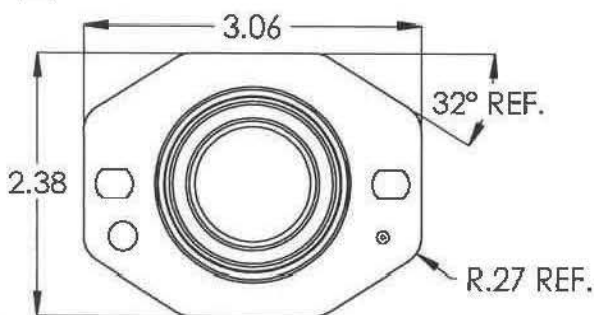
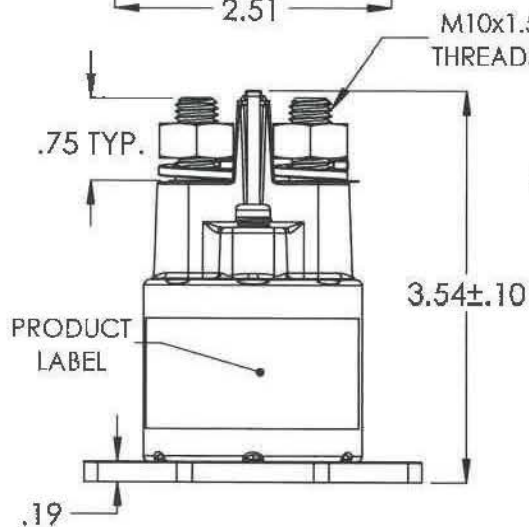
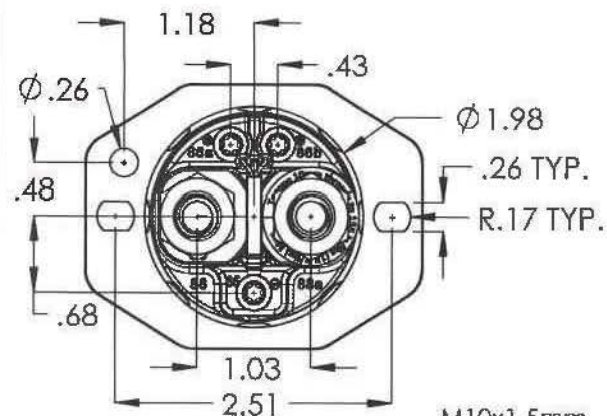




88 MAIN ○ ○ 88a MAIN

"CLOSE" 86a 86b "OPEN"

"CAUTION"
REVERSED
POLARITY
DIODES
INSTALLED

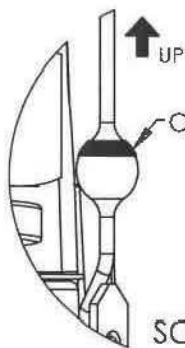
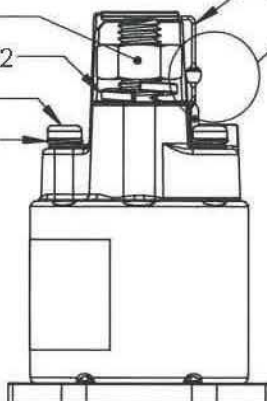
SPECTRUM INDUSTRIES
461 BOSTON STREET - UNIT E6
TOPSFIELD, MA 01983
LOCAL: (978) 887-2020

85
+ COMMON

LOW SIDE OPERATION

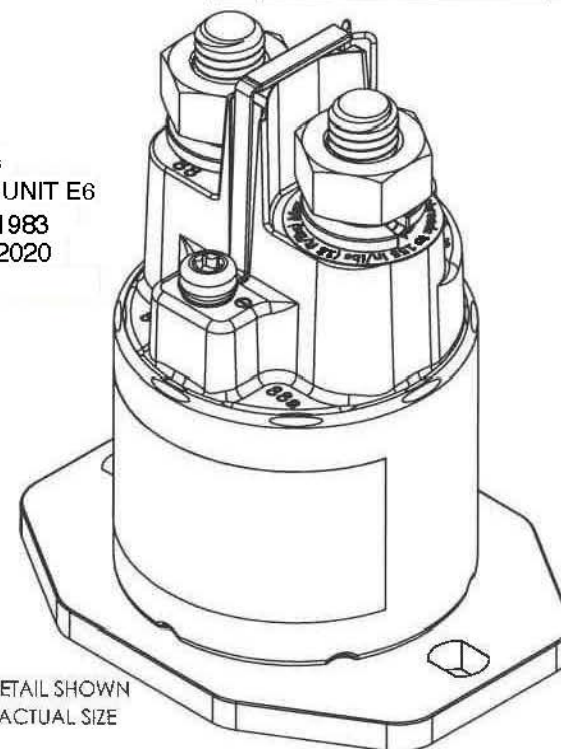
17mm HEX NUT x2
M10 SPLIT WASHER x2
M4X0.7mm SCREW x3
M4 CUP WASHER x3

DIODES x2
A



NOTE ORIENTATION
OF DIODE POLARITY BAND
AT EACH POSITION

DETAIL A
SCALE 24 : 10



DETAIL SHOWN
ACTUAL SIZE



PRODUCT LABEL

NAME	DATE
DRAWN JRT	11-2-22
CHECKED	
ENG APPR. RMF	11-2-22
MFG APPR.	
Q.A.	

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL $\pm 1/32$
ANGULAR: MACH $\pm$ BEND $\pm$
TWO PLACE DECIMAL $\pm .010$
THREE PLACE DECIMAL $\pm .005$

SPECTRUM INDUSTRIES INC.	
461 BOSTON STREET - UNIT E6, TOPSFIELD, MA 01983 USA	
DO NOT SCALE DRAWING	
TITLE: BI-STABLE RELAY 24/28VDC-300AMPS COIL: 18-32VDC LOW SIDE OPERATION	
BLANK WEIGHT:	PART WEIGHT: 1.1LBS
SIZE A	DWG. NO. BR-200-24-1-34L
SCALE: 1:2	REV. A
SHEET 1 OF 2	
BR-200-24-1-34L WEBSITE WWW.SPECTRUMIND.COM	

DRAWING NUMBER	REV.
A BR-200-24-1-34L	A
SHEET 1 OF 2	

REV.	DESCRIPTION	DATE	APP'D	REV.	DESCRIPTION	DATE	APP'D
	REVISIONS				REVISIONS		

Bi-Stable Relay Technical Data

Temperature range: -40 C to +85°C
 -40°F to +185°F
 Max. Altitude rating: 50,000 ft.
 Seal: IP67: IEC 60529
 Shock: 6g, 11ms, Saw Tooth
 Vibration: SAE J1455, Appendix A Cat. 2,
 4g - 10Hz-2000Hz

Electrical Characteristics

Min. Insulation Resistance: 100 MΩ
 Dielectric withstanding voltage: 1050 V / 1 min.
 Max. Contact drop, initial: 150 mV
 (CTQ < 0.0009 VDC @ 1AMP, MAX)
 Duty rating, Continuous: 200 A

Rated Contact Load 24/28 VDC

Resistive load: 50,000 cycles 200 A
 Inductive load: 10,000 cycles 100 A
 Motor load: 50,000 cycles 200 A
 Bounce: ≤ 5 ms
 Break: ≤ 5 ms

Coil Data 24/28 VDC

Nominal voltage: 24/28 VDC
 Voltage range: 18-32 VDC
 (CTQ @ 14VDC)
 Pull "CLOSE" coil resistance: 7.3 Ω, ± 10% 85-86a
 Pull "OPEN" coil resistance: 8.4 Ω, ± 10% 85-86b
 Minimum Pulse Length: 100ms
 Maximum Pulse Length: 2.5 sec. (single operation per minute)
 Max. operations per minute: 6 (Pulse < 0.4sec)

SPECTRUM INDUSTRIES
 461 BOSTON STREET - UNIT E6
 TOPSFIELD, MA 01983
 LOCAL: (978) 887-2020

	NAME	DATE
DRAWN	JRT	11-2-22
CHECKED		
ENG APPR.	RMF	11-2-22
MFG APPR.		
Q.A.		

 461 BOSTON STREET - UNIT E6, TOPSFIELD, MA 01983 USA DO NOT SCALE DRAWING		
TITLE: BI-STABLE RELAY 24/28VDC-200AMPS COIL: 18-32VDC LOW SIDE OPERATION		
SIZE A	DWG. NO. BR-200-24-1-34L SHEET 2 OF 2	REV. A
SCALE: 1:2 BR-200-24-1-34L WEBSITE WWW.SPECTRUMIND.COM		

DWG NO: BR-200-24-1-34L