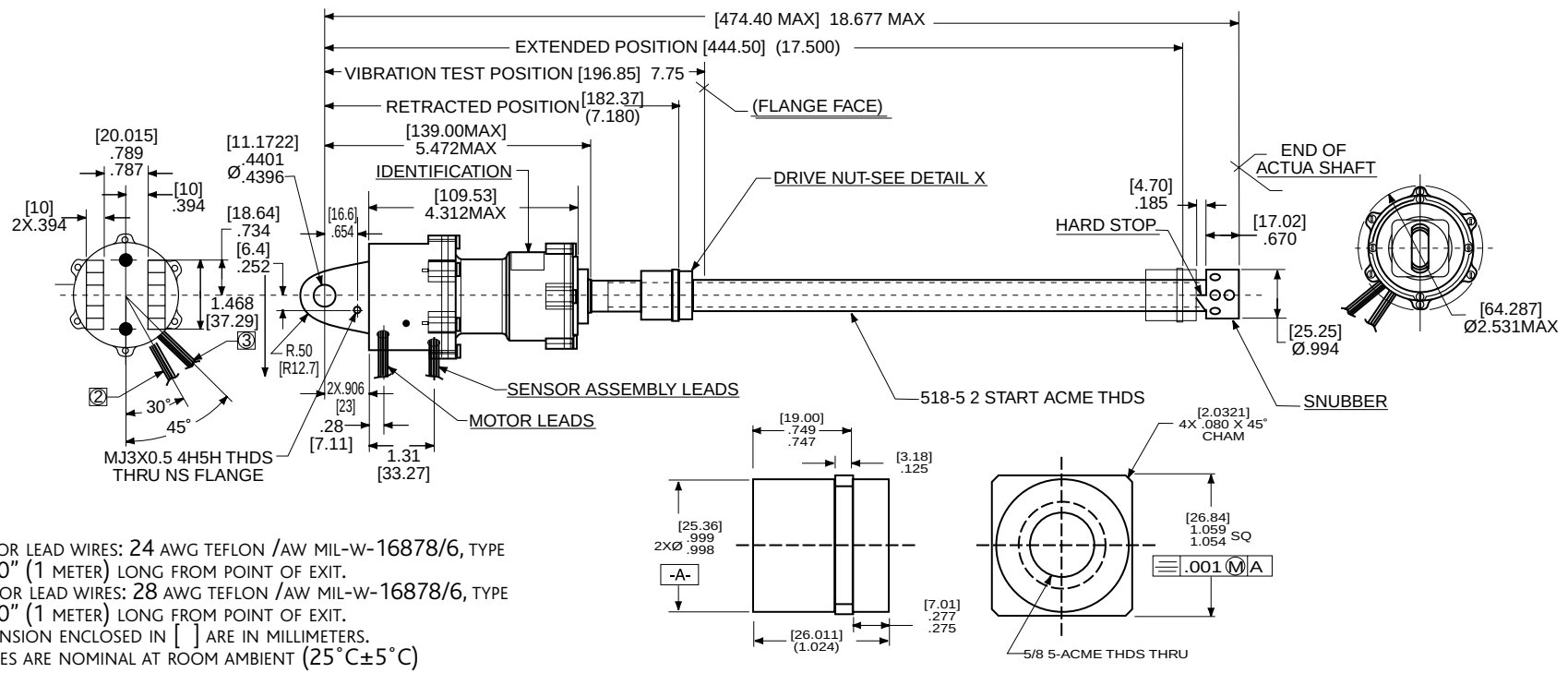


3 MOTOR LEAD WIRES: 24 AWG TEFLON /AW MIL-W-16878/6, TYPE ET 40" (1 METER) LONG FROM POINT OF EXIT.
2 SENSOR LEAD WIRES: 28 AWG TEFLON /AW MIL-W-16878/6, TYPE ET 40" (1 METER) LONG FROM POINT OF EXIT.
2. DIMENSION ENCLOSED IN [ ] ARE IN MILLIMETERS.
1 VALUES ARE NOMINAL AT ROOM AMBIENT (25°C±5°C)

Electrical and Performance Data

MOTOR ONLY

VOLTAGE (VDC)	23-33
NUMBER OF POLES	8
NUMBER OF PHASES	3
WINDING CONNECTION	Y/N
WINDING RESISTANCE (LINE NEUTRAL)(OHM)	30-35
TORQUE SENSITIVITY (OZ-IN/AMP) Kt	42.5
BACK EMF (V/RAD/SEC) Kb	0.30
INDUCTANCE (LINE TO NEUTRAL)(mH)	8-16
THEORETICAL NO LOAD SPEED (RPM)	900
FRICTION AND DETENT TORQUE (OZ-IN)(MIN)	3
STALL TORQUE (OZ-IN)(MIN)	12

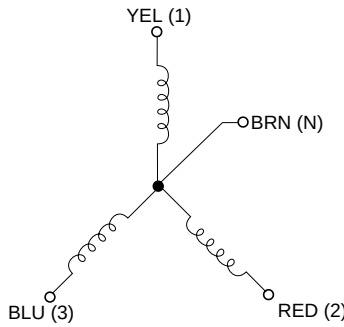
ACTUATOR

VOLTAGE (VDC)	23-33
RATED LOAD (LBS)	830
HOLDING LOADS(LBS)	920
RATED LOAD SPEED (IN/SEC)	0.011
INPUT POWER (STALL)(W)	35

General Data

ACTUATOR WEIGHT (LBS)	3.65
OPERATING TEMPERATURE(°C)	-60 TO +35
DRIVE NUT BACKSLASH WITH A ±5.50 LB REVERSING LOAD (MAX) (INCH)	0.040

Motor Circuit Diagram



WITH A MOTOR SEQUENCE OF 3, 2, 1 AND HALL EFFECTS SENSOR SEQUENCE OF H3, H2, H1 HI THE ACTUATOR ROTATION SHALL BE CW (DRIVE NUT EXTENDINGS) AS VIEWED FROM LEAD SCREW END, REVERSE SEQUENCE FROM CCW ROTATION (DRIVE NUT RETRACTING).

DUCOMMUN TECHNOLOGIES, INC. 23301 Wilmington Avenue, Carson CA 90745 Phone 310-513-7200 Fax 310-513-7298 www.dt-usa.com