



Large Latching Solenoid

The large latching solenoid used a short pulse of current to actuate the armature and drew no current to maintain state. It came in three sizes, from 2.75" to 4.25" in diameter, with high latching forces ranging from 445 N up to 1334 N. This solenoid was designed to use either residual magnetism or a permanent magnet to hold the armature in the latched position. Package size, stroke, and latching force were customizable to suit application requirements.

Features & Benefits

- + High latching force
- + Temperature stable
- + Low power consumption
- + Fast response
- + Configurable to use residual magnetism or a permanent magnet
- + Customizable size and latching force

Applications

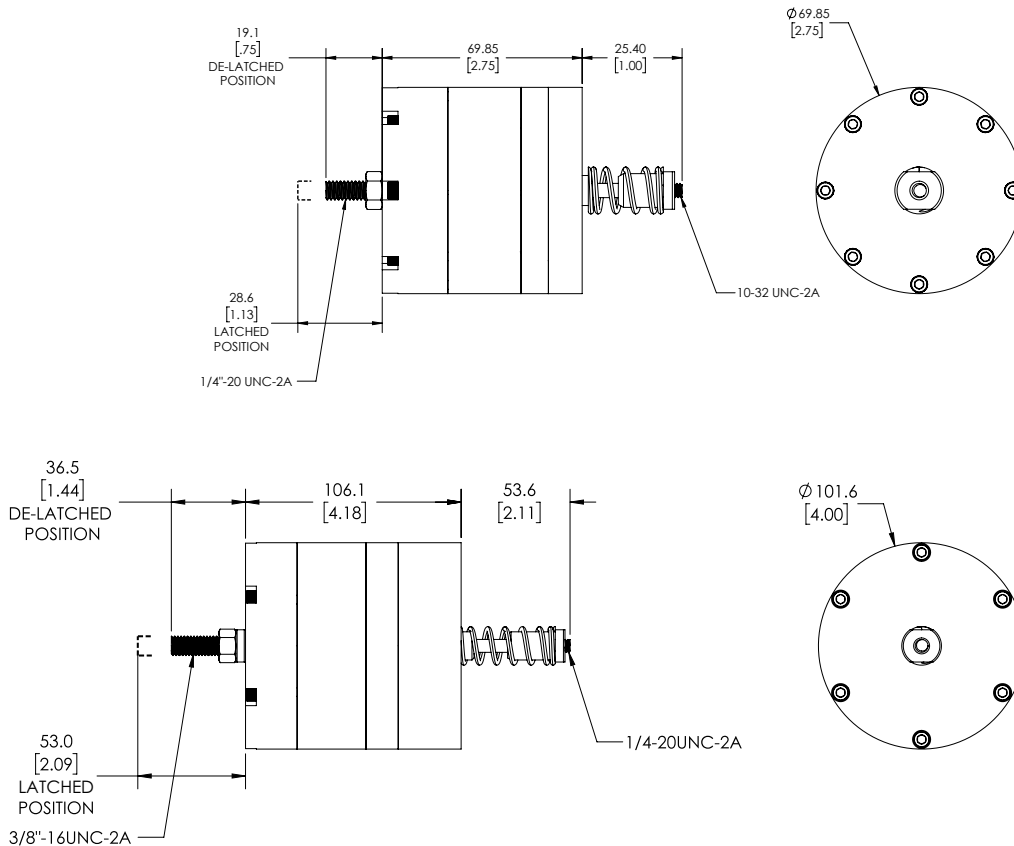
- + Switchgear
- + Fault-interrupting devices
- + Industrial controls
- + Brake systems
- + Machine controls

Technical Data (custom configurations available)

	2.75" Ø	4" Ø	4.25" Ø
Stroke (can be designed to specifications):	9.5 mm	16.5 mm	16.5 mm
Pull force:	111 N	223 N	223 N
Latching Force:	445 N	1112 N	1334 N
Supply Voltage:	160 Vdc	48 Vdc	48 Vdc
Response Times	< 30 ms	< 30 ms	< 30 ms
Coil Resistance at 20°C:	20.0 Ω	1.25 Ω	1.25 Ω
Transition Velocity at Switching:	> 1 m/s	> 1 m/s	> 1 m/s
Durability:	> 100K cycles	> 100K cycles	> 100K cycles
Momentary Current Pulse:	Up to 10 A	Up to 40 A	Up to 40 A

All TLX components are customized to fit system requirements, meaning technical specifications are unique to each customer and design. Examples given are for illustration purposes only.

Dimensional Drawings (dimensions in millimeters [inches])



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