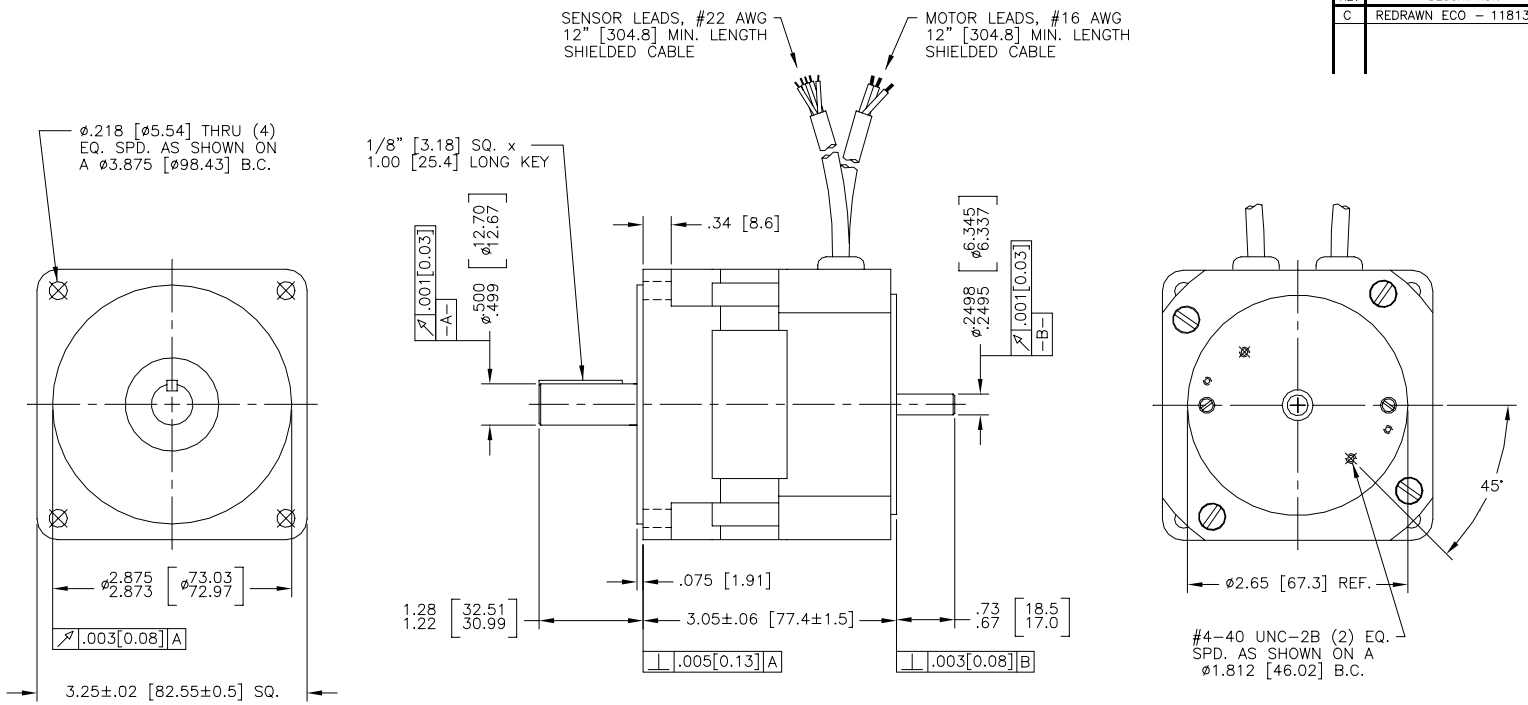
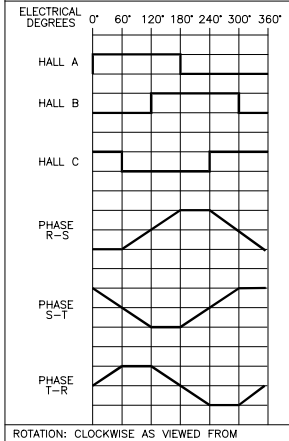
REVISIONS			
REV	DESCRIPTION	DATE	APPD
C	REDRAWN ECO – 11813	5-5-03	GKH



MOTOR PARAMETERS @25°C			
	TOL.	UNITS	VALUE
MAX. OPERATING SPEED (Snl)	MAX.	R.P.M.	6000
CONTINUOUS TORQUE (Tc)	MAX.	IN–LB	5.63
PEAK TORQUE (Tp)	MAX.	IN–LB	16.88
TORQUE SENSITIVITY (Kt)	±10%	IN–LB/AMPS	2.02
BACK EMF CONSTANT (Ke) (L–L, D.C.)	±10%	V/K R.P.M.	23.9
D.C. RESISTANCE (Rt) (L–L)	±10%	OHMS	2.01
INDUCTANCE (L) (L–L)	±15%	mH	8.46
ROTOR INERTIA (Ja)	NOM.	IN–LB–SEC ^{2}	0.0006
FRICTION TORQUE (Tf)	NOM.	IN–LB	0.3
DAMPING TORQUE (Td)	NOM.	IN–LB/KRPM	0.034
WINDING TEMPERATURE	MAX.	°C	125
WEIGHT	NOM.	LBS	TBD

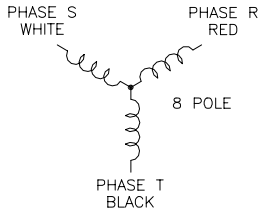
TIMING DIAGRAM



ROTATION: CLOCKWISE AS VIEWED FROM SHAFT END.

CONNECTION CHART		
	COLOR	FUNCTION
MOTOR	RED	PHASE R
	WHITE	PHASE S
	BLACK	PHASE T
SENSOR	WHITE	HALL A
	ORANGE	HALL B
	GREEN	HALL C
	RED	4.5 –24 VDC
	BLACK	GROUND

MOTOR WINDING CONFIGURATION



DIMENSIONS: INCHES [MILLIMETERS]

NOTE: THIS DRAWING HAS BEEN CREATED BY AUTOCAD. MANUAL REVISIONS ARE NOT ALLOWED.

DRAWN 5-5-03 GKH
CHECKED
APPROVED 5-5-03 GKH

MCG MOTION CONTROL GROUP

TITLE: BRUSHLESS D.C. MOTOR

TOLERANCES ON DECIMALS FRACTIONS ±1/64 XX ±.010 ANGLES ±1/2° XXX ±.005 UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES

SIZE C | NUMBER IB34007

SCALE 1:1 | SHEET 1 of 1

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