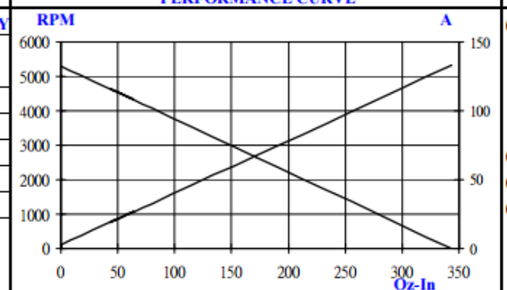
TYPICAL PERFORMANCE @ 12 Vdc

	TORQUE Oz-In	SPEED RPM (±10%)	CURRENT A MAX	POWER Wo	EFF'CY %
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

PERFORMANCE CURVE



GENERAL FEATURES

(1) LEAD WIRE: AWG#14 UL#1015,105°

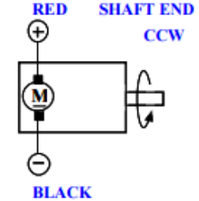
	LENGTH	STRIP LENGT	COLOR
W1	18.0 ± 0.5	0.5 ± 0.04	RED
W2	18.0 ± 0.5	0.5 ± 0.04	BLACK

(2) FINISHING:HOUSING POWDER GLOSS BLACK COA
(3) END-PLAY 0.005 ~ 0.02
(4) CONSTRUCTION: TENV.

SPECIAL FEATURES

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 .

WIRING & ROTATION



ROTATION: REVERSIBLE

MARKING

CIM
FIRST ROBOTICS
FR801-001
12Vdc
MMDDYY

NO.	REVISIONS	DRAWN	CHECKED	DATE
B1	from 0.0789±0.00047,rev to B	s b Bu	JQ.He	10/13/04
B	Keyway width changed to 0.0789+0.00098/-0.00039	s b Bu	JQ.He	10/13/04
A	Rejigger key form,rev. to A.	HAN.L	JQ.He	8/9/04

NO.	REVISIONS	DRAWN	CHECKED	DATE

CUSTOMER APPROVAL

FIRST ROBOTICS
APPROVAL :

DATE :

UNSPECIFIED TOLERANCE

DECIMAL		ANGLE
2 PLACE	3 PLACE	
± 0.008	± 0.005	± 1°
DESIGNED	QL JX	8/9/2002
DRAWN	QL JX	8/9/2002
CHECKED		
APPROVAL		

UNIT	INCH
REV.	B
TITLE	MOTOR SPECIFICATIONS
MODEL NO.	FR801-001
DRAWING NO.	CAD- FR1-01A
CUSTOMER P/N	
SERIES	2510BA08ZZa

CCL Industrial Motor Limited (CIM)
捷和工業電機有限公司

NOTE: Intermittent duty cycle shown under Special Features is:

3 minutes clockwise at normal load

2 second off

3 minutes counterclockwise at normal load

30 minutes off

Repeat for 1000 cycles minimum.