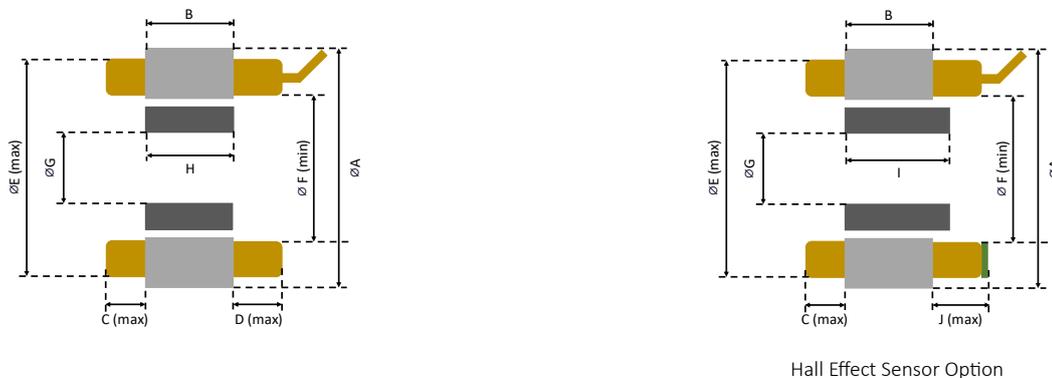


	Motor Parameters	Symbols	Units	LFTM-62-025			LFTM-62-050			LFTM-62-100		
PERFORMANCE	DC Bus Voltage	V _{DC}	V	24	48	310	24	48	310	24	48	310
	Rated Torque	T _r	Nm	0.87			1.64			2.84		
	Peak Torque	T _p	Nm	1.52		2.12	3.24		4.27	5.87		8.55
	Rated Speed	N _r	rpm	340	1025	3400	370	970	2705	200	560	2185
	No-Load Speed	N _{no-load}	rpm	695	1395	3780	610	1220	2955	365	730	2365
	Torque Constant	K _t	Nm/A	0.328		0.825	0.396		1.056	0.660		1.321
	Voltage Constant	K _v	V/rpm	0.030		0.071	0.034		0.091	0.057		0.114
	Max. Cogging Torque	T _{cog}	%	<1								
	Torque Ripple	T _{ripple}	%	<1								
	Number of Pole	2p	--	8								
ELECTRICAL	Rated Current	I _r	A _{rms}	2.53		1.05	4.14		1.55	4.30		2.15
	Peak Current	I _p	A _{rms}	4.43		2.63	8.27		4.13	9.0		6.62
	Line Resistance	R _{LL@25°C}	Ohm	3.4 (±20%)		17.75 (±20%)	1.57 (±20%)		10.07 (±20%)	1.74 (±20%)		6.6 (±20%)
	Line Inductance	L _{LL}	mH	4.0 (±30%)		26.2 (±30%)	2.9 (±30%)		20.44 (±30%)	3.9 (±30%)		15.6 (±30%)
MECHANICAL & THERMAL	Stator Weight	W _s	kg	0.37			0.66			1.25		
	Rotor Weight	W _r	kg	0.13			0.26			0.52		
	Total Weight	W _{total}	kg	0.5			0.92			1.77		
	Mech. Time Constant	K _{mech}	ms	1.0		0.87	0.66		0.60	0.53		0.50
	Thermal Resistance ⁽²⁾	R _{th}	°C/W	1.94			1.56			1.11		
	Inertia	J	kg.m ²	2.75E-05			5.46E-05			1.09E-04		
	Motor Constant	K _m	Nm/√W	0.15		0.16	0.26		0.27	0.41		0.42
	Rotor ID		mm	20								
Stator OD		mm	62									

1. All performance and electrical specifications are obtained at 25°C ambient and may change ±5%. 2. Housed version of motor mounted to 130 mm sq. x 10 mm aluminum heat sink (maximum winding temperature is 120°C). 3. All data referenced to sinusoidal commutation. 4. Higher torque and speed values as well as dimensions on request.

LFTM-62 Outline Drawing



Hall Effect Sensor Option

Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)
LFTM-62-025	62	25	9	10	58	41	20	25.1	30.1	13
LFTM-62-050	62	50	9	10	58	41	20	50.2	55.2	13
LFTM-62-100	62	100	9	10	58	41	20	100.4	105.4	13

Notes:

MOTOR LEADS:

#19 AWG Teflon® insulated, 300 mm (optional) length, 1-Red, 1-White, 1-Black.

THERMISTOR LEADS:

#26 AWG Teflon® insulated, 300 mm (optional) length, 2-Brown or Blue

SENSOR LEADS:

#26 AWG Teflon® insulated, 300 mm (optional) length, 1-Blue, 1-Green, 1-Brown, 1-White, 1-Yellow

(For detailed mounting information, including tolerances, please contact MDS Motor or refer to the MDS Motor mounting document)

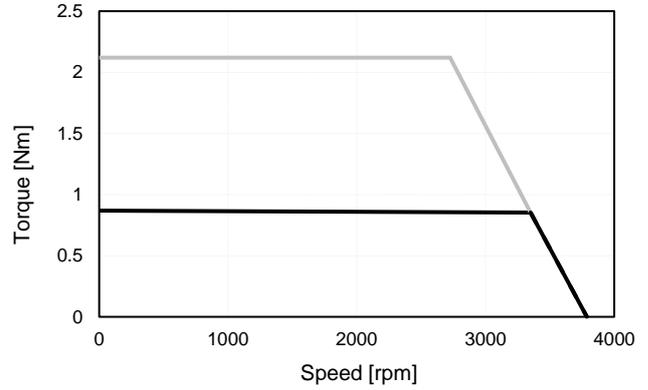
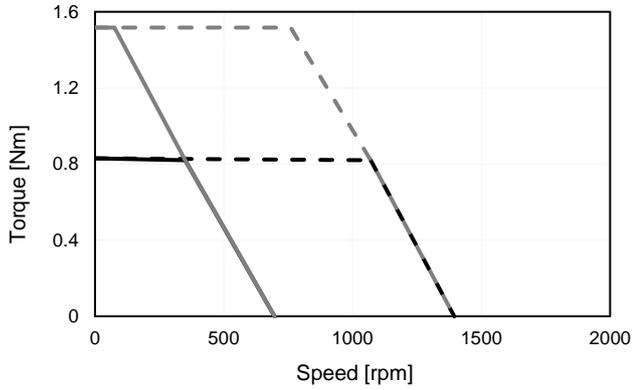
LFTM-62 Torque-Speed Curves

Tr: Rated Torque
Tp: Peak Torque

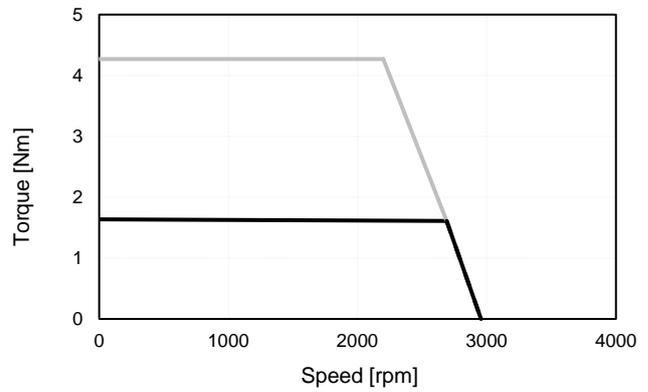
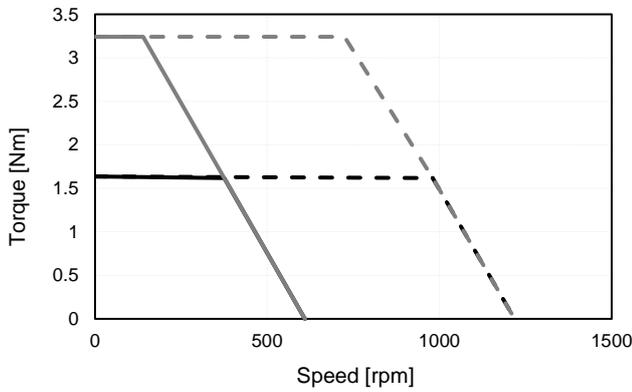
— @Tr 24V - - - @Tr 48V
— @Tp 24V - - - @Tp 48V

— @Tr 310V
— @Tp 310V

LFTM-62-025



LFTM-62-050



LFTM-62-100

