

Ratings
 ERS—DPDT, 2 form C contacts,
 2 amp @ 28VDC
 S—DPDT, 2 form C contacts,
 2 amp @ 28VDC

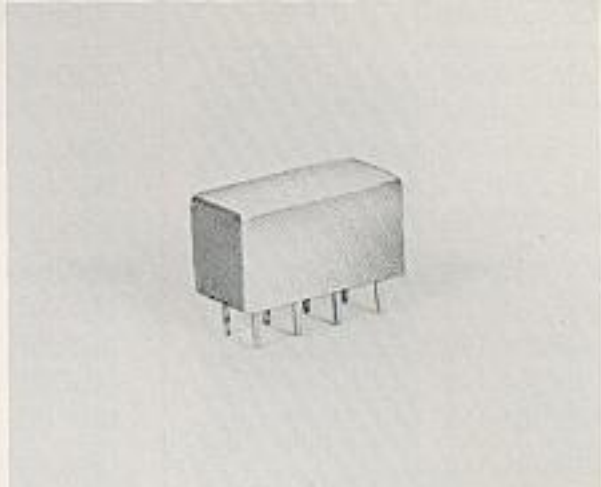
Description

Reliability by design
 Complete welded construction
 Balanced armature
 High contact force
 Bifurcated contacts
 Low profile, high density packaging
 Mounting versatility
 Established reliability
 (data available upon request)
 Weight: 0.3 ounce maximum
 Terminals: Plug-in, printed circuit,
 hook type, or 3" weldable leads
 Enclosure: Hermetically sealed by welding

Performance Data

Operate Time (at +25°C):
 4ms maximum at nominal coil voltage
 Release Time (at +25°C):
 4ms maximum at nominal coil voltage

Initial Contact Resistance:
 0.05 ohms maximum
 Insulation Resistance:
 1000 megohms minimum
 Contact Arrangements: 2 form C
 Contact Ratings:
 ERS ratings per MIL-R-39016
 Non-inductive and low level
 Type 1: 2 amp @ 28VDC
 0.3 amp @ 115VAC, 60 to 400Hz
 (1Ø, case grounded)
 Type 2: 2 amp @ 28VDC
 0.1 amp @ 115VAC, 60 to 400Hz
 (1Ø, case grounded)
 Inductive
 Type 1: 0.75 amp @ 28VDC
 Type 2: 0.5 amp @ 28VDC
 "S" Series: same as noted above for Type 1
 Higher AC ratings available—
 consult factory.
 Dielectric Strength
 1000V rms at sea level
 500V rms between open contacts,
 between coil terminals and case
 350V rms at 80,000 feet.



Vibration: 5 to 28Hz at 0.5 inch double
 amplitude, 28 to 2000Hz at a
 constant 20g, 28 to 3000Hz at 30g
 available on request
 Shock: 50g operational
 Ambient Temperature: -65°C to +125°C

Approvals

MIL-R-39016/6 approved and
 MIL-R-5757 as applicable.

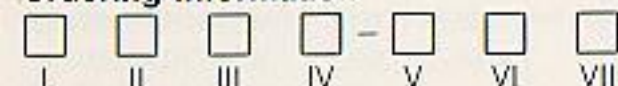
Type Designation and Coil Data
 DC Resistance—Standard Tolerance ± 10%

ER Designation (MIL-R-39016/6)	Nominal DC Coil Data			Max. Pick-up Voltage		Drop-out Voltage @ +25°C		Drop-out Voltage @ +125°C	
	Volts	Amps	Ohms	@ +25°C	@ +125°C	Min	Max	Min	Max
ERS6 A1 -6VDC-M1	6.0	.150	40	3.2	4.5	.35	2.0	.25	2.9
ERS6 A1 -12VDC-M1	12.0	.075	160	6.4	8.6	.70	4.0	.50	5.8
ERS6 A1 -26.5VDC-M1	26.5	.038	700	13.5	18.0	1.5	8.0	1.0	14.0

S Designation	Nominal DC Coil Data			Max. Pick-up Voltage		Drop-out Voltage @ +25°C
	Volts	Amps	Ohms	@ +25°C	@ +125°C	Minimum
S6H3 - 6VDC	6.0	.172	35	3.2	4.4	.3
S6H3 - 12VDC	12.0	.085	160	6.2	8.6	.6
S6H3 - 26.5VDC	26.5	.038	700	13.5	18.0	1.0
S6H3 - 48VDC	48.0	.020	2300	26.0	36.0	1.5

Note: for low level switching, use SL prefix instead of S
 Dimensions, Terminal and Mounting Variations on next page.
 Other coils available. Consult factory.

Ordering Information



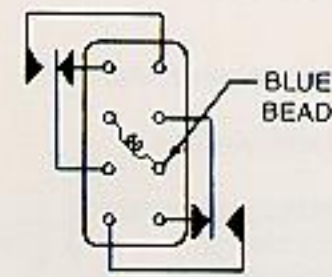
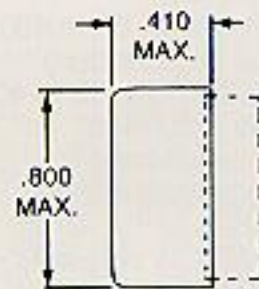
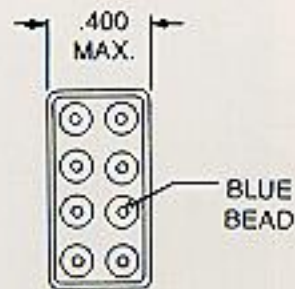
- I. Type ERS, S or SL
- II. Contact type (6-DPDT)
- III. Mounting variation (A, B, C, D, H or O).
- IV. Terminal variation (1, 2 or 3).
- V. Coil voltage
- VI. Reliability level (M or L).
- VII. Contact rating (1 or 2).

Example #1: ERS6B3-26.5VDCM1 denotes an ERS relay—DPDT—hook pin terminals—flange mounting (single hole)—26.5 volts DC (coil)—M reliability—1 military contact rating.

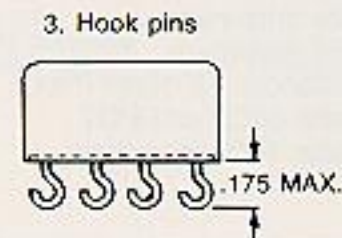
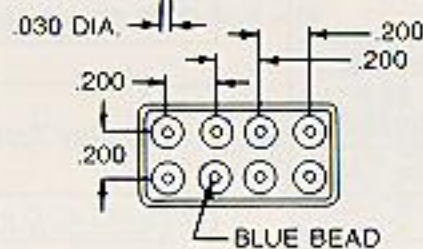
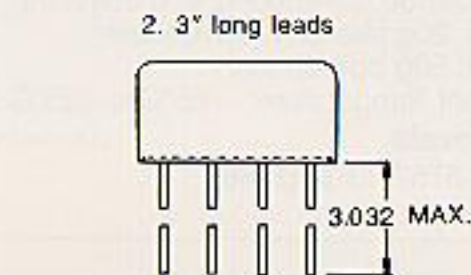
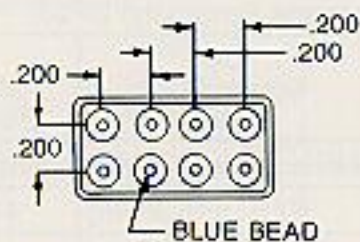
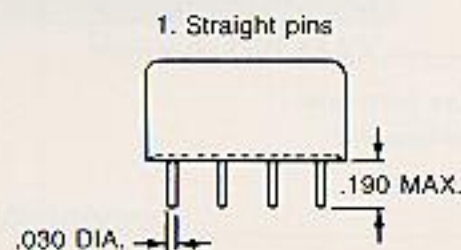
Example #2: S6A1-12VDC denotes an S relay—DPDT—straight pin terminals—no mounting bracket—12 volts DC (coil)

Note: See military cross-reference, page 15.

Dimensions & Schematics

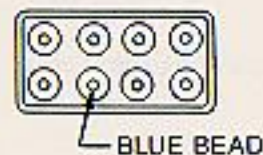
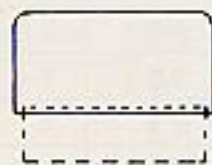


Terminal Variations

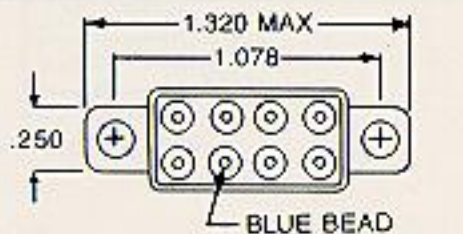
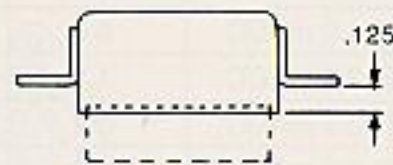


FOR PRINTED CIRCUIT APPLICATIONS MATES WITH ARMEL, VIKING OR ANY STANDARD GRID SOCKET

Mounting Variations

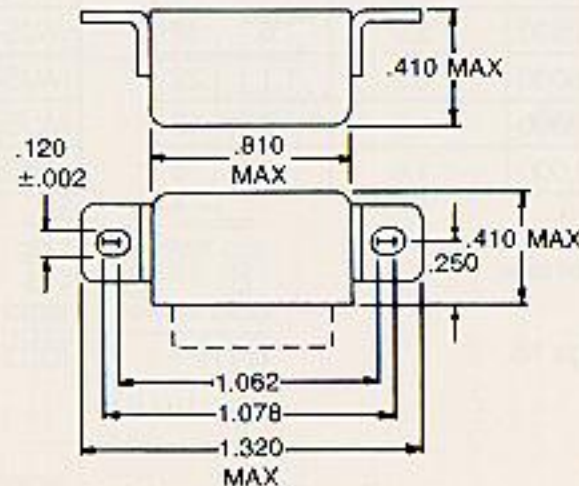


A. No bracket.

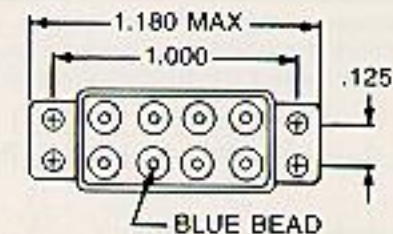
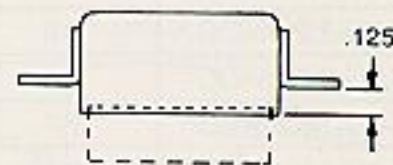


MOUNTING—.120 DIA HOLES (2)

B. Single hole—elongated for ERS or S.
O. Single hole (as shown) for S only.



Bracket rotated 90°
C. Single hole—elongated (as shown) for ERS or S.
U. Single hole for S only.



MOUNTING—.096 DIA HOLES (4)

H. Two hole for ERS or S.

Additional variations available upon request.