

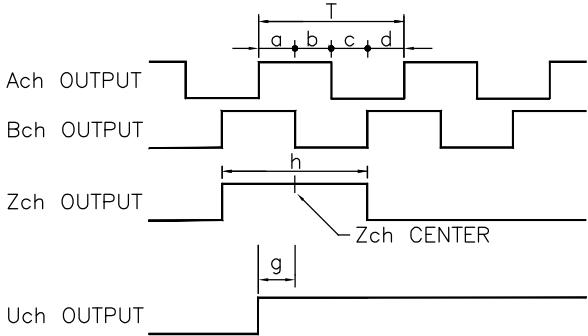


TOLERANCES		THIRD ANGLE PROJECTION		 <b>APPLIED MOTION PRODUCTS, INC.</b>	
DECIMALS: MM (INCH) X.XXX = ±0.013 (.005) X.XX = ±0.25 (.01) X.X = ±2.5 (0.1) ANGLES: MACH. = ±.5° CHAM. = ±5°				<h1>AC SERVO MOTOR</h1>	
		APPROVALS	DATE		
		DRAWN <i>R.JONEZ</i>	<i>5/19/14</i>		
		CHECKED			
COMPUTER DATA BASE DRAWING		APPROVED		B DWG NO. <b>J0100-301-3-000</b>	REV <b>G</b>
		SCALE: NONE		SHEET 1 OF 2	

AC SERVOMOTOR SPECIFICATION – PERMANENT MAGNET 8 POLES		
INPUT POWER SUPPLY	VAC	120
RATED OUTPUT	W	100
VOLTAGE CONSTANT	V(rms)/K(rpm)±10%	12
RATED WINDING CURRENT	A (rms)	1.65
PEAK WINDING CURRENT	A (rms)	4.95
WINDING RESISTANCE	V ±10%@20°C	4.9 LINE-TO-LINE
WINDING INDUCTANCE	mH ±20%	5.9 LINE-TO-LINE
RATED TORQUE	Nm(kgf-cm)	0.32(3.26)
PEAK TORQUE	Nm(kgf-cm)	0.92(9.38)
TORQUE CONSTANT	Nm/A(rms)±10%	0.195
RATED SPEED	rpm/min	3000
MAXIMUM SPEED	rpm/min	6000
WEIGHT WITH STD ENCODER	KG (LBS)	0.55 (1.2)
INSULATION CLASS		B 130°C
ENCODER RESOLUTION		2500 LINES/REV.
SHAFT LOAD – AXIAL	N(MAX)	50 N/11LB
SHAFT LOAD – RADIAL	N(MAX)	60 N/13.5LB
MOTOR RATING	REF NOTE 3	IP65
AMBIENT TEMPERATURE	OPERATING	0 TO 40°C
AMBIENT TEMPERATURE	STORAGE	-20 TO 80°C
AMBIENT HUMIDITY MAX		85%
INERTIA – WITH ENCODER	kg m <sup>2</sup>	0.00000422

# TIMING LOGIC / ENCODER SIGNALS



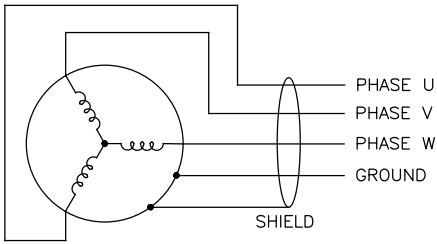
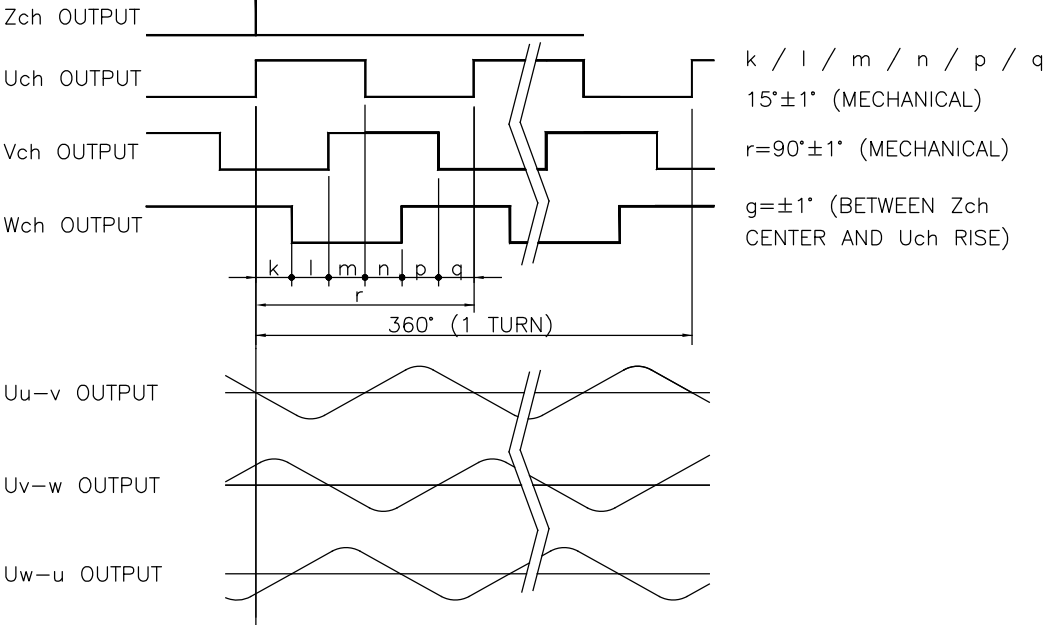
$$T = \frac{360 \text{ DEGREES}}{2500C/T}$$


$$a, b, c, d = T/4 \pm T/8$$

$$h = T \pm T/2$$

# TIMING LOGIC / ENCODER SIGNALS

(NOT TO SAME SCALE AS OTHER DETAIL)  
ALL TIMING IS WITH SHAFT TURNING CCW, VIEWED FROM FRONT.



CONTRACT NO.		 <b>APPLIED MOTION PRODUCTS, INC.</b>			
APPROVALS	DATE	<b>SERVO MOTOR SPECIFICATIONS</b>			
DRAWN <i>R.JONEZ</i>	<i>5/19/14</i>				
CHECKED					
APPROVED		B	FSCM NO.	DWG NO. J0100-301-3-000	REV G
APPROVED				SCALE: NONE	