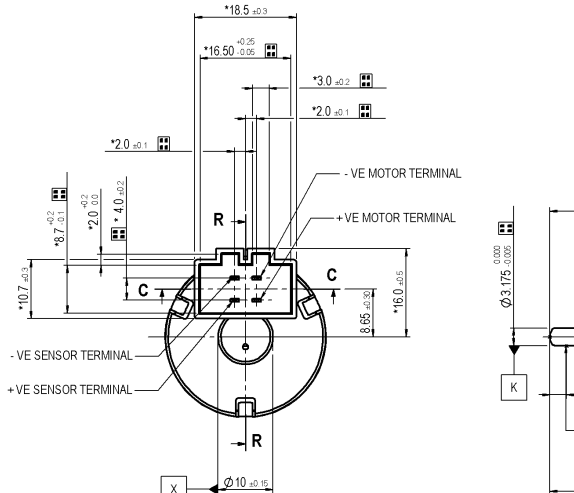
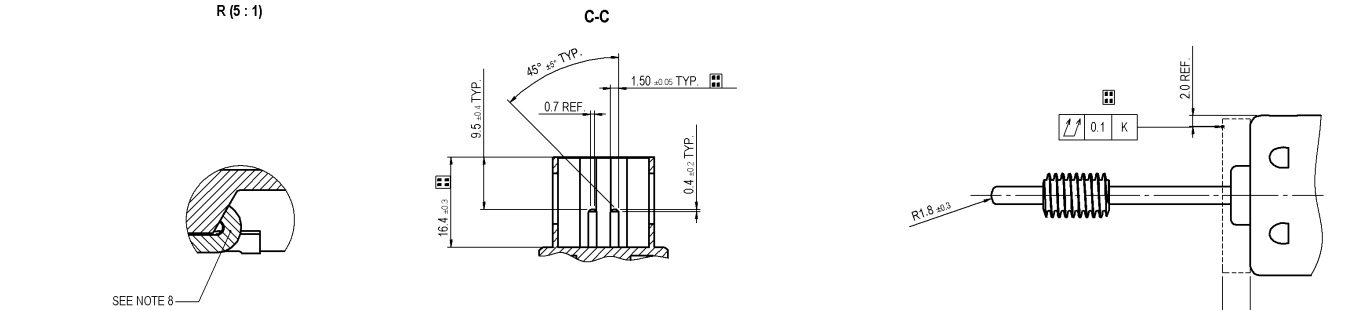
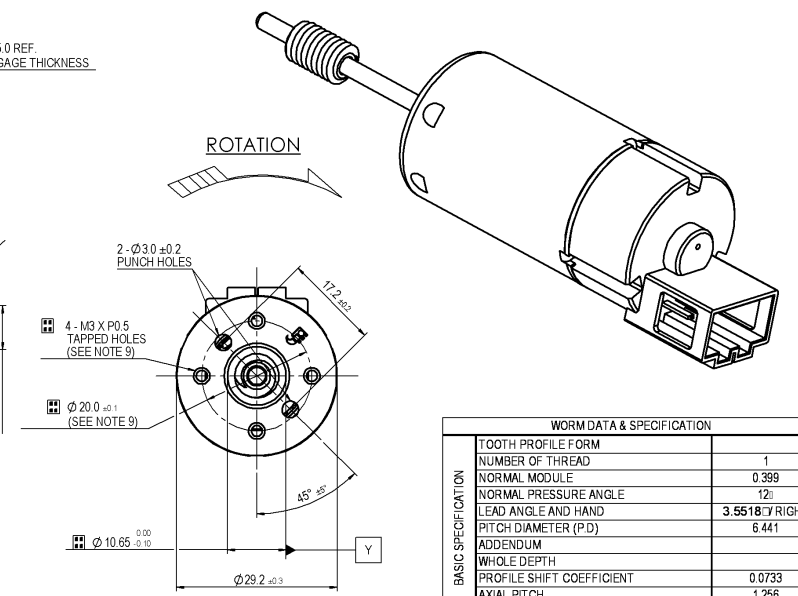
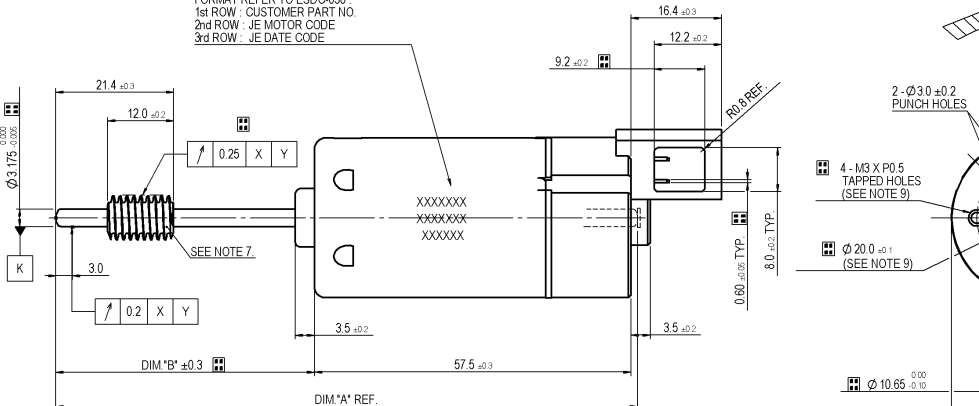


ALT	REF.	DESCRIPTION	DATE	BY
A		Initial release	20071024	HW Zhang

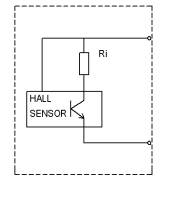
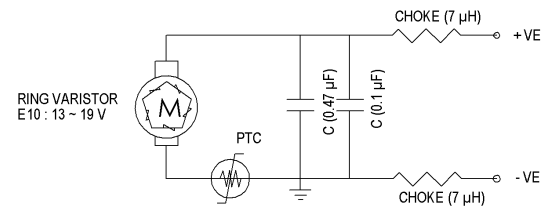


DIRECT PRINT CUSTOMER PART NUMBER,
JE MOTOR CODE & DATE CODE
ONTO REAR HOUSING.
FORMAT REFER TO ESDC-038:
1st ROW : CUSTOMER PART NO.
2nd ROW : JE MOTOR CODE
3rd ROW : JE DATE CODE



SPECIFICATION	VALUE
TOOTH PROFILE FORM	1
NUMBER OF THREAD	0.399
NORMAL MODULE	12 ^h
NORMAL PRESSURE ANGLE	3.5518 °C RIGHT
LEAD ANGLE AND HAND	6.441
PITCH DIAMETER (P.D)	
ADDENDUM	
WHOLE DEPTH	
PROFILE SHIFT COEFFICIENT	0.0733
AXIAL PITCH	1.256
NORMAL TOOTH THICKNESS ON P.D	0.639-0.611
OUTSIDE DIAMETER (O.D)	8.132 (M+0.130)
ROOT DIAMETER (R.D)	5.658 (M+0.130)
NORMAL TIP RADIUS	0.27
NORMAL ROOT FILLET RADIUS	0.15
MEASURE OVER THREE PINS	8.768 (D+0.128)
PIN DIAMETER	0.9
QUALITY CLASS BY AGMA 390.03	
TOOTH TO TOOTH COMPOSITE TOLERANCE	
TOTAL COMPOSITE TOLERANCE	
RUN OUT TOLERANCE	
ACCURACY CLASS BY DIN3974	9 (Ref.)
SINGLE PITCH DEVIATION (fpx)	0.017 (Ref.)
PITCH STEP VARIATION (fux)	0.023 (Ref.)
HELIX FORM DEVIATION (fb)	
TOTAL DEVIATION OF SLOP (fpz)	0.017 (Ref.)
TOTAL RUN OUT (Fr)	0.035 (Ref.)
TOTAL PROFILE DEVIATION (Fa)	0.021 (Ref.)
MATING GEAR PART NUMBER	
MATING GEAR TOOTH NUMBER	175
OPERATING CENTER DISTANCE	38.20 ± .120

- NOTES:
1. LENGTH OF SHAFT, DIM. "A" 105.7 mm.
 2. FRONT EXTENSION, DIM. "B" 47.0 mm., MEASURED WITH SHAFT PUSHED AGAINST END CAP.
 3. DIRECTION OF ROTATION : CLOCKWISE WHEN VIEWING MOTOR OUTPUT END WITH POSITIVE VOLTAGE APPLIED TO POSITIVE TERMINAL.
 4. END PLAY: 0.3 TO 0.8 mm, MEASURED BY AN AXIAL FORCE OF 10 ± 5 N.
 5. MAX. MALE SCREW LENGTH ENGAGED INTO MOTOR HOUSING TO BE 3.0 mm.
 6. *** MARKED DIMENSIONS TO BE MEASURED AT ROOT AND THE DRAFT ANGLE TO BE 0.5° .
 7. WORM SHOULD WITHSTAND A TWISTING TORQUE OF 0.5 Nm MIN. AND A PUSH-OFF FORCE OF 500 N MIN. WITHOUT MOVEMENT.
 8. SECURE END CAP ASSEMBLY BY SWAGING OVER 3 POSITIONS OF HOUSING RIM. THE ENDCAP ASSEMBLY MUST BE ABLE TO WITHSTAND AN AXIAL PUSH-OFF FORCE OF 250 N MIN..
 9. THE 20 ± 0.1 mm TOLERANCE IS ONLY APPLIED FOR THE DISTANCE OF 2 PUNCH HOLES OF M3 TAPPED HOLES. TOLERANCE CLASS OF THE TAPPED HOLES IS JIS CLASS 2 STANDARD.
 10. REFERENCE CUSTOMER PART NO.: (TBD).
 11. 100% CHECK SHAFT RUNOUT OF MOTOR.
 12. NO REVERSE VOLTAGE POLARITY FOR HALL SENSOR ALLOWED.
 13. HALL SENSOR OUTPUT SIGNAL-VOLTAGE IS MEASURED BY OSCILLOSCOPE, AT $25 \pm 5^\circ$ C, WITH VOLTAGE PATTERN AS SHOWN : U = TBD



MOTOR INTERNAL CIRCUITRY

HALL SENSOR CIRCUITRY

DWN BY : HW Zhang		CHK BY : BEN WONG		APP BY : BEN WONG																					
Date : 20071024		Date : 20071024		Date : 20071024																					
MATERIAL : FINISH : JOHNSON ELECTRIC																									
General Tolerance : ISO 2768-1 Class m (Unless specified)																									
ALL DIMENSIONS ARE IN MILLIMETRES SCALE 1:5:1																									
<table border="1"> <tr> <th>C-pk</th> <th>Circle Diameter</th> <th>Cylinder Straightness</th> <th>Surface Finish</th> </tr> <tr> <td>> 1.67</td> <td>⊘</td> <td>⊛</td> <td>⊞</td> </tr> <tr> <td>> 1.33</td> <td>⊘</td> <td>⊛</td> <td>⊞</td> </tr> <tr> <td>> 1.00</td> <td>⊘</td> <td>⊛</td> <td>⊞</td> </tr> <tr> <td>Not Specified</td> <td>⊘</td> <td>⊛</td> <td>⊞</td> </tr> </table>						C-pk	Circle Diameter	Cylinder Straightness	Surface Finish	> 1.67	⊘	⊛	⊞	> 1.33	⊘	⊛	⊞	> 1.00	⊘	⊛	⊞	Not Specified	⊘	⊛	⊞
C-pk	Circle Diameter	Cylinder Straightness	Surface Finish																						
> 1.67	⊘	⊛	⊞																						
> 1.33	⊘	⊛	⊞																						
> 1.00	⊘	⊛	⊞																						
Not Specified	⊘	⊛	⊞																						
			<p>TITLE : MOTOR OUTLINE</p> <p>DWG No. : 07D1059-999-01</p> <p>SHEET 1 OF 1</p>																						