

Ratings

SPDT (1 form C) or DPDT (2 form C)
contacts, 3 amp @ 29VDC

Description

High performance, long-size crystal
can relay
Hermetically sealed with welded
construction
High shock and vibration performance
with rotary armature design
Bifurcated contacts for low level
switching
Maximum contact force through
unique design
Low-profile, high-sensivity packaging

Performance Data

Operate Time: 15ms maximum
Release Time: 10ms maximum
Initial Contact Resistance: .05 ohms max.
Contact Arrangement: SPDT or DPDT
Insulation Resistance: 1000 megohms
min.

Contact Rating:

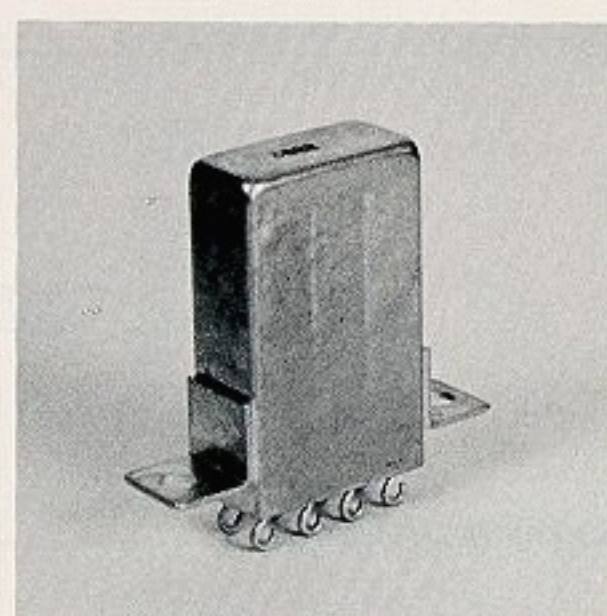
Non-inductive and low level
3 amp @ 29VDC;
1 amp @ 115VAC, 60 to 400Hz,
(10, case ungrounded)
0.3 ampere at 115V, 60 to 400Hz,
(10, case grounded)
Inductive—consult factory
Higher AC ratings available—
consult factory
Sensitivity: SPDT—24 milliwatts
DPDT—40 milliwatts

Dielectric Strength

1000V rms at sea level
500V rms across open contacts
350V rms at 80,000 feet
Vibration: 5-55Hz at 0.1 inch double
amplitude, 55-2000Hz at a constant
15g, 20g available on request
Shock: 50g operational
Ambient Temperature: -65°C to 125°C

Approvals

MIL-R-5757/13 approved



Type Designation and Coil Data

WJS-3D (25 Milliwatt Average Sensitivity) SPDT					
Relay Type	DC Nominal Coil Data		Max. Pick-up	Drop Out Milli-Amperes	
	Milliamperes	Ohms*		Milliamperes	Max.
WJS-3D-35.0 mADC	52.5	20	35.0	17.5	3.5
WJS-3D-15.8 mADC	23.5	100	15.8	7.9	1.58
WJS-3D-7.2 mADC	10.8	500	7.2	3.6	.72
WJS-3D-5.0 mADC	7.5	1000	5.0	2.5	.50
WJS-3D-4.1 mADC	6.1	1500	4.1	2.0	.41
WJS-3D-3.5 mADC	5.2	2000	3.5	1.7	.35
WJS-3D-3.2 mADC	4.8	2500	3.2	1.6	.32
WJS-3D-2.2 mADC	3.3	5000	2.2	1.1	.22
WJS-3D-1.8 mADC	2.7	8000	1.8	.9	.18
WJS-3D-1.6 mADC	2.4	10,000	1.6	.8	.16

*D-C Resistance—Standard Tolerance ±10%.
Other values of resistance for different current ratings can be supplied
Dimensions, Terminal and Mounting Variations, on next page.

Note: See military cross-reference, page 15.

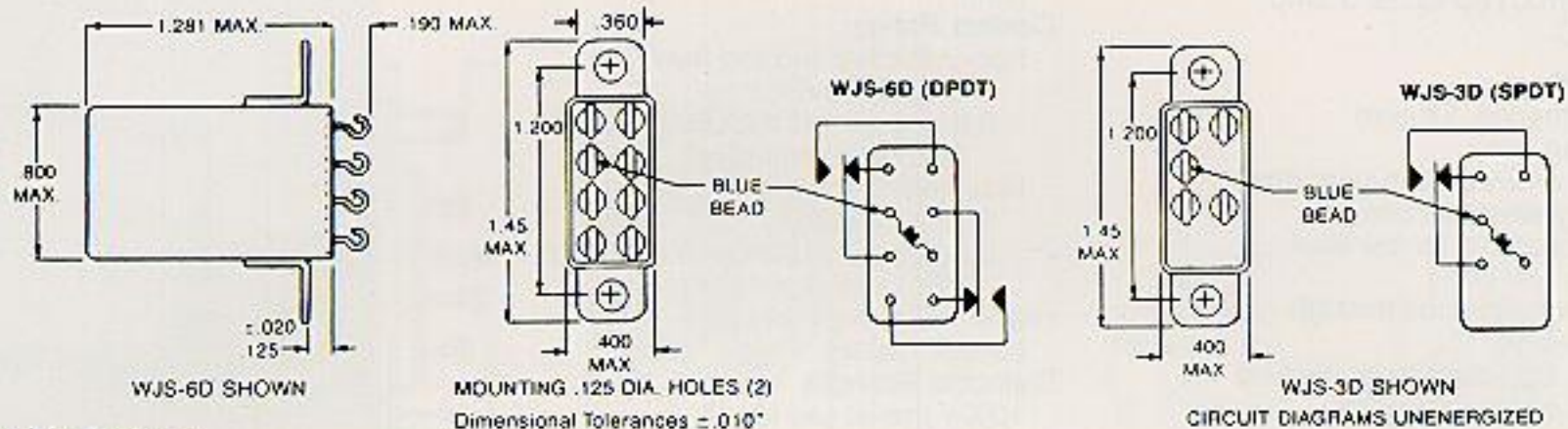
Ordering Information

WJS I II III IV

- I. Mounting and terminal variation
- II. 3D (SPDT) or 6D (DPDT)
- III. Coil voltage
- IV. DC or mA DC

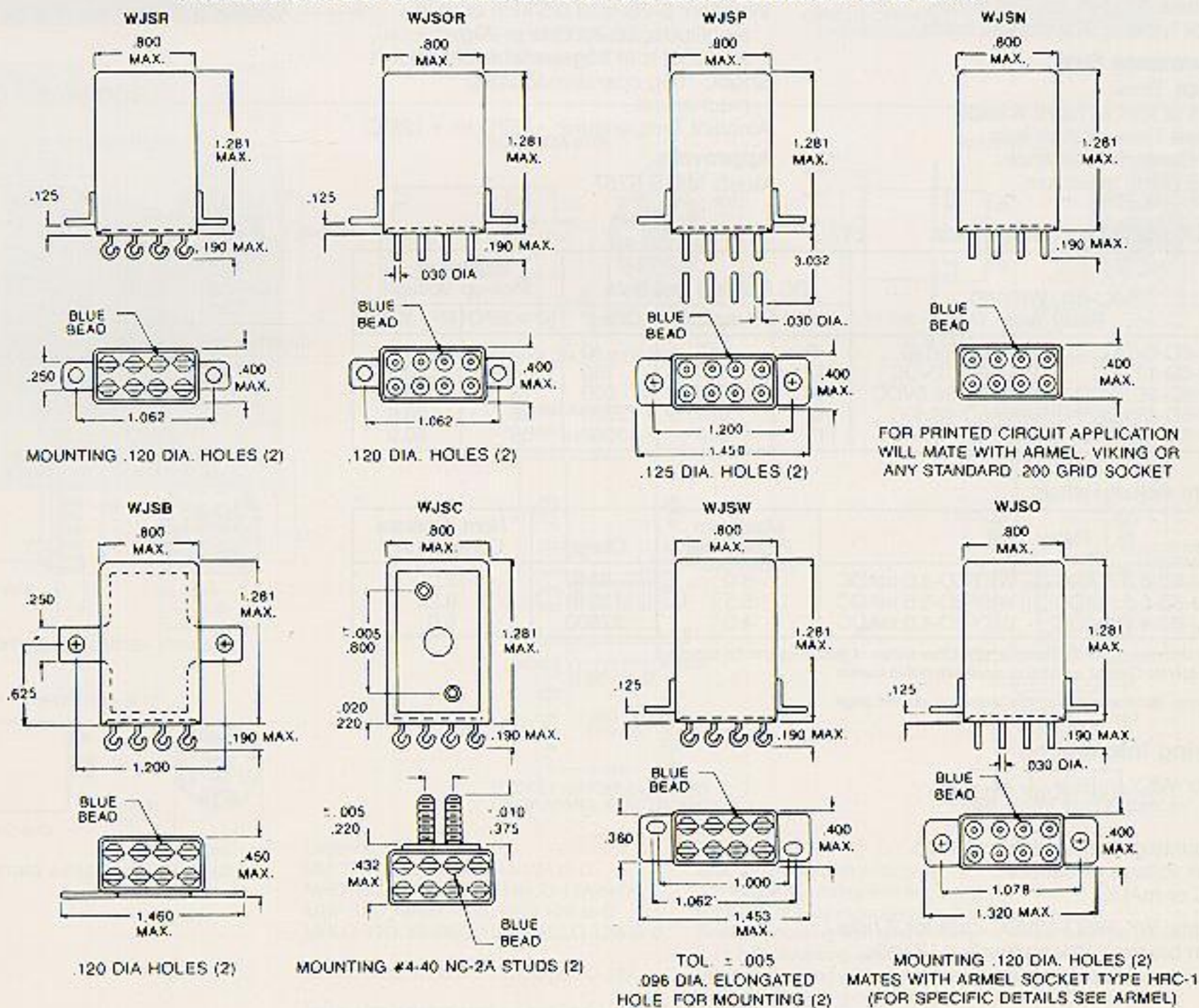
Example, WJSOR-6D-12VDC calls for standard mounting bracket, straight pins, DPDT—12 volts.

WJS-6D (40 Milliwatt Average Sensitivity) DPDT					
Relay Type	DC Nominal Coil Data		Max. Pick-up	Drop Out Milli-Amperes	
	Milliamperes	Ohms*		Milliamperes	Max.
WJS-6D-45.0 mADC	67.5	20	45.0	22.5	4.5
WJS-6D-20.0 mADC	30.0	100	20.0	10.0	2.0
WJS-6D-9.0 mADC	13.5	500	9.0	4.5	.9
WJS-6D-6.3 mADC	9.4	1000	6.3	3.1	.63
WJS-6D-5.2 mADC	7.8	1500	5.2	2.6	.52
WJS-6D-4.5 mADC	6.7	2000	4.5	2.2	.45
WJS-6D-4.0 mADC	6.0	2500	4.0	2.0	.40
WJS-6D-2.8 mADC	4.2	5000	2.8	1.4	.28
WJS-6D-2.3 mADC	3.4	8000	2.3	1.1	.23
WJS-6D-2.0 mADC	3.0	10,000	2.0	1.0	.20



Mounting Variations

DIAGRAMS SHOWN AS 6D CONFIGURATIONS—REFER TO 3D HEADER & SCHEMATIC FOR 3D RELAYS



Legend:

- WJS Std mtg bracket, 1.200" centers, hook pins
- WJSR* .250 wide bracket, hook pins
- WJSOR* .250 wide bracket, straight pins
- WJSP Std mtg bracket, 3" long leads
- WJSN No bracket, straight pins
- WJSPN No bracket, 3" long leads
- WJSB* Centerline mtg bracket (full plate), hook pins
- WJSU Centerline mtg bracket (.250" strap), hook pins
- WJSWB Centerline mtg bracket (full plate), 3" long leads

- WJSPU Centerline mtg bracket (.250" strap), 3" long leads
- WJSC* Side stud mtg with support plate, hook pins
- WJSD Side stud mtg w/o plate, hook pins
- WJSV Wide bottom bracket for 1.200" centers, straight pins
- WJSPC* Side stud mtg with support plate, 3" long leads
- WJSW* Bottom mtg bracket for diag. screws, wide bracket, hook pins
- WJSO Bottom mtg bracket, straight pins, with mating socket; 1.078" centers; mates with ARMEL socket type HRC-1

*MIL qualified

Additional variations available upon request.