

061-023

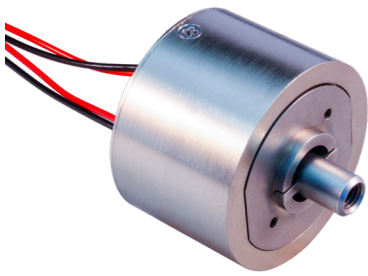
# Medium-duty hold-down release mechanism

2500 lb. release preload

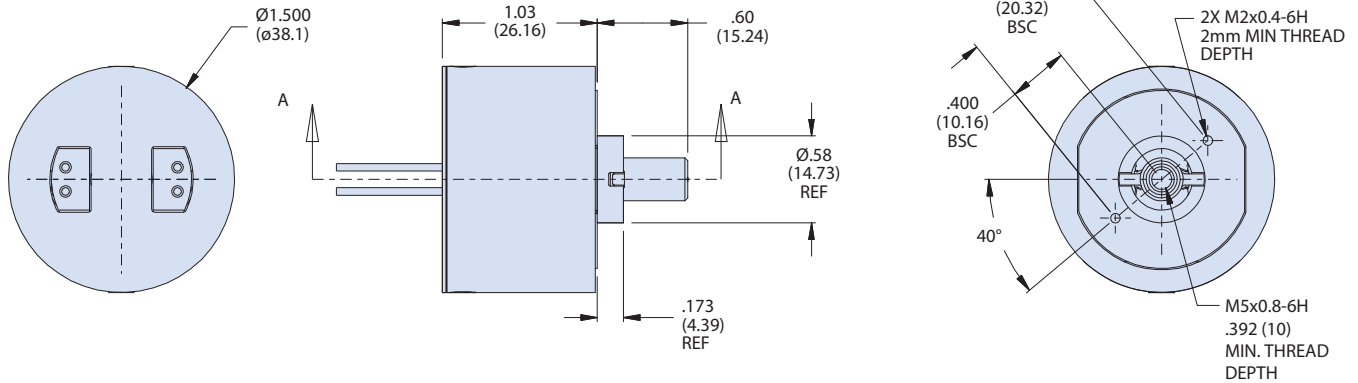
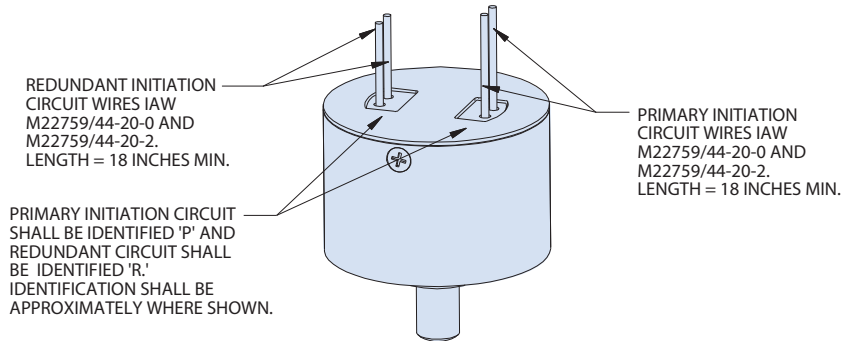
Redundant circuit, metric thread



## REDUNDANT CIRCUIT HOLD DOWN RELEASE MECHANISM, MEDIUM DUTY



How To Order		
Sample Part No.	061	-023
Basic Part No.	Medium Duty HDM	
Dash No.	Redundant Circuit	



Physical characteristics	
Mass	84.3 grams nominal weight
Release component thread	M5x0.8-6H*
Material list	IAW MSFC-STD-3029
Epoxy	Outgassing requirements per GSC19384
Device features	
Redundant initiation	2 initiation points
Field refurbishable	Initiator can be replaced in less than 15 minutes by trained personnel
Reliability prediction	0.9999994
Packaging	External housing typically supplied with two mounting points. Custom housings and mountings available
Connectorization	Standard design supplied with wire inputs. Connectorized versions available
Scalable bolt size	Bolt size determines preload and can be scaled to accommodate a wide range of requirements
*Size callout based on the bolt size to be used. Standard thread also available. Qualification report for 061-005 available.	

### NOTES

- Unit is identified with Glenair name, CAGE code, part number, and date code, space permitting. Primary initiation circuit identified with "P" and redundant with "R".
- Release preload 2500 lbs. (11.1 kN)
- Reference Glenair P/N 060-123 for refurbishment initiator
- Nominal actuation current 3.5 Amps

061-005

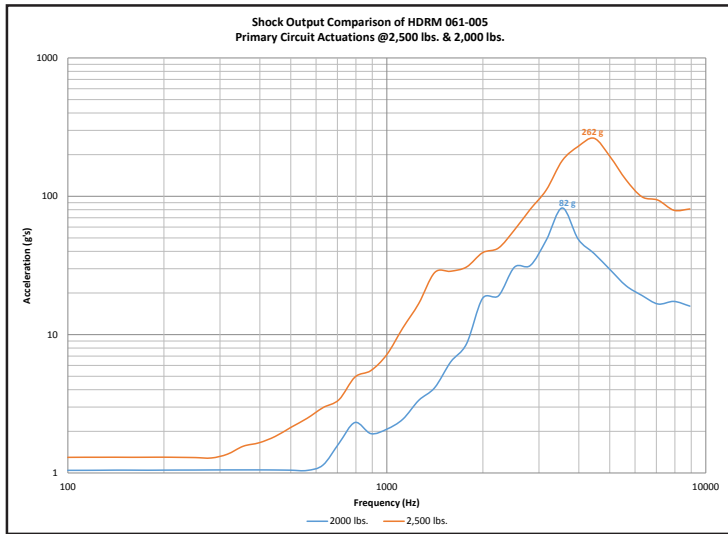
# Medium-duty hold-down release mechanism



2500 lb. release preload

## Summary of qualification test data

A



Tested Capability for 061-005	
Nominal Release Preload	2,250 pounds
Proof Preload	2,500 pounds
Ultimate Load	3,250 pounds
Electrical Resistance	1.5 ohms max
Sine Vibration 3 orthogonal axes	25 G's
Random Vibration 3 orthogonal axes	50.9 G <sub>rms</sub>
Actuation Time	Under 100 ms @3.5 Amps
Shock Input	2,849 G's
Source Shock	Under 300 G's @2,500 pounds
Life Test	10 refurbishments during qualification and an expected continued usage
Temperature	-150°C to +150°C released in a vacuum (1x10 <sup>-6</sup> Torr)
Extended Preload	<4.0% loss

