



Connector Type: JST XHP-8
Contact: SXH-001T-P0.6

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
A1	A1	A1	4	GN	A1
B	B	B	5	RD	B
COM			7	RD/WH	B
			6	BU/WH	B
B1	B1	B1	8	BU	B1

A-Shaft		Preload Spring		B-Shaft	
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	

MOTOR SPECIFICATION		CONNECTION		
		UNIPOLAR	SERIES	PARALLEL
Voltage	V DC	3.45		
Current per Winding	A	3.0	2.1	4.2
Resistance per Phase (25°C)	±15% Ω	1.15	2.3	0.58
Inductance per Phase (1 kHz)	±20% mH	1.9	7.6	1.9
Holding Torque	Nm	1.32	1.87	1.87
Step Angle	±5% °	1.8		
Rotor Inertia	kg m ²	48	x10 ⁻⁶	

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	Replacement for drawing from 19.03.2007 /01000744		Weight: ~1.0 kg
			Date	Name		ST5918L3008-A
			Drawn	Schneid_A		
			Reviewed	Sejdini_B		
			Released	Sejdini_B		
06	change tolerance dia. 5	Schneid_A	02.06.2022	Nanotec PLUG & DRIVE		20001505
REV	Rev. Text	Name	Date			State: Released