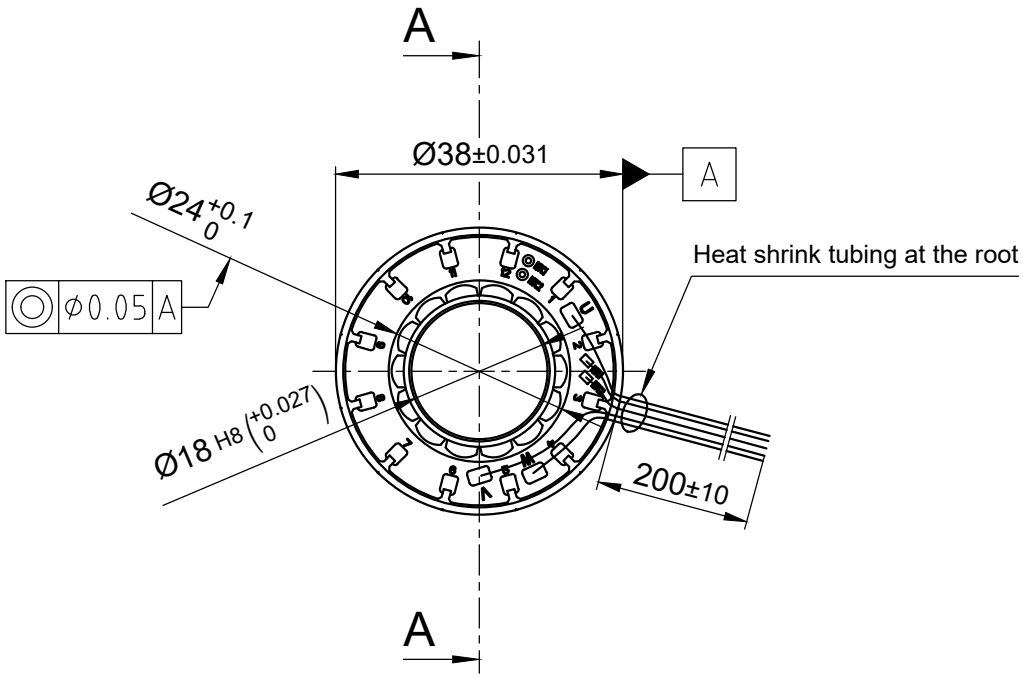
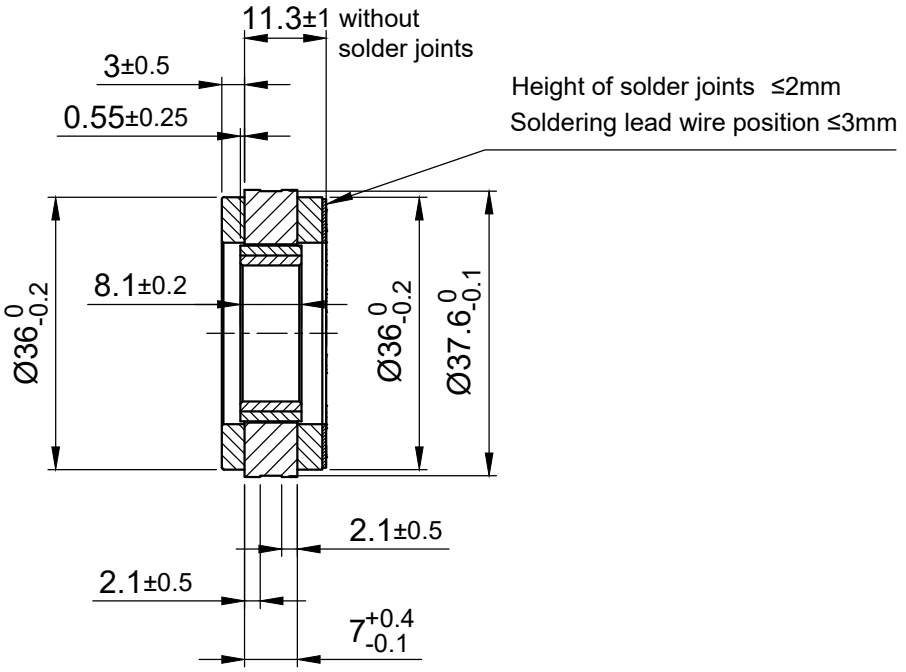


View A-A



MOTOR SPECIFICATION			
No. of Poles			14
Rated Voltage		V DC	24
Current - Rated / Peak		A	5.5 / 16.5
Resistance Line to Line	±10%	Ω @20°	0.365
Inductance Line to Line (1kHz)	±20%	mH	0.32
Torque - Rated / Peak		Nm	0.1 / 0.3
Torque Constant		Nm/A	0,0312
Rated Power		W	83
Speed - No Load / Rated	±10%	rpm	11000 / 8000
Rotor Inertia		kg m²	0.968 x10^{-6}

GENERAL MOTOR SPECIFICATION		
Ambient Temperature	°C	-20 ... 50
Storage Temperature	°C	-20 ... 85
Max. Temperature Rise (at standstill)	°C	80
Max. Ambient Humidity (non condensing)	%	85
Insulation Class		B
Insulation Resistance	MΩ	100 @500VDC
Dielectric Strength (for 1 sec - coil to case)	V AC	600

WIRING DIAGRAM			
	Colour	Function	Lead Gauge
Motor	YE	U	AFR250 0.5mm²
	RD	V	
	BK	W	
Thermistor	WH	NTC1	AFR250-SY 0.15mm²
	WH	NTC2	

Thermistor (NTC): R25: 100kΩ±5%; B25/50: 3950±1%

ISO 8015	ISO 1302	ISO 2768 cK	ISO 13715	Weight: ±10% 0.058 kg

					Date	Name
				Drawn	07.11.2024	Schneid_A
				Reviewed	10.02.2025	Reith_S
02	CR_Nr. 2025-0043	Rehse_P	19.06.2026	Released	10.02.2025	Reith_S
01	CR_Nr. 2025-0043	Schneid_A	23.07.2025			
REV	Rev. Text	Name	Date			

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DKA38M024080

20002687

State: Released | Rev: 02 | CONFIDENTIAL