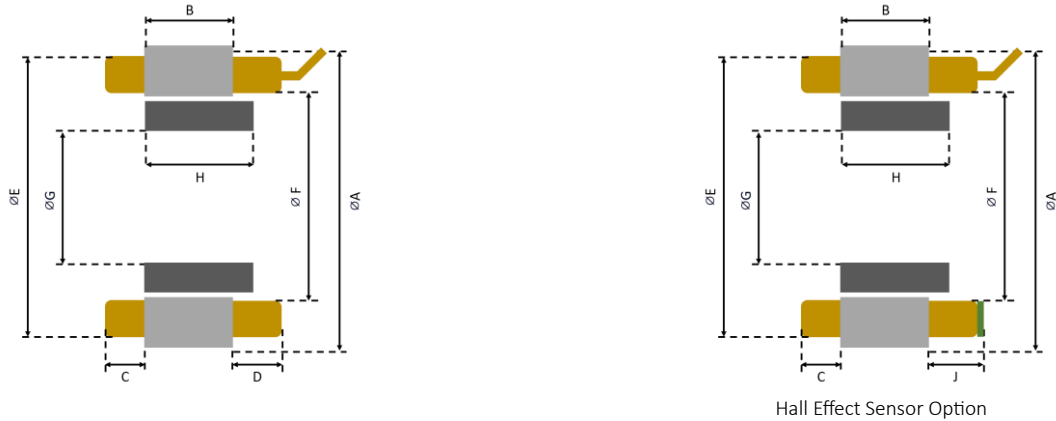


	Motor Parameters	Symbols	Units	UT-TML-200-015		UT-TMH-200-015
PERFORMANCE	DC Bus Voltage	V_{DC}	V	24	48	310
	Rated Torque	T_r	Nm	10.05		10.25
	Peak Torque	T_p	Nm	23.7		31.3
	Rated Speed	N_r	rpm	185	430	2025
	No-Load Speed	$N_{no-load}$	rpm	270	545	2330
	Torque Constant	K_t	Nm/A	1.01		1.53
	Voltage Constant	K_v	V/rpm	0.087		0.133
	Max. Cogging Torque	T_{cog}	%			<1
	Torque Ripple	T_{ripple}	%			<1
	Number of Pole	2p	--			24
ELECTRICAL	Rated Current	I_r	A_{rms}	10		6.7
	Peak Current	I_p	A_{rms}	25		23.45
	Line Resistance	$R_{LL}@25^{\circ}C$	Ohm	0.52 ($\pm 20\%$)		1.14 ($\pm 20\%$)
	Line Inductance	$L_{LL}@60Hz$	mH	2.0 ($\pm 30\%$)		4.3 ($\pm 30\%$)
MECHANICAL & THERMAL	Stator Weight	W_s	kg	1.6		1.6
	Rotor Weight	W_r	kg	0.93		0.93
	Total Weight	W_{total}	kg	2.53		2.53
	Mech. Time Constant	K_{mech}	ms	2.74		2.59
	Thermal Resistance ⁽²⁾	R_{th}	$^{\circ}C/W$	0.75		0.63
	Inertia	J	$kg.m^2$			4.414E-3
	Motor Constant	K_m	Nm/\sqrt{W}	0.72	0.47	0.22
	Rotor ID		mm			120
Stator OD		mm			200	

1. All performance and electrical specifications are obtained at 25°C ambient and may change $\pm 10\%$. 2. Housed version of motor mounted to 300 mm sq. x 15 mm aluminum heat sink (maximum winding temperature is 120°C). 3. Higher torque and speed values as well as dimensions on request.

UT-TM(L/H)-200 Outline Drawing



Model	A	B	C	D	E	F	G	H	J
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
UT-TRM-200-015	200	15	11	13	193	156.5	120	17.6	16

Notes:

MOTOR LEADS:

UT-TM(L/H)-200-015: #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

SENSOR LEADS:

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

UT-TM(L/H)-200 Torque-Speed Curves

Tr: Rated Torque
Tp: Peak Torque

