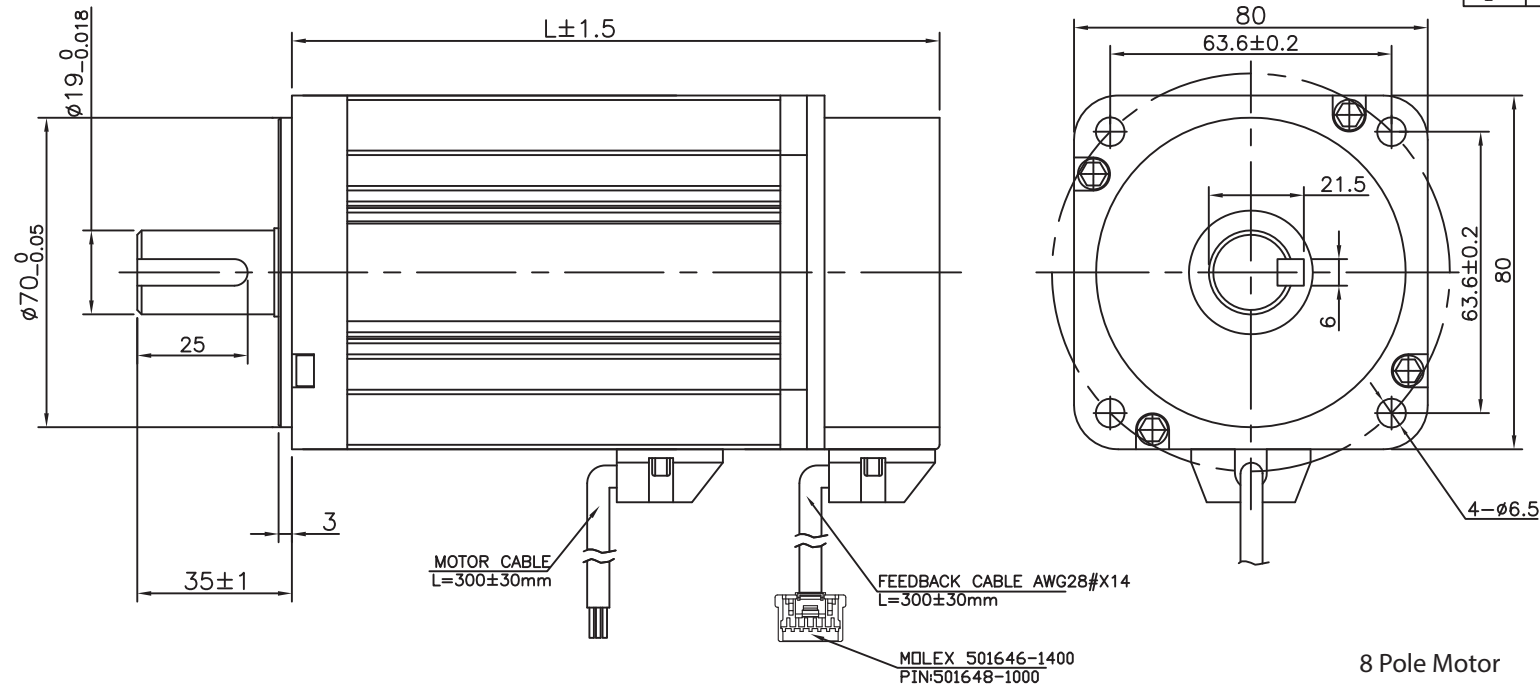


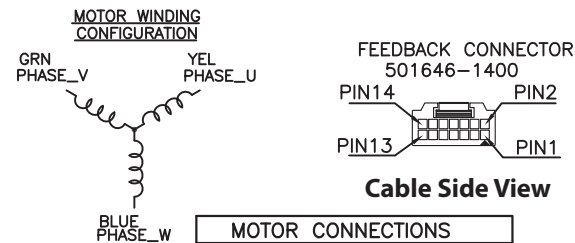
REV	DESCRIPTION	DATE	APPROVE
A	RELEASE	16/08/03	SJQ
B	CORRECT ROTOR INERTIA	17/02/13	QYJ



ENCODER SPECIFICATION	
VOLTAGE	+5VDC±5%
CURRENT	<60mA
FREQUENCY	0~300khz
TEMPERATURE	-30~105°C
ENCODER	2500P/R
OUTPUT WAVEFORMS	
ROTATION:CCW AS VIEWED FROM SHAFT END	

8 Pole Motor

MOTOR PARAMETERS @25°C			
	UNITS	SV080AS-01	SV080AS-02
Supply Voltage(reference) (Vs)	VDC	48	48
Rated Continuous Torque (Tcr)	Nm	1.31	2.44
Rated Speed at Cont.Torque (Scr)	R.P.M.	3000	3000
Rated Continuous Stall Current (Ics)	A	16.93	31.52
Rated Continuous Output Power (Po.c)	W	411	765
Motor Constant (Km)	Nm/√w	0.2030	0.2449
Torque Constant (KT)	Nm/A	0.0812	0.0812
Voltage Constant (KE)	V/krpm	8.50	8.50
Terminal Resistance (Rmt)	ohms	0.16	0.11
Inductance (L)	mH	0.40	0.29
Rated Peak Current (Ipr)	A	57.88	104.21
Rated Peak Torque (Tpr)	Nm	4.50	8.10
Coulomb Friction Torque (Tf)	Nm	0.0470	0.061
Insulation Class		F	F
Rotor Inertia (Jr)	Kg.cm ²	1.2	1.65
Motor Weight (Wm)	Kg	2.1	2.72
Feedback Device		2500p/rev incremental encoder	
Motor Length (Lm)	mm	132	153



MOTOR CONNECTIONS		
PIN	COLOR	SIGNAL
1	YEL	U
2	GRN	V
3	BLUE	W
4	YEL/GRN	GND

ENCODER CONNECTIONS		
PIN	COLOR	SIGNAL
1	BLK	GND
2	RED	+5v
3	BLU/BLK	A-
4	BLU	A+
5	GRN/BLK	B-
6	GRN	B+
7	YEL/BLK	Z-
8	YEL	Z+
9	BRN/BLK	U-
10	BRN	U+
11	WHT/BLK	V-
12	WHT	V+
13	ORA/BLK	W-
14	GRA	W+

NOTE: THIS DRAWING HAS BEEN CREATED BY AUTOCAD. MANUAL REVISIONS ARE NOT ALLOWED.

MATERIAL		TOLERANCE UNLESS OTHERWISE SPECIFIED ISO 2768-1 MEDIUM	
DRAWN XXX	CHECKED	APPROVED - DATE	FILENAME
		DATE XX/XX/XX	SCALE N/A
			BRUSHLESS SERVO MOTOR
			SV080AS-0X
			SHEET 1/1

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