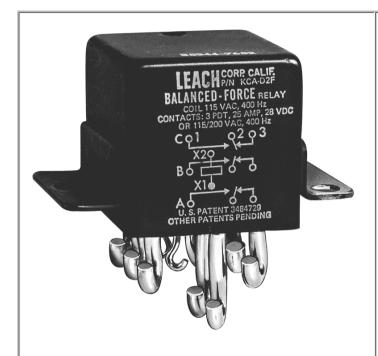
SERIES KCA

ENGINEERING DATA SHEET

RELAY - NONLATCH - AC COIL 3 PDT, 25 AMP



All welded construction

Contact arrangement 3 PDT

Designed to the

performance standards of MIL-PRF-6106

PRINCIPLE TECHNICAL CHARACTERISTICS

Contacts rated at Low level, 28 Vdc; 115

Vac, 400 Hz, 1Ø and 115/200 Vac, 400 Hz, 3Ø

Weight 0.188lb max

Dimensions 1.01in x 1.01in x 1.00in

Hermetically sealed, corrosion resistant metal can.

Detail specifications and ordering data appear on the following pages.

APPLICATION NOTES:

<u>102</u>

<u>007</u>

APPLICABLE SOCKET:

SO-1062-8917

SO-1057-8912 (D-MOUNT)

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	@115/200 Vac 60 Hz, 3Ø [7]	@230/400 Vac 400 Hz, 3Ø [8]		
Resistive [3]	25	25	25	2.5	5		
Inductive [2]	12	15	15	2.5	5		
Motor	10	10	10	2	2		
Lamp	5	5	5	1	2		
Overload	50	80	80	N/A	N/A		
Rupture	60	100	100	N/A	N/A		



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

AMERICAS EUROPE ASIA 6900 Orangethorpe Ave. 2 Rue Goethe Units

P.O. Box 5032 57430 Sarralbe
Buena Park, CA 90622 France

Units 602-603 6/F Lakeside 1
No.8 Science Park West Avenue
Phase Two, Hong Kong Science Park
Park Shok Kok, Tai Pa, N.T.

Pak Shek Kok, Tai Po, N.T.

Hong Kong
Tel: (01) 714-736-7599 Tel: (33) 3 87 97 31 01 Tel: (852) 2

Fax: (33) 3 87 97 96 86

Tel: (852) 2 191 3830 Fax: (852) 2 389 5803

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

Date of issue: 07/10 - 154 - Page 1 of 4

Fax: (01) 714-670-1145

SERIES KCA

	Vac 400 Hz		Vac 50 thru 400 Hz		Vac 400 Hz
CODE	E	F	J	K	T
Nominal operating voltage	28	115	28	115	230
Maximum operating voltage	30	122	30	122	248
Maximum pickup voltage	,	,	,	,	,
- Cold coil at +125° C	22	90	23	95	180
- During high temp test at +125° C	24.4	95.4	24.6	100	185
- During continuous current test at +125° C	25.6	103.5	25.9	105	195
Maximum drop-out voltage	10	30	10	30	60
Coil current maximum milliAmperes at +25° C	225	40	120	28	22

GENERAL CHARACTERISTICS

Temperature range	-70°C to +125°C					
Minimum operating cycles (life) at rated load	50,000 [2]					
Minimum operating cycles (life) at 25% rated load	200,000					
Dielectric strength at sea level						
- All circuits to ground and circuit to circuit	1250 Vrms					
- Coil to ground	1000 Vrms					
Dielectric strength at altitude 80,000 ft	500 Vrms [4]					
Insulation resistance						
- Initial (500 Vdc)	100 M Ω min					
- After environmental tests (500 Vdc)	50 M Ω min					
Sinusoidal vibration (A, D, E and W mounting)	0.12DA / 10 to 70 Hz 30G / 70 to 3000 Hz					
Sinusoidal vibration (J mounting)	0.12DA / 10 to 57 Hz 20G /57 to 3000 Hz					
Random vibration						
- Applicable specification	MIL-STD-202					
- Method	214					
- Test condition - A, D and E mounting	1G (0.4G ² /Hz, 50 to 2000 Hz)					
- Test condition - G and J mounting	1E (0.2G ² /Hz, 50 to 2000 Hz)					
- Duration	15 minutes each plane					
Shock (A, D, E and W mounting)	200G / 6 ms					
Shock (G and J mounting)	100G / 6 ms					
Maximum contact opening time under vibration and shock	10 μs					
Operate time at nominal voltage@25°C	20 ms max					
Release time at nominal voltage@25°C	50 ms max					
Contact make bounce at nominal voltage@25°C	1 ms max					
Contact release break bounce at nominal voltage@25°C	0.1 ms max					
Weight maximum	0.188lb					

Unless otherwise noted, the specified temperature range applies to all relay characteristics.

Date of issue: 0710 - 155 - Page 2 of 4

NOTES SERIES KCA

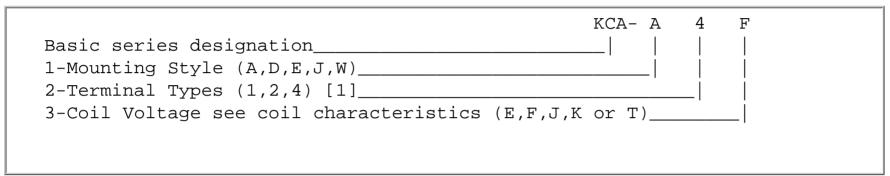
- [1] Standard Intermediate current test applicable.
- [2] DC inductive load 10,000 cycles, AC inductive load 20,000 cycles.
- [3] For full rated load, max. temp. and altitude use no. 12 wire or larger. Relays to be mounted to limit mounting bracket temp. to 135° C.
- [4] 500 Vrms with silicone gasket compressed, 350 Vrms all other conditions.
- 5. Reference military specification: MIL-PRF-6106 and MS27743.
- 6. Special models available upon request.
- [7] 60 Hz load life 10,000 cycles.
- [8] Temperature range:

Non-operating -62° C to +95° C

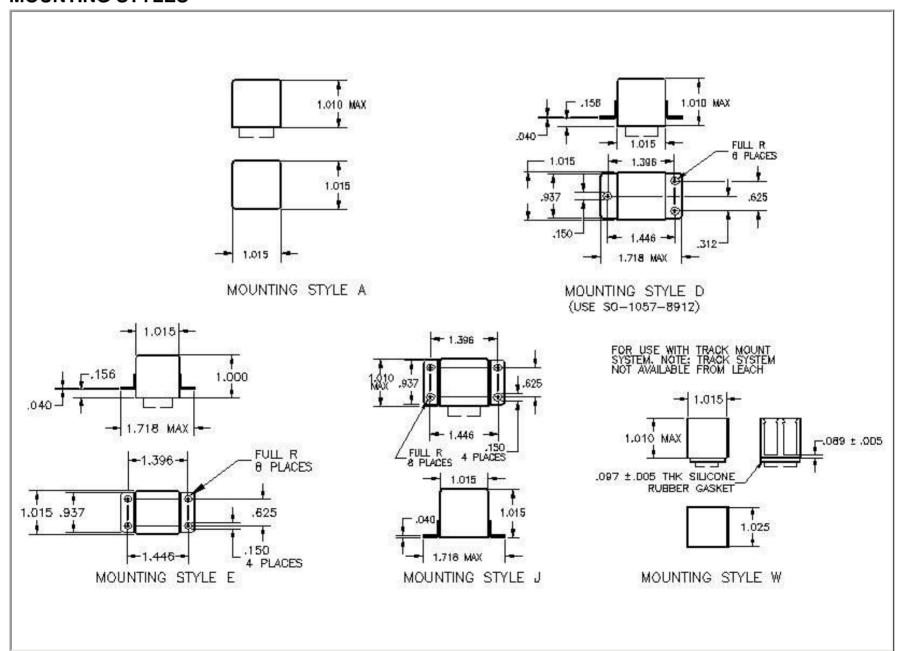
Operating -54° C to +71° C

9. Time current relay characteristics per MIL-PRF-6106.

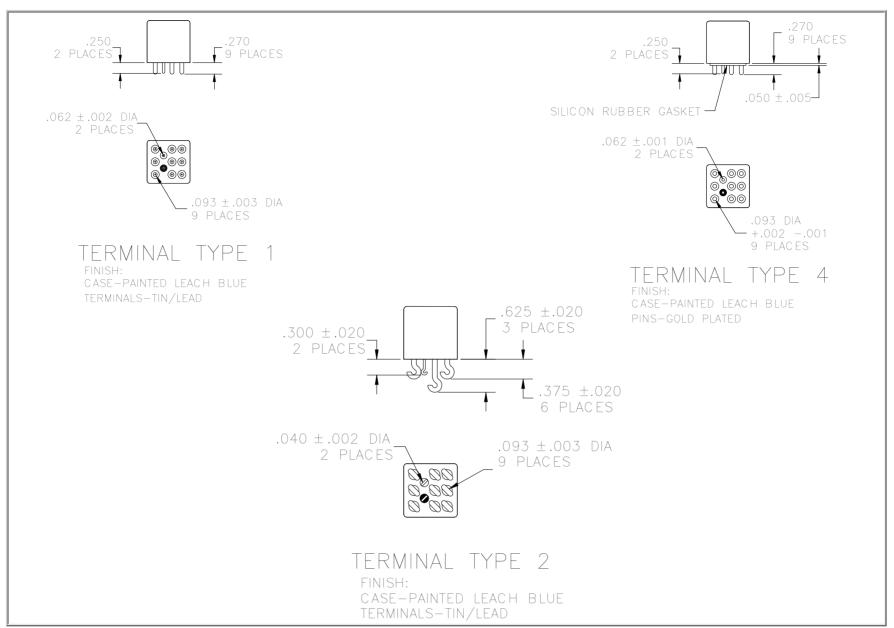
NUMBERING SYSTEM

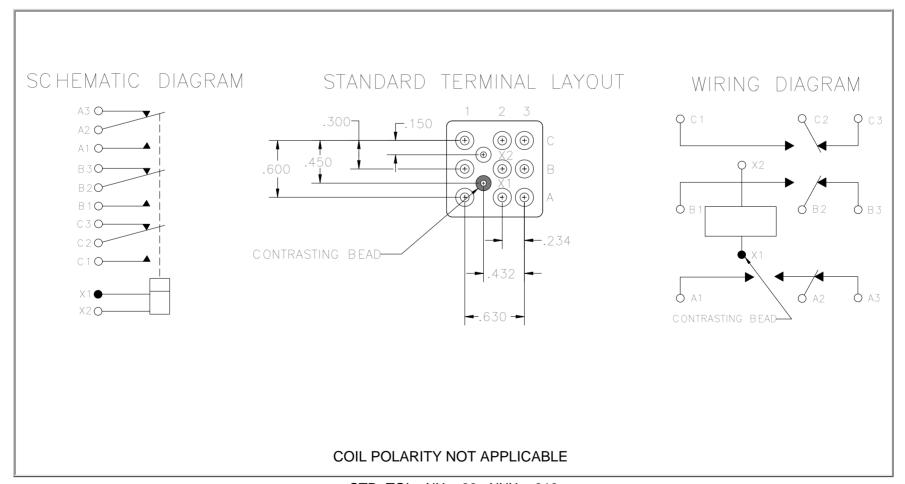


MOUNTING STYLES



TERMINAL TYPES SERIES KCA





STD. TOL: .XX ±.03; .XXX ±.010