

Motor Parameters		Symbols	Units	HoSM-260-AL		HoSM-260-BL		HoSM-260-CL	
PERFORMANCE	DC Bus Voltage	V_{DC}	V	24	48	24	48	24	48
	Rated Torque	T_r	Nm	34.2		64.9		89.3	
	Peak Torque	T_p	Nm	54.3		112.1		168.3	
	Rated Speed	N_r	rpm	110	260	65	155	55	125
	No-Load Speed	$N_{no-load}$	rpm	155	320	95	195	70	145
	Torque Constant	K_t	Nm/A	1.71		2.8		3.74	
	Voltage Constant	K_v	V/rpm	0.147		0.241		0.321	
	Max. Cogging Torque	T_{cog}	%			<1			
	Torque Ripple	T_{ripple}	%			<1			
	Number of Pole	2p	--			32			
ELECTRICAL	Rated Current	I_r	A_{rms}	20		23.2		23.9	
	Peak Current	I_p	A_{rms}	32		40.4		45.5	
	Line Resistance	$R_{Ll}@25^{\circ}C$	Ohm	0.22 ($\pm 20\%$)		0.22 ($\pm 20\%$)		0.18 ($\pm 20\%$)	
	Line Inductance	$L_{Ll}@60Hz$	mH	1.31 ($\pm 30\%$)		1.63 ($\pm 30\%$)		1.91 ($\pm 30\%$)	
	MECHANICAL & THERMAL	Total Weight (+Face)	W_s	kg	25.3		33.5		41.5
Total Weight (+Flange)		W_r	kg	25.9		34.1		42.1	
Mech. Time Constant		K_{mech}	ms	3.53		2.12		1.33	
Thermal Resistance (2)		R_{th}	$^{\circ}C/W$	--		--		--	
Inertia		J	kg.m ²	0.03859		0.06218		0.08443	
Friction Torque		T_f	Nm			3.7			
Motor Constant		K_m	Nm/ \sqrt{W}	1.72	1.12	3.09	2	3.94	2.61
Rotor ID			mm			65			

Motor Parameters		Symbols	Units	HoSM-260-AH		HoSM-260-BH		HoSM-260-CH	
PERFORMANCE	DC Bus Voltage	V_{DC}	V	310	560	310	560	310	560
	Rated Torque	T_r	Nm	34.8		64.5		89.8	
	Peak Torque	T_p	Nm	115.5		233.7		351.3	
	Rated Speed	N_r	rpm	280	535	260	490	210	395
	No-Load Speed	$N_{no-load}$	rpm	345	635	310	560	245	445
	Torque Constant	K_t	Nm/A	10.26		11.53		14.49	
	Voltage Constant	K_v	V/rpm	0.879		0.987		1.241	
	Max. Cogging Torque	T_{cog}	%			<1			
	Torque Ripple	T_{ripple}	%			<1			
	Number of Pole	2p	--			32			
ELECTRICAL	Rated Current	I_r	A_{rms}	3.4		5.6		6.2	
	Peak Current	I_p	A_{rms}	12.1		22		26.3	
	Line Resistance	$R_{Ll}@25^{\circ}C$	Ohm	7.88 ($\pm 20\%$)		3.76 ($\pm 20\%$)		3.3 ($\pm 20\%$)	
	Line Inductance	$L_{Ll}@60Hz$	mH	47.2 ($\pm 30\%$)		27.7 ($\pm 30\%$)		28.6 ($\pm 30\%$)	
	MECHANICAL & THERMAL	Total Weight (+Face)	W_s	kg	25.3		33.5		41.5
Total Weight (+Flange)		W_r	kg	25.9		34.1		42.1	
Mech. Time Constant		K_{mech}	ms	3.53		2.15		1.6	
Thermal Resistance (2)		R_{th}	$^{\circ}C/W$	--		--		--	
Inertia		J	kg.m ²	0.03859		0.06218		0.08443	
Friction Torque		T_f	Nm			3.7			
Motor Constant		K_m	Nm/ \sqrt{W}	1.09	0.79	1.54	1.12	2.02	1.47
Rotor ID			mm			65			

1. All performance and electrical specifications are obtained at 25°C ambient and may change $\pm 10\%$.

HoSM-260 Torque-Speed Curves

Tr: Rated Torque
Tp: Peak Torque

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

— @Tr 310V - - - @Tr 560V
— @Tp 310V - - - @Tp 560V



