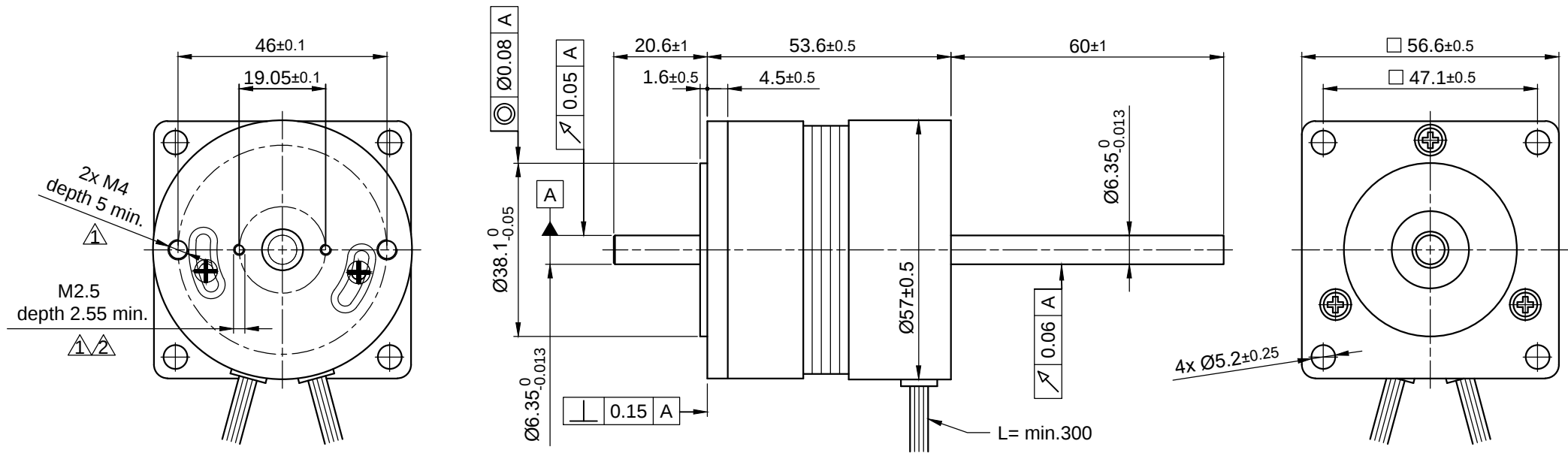




MOTOR SPECIFICATION		
No. of Poles	6	
Rated Voltage	V DC	24
Current - Rated / Peak	A	5 /15
Resistance Line to Line	±10% Ω	0.57
Inductance Line to Line (1kHz)	±20% mH	0.63
Torque - Rated / Peak	Nm	0.23 /0.69
Torque Constant	Nm/A	0.045
Back-EMF Constant	V _{rms} /krpm	3.84
Rated Power	W	84
Speed - No Load / Rated	±10% rpm	4800 /3500
Rotor Inertia	kg m ²	7.5 x10 ⁻⁶

WIRING DIAGRAM			
	Colour	Function	Lead Gauge
Motor	Ye	U	UL1332 AWG18
	Rd	V	
	Bk	W	
Hall 18 Impl. per Rev.	Rd	+5V	UL1430 AWG26
	Bu	H1	
	Gn	H2	
	Wh	H3	
	Bk	GND	

A-Shaft	Preload Spring	B-Shaft
Max. Axial Force F_a	N	15
Max. Radial Force F_r ($a_2 = 20$ mm)	N	75
Axial Play $F_a = 40$ N	mm	0.025
Radial Play $F_r = 4.6$ N	mm	0.025

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

GENERAL MOTOR SPECIFICATION		
Ambient Temperature	°C	-10 ...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: 0.52 kg	
					Date	Name		DB59S024035-B3			
				Drawn	04.12.2017	Import					
				Checked	06.12.2018	Knoll_J					
				Approved	06.12.2018	Schneid_A					
02	change depth screw M2.5	Schneid_A	06.12.2018	 Nanotec PLUG & DRIVE		03000121				-	
REV	Rev. Text	Name	Rel. Date			State: Released				Rev: 02	P