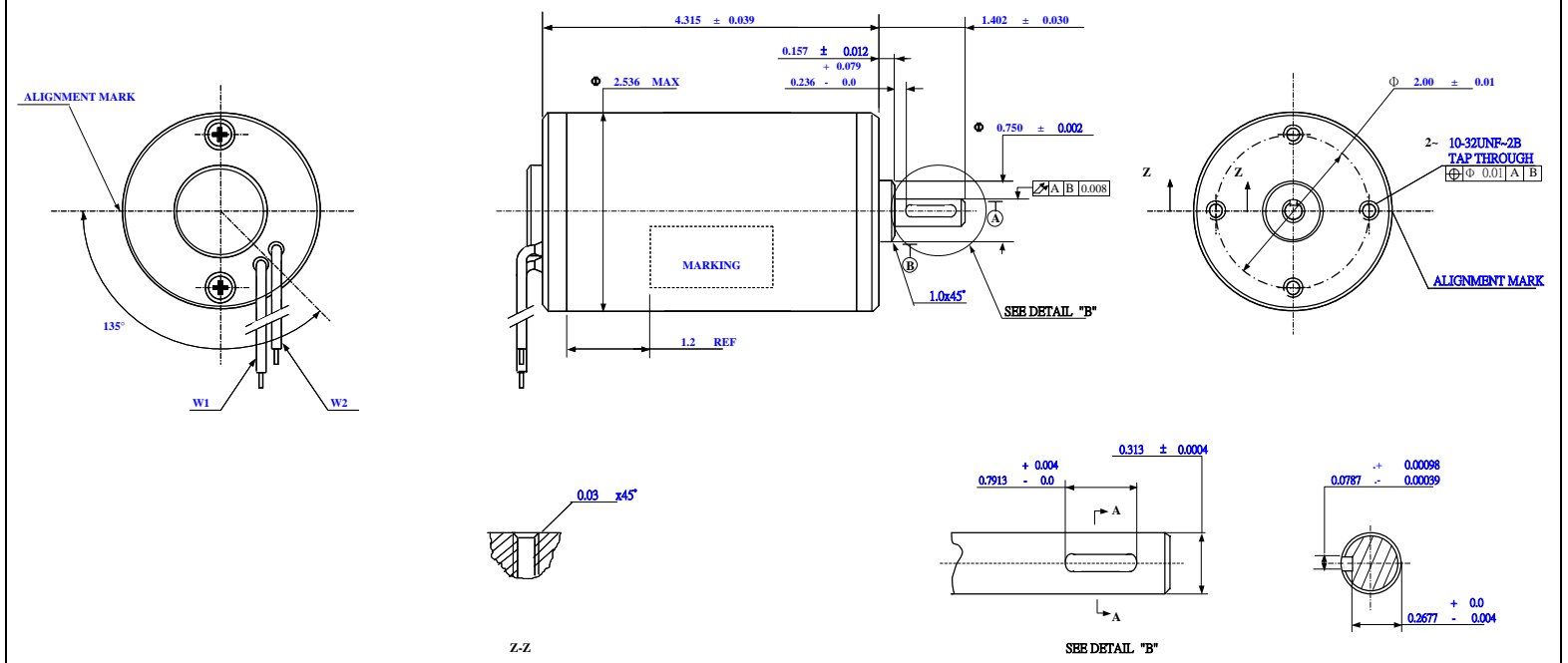


MODEL NO.	FR801-001	CUSTOMER P/N	ISSUED BY	CIM	ISSUED TO	FIRST ROBOTICS	DATE	10/13/2004
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50%



TYPICAL PERFORMANCE @ 12 Vdc					PERFORMANCE CURVE		GENERAL FEATURES				SPECIAL FEATURES		WIRING & ROTATION		MARKING														
	TORQUE Oz-In	SPEED RPM (±10%)	CURRENT A MAX	POWER W MAX	EFF. CY %			(1) LEAD WIRE: AWG#14 UL#1015,105 <table border="1"> <tr> <th></th> <th>LENGTH</th> <th>STRIP LENGTH</th> <th>COLOR</th> </tr> <tr> <td>W1</td> <td>18.0 ± 0.5</td> <td>0.5 ± 0.04</td> <td>RED</td> </tr> <tr> <td>W2</td> <td>18.0 ± 0.5</td> <td>0.5 ± 0.04</td> <td>BLACK</td> </tr> </table>					LENGTH	STRIP LENGTH	COLOR	W1	18.0 ± 0.5	0.5 ± 0.04	RED	W2	18.0 ± 0.5	0.5 ± 0.04	BLACK	(1) DUTY CYCLE: INTERMITTENT, CCW 3 MINUTES ON 2 SECOND CW 3 MINUTES ON 30 MINUTES @ 64.0 OZ-IN. 2) LIFE: 1000 CYCLES MINIMUM.					
	LENGTH	STRIP LENGTH	COLOR																										
W1	18.0 ± 0.5	0.5 ± 0.04	RED																										
W2	18.0 ± 0.5	0.5 ± 0.04	BLACK																										
FREE LOAD	0	5310	2.7	0	0%																								
NORMAL LOAD	64.0	4320	27	205	63%																								
@MAX EFFICIENCY	45.0	4614	19.8	154	65%																								
@MAX POWER	171.7	2655	67.9	337	41%																								
@STALL	343.4	0	133.0	0	0%																								
HIPOT: 600 Vac/0.5 mA/1 sec INSULATION RESISTANCE: > 10.0 M Ohm MIN INSULATION CLASS: B																													
						CUSTOMER APPROVAL				UNSPECIFIED TOLERANCE		UNIT INCH REV. B																	
						FIRST ROBOTICS APPROVAL:				DECIMAL ANGLE		TITLE MOTOR SPECIFICATIONS																	
										2 PLACE 3 PLACE		MODEL NO. FR801-001																	
										± 0.008 ± 0.005 ± 1°		DRAWING NO. CAD- FR1-01A																	
										DESIGNED QI.JX 8/9/2002		CUSTOMER P/N																	
										DRAWN QI.JX 8/9/2002		SERIES 2510BA08ZZa																	
										CHECKED		CCL Industrial Motor Limited (CIM)																	
										APPROVAL		捷和工業電機有限公司																	
NO.	REVISIONS	DRAWN	CHECKED	DATE	NO.	REVISIONS	DRAWN	CHECKED	DATE	DATE:																			