

063-001

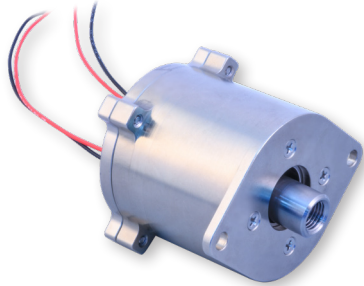
Heavy-duty hold-down release mechanisms

8750 lb. release preload
Redundant circuit

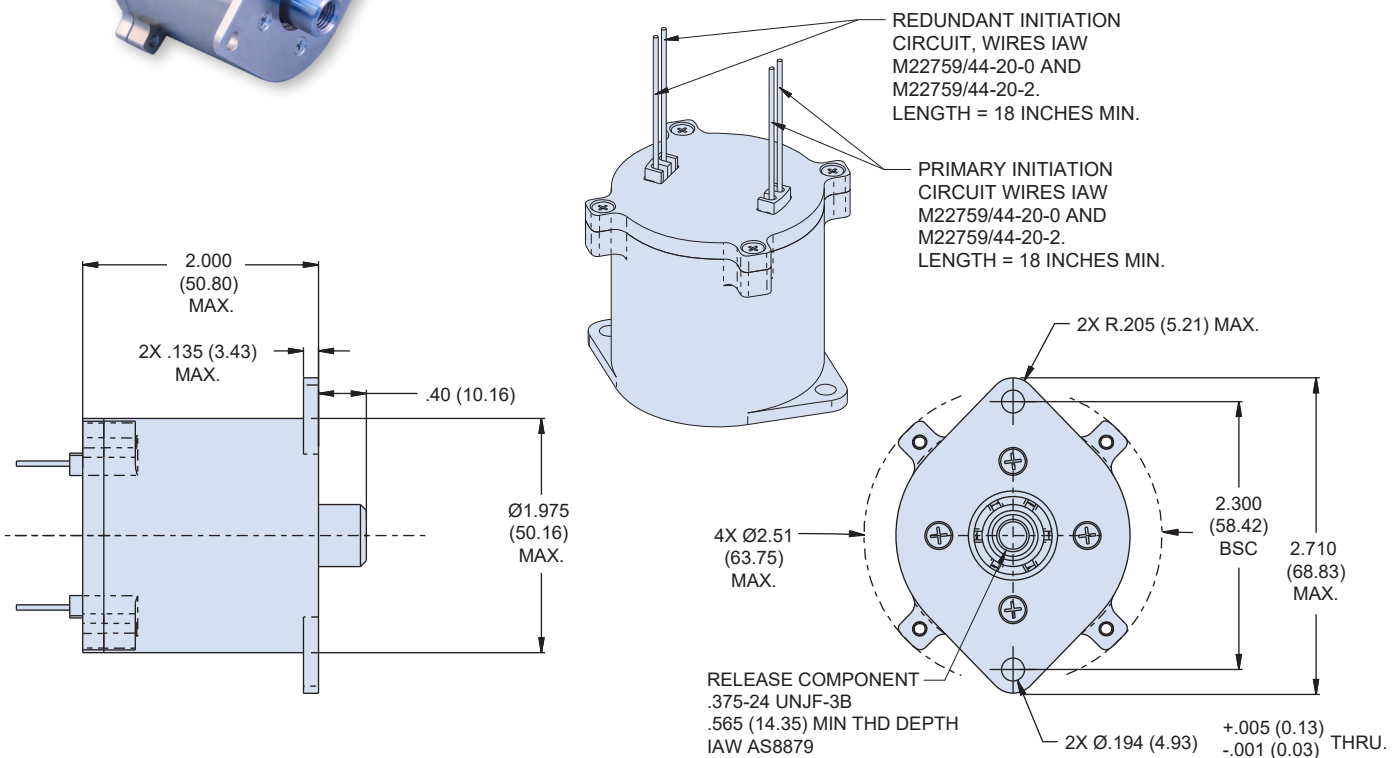


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ELECTRICALLY REDUNDANT HOLD DOWN RELEASE MECHANISM, HEAVY-DUTY



How To Order		
Sample Part No.	063	-001
Basic Part No.	Heavy-Duty HDRM	
Dash No.	Redundant Circuit	



Physical characteristics	
Mass	335 grams approximate weight
Bolt	0.375-24 UNJF-3B*
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	0.99999975
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. Metric thread also available. Consult factory for qualification test report.	

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: 8,750 lbs. (38.9 kN)
- Test report available upon request
- Reference Glenair P/N 060-301 for refurbishment initiator
- Metric threads available, consult factory for options
- Mechanical release version available, consult factory

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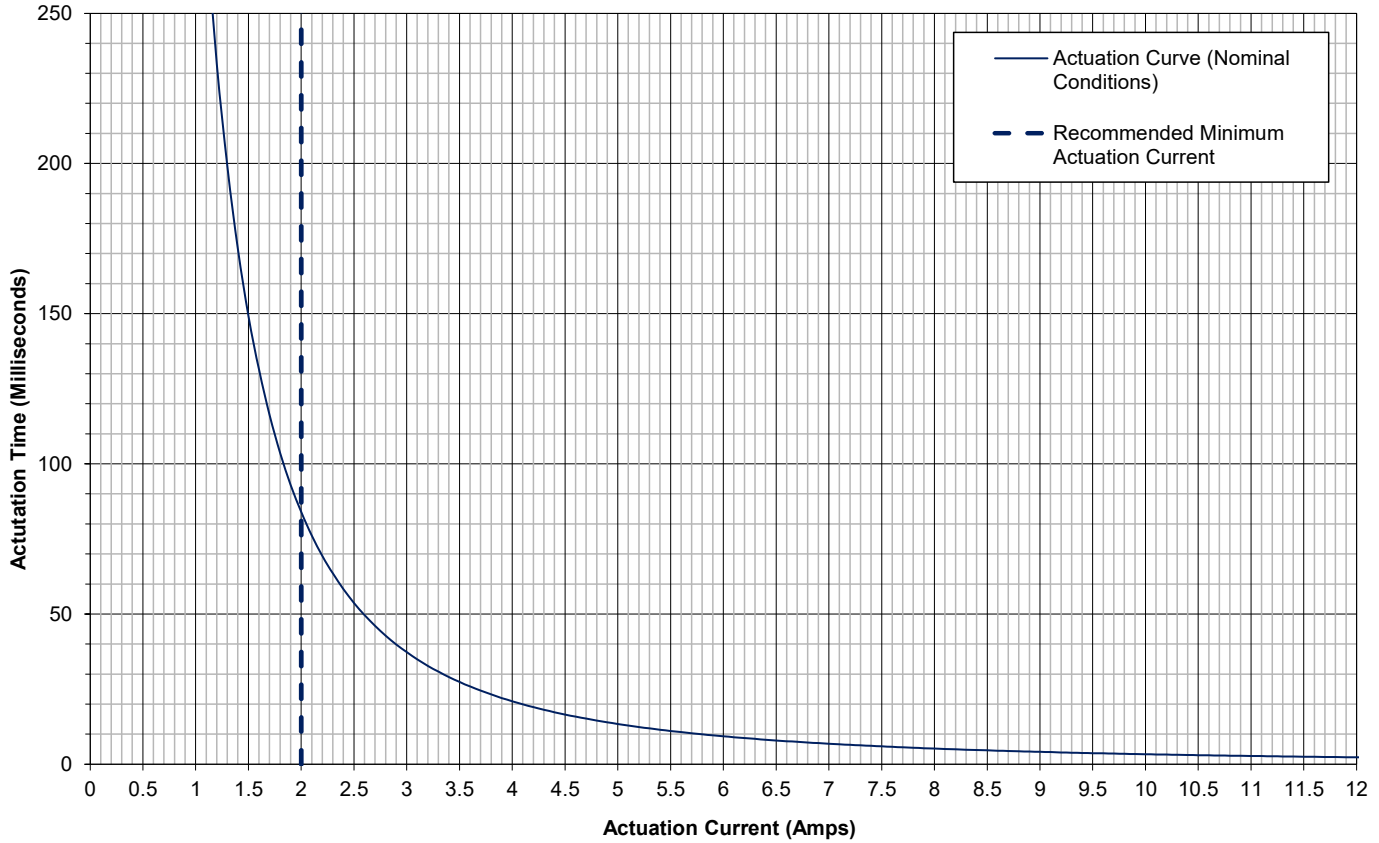
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Actuation curve



**Actuation Curve for 063-001 Mechanism
(Nominal Conditions)**



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Tested Capability for 063-001	
Nominal Release Preload	8,750 pounds
Proof load	10,938 pounds
Ultimate preload	TBD
Electrical Resistance	0.8 to 1.5 ohms
Sine Vibration 3 orthogonal axes	25 G's
Random Vibration 3 orthogonal axes	50.9 Grams
Actuation Time	Under 60 ms @ 3.5 Amps
Source Shock	Under 600 G's @ 8750 pounds
Life Test	10 refurbishments during qualification and an expected continued usage
Temperature	-150°C to +150°C released in a vacuum (1x10 ⁻⁵ Torr)

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