



### LFTM Torque Motors

MDS Motor offers one of the most comprehensive small diameter frameless torque motor range. LFTM frameless torque motor series deliver in a range of stator ODs, axial lengths, and winding options. Frameless motor kit technology can easily be mounted for direct-drive rotary stages, robotic joints, actuators and many other applications to minimize the use of total system volume and cost.

LFTM series offers high torque density and very low cogging torque for applications requiring smooth motion. The torque motor series has also very low power loss and temperature rise.




**LFTM-50**

- Stator OD: 50 mm
- Rotor ID: 9.6 mm
- Three different lengths
- 24 V-310 V options
- Peak torque up to 1.6 Nm



**LFTM-62**

- Stator OD: 62 mm
- Rotor ID: 20 mm
- Three different lengths
- 24 V-310 V options
- Peak torque up to 8.6 Nm



**LFTM-75**

- Stator OD: 75 mm
- Rotor ID: 30 mm
- Three different lengths
- 24V-310V options
- Peak torque up to 21.1 Nm



**LFTM-95**

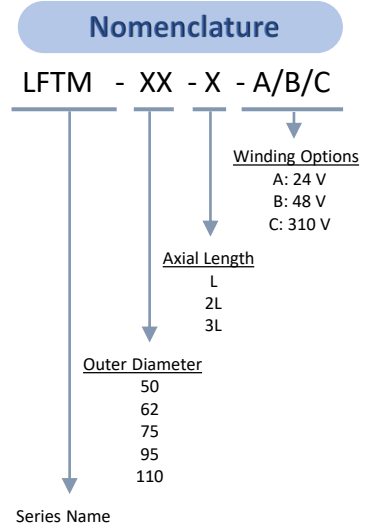
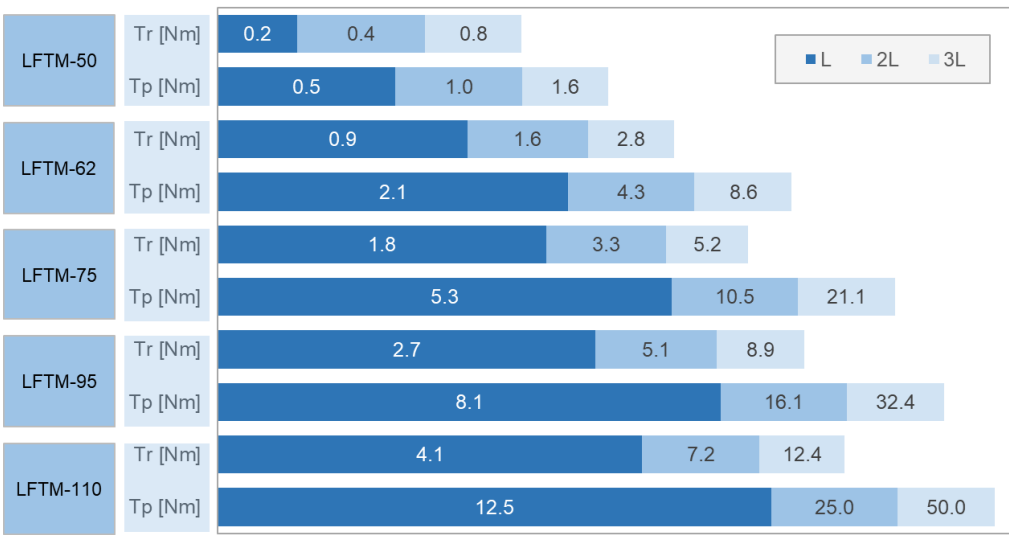
- Stator OD: 95 mm
- Rotor ID: 40 mm
- Three different lengths
- 24V-310V options
- Peak torque up to 32.4 Nm



**LFTM-110**

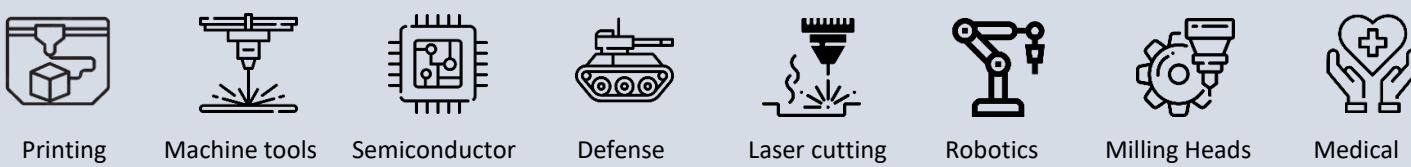
- Stator OD: 110 mm
- Rotor ID: 40 mm
- Three different lengths
- 24V-310V options
- Peak torque up to 50 Nm

### LFTM Series Torque Motor Range



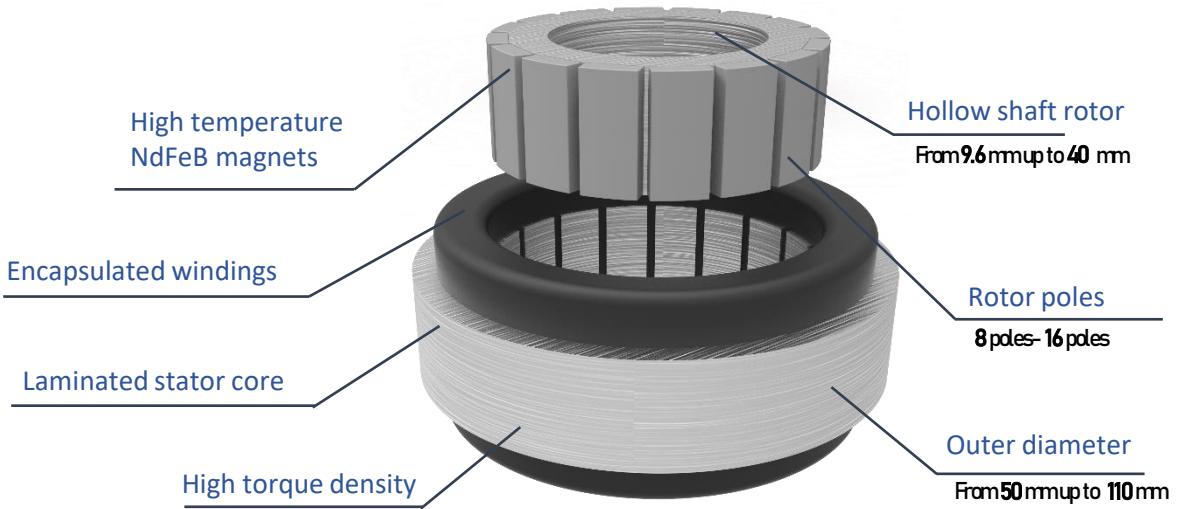
Other voltage/winding options are available upon request.

### Applications





**Structure**



**Main Features & Benefits**

- 15 Standard motor sizes
- Rated torque up to 13 Nm
- Peak torque up to 50 Nm
- Speed up to 3780 rpm
- Outer diameter up to 110 mm
- Hollow shaft up to 40 mm
- 3 Different winding options (24 V/48 V/310 V)
- AC custom winding options
- Very high torque-per-weight ratios
- Hall effect sensor option
- Low thermal resistance
- Thermistor against thermal overload
- Excellent dynamic performance
- Very low torque ripple
- Extremely low cogging
- Optimal speed control
- Minimized size and weight
- Direct system integration
- Reduced cost
- Wide product range
- Lowest possible rotor inertia
- Excellent rotor integrity
- Excellent product repeatability

