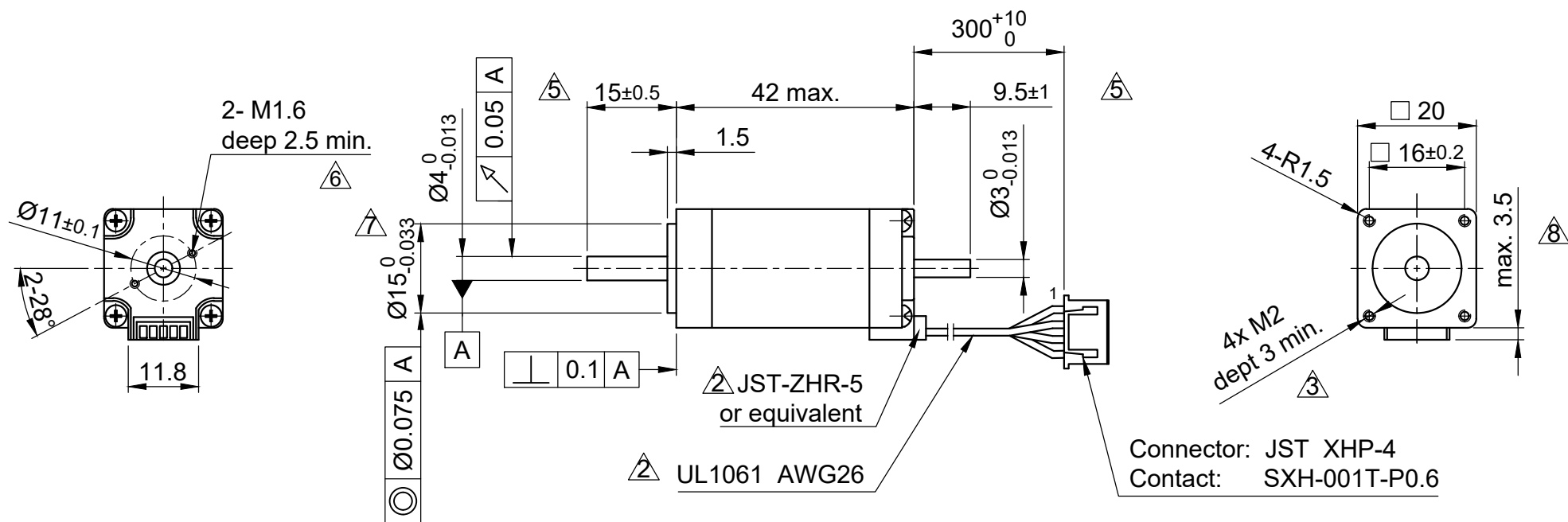




MOTOR SPECIFICATION

Voltage	V DC	4.3
Current per Winding	A	0.8
Resistance per Phase (25°C)	$\pm 15\% \Omega$	5.4
Inductance per Phase (1 kHz)	$\pm 20\% \text{ mH}$	1.8
Holding Torque	Nm	0.03
Step Angle	$\pm 5\% ^\circ$	1.8
Rotor Inertia	kg m^2	0.36×10^{-6}

GENERAL MOTOR SPECIFICATION

Ambient Temperature	$^\circ\text{C}$	-10 ... 50
Max. Temperature Rise (at standstill - 2 phases energized)	$^\circ\text{C}$	80
Max. Ambient Humidity (non condensing)	%	85
Insulation Class	B	
Insulation Resistance	M Ω	100
Dielectric Strength (for 1 min - coil to case)	V AC	500

TYPE OF CONNECTION

Bipolar	Pin No.	Wire Col.	Winding
A	1	BK	
A\	2	GN	
B	3	RD	
B\	4	BU	

A-Shaft	Preload Spring	B-Shaft
F_a	F_r	a_x
Max. Axial Force F_a	N	4
Max. Radial Force F_r ($a_1 = 5 \text{ mm}$)	N	30
Max. Radial Force F_r ($a_2 = 20 \text{ mm}$)	N	8
Axial Play $F_a = 10 \text{ N}$	mm	0.075
Radial Play $F_r = 5.0 \text{ N}$	mm	0.025

ISO 8015	ISO 1302	ISO 2768 cK	ISO 13715	Replacement for drawing from 02.06.06	Weight: $\pm 10\%$ 0.08 kg
			Date	Name	
			Drawn	26.10.2023	Kolev_I
			Reviewed	11.12.2023	Reith_S
			Released	11.12.2023	Reith_S
09	changed inductance	Kolev_I	14.07.2025		
08	modified prod. process	Kolev_I	11.12.2023		
REV	Rev. Text	Name	Date		
Nanotec® PLUG & DRIVE					
ST2018M0804-B					
20002137					
State: Released					
Rev: 09					
CONFIDENTIAL					
A4 Page 1					