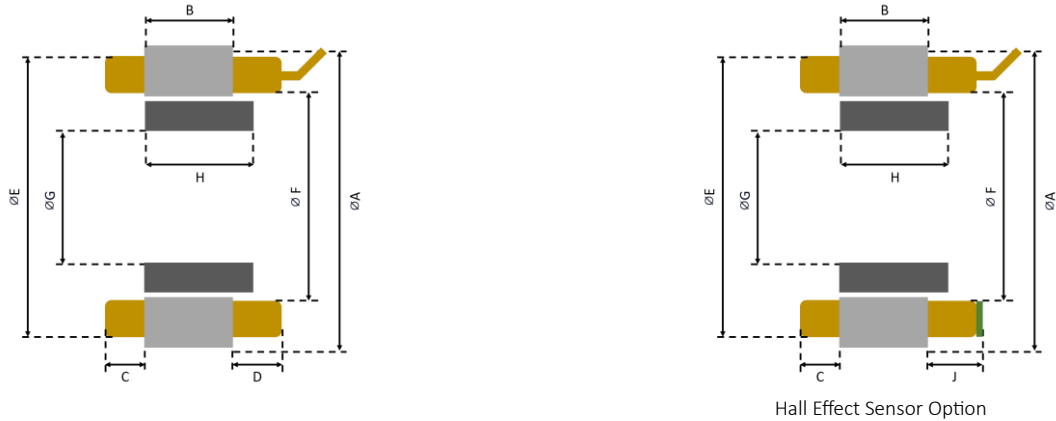


	Motor Parameters	Symbols	Units	UT-TML-95-012		UT-TMH-95-012
PERFORMANCE	DC Bus Voltage	V_{DC}	V	24	48	310
	Rated Torque	T_r	Nm	1.70		1.70
	Peak Torque	T_p	Nm	4.00		4.25
	Rated Speed	N_r	rpm	320	800	3100
	No-Load Speed	$N_{no-load}$	rpm	565	1130	3600
	Torque Constant	K_t	Nm/A	0.49		0.97
	Voltage Constant	K_v	V/rpm	0.042		0.086
	Max. Cogging Torque	T_{cog}	%	<1		
	Torque Ripple	T_{ripple}	%	<1		
	Number of Pole	2p	--	16		
ELECTRICAL	Rated Current	I_r	A_{rms}	3.50		1.75
	Peak Current	I_p	A_{rms}	8.50		4.50
	Line Resistance	$R_{LL}@25^{\circ}C$	Ohm	2.30 ($\pm 20\%$)		8.70 ($\pm 20\%$)
	Line Inductance	$L_{LL}@60Hz$	mH	4.00 ($\pm 30\%$)		7.60 ($\pm 30\%$)
MECHANICAL & THERMAL	Stator Weight	W_s	kg	0.35		0.35
	Rotor Weight	W_r	kg	0.19		0.19
	Total Weight	W_{total}	kg	0.54		0.54
	Mech. Time Constant	K_{mech}	ms	1.49		0.72
	Thermal Resistance ⁽²⁾	R_{th}	$^{\circ}C/W$	-		-
	Inertia	J	$kg.m^2$	1.28E-4		
	Motor Constant	K_m	Nm/\sqrt{W}	0.04		0.08
	Rotor ID		mm	40		
Stator OD		mm	95			

1. All performance and electrical specifications are obtained at 25°C ambient and may change $\pm 10\%$. 2. Housed version of motor mounted to 180 mm sq. x 10 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)-95 Outline Drawing



Model	A	B	C	D	E	F	G	H	J
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
UT-TRM-95-012	95	12.5	8	8	91	68	40	15.1	11

Notes:

MOTOR LEADS:

UT-TM(L/H)-95-012: #20 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)-95 Torque-Speed Curves

Tr: Rated Torque
Tp: Peak Torque

