

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:

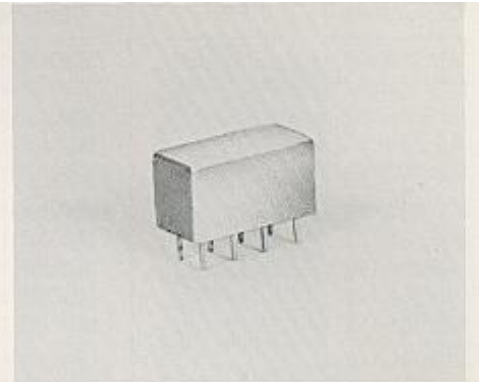
ERS ratings per MIL-R-39016
 Non-inductive and low level
 Type 1: 2 amp @ 28VDC
 0.3 amp @ 115VAC, 60 to 400Hz
 (1Ø, case grounded)
 Type 2: 2 amp @ 28VDC
 0.1 amp @ 115VAC, 60 to 400Hz
 (1Ø, case grounded)

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 □ II □ III □ IV □ V □ VI □ VII

- 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.