



ENCODER SPECIFICATION	
VOLTAGE	+5VDC±5%
CURRENT	<60mA
FREQUENCY	0~300kHz
TEMPERATURE	-30~105°C
ENCODER	2500PPR
OUTPUT WAVEFORM	90°

ENCODER CONNECTIONS		
1	BLU	A+
2	GRN	B+
3	BLK	GND
4	GY	W+
5	BRN	U+
6	BRN/BLK	U-
7	YEL	Z+
8	YEL/BLK	Z-
9	WHT	V+
10	WHT/BLK	V-
11	BLU/BLK	A-
12	GRN/BLK	B-
13	RED	+5V
14	GY/BLK	W-
15	/	/

MOTOR PARAMETERS @25°C

	UNITS	SV060AS-01	SV060AS-02	SV060AS-03
Supply Voltage(reference) (Vs)	VDC	36	36	48
Rated Continuous Torque (Tcr)	Nm	0.30	0.53	1.30
Rated Speed at Cont.Torque (Scr)	R.P.M.	4000	4000	3000
Rated Continuous Stall Current (Ics)	A	5.74	9.84	18.41
Rated Continuous Output Power (Po.c)	W	124	223	410
Motor Constant (K _m)	Nm/√W	0.0740	0.0998	0.1408
Torque Constant (K _T)	Nm/A	0.0573	0.0573	0.0745
Voltage Constant (K _E)	Vrms/krpm	4.2	4.2	5.8
Terminal Resistance (Rmt)	ohms	0.64	0.23	0.18
Inductance (L)	mH	0.5	0.22	0.2
Rated Peak Current (Ipr)	A	22.11	30.78	56.89
Rated Peak Torque (Tpr)	Nm	1.20	1.69	4.05
Coulomb Friction Torque (Tf)	Nm	0.0100	0.017	0.025
Insulation Class		F	F	F
Rotor Inertia (Jr)	Kg.m ²	1.0E-05	1.5E-05	2.9E-05
Rotor Weight (Wm)	Kg	0.85	1.08	1.54
Feedback Device		2500P/rev	Incremental	encoder
Motor Length (Lm)	mm	101	113	141

Timing Diagram

MOTOR WINDING CONFIGURATION

MOTOR CONNECTIONS	COLOR	SIGNAL
10	WHT/BLK	V-
11	BLU/BLK	A-
12	GRN/BLK	B-
13	RED	+5V
14	GY/BLK	W-
15	/	/

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

MATERIAL		TOLERANCE UNLESS OTHERWISE SPECIFIED	
ISO 2768-1 MEDIUM			
DRAWN	CHECKED	APPROVED - DATE	FILENAME DATE SCALE
XXX	XXX	N/A	XXX N/A

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BRUSHLESS SERVO MOTOR
SV060AS-0X
SHEET 1/1