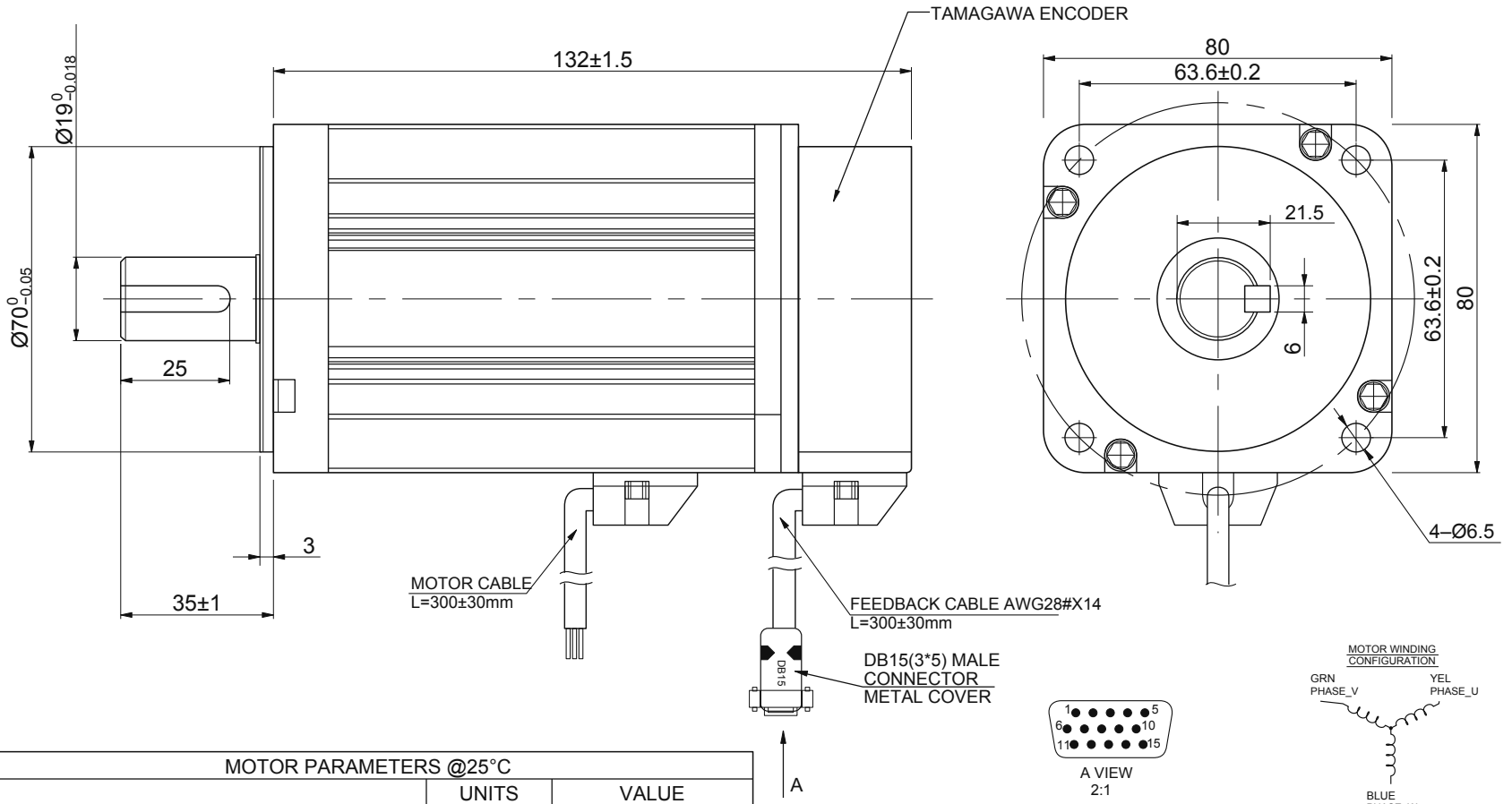
BRUSHLESS SERVO MOTOR

SV080AS-01

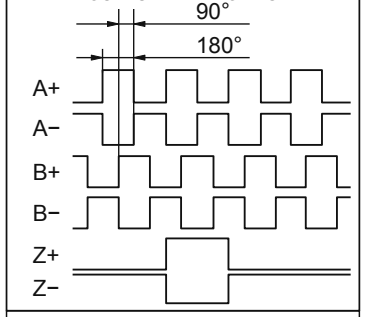
Mach Motion Products

REV	DESCRIPTION	DATE	APPROVE
P1	PRELIMINARY	24/03/27	QYJ



ENCODER SPECIFICATION	
VOLTAGE	+5VDC±5%
CURRENT	<60mA
FREQUENCY	0~300khz
TEMPERATURE	-30~105°C
ENCODER	2500P/R

OUTPUT WAVEFORMS

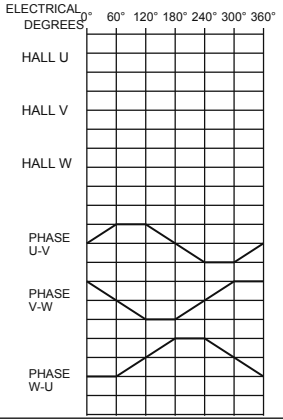


ROTATION: CCW AS VIEWED FROM SHAFT END

ENCODER CONNECTIONS		
PIN	COLOR	SIGNAL
1	BLU	A+
2	GRN	B+
3	BLK	GND
4	GAY	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	GAY/BLK	W−
15	NC	NC

MOTOR PARAMETERS @25°C		
	UNITS	VALUE
Supply Voltage(reference) (Vs)	VDC	48
Rated Continuous Torque (Tcr)	Nm	1.31
Rated Speed at Cont.Torque (Scr)	R.P.M.	3000
Rated Continuous Stall Current (Ics)	A	16.93
Rated Continuous Output Power (Po.c)	W	411
Motor Constant (Km)	Nm/√w	0.2030
Torque Constant (KT)	Nm/A	0.0812
Voltage Constant (KE)	Vrms/krpm	8.0
Terminal Resistance (Rmt)	ohms	0.25
Inductance (L)	mH	0.45
Rated Peak Current (Ipr)	A	57.88
Rated Peak Torque (Tpr)	Nm	4.50
Coulomb Friction Torque (Tf)	Nm	0.0470
Insulation Class		F
Rotor Inertia (Jr)	Kg.m²	1.2E−04
Motor Weight (Wm)	Kg	2.1
Feedback Device	2500p/rev incremental encoder	

TIMING DIAGRAM



NOTE:CCW VIEWED FROM FRONT SHAFT END.

MOTOR WINDING CONFIGURATION

8 Pole Motor

MOTOR CONNECTIONS		
	COLOR	SIGNAL
	YEL	U
	GRN	V
	BLUE	W
	YEL/GRN	GND

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-01				SHEET 1/1

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