.5	2.5	2.5	-	-	



Featuring **LEACH**[©] power and control solutions www.esterline.com

AMERICAS 6900 Orangethorpe Ave. P.O. Box 5032 Buena Park, CA 90622

EUROPE
2 Rue Goethe
57430 Sarralbe
France

ASIA Units 602-603 6/F Lakeside 1 No.8 Science Park West Avenue

Phase Two, Hong Kong Science Park Pak Shek Kok, Tai Po, N.T.

Hong Kong

Tel: (01) 714-736-7599 Tel: (33) Fax: (01) 714-670-1145 Fax: (33)

Tel: (33) 3 87 97 31 01 Tel: (852) 2 191 3830 Fax: (33) 3 87 97 96 86 Fax: (852) 2 389 5803

Data sheets are for initial product selection and comparison. Contact Esterline Power Systems prior to choosing a component.

CODE	Vdc	115 Vac 60/400 Hz	Suppressed Vdc [2]
Nominal operating voltage		115	28
Maximum operating voltage	29	124	29
Pick-up voltage, max.	,	,	,
- Nominal	18	90	18
- High temp test	21	100	21
- Continuous current test	22.5	104	22.5
Drop-out voltage, max.	7	40	7
Coil resistance ohms ±10% at +25° C	50	-	50
Coil current max. mA at +25° C		200	-

GENERAL CHARACTERISTICS

Temperature range	-70°C to +125°C
Minimum operating cycles (life) at rated load	50,000
Minimum operating cycles (life) at 25% rated load	100,000
Dielectric strength at sea level	
- Coil to case	DC 1,250 Vrms AC 1,500 Vrms
- Auxiliary contacts	DC 1,250 Vrms AC 1,500 Vrms
- All other points	DC 1,250 Vrms AC 1,800 Vrms
Dielectric strength at altitude 80,000 ft	700 Vrms (Coil 500 Vrms)
Insulation resistance (at 500 Vdc) minimum	100 M Ω min
Sinusoidal vibration (55-1500 Hz)	15G
Shock (6-9 millisecond duration)	50G
Maximum contact opening time under shock or vibration	2 ms
Operate time at nominal voltage	
- DC	25 ms max
- AC	30 ms max
Release time at nominal voltage	·
- DC	10 ms max
- AC	50 ms max
Contact bounce at nominal voltage	2 ms max [1]
Weight, max.	1.25 lb

Date of issue: 01/07 - 2 - Page 2 of 5

LEACH PART NO.	DESCRIPTION	MS NUMBER	MOUNTING STYLE [4]	SCHEMATIC DIAGRAM [4]
9123-C7C4-002	3 PST/NO, 25 AMP, DC COIL	MS27997-D1	1	1
9123-C7D3-002	3 PST/NO, 25 AMP, AC COIL	MS27997-A1	1	1
9123-1Z-C7C4-002	3 PST/NO, 25 AMP, DC COIL, AUX CONTACT	MS27997-D2	1	2
9123-1Z-C7D3-002	3 PST/NO, 25 AMP, AC COIL, AUX CONTACT	MS27997-A2	1	2
9123-8069	3 PST/NO, 25 AMP, DC COIL	MS24143-D1 [3]	2	1
9123-8070	3 PST/NO, 25 AMP, AC COIL	MS24143-A1 [3]	2	1
9123-8071	3 PST/NO, 25 AMP, DC COIL, AUX CONTACT	MS24143-D2 [3]	2	2
9123-8072	3 PST/NO, 25 AMP, AC COIL, AUX CONTACT	MS24143-A2 [3]	2	2
9123-10394	3 PST/NO, 25 AMP, DC SUPPRESSED COIL	-	1	3
9123-10395	3 PST/NO, 25 AMP, DC SUPPRESSED COIL, AUX CONTACT	-	1	4
9123-10396	3 PST/NO, 25 AMP, DC SUPPRESSED COIL	-	2	3
9123-10397	3 PST/NO, 25 AMP, DC SUPPRESSED COIL, AUX CONTACT	-	2	4

NOTES

[1] Auxiliary contact rating:

Resistive and inductive: (28 Vdc or 115 Vac) 5 Amp

Lamp: (28 Vdc or 115 Vac) 1 Amp Bounce at nominal voltage: .004 sec max

[2] Coils have back EMF suppression to 42 volts.

[3] MS numbers are for reference only. Relays are electrically and mechanically interchangeable except the height is less on the

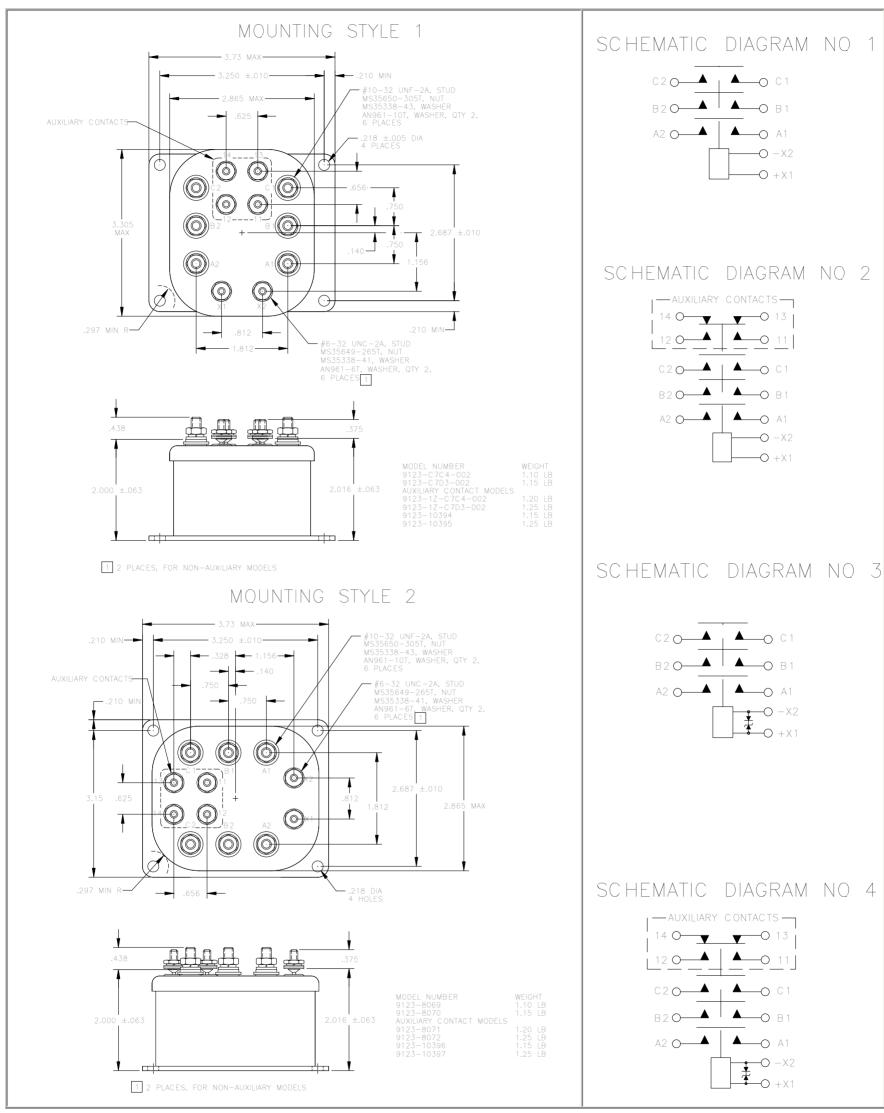
Leach relays similar to MS24143.

[4] See the following pages for mounting styles and schematic diagram.

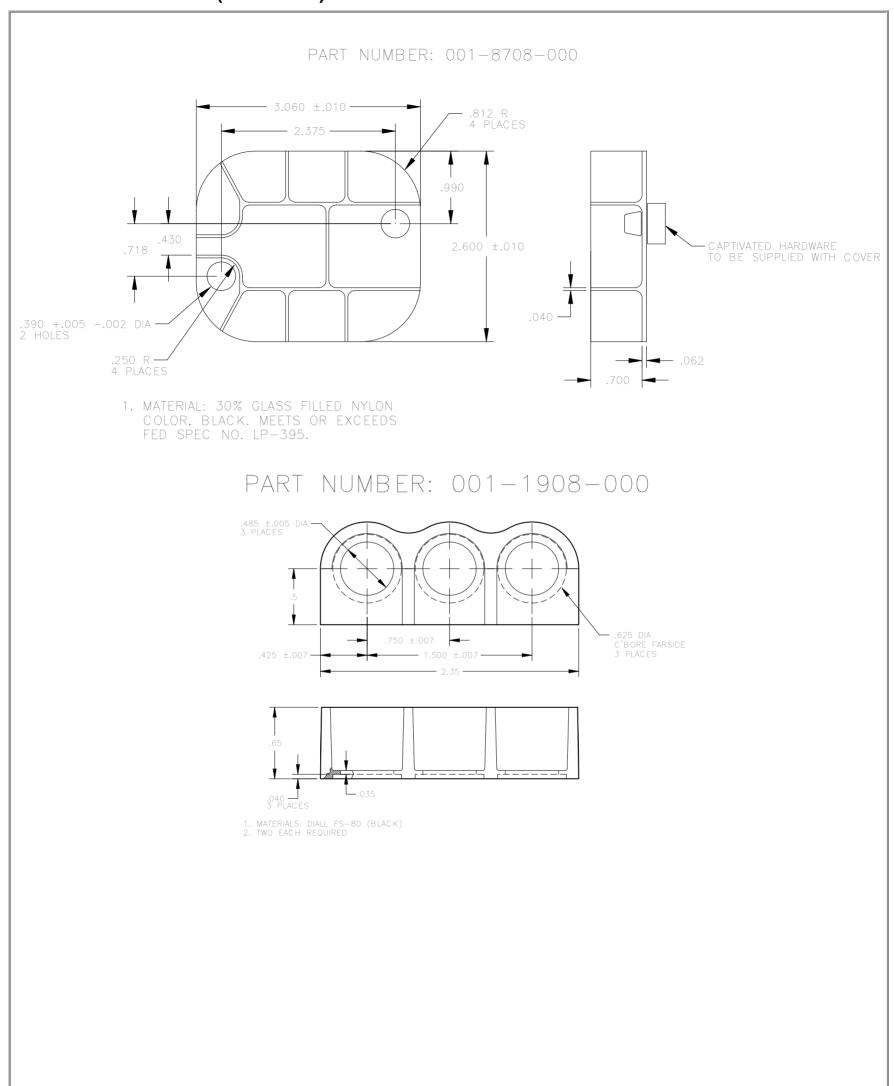
[5] Ratings beyond MS requirements.

[6] Inductive life is 20 percent of rated resistive load life.

CONFIGURATION SERIES 9123



STANDARD. TOLERANCE: ± .031



Date of issue: 01/07 - 5 - Page 5 of 5