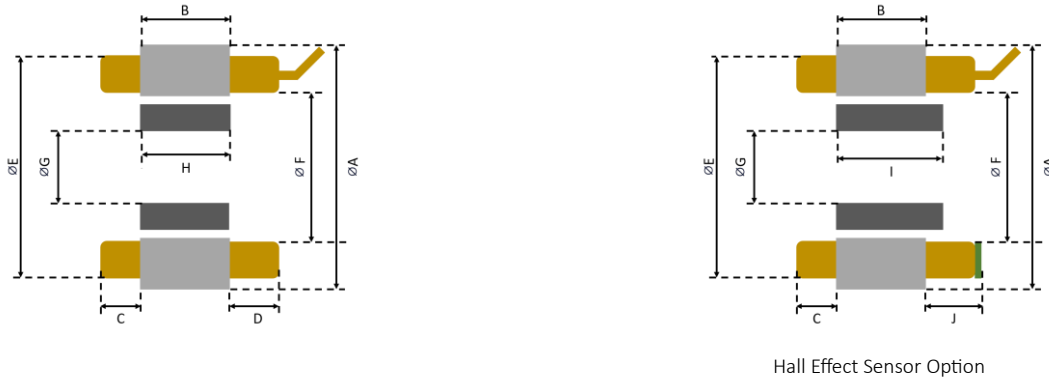


	Motor Parameters	Symbols	Units	LFTM-62-025			LFTM-62-050			LFTM-62-100		
PERFORMANCE	DC Bus Voltage	V_{DC}	V	24	48	310	24	48	310	24	48	310
	Rated Torque	T_r	Nm	0.87			1.64			2.84		
	Peak Torque	T_p	Nm	1.62		2.12	3.24		4.27	6.48		8.55
	Rated Speed	N_r	rpm	385	1140	3780	435	1095	3000	240	635	2425
	No-Load Speed	$N_{no-load}$	rpm	805	1610	4370	700	1410	3415	425	845	2730
	Torque Constant	K_t	Nm/A	0.346		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								
ELECTRICAL	Number of Pole	2p	--	8								
	Rated Current	I_r	A_{rms}	2.53		1.05	4.14		1.55	4.30		2.15
	Peak Current	I_p	A_{rms}	4.73		2.63	8.27		4.13	9.93		6.62
	Line Resistance	$R_{LL@25^\circ C}$	Ohm	3.64 ($\pm 20\%$)		17.75 ($\pm 20\%$)	1.57 ($\pm 20\%$)		10.07 ($\pm 20\%$)	1.74 ($\pm 20\%$)		6.6 ($\pm 20\%$)
	Line Inductance	L_{LL}	mH	4.05 ($\pm 30\%$)		26.25 ($\pm 30\%$)	2.89 ($\pm 30\%$)		20.44 ($\pm 30\%$)	3.9 ($\pm 30\%$)		15.58 ($\pm 30\%$)
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	1.02		0.87	0.66		0.60	0.53		0.50
	Thermal Resistance ⁽²⁾	R_{th}	$^\circ C/W$	1.94			1.56			1.11		
	Inertia	J	kg.m ²	2.8E-05			5.5E-05			1.1E-04		
	Motor Constant	K_m	Nm/ \sqrt{W}	0.15	0.09	0.05	0.19	0.12	0.07	0.34	0.21	0.11
	Rotor ID		mm	20								
	Stator OD		mm	62								

1. All performance and electrical specifications are obtained at 25°C ambient and may change $\pm 5\%$. 2. Housed version of motor mounted to 130 mm sq. x 10 mm aluminum heat sink (maximum winding temperature is 110°C). 3. 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, 500 mm (optional) length, 1-Red, 1-White, 1-Black.

THERMISTOR LEADS:

#26 AWG Teflon® insulated, 500 mm (optional) length, 2-Brown or Blue

SENSOR LEADS:

#26 AWG Teflon® insulated, 500 mm (optional) length, 1-Blue, 1-Green, 1-Brown, 1-White, 1-Yellow

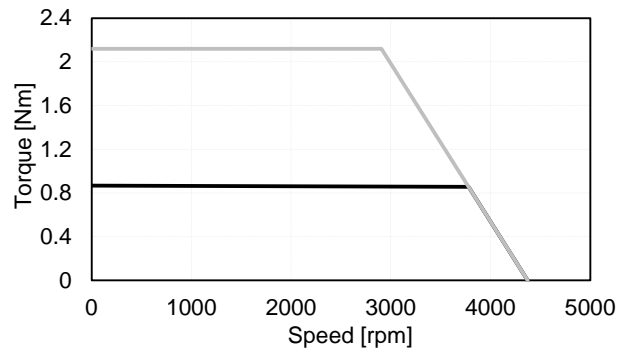
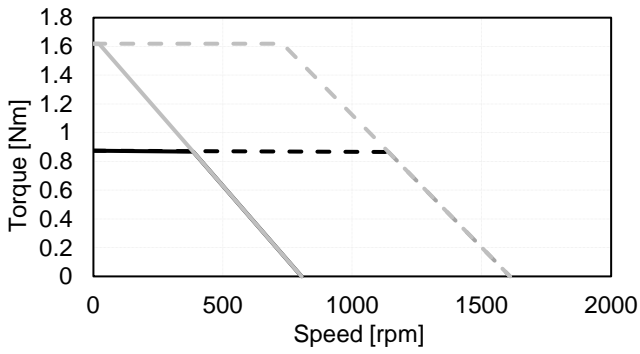
LFTM-62 Torque-Speed Curves

Tr: Rated Torque
Tp: Peak Torque

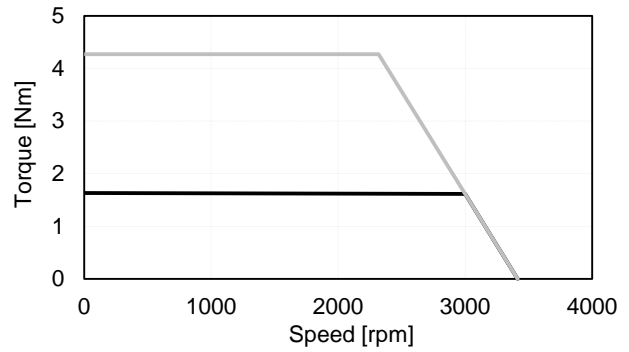
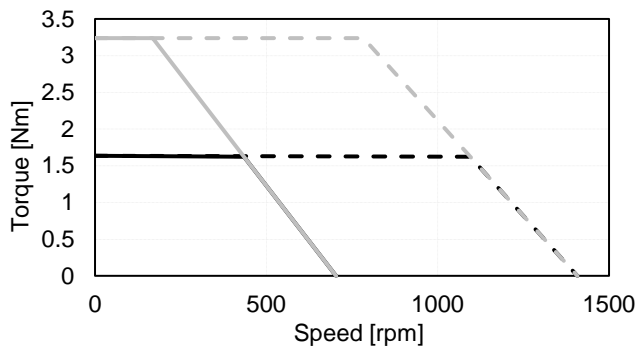
— @Tr 24V - - - @Tr 48V
— @Tp 24V - - - @Tp 48V

— @Tr 310V
— @Tp 310V

LFTM-62-025



LFTM-62-050



LFTM-62-100

