

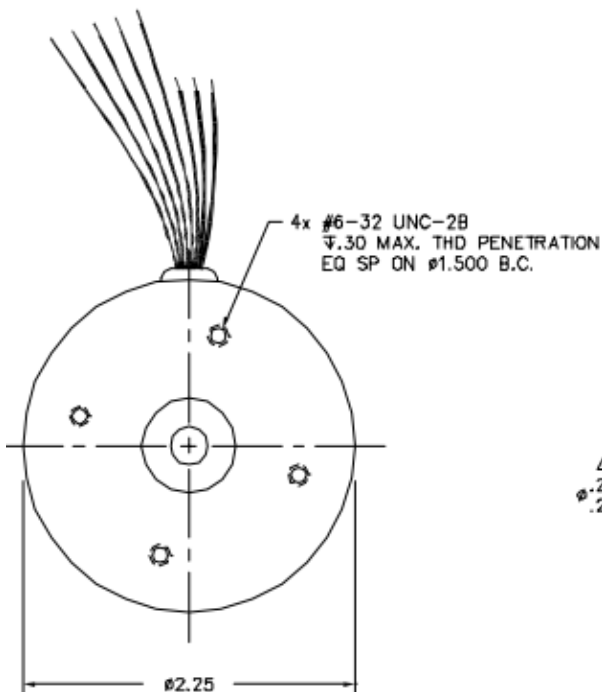
LEAD COLOR	CIRCUIT TERMINAL	WIRE SIZE AWG.
BROWN	SENSOR 1	24
BLUE	SENSOR 2	24
ORANGE	SENSOR 3	24
YELLOW	SENSOR SUPPLY	24
GREY	SENSOR RETURN	24
RED	PHASE A	20
BLACK	PHASE B	20
GREEN	PHASE C	20

WINDING CONSTANTS*	UNITS	TOL	SYM	WDC Z
DC RESISTANCE	OHMS	±12.5%	R	0.13
VOLTAGE @ T_p	VOLTS	NOMINAL	V_p	6.59
CURRENT @ T_p	AMPERES	NOMINAL	I_p	50.7
TORQUE SENSITIVITY	OZ-IN/AMP	±10%	K_t	4.93
BACK EMF CONSTANT	VOLTS/(RAD/SEC)	±10%	K_b	0.0348
INDUCTANCE @ 1Khz	MILLIHENRIES	±30%	L	0.165

MOTOR PARAMETERS*	UNITS	SYM	VALUE
PEAK TORQUE	OZ-IN	T_p	250.0
CONTINUOUS STALL TORQUE**	OZ-IN	T_{CS}	63.8
MOTOR CONSTANT	OZ-IN/ \sqrt{WATT}	K_M	13.7
ELECTRICAL TIME CONSTANT	MILLISECONDS	T_E	1.27
MECHANICAL TIME CONSTANT	MILLISECONDS	T_M	1.74
POWER I ² R @ T_p	WATTS	P	334
DAMPING FACTOR (ZERO IMPEDANCE)	OZ-IN/(RAD/SEC)	F_D	1.32
FRICTION TORQUE	OZ-IN	T_F	3.0
ROTOR INERTIA	OZ-IN-SEC ²	J_M	2.3×10^{-3}
THEO. NO LOAD SPEED	RPM	S_0	5270
THEO ACC @ T_p	RAD/SEC ²	α_T	1.1×10^5
THERMAL RESISTANCE	°C/WATT	θ_{TH}	4.0
MAX ALLOWABLE WINDING TEMP	°C	TEMP	155
PHASES/WINDING TYPE			3/ Δ
POLES			4
WEIGHT	OZ	W_T	28.0

* 25°C AMBIENT TEMP

** 25°C AMBIENT, 155° WINDING TEMP



LEAD WIRE: TEFLON TYPE E
 3x #18 AWG
 5.0 MIN. LONG
 5x #24 AWG
 8.0 MIN. LONG
 STRIP AND TIN
 ENDS .25 ±.05 EA

