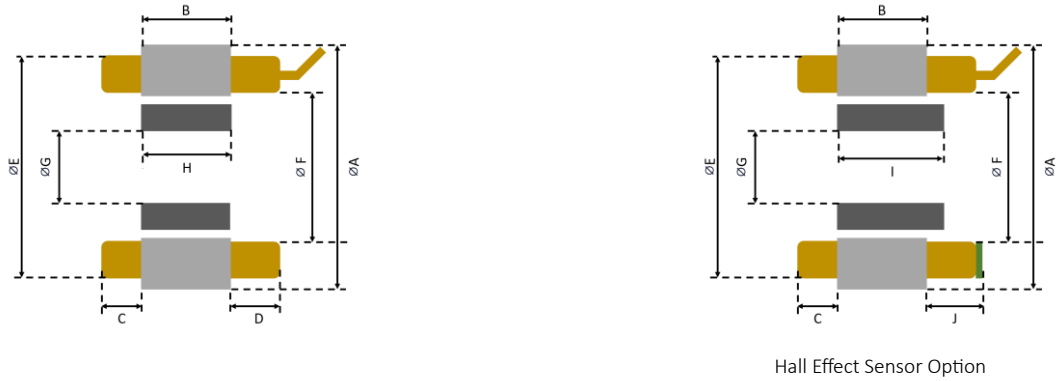


	Motor Parameters	Symbols	Units	LFTM-95-025			LFTM-95-050			LFTM-95-100				
PERFORMANCE	DC Bus Voltage	V_{DC}	V	24	48	310	24	48	310	24	48	310		
	Rated Torque	T_r	Nm	2.70			5.06			8.79	8.85			
	Peak Torque	T_p	Nm	3.36			6.73	16.1		13.48		32.41		
	Rated Speed	N_r	rpm	265	675	1400	200	500	870	95	260	770		
	No-Load Speed	$N_{no-load}$	rpm	445	890	1675	325	645	1045	180	355	900		
	Torque Constant	K_t	Nm/A	0.63			2.16		0.86	3.46		4.00		
	Voltage Constant	K_v	V/rpm	0.054			0.185		0.074	0.296		0.344		
	Max. Cogging Torque	T_{cog}	%	<1										
	Torque Ripple	T_{ripple}	%	<1										
ELECTRICAL	Number of Pole	2p	--	16										
	Rated Current	I_r	A_{rms}	4.30			1.25		5.85	1.46		5.59	2.21	
	Peak Current	I_p	A_{rms}	5.37			3.91		7.8	4.88		8.6	8.49	
	Line Resistance	$R_{LL}@25^{\circ}C$	Ohm	1.53 (±20%)		17.4 (±20%)		1.06 (±20%)		16.84 (±20%)		1.46 (±20%)		9.3 (±20%)
	Line Inductance	L_{LL}	mH	3.41 (±30%)		40.34 (±30%)		3.1 (±30%)		49.71 (±30%)		5.03 (±30%)		32.75 (±30%)
MECHANICAL & THERMAL	Stator Weight	W_s	kg	0.85			1.46			2.7				
	Rotor Weight	W_r	kg	0.32			0.64			1.28				
	Total Weight	W_{total}	kg	1.17			2.1			3.98				
	Mech. Time Constant	K_{mech}	ms	1.03		1.00		0.75		0.62		0.61		
	Thermal Resistance ⁽²⁾	R_{th}	$^{\circ}C/W$	1.23			0.92			0.75				
	Inertia	J	kg.m ²	2.2E-04			4.3E-04			8.7E-04				
	Motor Constant	K_m	Nm/√W	0.31	0.20	0.14	0.49	0.31	0.24	0.94	0.57	0.33		
	Rotor ID		mm	40										
	Stator OD		mm	95										

1. All performance and electrical specifications are obtained at 25°C ambient and may change ±5%. 2. Housed version of motor mounted to 160 mm sq. x 15 mm aluminum heat sink (maximum winding temperature is 110°C). 3. Higher torque and speed values as well as dimensions on request.

LFTM-95 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-95-025	95	25	9.5	10.5	90.8	68.8	40	25.1	30.1	13.5
LFTM-95-050	95	50	9.5	10.5	90.8	68.8	40	50.2	55.2	13.5
LFTM-95-100	95	100	9.5	10.5	90.8	68.8	40	100.4	105.4	13.5

Notes:

MOTOR LEADS:

#18 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

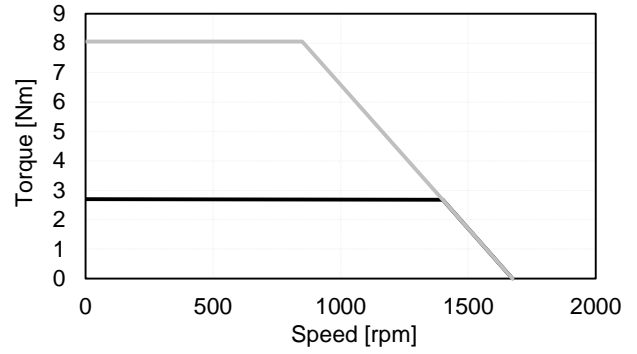
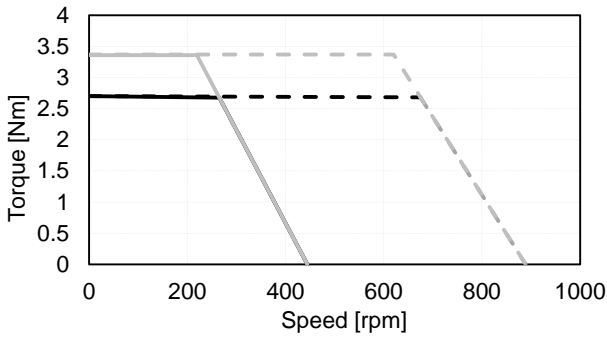
LFTM-95 Torque-Speed Curves

Tr: Rated Torque
Tp: Peak Torque

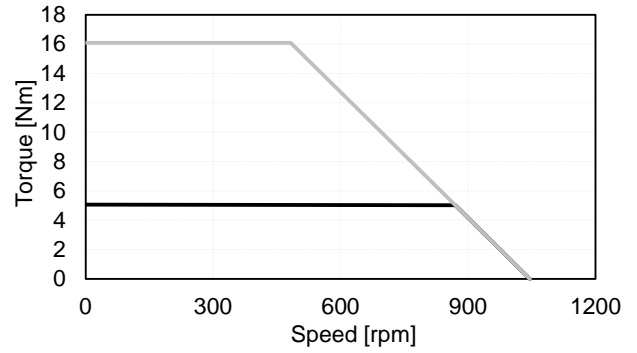
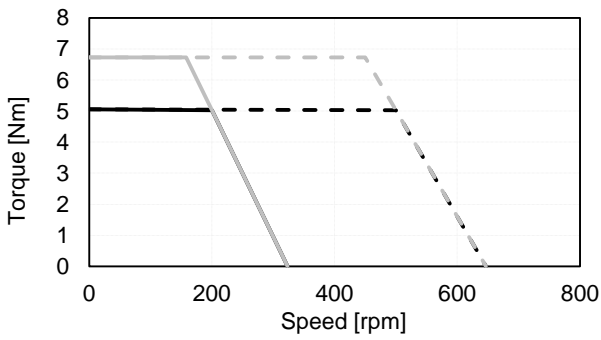
— @Tr 24V - - - @Tr 48V
— @Tp 24V - - - @Tp 48V

— @Tr 310V
— @Tp 310V

LFTM-95-025



LFTM-95-050



LFTM-95-100

