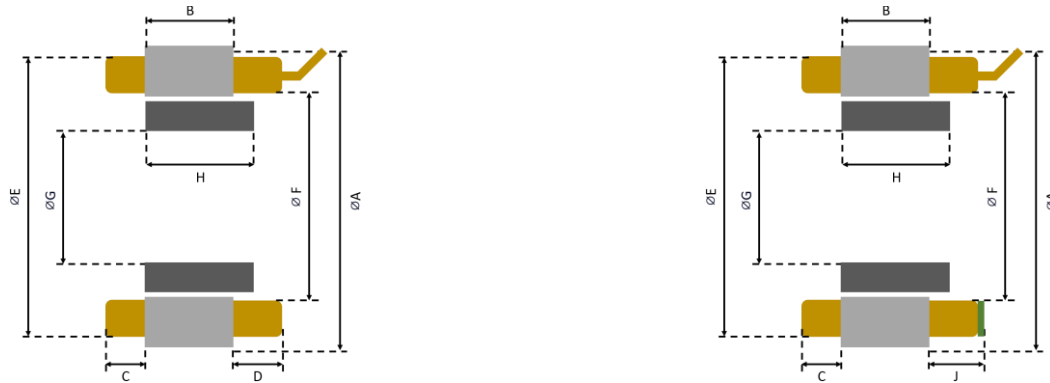


Motor Parameters		Symbols	Units	UT-TML-230-015		UT-TMH-230-015
PERFORMANCE	DC Bus Voltage	V_{dc}	V	24	48	310
	Rated Torque	T_r	Nm	14.35		14.55
	Peak Torque	T_p	Nm	33		38.25
	Rated Speed	N_r	rpm	135	320	1820
	No-Load Speed	$N_{no-load}$	rpm	200	400	2075
	Torque Constant	K_t	Nm/A	1.36		1.71
	Voltage Constant	K_v	V/rpm	0.117		0.149
	Max. Cogging Torque	T_{cog}	%			<1
	Torque Ripple	T_{ripple}	%			<1
	Number of Pole	2p	--			32
ELECTRICAL	Rated Current	I_r	A_{rms}	10.6		8.5
	Peak Current	I_p	A_{rms}	26.5		25.5
	Line Resistance	$R_{LL}@25^{\circ}C$	Ohm	0.5 ($\pm 20\%$)		0.82 ($\pm 20\%$)
	Line Inductance	$L_{LL}@60Hz$	mH	2.0 ($\pm 30\%$)		3.2 ($\pm 30\%$)
MECHANICAL & THERMAL	Stator Weight	W_s	kg	1.94		1.94
	Rotor Weight	W_r	kg	1.12		1.12
	Total Weight	W_{total}	kg	3.06		3.06
	Mech. Time Constant	K_{mech}	ms	2.51		2.58
	Thermal Resistance ⁽²⁾	R_{th}	$^{\circ}C/W$	0.61		0.49
	Inertia	J	$kg.m^2$			7.643E-3
	Motor Constant	K_m	Nm/\sqrt{W}	1.01	0.65	0.27
	Rotor ID		mm			148
Stator OD		mm			230	

1. All performance and electrical specifications are obtained at 25°C ambient and may change $\pm 10\%$. 2. Housed version of motor mounted to 340 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)-230 Outline Drawing



Hall Effect Sensor Option

Model	A	B	C	D	E	F	G	H	J
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
UT-TRM-230-015	230	15	11	13	223	185	148	17.6	16

Notes:

MOTOR LEADS:

UT-TM(L/H)-230-015: #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)-230 Torque-Speed Curves

Tr: Rated Torque
Tp: Peak Torque

