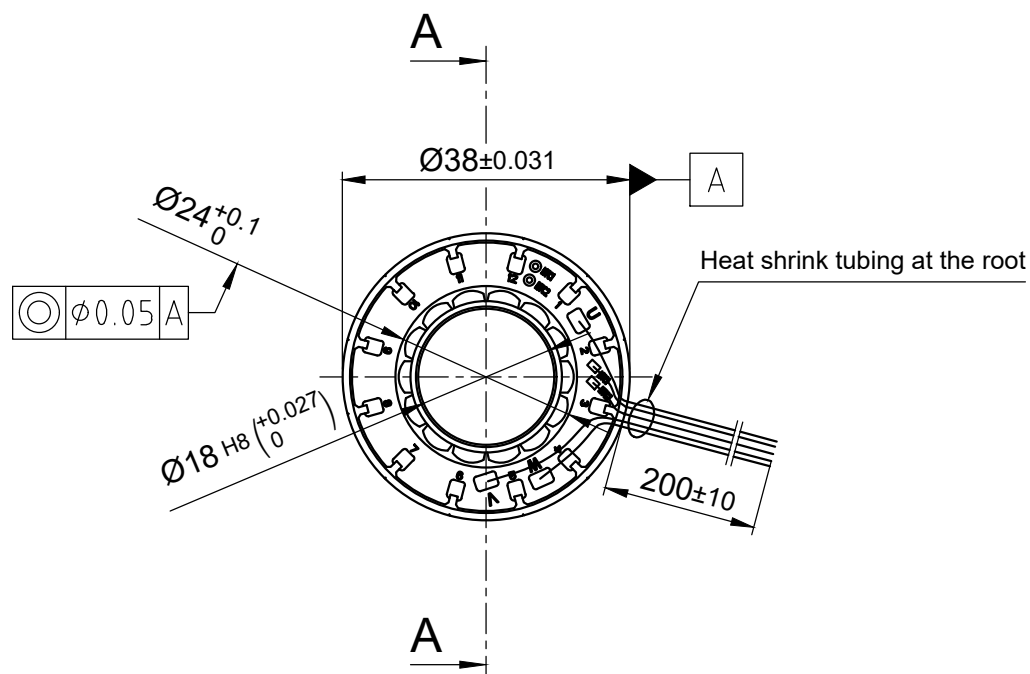
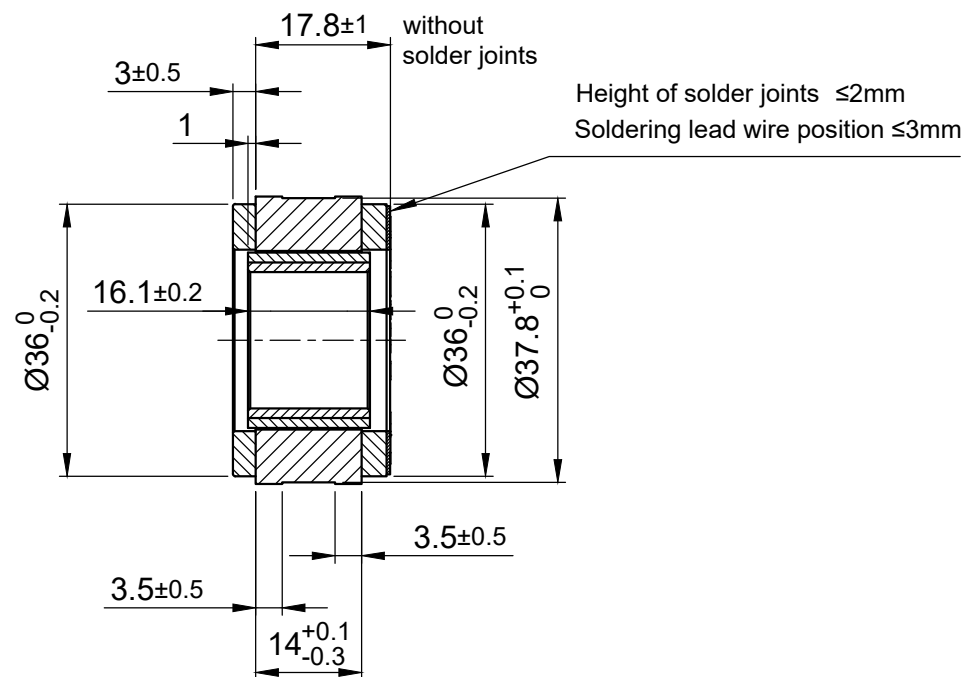




View A-A



MOTOR SPECIFICATION

No. of Poles	14
Rated Voltage	V DC 48
Current - Rated / Peak	A 4.3 / 10.5
Resistance Line to Line	$\pm 10\% \Omega @ 20^\circ$ 1.24
Inductance Line to Line (1kHz)	$\pm 20\% \text{ mH}$ 1.3
Torque - Rated / Peak	Nm 0.23 / 0.69
Torque Constant	Nm/A 0.074
Rated Power	W 120
Speed - No Load / Rated	$\pm 10\% \text{ rpm}$ 7500 / 5000
Rotor Inertia	kg m^2 1.92 $\times 10^{-6}$

WIRING DIAGRAM

	Colour	Function	Lead Gauge
Motor	YE	U	AFR250 0.5mm ²
	RD	V	
	BK	W	
Thermistor	WH	NTC1	AFR250-SY 0.15mm ²
	WH	NTC2	

Thermistor (NTC): R25: 100k $\Omega \pm 5\%$; B25/50: 3950 $\pm 1\%$

GENERAL MOTOR SPECIFICATION

Ambient Temperature	$^\circ\text{C}$	-20 ... 50
Storage Temperature	$^\circ\text{C}$	-20 ... 85
Max. Temperature Rise (at standstill)	$^\circ\text{C}$	80
Max. Ambient Humidity (non condensing)	%	85
Insulation Class		B
Insulation Resistance	M Ω	100 @ 500VDC
Dielectric Strength (for 1 sec - coil to case)	V AC	1000

ISO 8015		ISO 1302		ISO 2768 cK		ISO 13715				Weight: ±10% 0.112 kg	
					Date	Name		DKA38L048050			
				Drawn	14.11.2024	Schneid_A					
				Reviewed	10.02.2025	Reith_S					
				Released	10.02.2025	Reith_S					
01	CR_Nr. 2025-0043	Schneid_A	23.07.2025			20002699				A4 Page 1	
REV	Rev. Text	Name	Date			State: Released		Rev: 01		CONFIDENTIAL	