R02 Series

General Purpose, 10 Amp Multicontact AC and DC Relays.

Features

- **Hermetically Sealed, Metal Enclosure Types (H–suffix)**
- **U/L Approved for Class 1, Div 2 Hazardous Locations (H–suffix)**
- **Push–to–Test Button Types (B–suffix)**
- **Indicator Lamp Types (N–suffix)**
- **Mechanical Indicator Types (M–suffix)**
- **8–Pin and 11 –Pin Octal Plug–In Types**
- **SPDT, DPDT and 3PDT Types**
- **Clear Plastic Dust Cover**

AC OPERATED						
NTE TYPE No.	Nom. Voltage	Contact Arr.	Coil Res. Ohms (Typ)	Nom. Power	Max. Contact Cur. @ 28VDC or 120VAC	Diag No.
R02–5A10–12	12VAC	SPDT	–	3.9VA	10A	D1C
R02–5A10–24	24VAC	SPDT	–	3.9VA	10A	D1C
R02–5A10–120	120VAC	SPDT	–	3.9VA	10A	D1C
R02–5A10–240	240VAC	SPDT	–	3.9VA	10A	D1C
R02–11A10–6	6VAC	DPDT	–	2.0VA	10A	D1A
R02–11A10–12	12VAC	DPDT	–	2.0VA	10A	D1A
R02–11A10–24	24VAC	DPDT	–	2.0VA	10A	D1A
R02–11A10–24B	24VAC	DPDT	–	2.0VA	10A	D1A
R02–11A10–24H	24VAC	DPDT	–	3.0VA	10A	D2A
R02–11A10–24N	24VAC	DPDT	–	2.0VA	10A	D1A
R02–11A10–120	120VAC	DPDT	–	2.0VA	10A	D1A
R02–11A10–120B	120VAC	DPDT	–	2.0VA	10A	D1A
R02–11A10–120H	120VAC	DPDT	–	3.0VA	10A	D2A
R02–11A10–120N	120VAC	DPDT	–	2.0VA	10A	D1A
R02–11A10–240	240VAC	DPDT	–	2.0VA	10A	D1A
R02–14A10–6	6VAC	3PDT	–	3.9VA	10A	D1B
R02–14A10–6M	6VAC	3PDT	–	3.9VA	10A	D1B
R02–14A10–12	12VAC	3PDT	–	2.75VA	10A	D1B
R02–14A10–24	24VAC	3PDT	–	2.75VA	10A	D1B
R02–14A10–24B	24VAC	3PDT	–	2.75VA	10A	D1B
R02–14A10–120	120VAC	3PDT	–	2.75VA	10A	D1B
R02–14A10–120B	120VAC	3PDT	–	2.75VA	10A	D1B
R02–14A10–120H	120VAC	3PDT	–	3.0VA	10A	D2B
R02–14A10–120N	120VAC	3PDT	–	2.75VA	10A	D1B
R02–14A10–240	240VAC	3PDT	–	2.75VA	10A	D1B
DC OPERATED						
R02–5D10–6	6VDC	SPDT	30	1.2W	10A	D1C
R02–5D10–12	12VDC	SPDT	120	1.2W	10A	D1C
R02–5D10–24	24VDC	SPDT	480	1.2W	10A	D1C
R02–5D10–110	110VDC	SPDT	10K	1.2W	10A	D1C
R02–11D10–6	6VDC	DPDT	30	1.2W	10A	D1A
R02–11D10–12	12VDC	DPDT	120	1.0W	10A	D1A
R02–11D10–12B	12VDC	DPDT	120	1.0W	10A	D1A
R02–11D10–12H	12VDC	DPDT	100	1.5W	10A	D2A
R02–11D10–12N	12VDC	DPDT	120	1.0W	10A	D1A
R02–11D10–24	24VDC	DPDT	470	1.0W	10A	D1A
R02–11D10–24B	24VDC	DPDT	470	1.0W	10A	D1A
NEW R02–11D10–24H	24VDC	DPDT			10A	D2A
R02–11D10–24N	24VDC	DPDT	470	1.0W	10A	D1A
R02–11D10–48	48VDC	DPDT	1630	1.5W	10A	D1A
R02–11D10–110	110VDC	DPDT	10K	1.2W	10A	D1A
R02–11D10–110H	110VDC	DPDT	8K	1.5W	10A	D2A
R02–14D10–6	6VDC	3PDT	30	1.2W	10A	D1B
R02–14D10–12	12VDC	3PDT	120	1.0W	10A	D1B
R02–14D10–12B	12VDC	3PDT	120	1.0W	10A	D1B
R02–14D10–24	24VDC	3PDT	470	1.0W	10A	D1B
R02–14D10–24B	24VDC	3PDT	470	1.0W	10A	D1B
R02–14D10–48	48VDC	3PDT	1630	1.5W	10A	D1B
R02–14D10–110	110VDC	3PDT	10K	1.2W	10A	D1B

ACCESSORIES		
MOUNTING STYLES	DESCRIPTION	NTE TYPE NO.
SURFACE MOUNT	8–PIN OCTAL 11–PIN OCTAL	R95–101 R95–104
DIN RAIL MOUNT	8–PIN OCTAL 11–PIN OCTAL	R95–113 R95–181 R95–114 R95–182
PANEL MOUNT	8–PIN OCTAL 11–PIN OCTAL	R95–118 R95–119

Electrical Specifications

Contact

Contact Rating

Poles	120VAC	240VAC	28VDC
SPDT	10A (1/10 HP)	10A (1/6 HP)	10A
DPDT	10A (1/3 HP)	8A (1/2 HP)	10A
3PDT	10A (1/3 HP)	6A (1/2 HP)	10A

Contact Material: 3/16" Silver cadmium oxide
Contact Resistance: 0.050 ohms max initial

Coil

Coil Voltages: See Chart
Pick–up Voltage: 80% of nominal or less, DC
80% of nominal or less, AC
Resistance: See chart
Min Sensitivity: (125mW per pole)
Duty Cycle: Continuous

Operational Characteristics

Timing Values . . . . . **Operate Time:** 25 mS or less
Release Time: 20 mS or less
} at nominal coil voltage

Insulation Characteristics

Dielectric Strength

Contact To Coil: 1500 VRMS
Across Open Contacts: 1000 VRMS
Pole to Pole: 1500 VRMS
Contacts To Frame: 1500 VRMS

Insulation Material: Molded polyester
Insulation Resistance: 1 x 10^3 megohms min

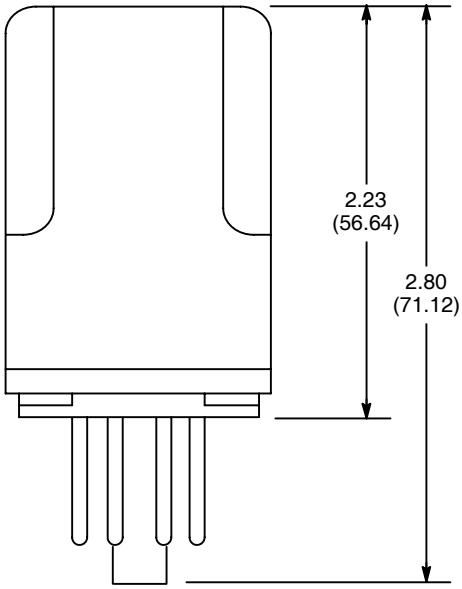
Environmental Characteristics

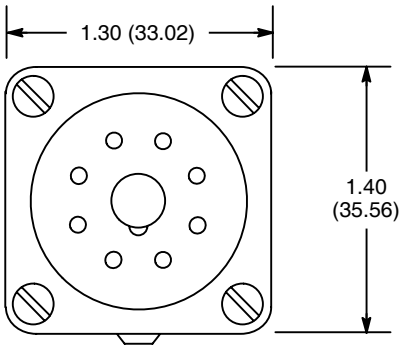
Operating: –10°C to +50°C (AC), –10°C to +60°C (DC)
Non–operating (storage): –30°C to +105°C

Weight

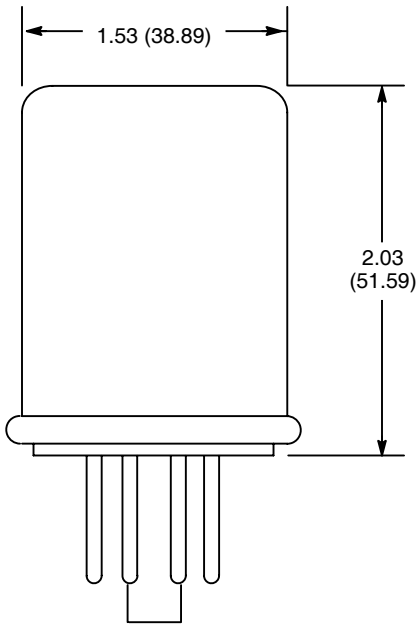
Std: $3\frac{1}{2}$ ozs (99.2 grams)—typical
Hermetic sealed: 5 ozs (141.7 grams)—typical

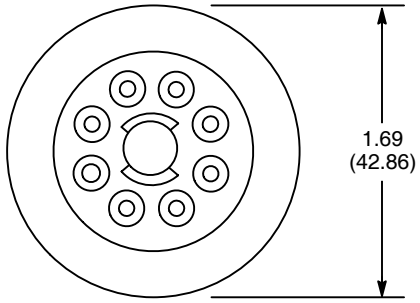
D1





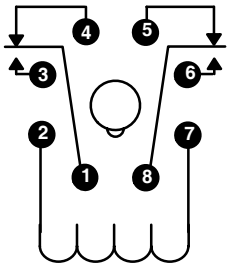
D2





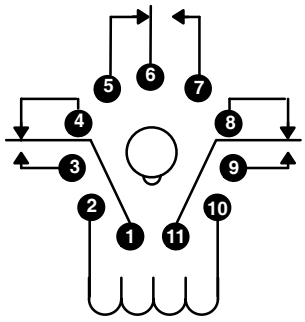
Note: Models with “N” suffix will have indicator lamp connected across coil.

A (DPDT), 2 Form “C”



Viewed from Pin end of Plug

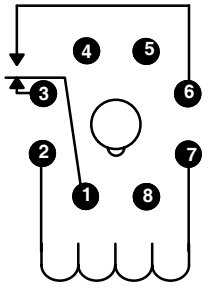
B (3PDT), 3 Form “C”



Viewed from Pin end of Plug

Note: R02−14A10−120H has Pin5 and Pin6 Reversed.

C (SPDT), 1 Form “C”



Viewed from Pin end of Plug