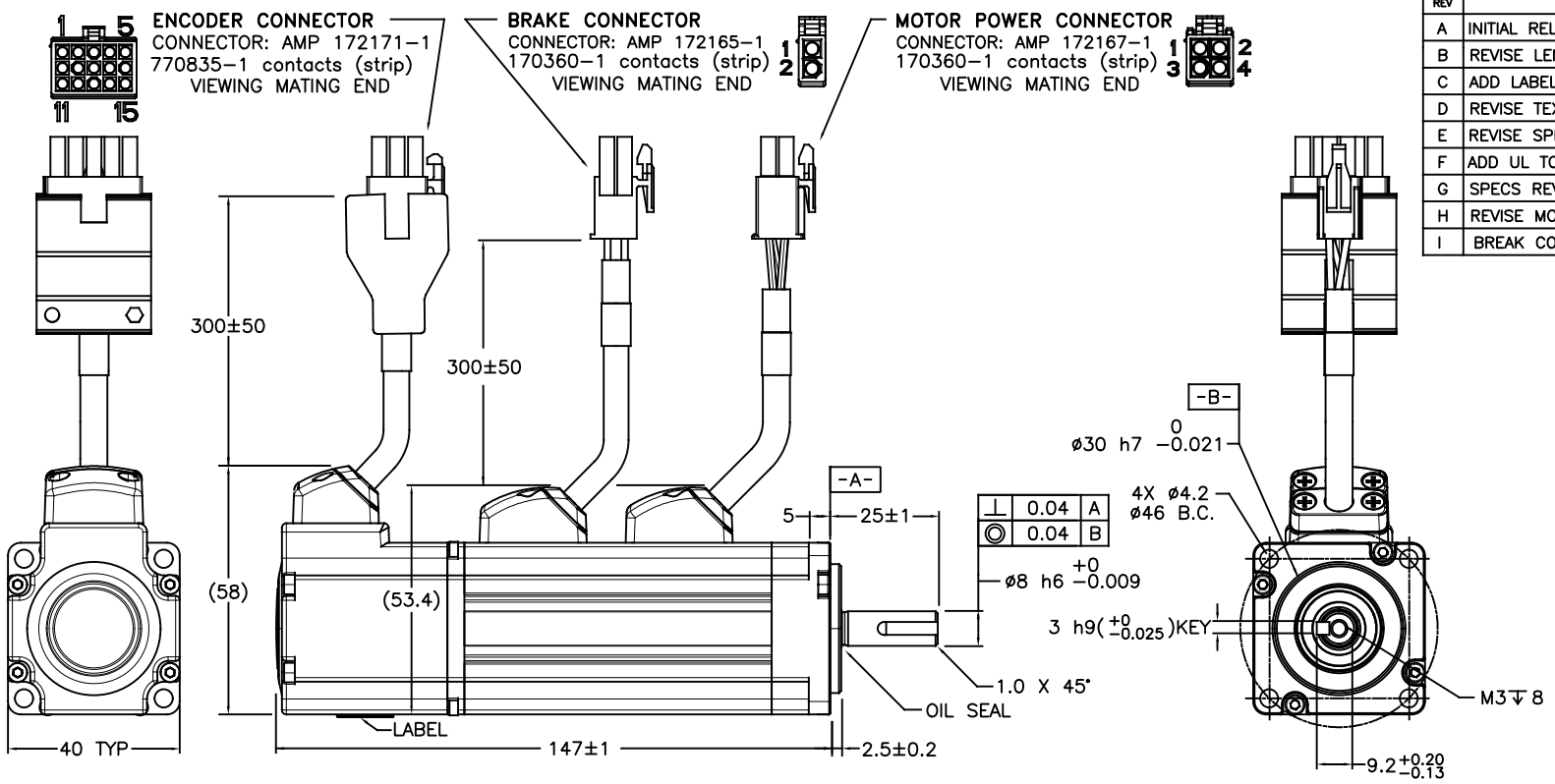
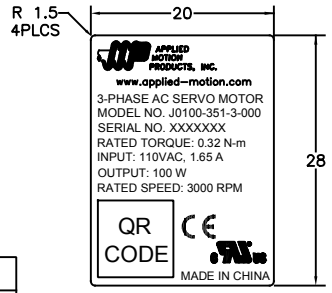
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE ECO 7012	6/10/14	J KORDIK
B	REVISE LENGTH ECO 7055	8/28/14	J KORDIK
C	ADD LABEL ECO 7060	9/15/14	J KORDIK
D	REVISE TEXT ECO 7159	3/16/15	J KORDIK
E	REVISE SPEC PER ECO 7205	5/8/15	J Kordik
F	ADD UL TO LABEL PER ECO 7330	10/12/15	J KORDIK
G	SPECS REVISED PER ECO 7510	10/12/15	J KORDIK
H	REVISE MOTOR OUTLINE ECO 7682	8/1/17	J KORDIK
I	BREAK CONTACT 170360-1, 8434	3/10/20	LEO. L



ENCODER CONNECTION TABLE		
PIN	LEAD COLOR	SIGNAL
1	RED	+5V
2	BLACK	GROUND
3	BROWN	U+
4	BROWN/BLACK	U−
5	GRAY	V+
6	GRAY/BLACK	V−
7	WHITE	W+
8	WHITE/BLACK	W−
9	BLUE/BLACK	A+
10	BLUE	A−
11	GREEN	B+
12	GREEN/BLACK	B−
13	YELLOW	Z+
14	YELLOW/BLACK	Z−
15	SHIELD	SHIELD

MOTOR CONNECTION TABLE		
PIN	LEAD COLOR	SIGNAL
1	RED	PHASE U
2	YELLOW	PHASE V
3	BLUE	PHASE W
4	YELLOW/GREEN	GROUND



EXAMPLE OF LABEL

6 BRAKE CONNECTION TABLE		
PIN	LEAD COLOR	SIGNAL
1	RED	BRAKE
2	BLACK	BRAKE

NOTES: UNLESS OTHERWISE SPECIFIED

1. A SHAFT SEAL IS SHIPPED WITH MOTOR, BUT NOT INSTALLED.
2. TIMING LOGIC IS CCW AS VIEWED FROM FRONT SHAFT.
3. MOTOR IS IP65, EXCEPT SHAFT OPENING AND CABLE CONNECTOR.
4. INSTALL INDOORS, AWAY FROM DIRECT SUNLIGHT, FLAMMABLE AND CORROSIVE GASES.
5. 1000M MAX ALTITUDE.
6. BRAKE RELEASES WHILE ENERGIZED, DO NOT ENGAGE WHILE MOTOR IS ROTATING. BRAKE POWER IS NOT POLARITY SENSITIVE. THIS IS A HOLDING BRAKE.

TOLERANCES
DECIMALS: MM (INCH)
X.XXX= ±0.013 (.005)
X.XX = ±0.25 (.01)
X.X = ±2.5 (0.1)
ANGLES:
MACH. = ±.5°
CHAM. = ±5°
COMPUTER DATA BASE DRAWING

THIRD ANGLE PROJECTION

APPROVALS	DATE
DRAWN R.JONEZ	6/6/14
CHECKED K.KESLER	6/9/14
APPROVED	

APPLIED MOTION PRODUCTS, INC.

AC SERVO MOTOR WITH ENCODER AND BRAKE

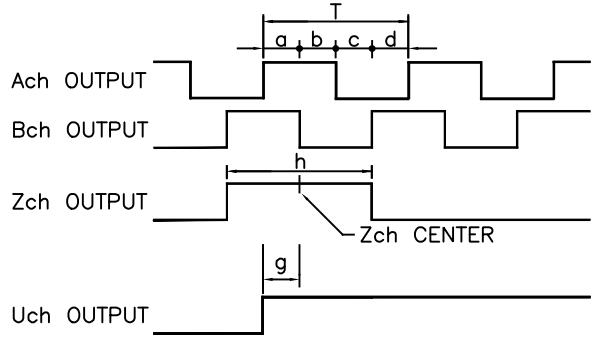
B	DWG NO. J0100-351-3-000	REV I

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)	0.8 (1.8)
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 m²	0.00000522

[6] BRAKE SPECIFICATIONS:	
RATED VOLTAGE	24VDC
RATED CURRENT	0.25A
RELEASE VOLTAGE	18.5 VDC MAX (at 20C°)
STATIC FRICTION TORQUE	.35 Nm
ENGAGE TIME	AT NOMINAL AIR GAP (@20C°) <25ms (NEW)
	FULL RANGE MAX AIR GAP <100ms (WORST COND)
RELEASE TIME	WITHOUT DIODE: <25ms (E–STOP)
	WITH DIODE: <200ms (NORMAL STOP)

TIMING LOGIC / ENCODER SIGNALS



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

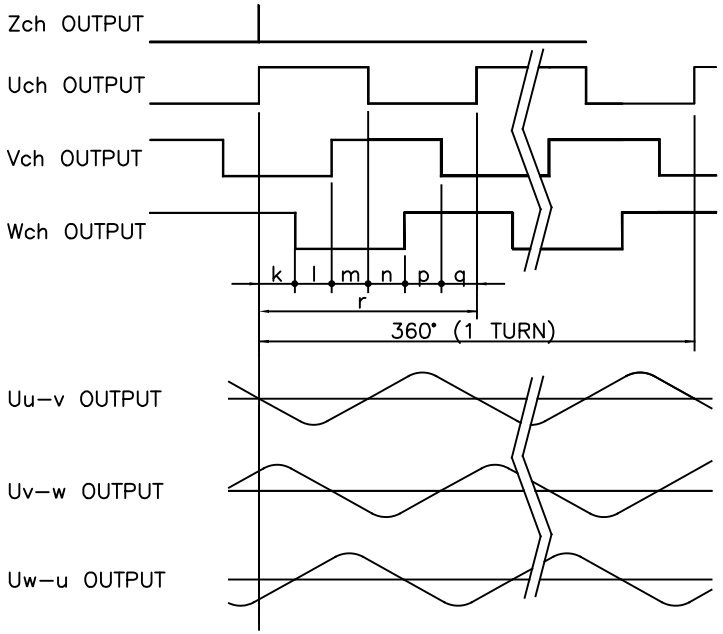
a, b, c, d=T/4±T/8

h= T±T/2

TIMING LOGIC / ENCODER SIGNALS

(NOT TO SAME SCALE AS OTHER DETAIL)

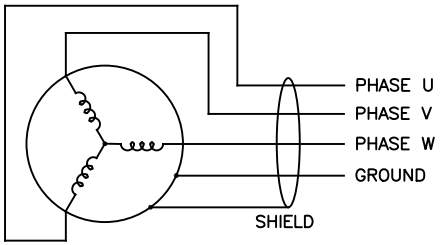
ALL TIMING IS WITH SHAFT TURNING CCW, VIEWED FROM FRONT.



k / l / m / n / p / q 15°±1° (MECHANICAL)

r=90°±1° (MECHANICAL)

g=±1° (BETWEEN Zch CENTER AND Uch RISE)



CONTRACT NO.		APPLIED MOTION PRODUCTS, INC.		
APPROVALS	DATE	SERVO MOTOR SPECIFICATIONS		
DRAWN R.JONEZ	6/6/14			
CHECKED K.KESLER	6/9/14	B	FSCM NO.	DWG NO. J0100–351–3–000 REV I
APPROVED				
APPROVED		SCALE: NONE		SHEET 2 OF 2