

X-LRT-EC Series Datasheet



- 100, 250, 500, 750, 1000, 1500 mm travel
- Up to 700 mm/s speed and up to 1200 N thrust
- 500 kg load capacity
- High cantilever stiffness
- Ball screw and lead screw configurations
- Includes stainless steel dust covers
- Optional integrated power-off brake for vertical applications
- Built-in, 400 CPR, motor encoder provides slip/stall detection and recovery
- Built-in controller; daisy-chains with other Zaber products

X-LRT-EC Series Overview

Zaber's X-LRT-EC Series devices are computer-controlled, motorized linear stages with high torsional stiffness, load capacity, and long lifetime. They have low pitch, roll, yaw, and runout. A flexible stainless steel dust cover prevents the ingress of small objects. They are stand-alone units requiring only a standard 24 V or 48 V power supply. The built-in motor encoder allows closed-loop operation and slip/stall recovery features. An indexed knob provides convenient manual control for versatile operation even without a computer. An optional power-off brake is available to enable vertical applications with backdrivable screws.

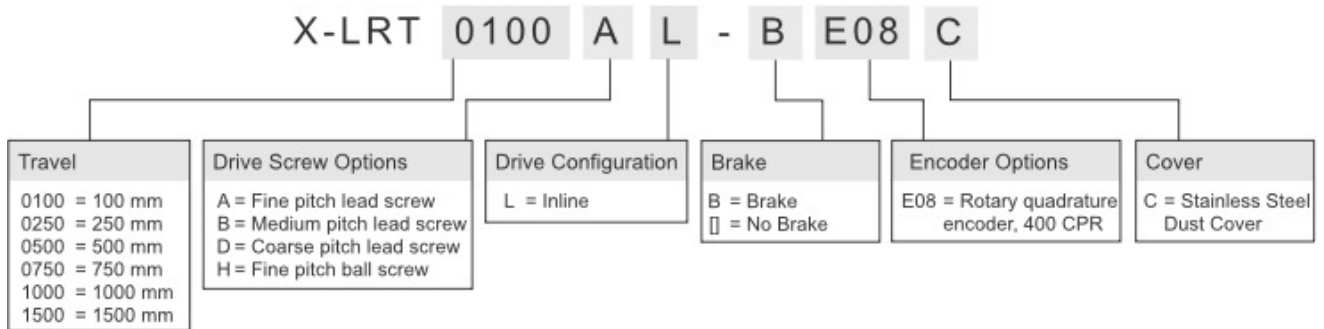
These stages connect to the RS-232 port or USB port of any computer, and they can be daisy-chained with any other Zaber products. The daisy-chain also shares power, making it possible for multiple X-Series products to share a single power supply. Convenient locking, 4-pin, M8

connectors on the unit allow for secure connection between units.

Like all of Zaber's products, the X-LRT-EC Series is designed to be 'plug and play' and very easy to set up and operate. These stages can easily be mounted in XY or XYZ configurations with an angle bracket.

For more information visit: <https://www.zaber.com/products/linear-stages/X-LRT-EC>

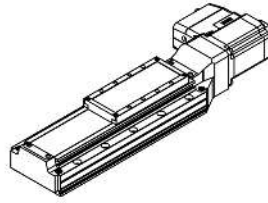
X-LRT-EC Series Part Numbering



X-LRT-EC Series Drawings

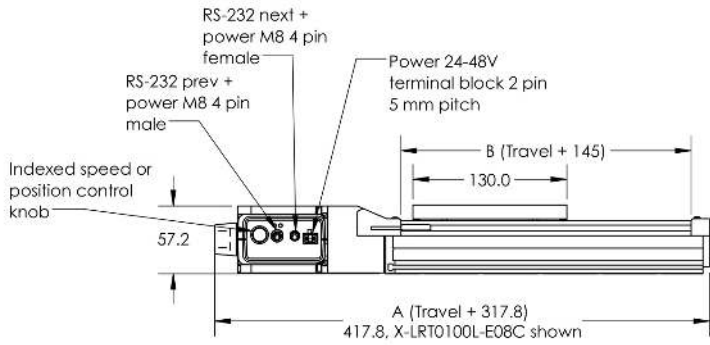
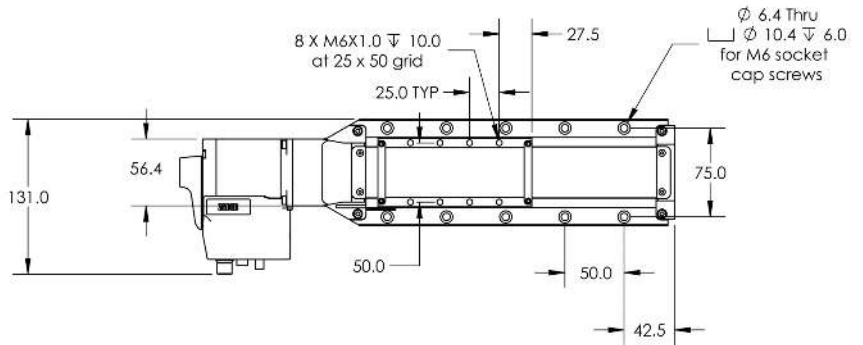
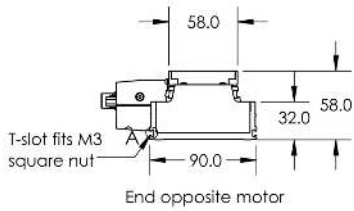
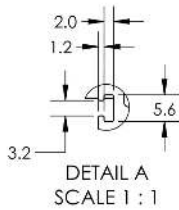
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X-LRT-EC Motorized Stage
dimensions in mm



Model Number*	Travel	A	B
X-LRT0100xL-EC	100	417.8	245
X-LRT0250xL-EC	250	567.8	395
X-LRT0500xL-EC	500	817.8	645
X-LRT0750xL-EC	750	1067.8	895
X-LRT1000xL-EC	1000	1317.8	1145
X-LRT1500xL-EC	1500	1817.8	1645

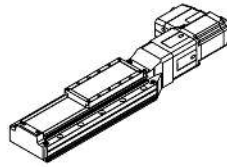
*See product page for complete list of available models at www.zaber.com



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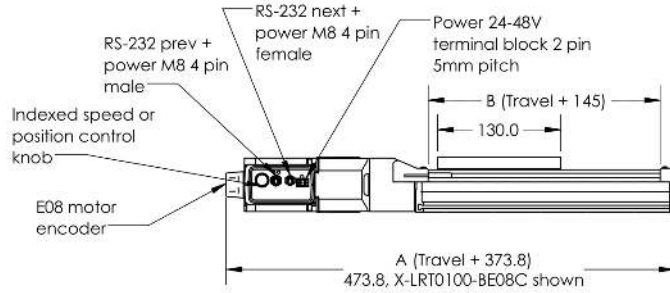
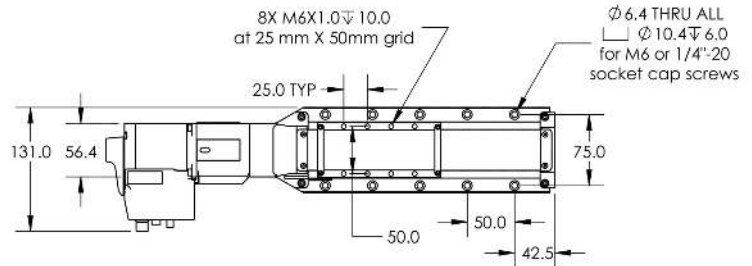
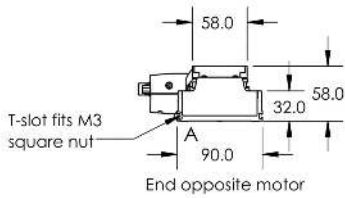
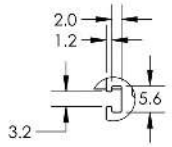
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X-LRT-BEC
dimensions in mm



Model Number*	Travel	A	B
X-LRT0100-BE08C	100.0	473.8	245.0
X-LRT0250-BE08C	250.0	623.8	395.0
X-LRT0500-BE08C	500.0	873.8	645.0
X-LRT0750-BE08C	750.0	1123.8	895.0
X-LRT1000-BE08C	1000.0	1373.8	1145.0
X-LRT1500-BE08C	1500.0	1873.8	1645.0

*See product page for complete list of available models at www.zaber.com

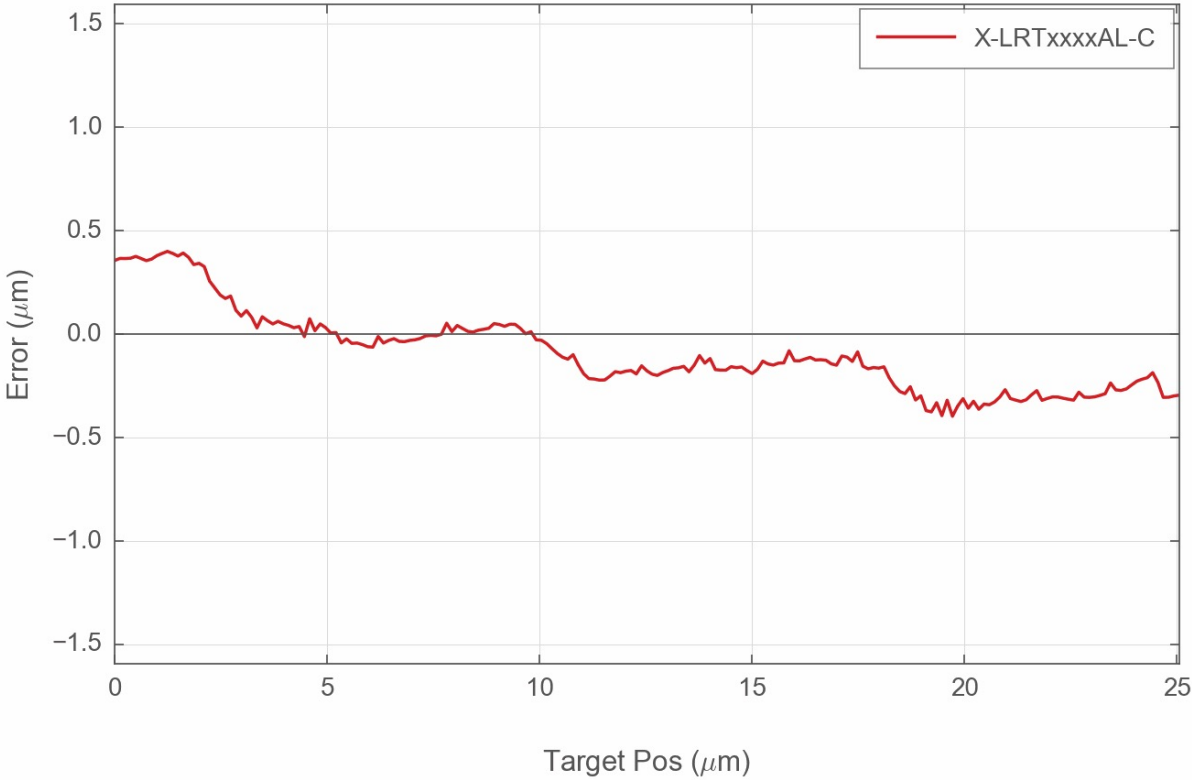


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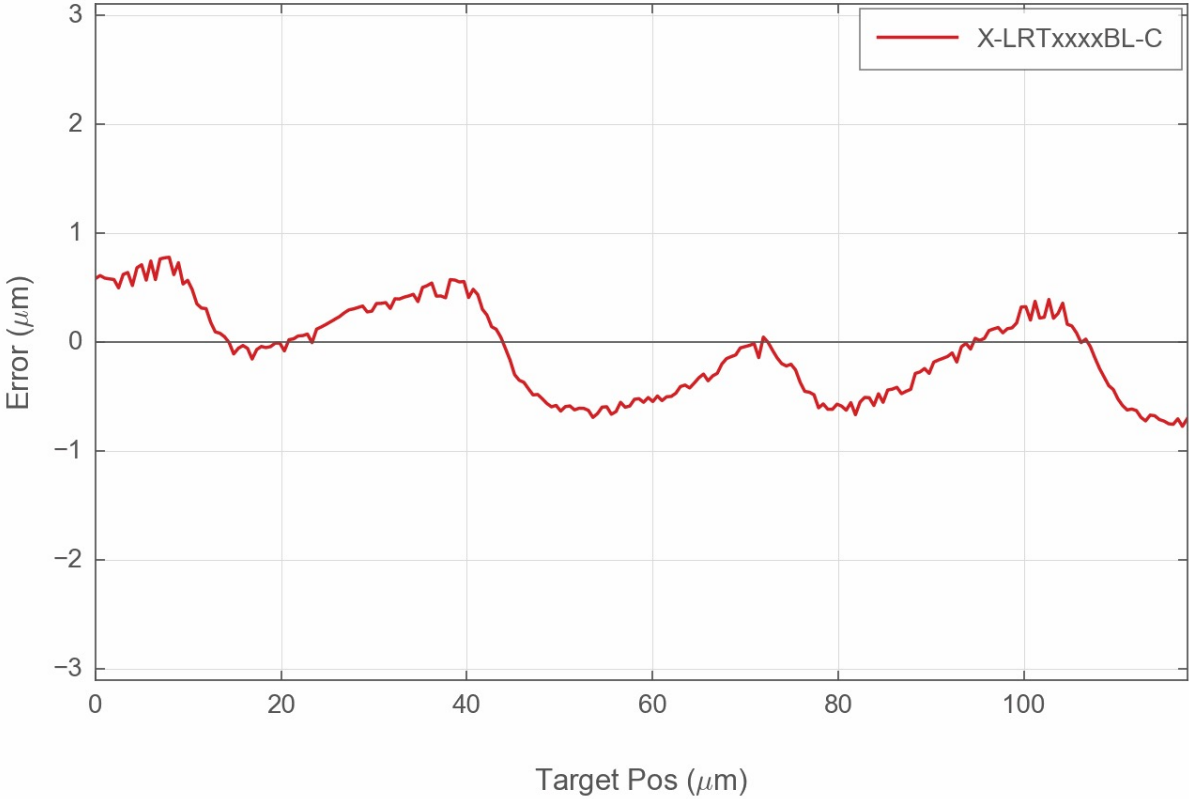
X-LRT-EC Series Specifications

X-LRT-EC Series Charts

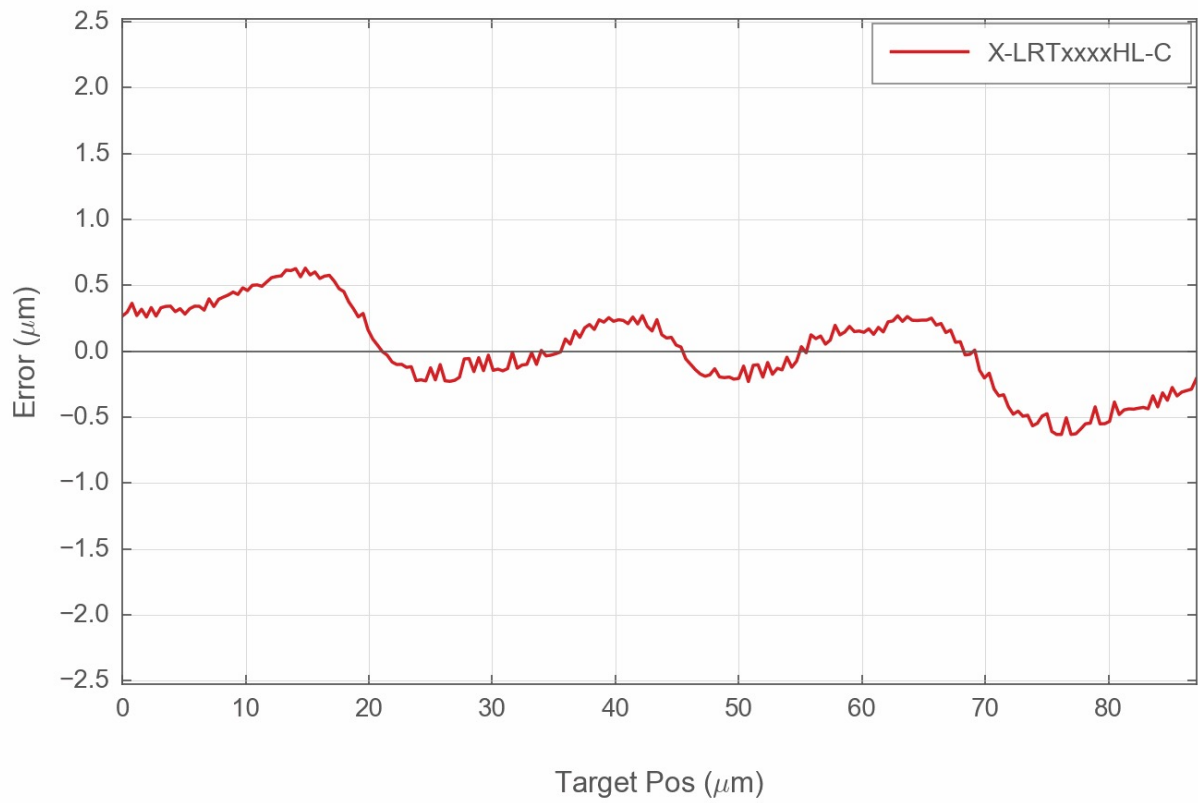
Typical Microstepping Accuracy



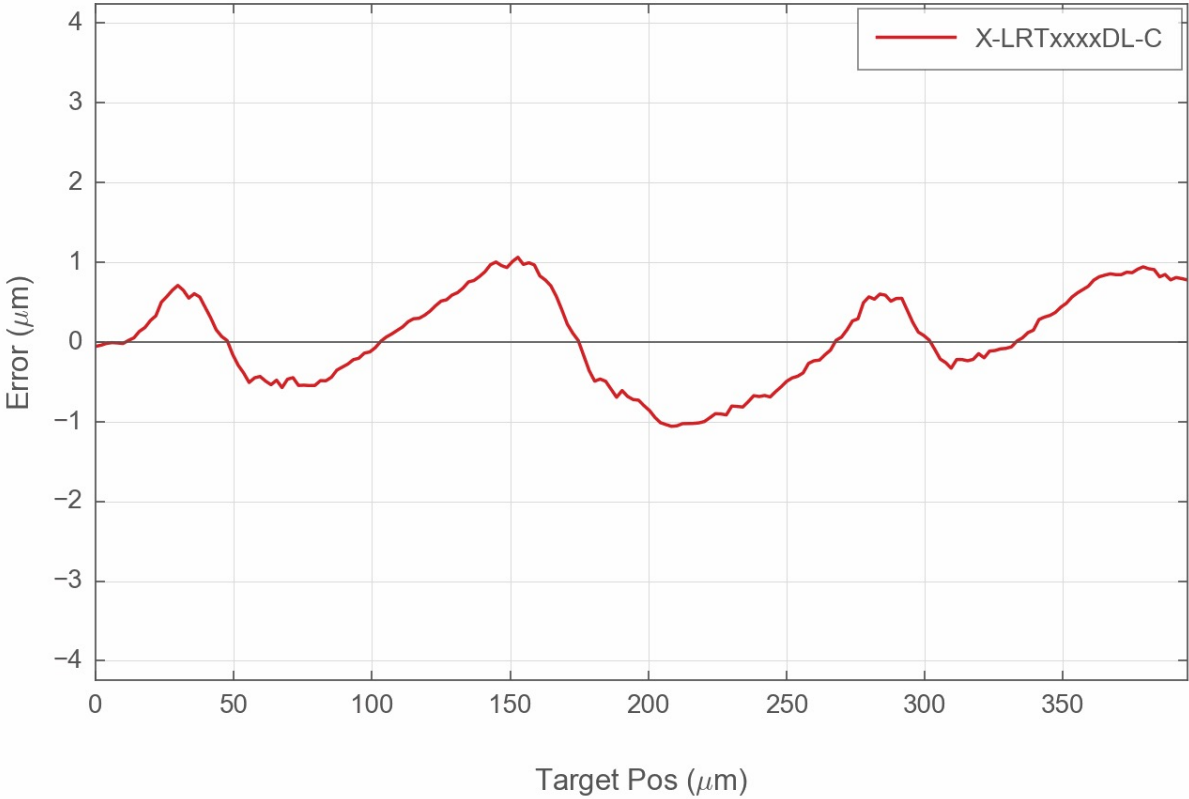
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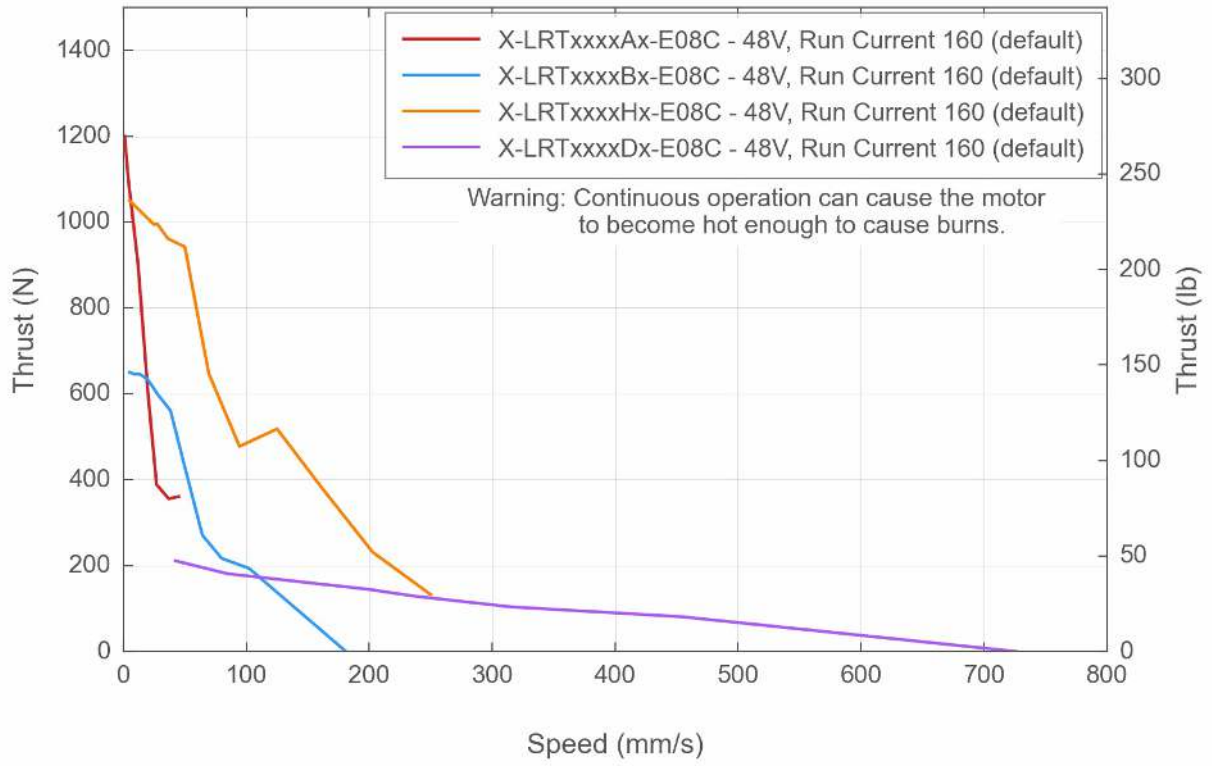
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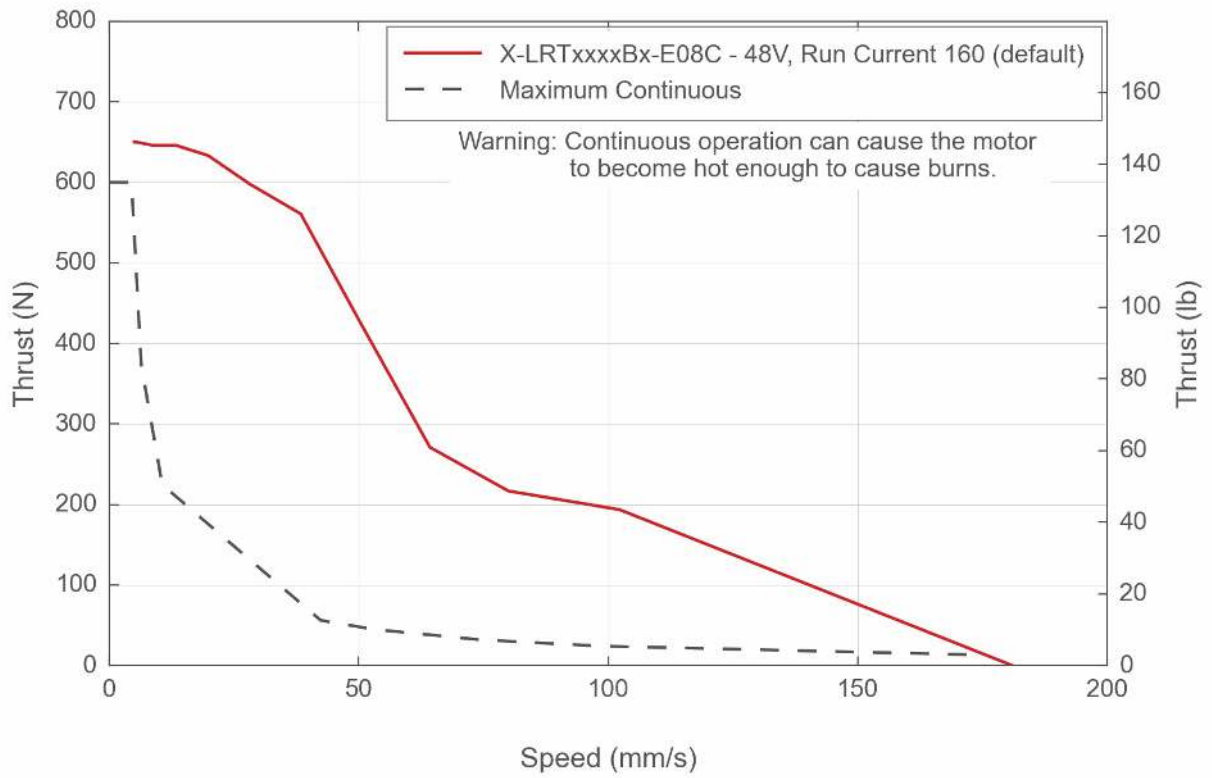
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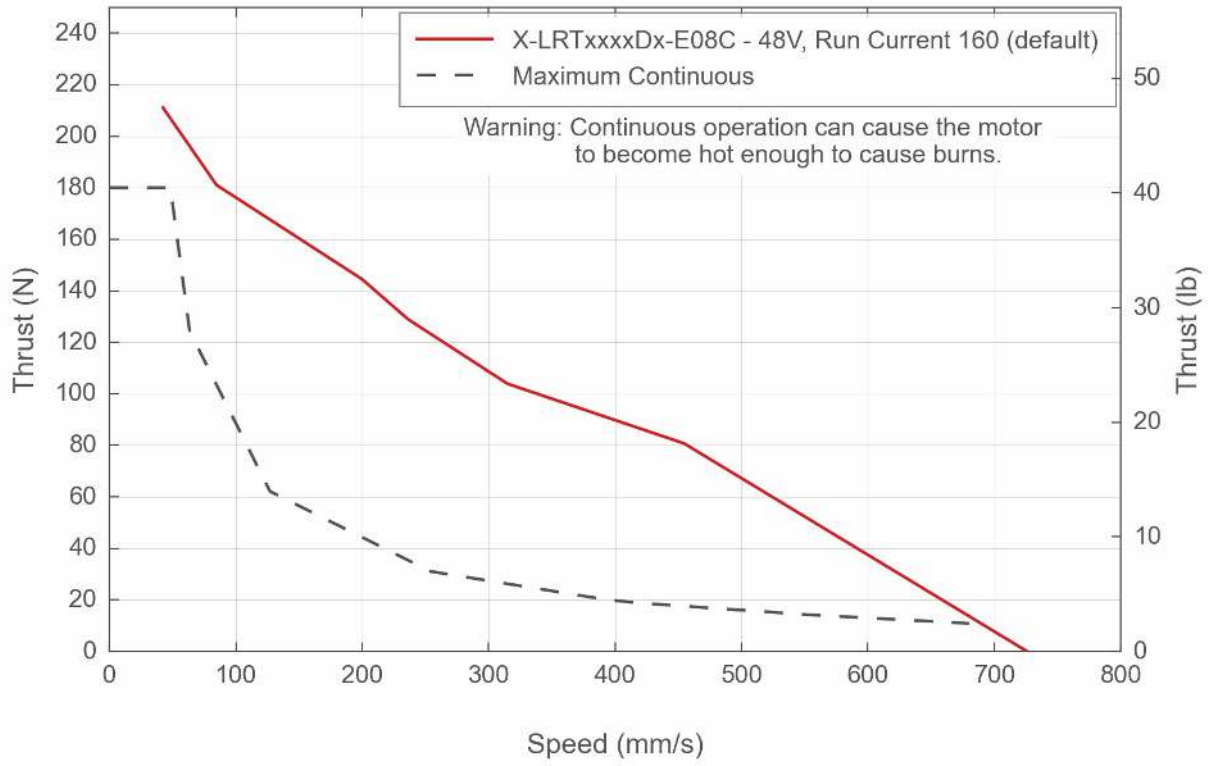
Thrust Speed Performance



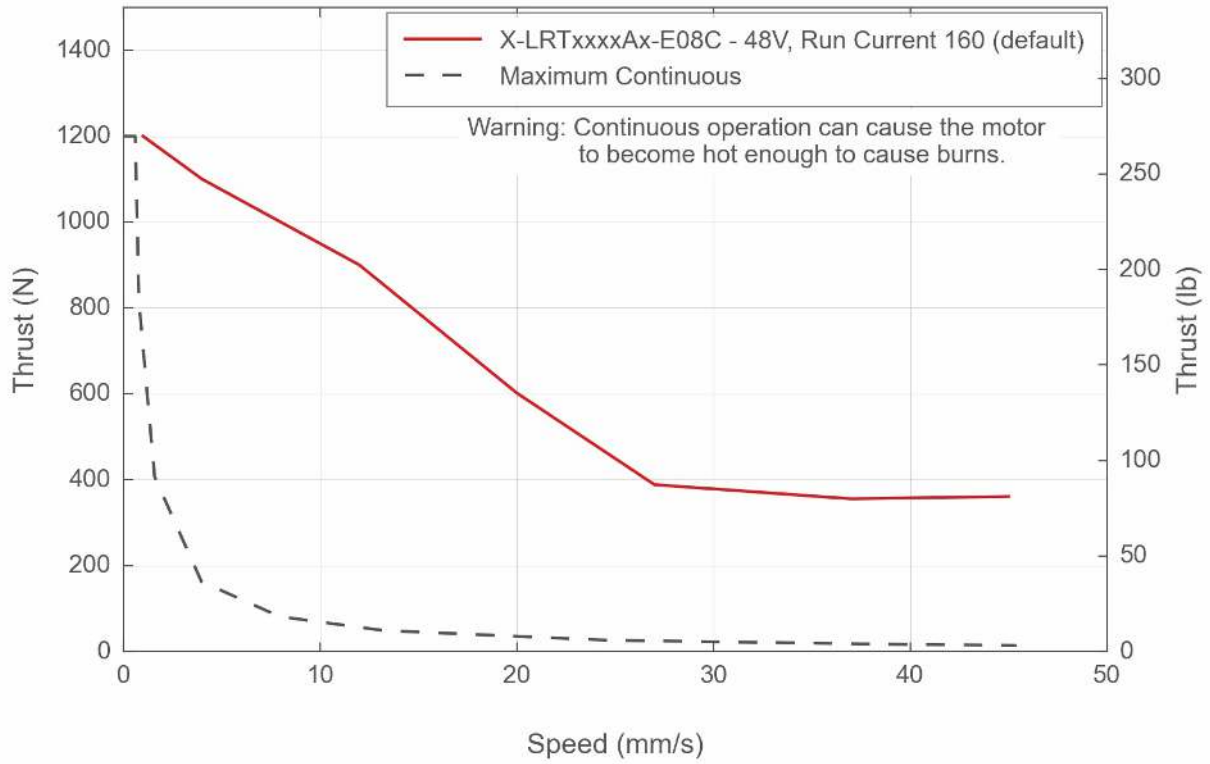
Thrust Speed Performance



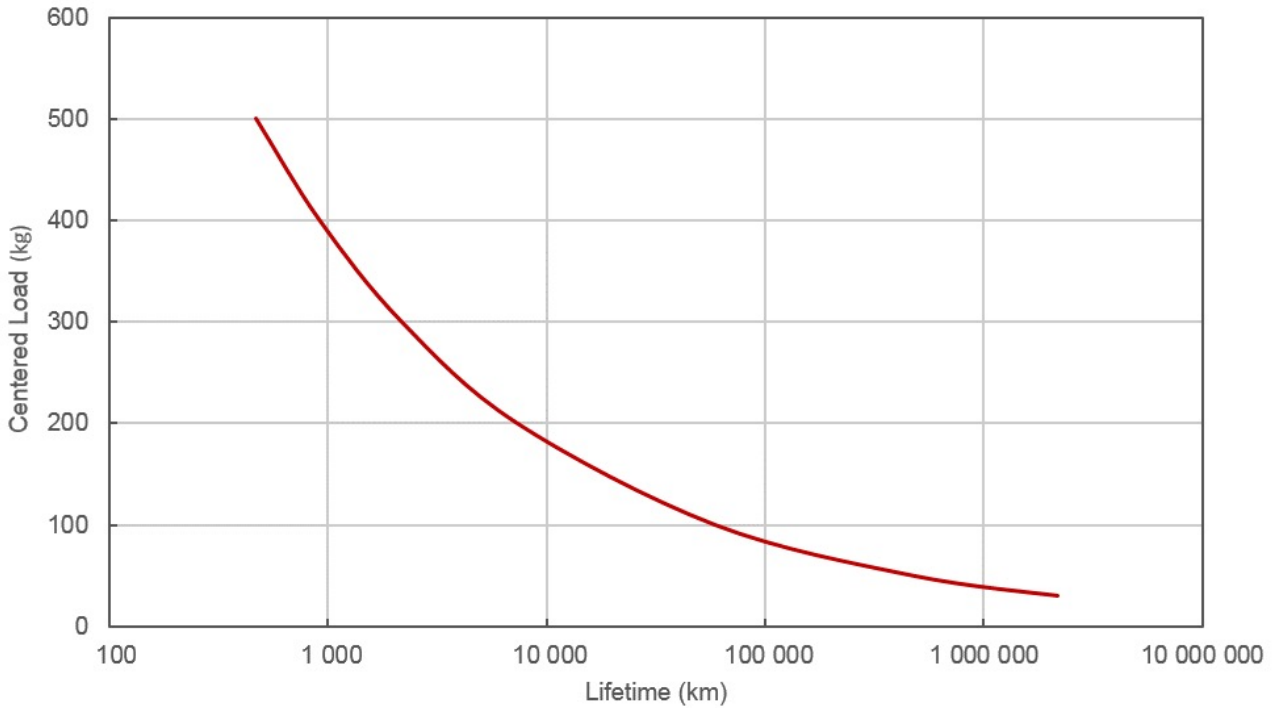
Thrust Speed Performance



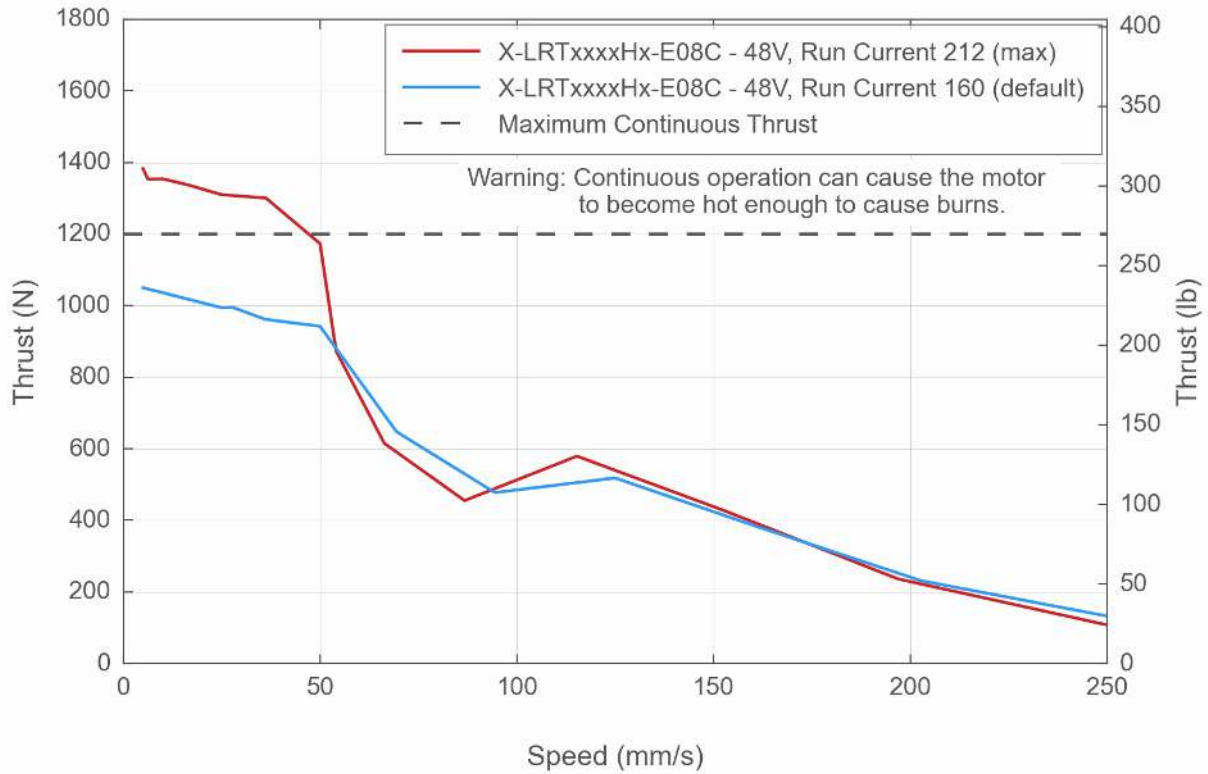
Thrust Speed Performance



Typical LRT Bearing Lifetime



Thrust Speed Performance



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