

Motor Parameters		Symbols	Units	WTRM-260-L-034		WTRM-260-L-070		WTRM-260-L-140	
PERFORMANCE	DC Bus Voltage	V_{DC}	V	24	48	24	48	24	48
	Rated Torque	T_r	Nm	69.1		135.7		201.5	
	Peak Torque	T_{peak}	Nm	101.6		199.5		266.9	
	Rated Speed	N_r	rpm	75	200	40	125	35	95
	No-Load Speed	$N_{no-load}$	rpm	145	300	95	190	65	130
	Torque Constant	K_t	Nm/A	1.82		2.83		4.07	
	Voltage Constant	K_v	V/rpm	0.156		0.243		0.348	
	Max. Cogging Torque	T_{cog}	%			<1			
	Torque Ripple	T_{ripple}	%			<1			
ELECTRICAL	Number of Pole	$2p$	--			40			
	Rated Current	I_r	A_{rms}	38		48		49.5	
	Peak Current	I_{peak}	A_{rms}	57		72		66	
	Line Resistance	$R_{LL}@25^{\circ}C$	Ohm	0.21 ($\pm 20\%$)		0.19 ($\pm 20\%$)		0.17 ($\pm 20\%$)	
	Line Inductance	$L_{LL}@60Hz$	mH	1.04 ($\pm 30\%$)		1.18 ($\pm 30\%$)		1.15 ($\pm 30\%$)	
MECHANICAL & THERMAL	Total Weight	W_{total}	kg	9.35		16.56		30.51	
	Mech. Time Constant	K_{mech}	ms	1.88		1.47		1.23	
	Thermal Resistance ⁽²⁾	R_{th}	$^{\circ}C/W$	0.079		0.042		0.022	
	Inertia	J	$kg.m^2$	0.0247		0.0498		0.1000	
	Water Inlet Temp.	T_w	$^{\circ}C$			20			
	Water Temp. Diff. Between Inlet-Outlet	ΔT_w	$^{\circ}C$	2.3		2.6		1.6	
	Min. Water Volumetric Flow Rate	q_w	l/min	4.4		5.9		9.0	
	Pressure Drop for q_w	ΔP_w	bar	0.1378		0.1560		0.0727	
	Environment Temp.	T_{env}	$^{\circ}C$			20			
Rotor ID	R_{ID}	mm			178				

Motor Parameters		Symbols	Units	WTRM-260-H-035		WTRM-260-H-070		WTRM-260-H-140	
PERFORMANCE	DC Bus Voltage	V_{DC}	V	310	560	310	560	310	560
	Rated Torque	T_r	Nm	83.9		166.9		335.3	
	Peak Torque	T_{peak}	Nm	142.5		282.8		567.8	
	Rated Speed	N_r	rpm	195	400	175	350	125	255
	No-Load Speed	$N_{no-load}$	rpm	320	590	270	495	195	360
	Torque Constant	K_t	Nm/A	10.83		12.84		17.65	
	Voltage Constant	K_v	V/rpm	0.938		1.112		1.529	
	Max. Cogging Torque	T_{cog}	%			<1			
	Torque Ripple	T_{ripple}	%			<1			
ELECTRICAL	Number of Pole	$2p$	--			40			
	Rated Current	I_r	A_{rms}	7.8		13		19	
	Peak Current	I_{peak}	A_{rms}	14		23.4		34.2	
	Line Resistance	$R_{LL}@25^{\circ}C$	Ohm	7.72 ($\pm 20\%$)		4.1 ($\pm 20\%$)		3.16 ($\pm 20\%$)	
	Line Inductance	$L_{LL}@60Hz$	mH	37.5 ($\pm 30\%$)		24.5 ($\pm 30\%$)		22.3 ($\pm 30\%$)	
MECHANICAL & THERMAL	Total Weight	W_{total}	kg	9.35		16.56		30.51	
	Mech. Time Constant	K_{mech}	ms	1.97		1.50		1.23	
	Thermal Resistance ⁽²⁾	R_{th}	$^{\circ}C/W$	0.079		0.042		0.022	
	Inertia	J	$kg.m^2$	0.0247		0.0498		0.1000	
	Water Inlet Temp.	T_w	$^{\circ}C$			20			
	Water Temp. Diff. Between Inlet-Outlet	ΔT_w	$^{\circ}C$	3.7		4.1		4.4	
	Min. Water Volumetric Flow Rate	q_w	l/min	4.4		5.9		9.0	
	Pressure Drop for q_w	ΔP_w	bar	0.1378		0.1560		0.0727	
	Environment Temp.	T_{env}	$^{\circ}C$			20			
Rotor ID	R_{ID}	mm			178				

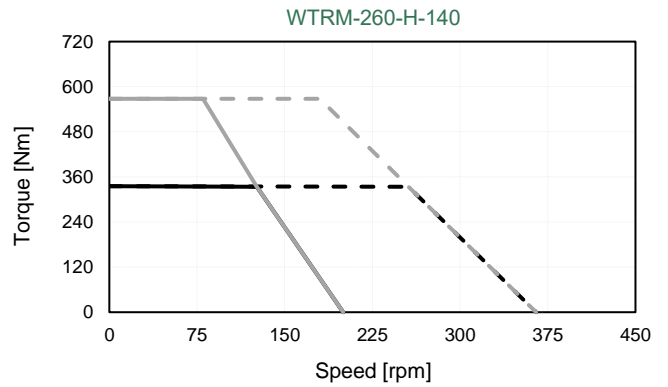
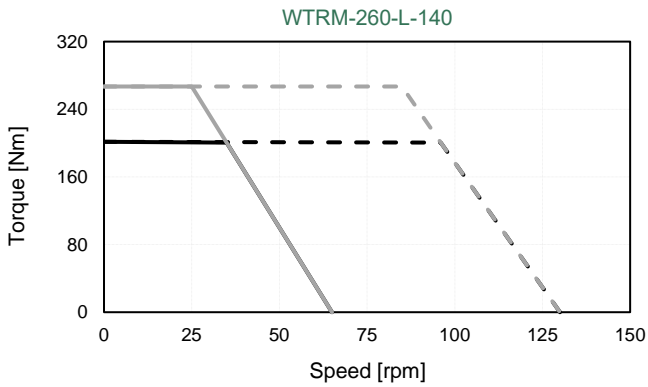
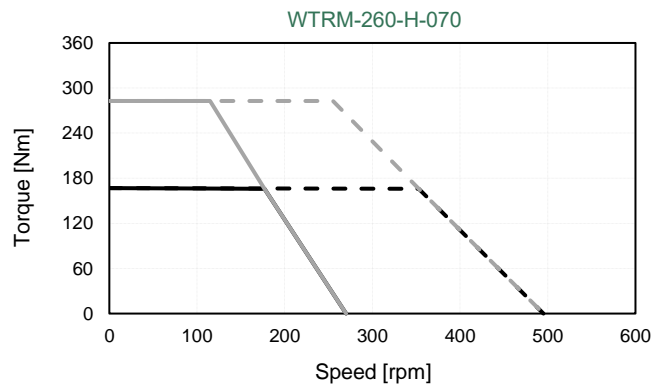
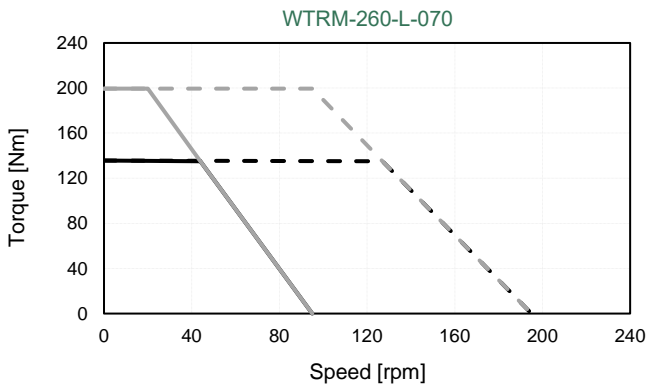
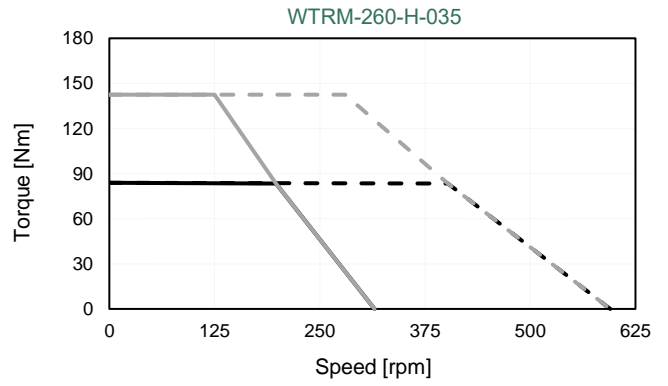
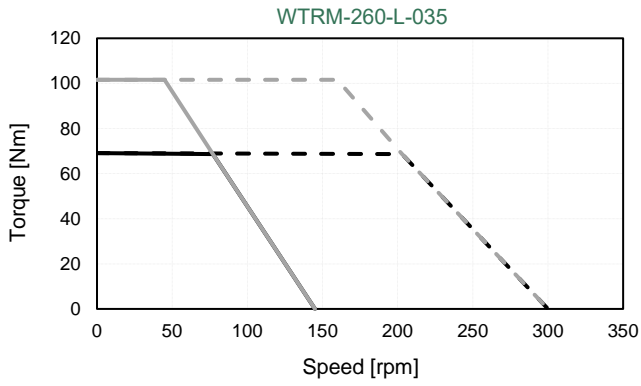
1. All performance and electrical specifications are obtained at 25°C ambient and may change $\pm 10\%$. 2. Maximum coil temperature is 130°C. 3. Higher torque and speed values as well as dimensions on request.

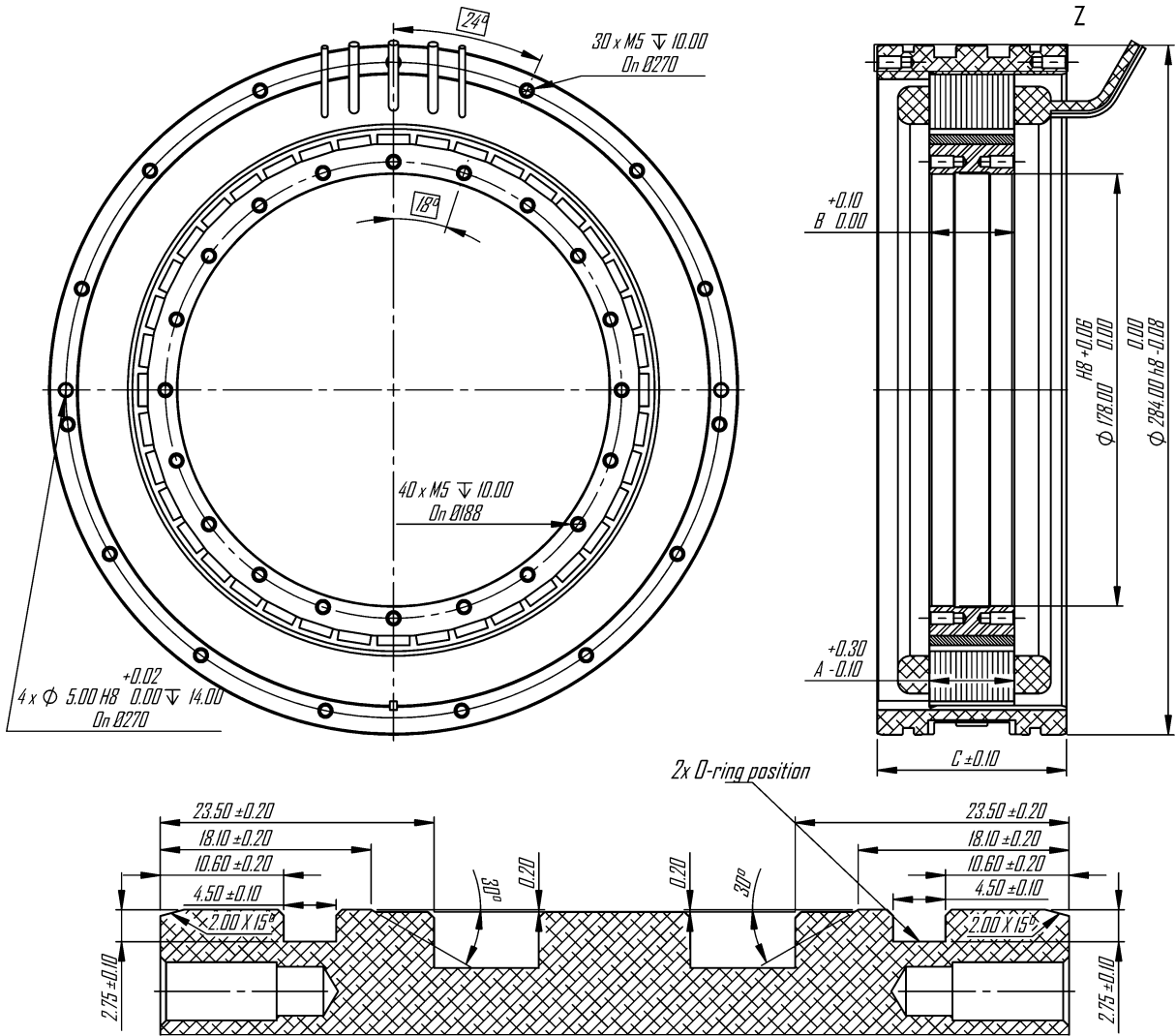
WTRM-260-(L/H)-Torque-Speed Curves

Tr: Rated Torque
Tp: Peak Torque

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

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





DETAIL Z
SCALE 2 : 1

Model	A (mm)	B (mm)	C (mm)
WTRM-(L/H)-260-035	35	35.1	78
WTRM-(L/H)-260-070	70	70.2	113
WTRM-(L/H)-260-140	140	140.4	183

All dimensions in mm

Notes:

MOTOR LEADS:

WTRM-260-L: #7 AWG Teflon® insulated, 500 mm (optional) length, 1-Red, 1-White, 1-Black.
 WTRM-260-H: #11 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.