



MOTOR SPECIFICATION		CONNECTION		
		UNIPOLAR	SERIES	PARALLEL
Voltage	V DC	8.8		
Current per Winding	A	1.0	0.71	1.41
Resistance per Phase (25°C)	±15% Ω	8.8	17.6	4.4
Inductance per Phase (1 kHz)	±20% mH	15.4	61.6	15.4
Holding Torque	Nm	1.32	1.87	1.87
Step Angle	±5% °	1.8		
Rotor Inertia	kg m ²	48	x10 ⁻⁶	

TYPE OF CONNECTION					
Unipolar	Series	Parallel	Pin No.	Wire Col.	Winding
A	A	A	1	BK	A
COM			3	BK/WH	A
			2	GN/WH	A
A\	A\	A\	4	GN	A
B	B	B	5	RD	B
COM			7	RD/WH	B
			6	BU/WH	B
B\	B\	B\	8	BU	B

A-Shaft		Preload Spring		B-Shaft	
Fa	Fr				
ax					
Max. Axial Force Fa	N	15			
Max. Radial Force Fr (a1 = 5 mm)	N	130			
Max. Radial Force Fr (a2 = 20 mm)	N	52			
Axial Play	Fa = 4.5 N	mm	0.08		
Radial Play	Fr = 4.5 N	mm	0.02		

GENERAL MOTOR SPECIFICATION		
Ambient Temperature	°C	-10 ... 50
Max. Temperature Rise (at standstill - 2 phases energized)	°C	80
Max. Ambient Humidity (non condensing)	%	85
Insulation Class		B
Insulation Resistance	MΩ	100
Dielectric Strength (for 1 min - coil to case)	V AC	500

ISO 8015	ISO 1302	ISO 2768 cK	ISO 13715
		Date	Name
		Drawn	04.12.2017
		Checked	28.03.2018
		Approved	28.03.2018
04	change induc./rev. draw.	Schneid_A	28.03.2018
REV	Rev. Text	Name	Rel. Date

Weight: 1.0 kg		ST5918L1008-A	
State: Released		Rev: 04	
P		E	

