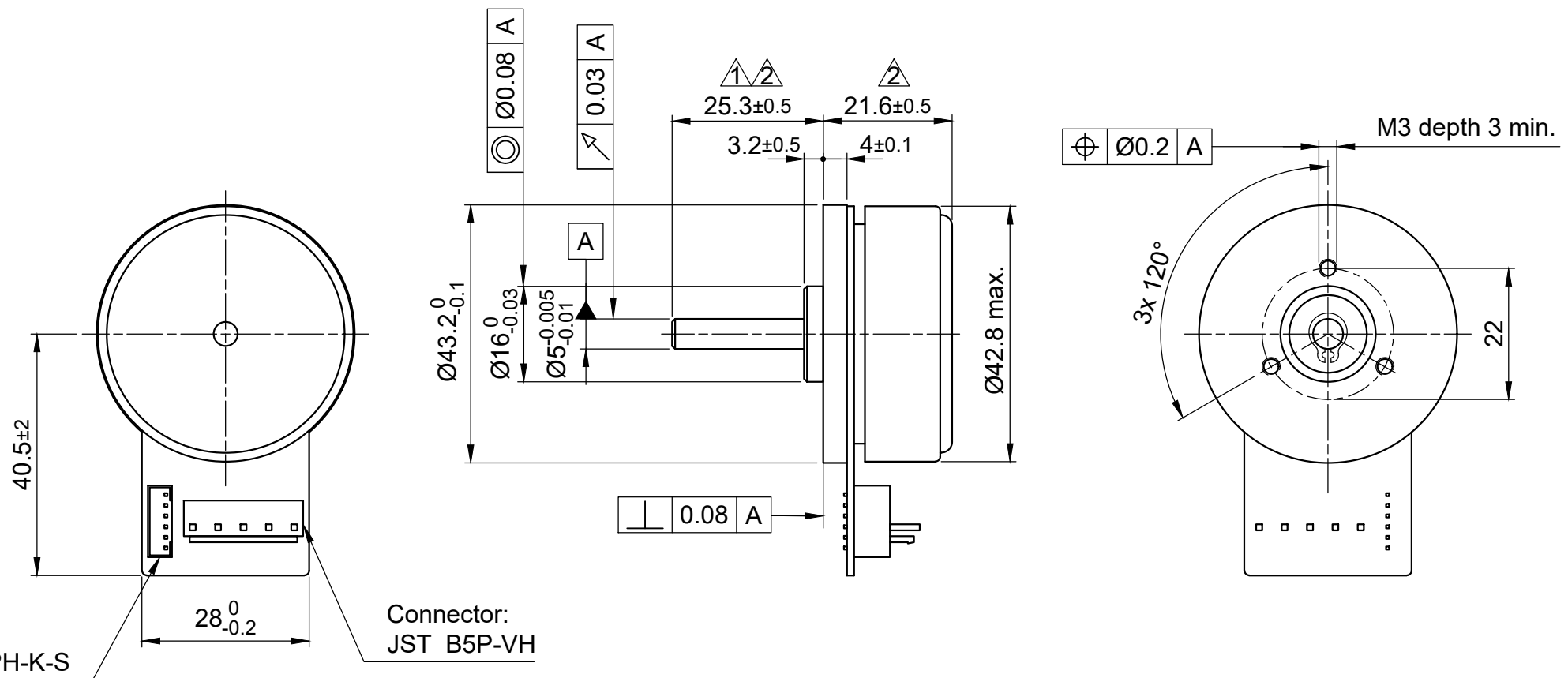




MOTOR SPECIFICATION		
No. of Poles		16
Rated Voltage	V DC	24
Current - No Load / Rated / Peak	A	<0.4 / 2.36 / 7.0
Resistance Line to Line	±10% Ω	0.7
Inductance Line to Line (1kHz)	±20% mH	0.33
Torque - Rated / Peak	Nm	0.084 / 0.25
Torque Constant	Nm/A	0.0335
Rated Power	W	50
Speed - No Load / Rated	±10% rpm	6700 / 5260
Rotor Inertia	kg m ²	13.5 x 10 ⁻⁶

WIRING DIAGRAM			
	PIN	Function	Connector
Motor	1	GND	JST B5P-VH
	2	U	
	3	V	
	4	W	
	5	GND	
Hall 48 Impl. per Rev.	1	GND	JST B6B-PH-K-S
	2	+5V DC (4.5-18V DC)	
	3	H1	
	4	H2	
	5	H3	
	6	GND	

A-Shaft	Preload Spring	B-Shaft
Fr		
Fa		
ax		
Max. Axial Force Fa	N	10
Max. Radial Force Fr (a1 = 10 mm)	N	28
Axial Play Fa = 4.0 N	mm	0.14
Radial Play Fr = 4.0 N	mm	0.02

CW from shaft side	Hall Signal	H1 H2 H3
	Phase Voltage	U-V V-W W-U
	Back EMF	

GENERAL MOTOR SPECIFICATION		
Ambient Temperature	°C	-20 ... 50
Max. Temperature Rise (at standstill)	°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		Weight: 0.12 kg	
					Date	Name		DF45M024053-C	
					Drawn	04.12.2017	Import		
					Reviewed	10.06.2020	Knoll_J		
					Released	10.06.2020	Knoll_J	03000186	
02	revise drawing	Schneid_A	17.06.2020						
REV	Rev. Text	Name	Date					State: Released	Rev: 02
				Nanotec® PLUG & DRIVE				CONFIDENTIAL	A4 Page 1