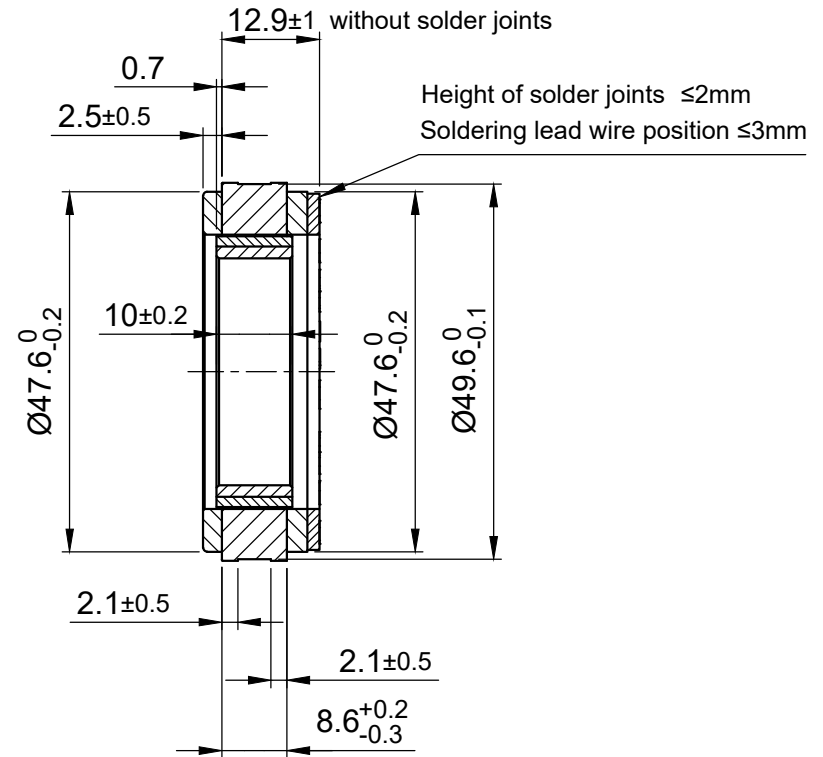
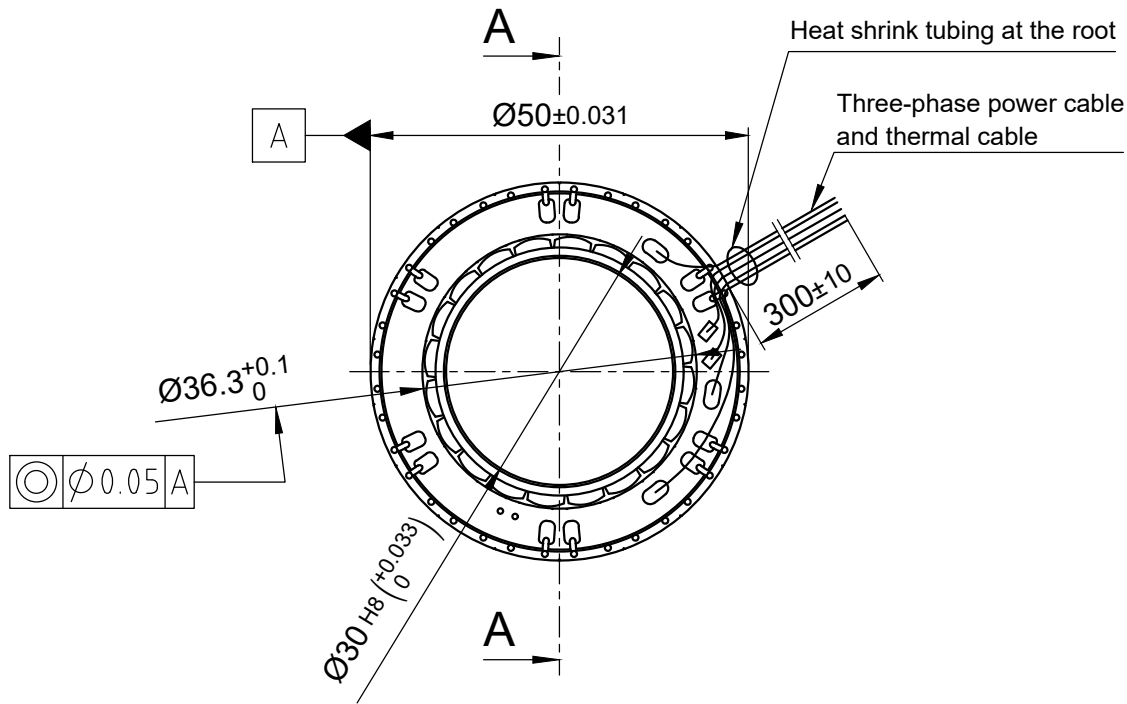


View A-A



MOTOR SPECIFICATION

No. of Poles	20
Rated Voltage	V DC 48
Current - Rated / Peak	A 4.4 / 11.6
Resistance Line to Line	$\pm 10\% \Omega @ 20^\circ$ 0.93
Inductance Line to Line (1kHz)	$\pm 20\% \text{mH}$ 0.457
Torque - Rated / Peak	Nm 0.3 / 0.96
Torque Constant	Nm/A 0.089
Rated Power	W 158
Speed - No Load / Rated	$\pm 10\% \text{rpm}$ 6200 / 5000
Rotor Inertia	kg m^2 5.636×10^{-6}

WIRING DIAGRAM

	Colour	Function	Lead Gauge
Motor	YE	U	UL1332 AWG22
	RD	V	
	BK	W	
Thermistor	WH	NTC1	UL1332 AWG26
	WH	NTC2	

Thermistor (NTC): R25: $100\text{k}\Omega \pm 5\%$; 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% 0.105 kg	
					Date	Name		DKA50M048050			
				Drawn	06.11.2024	Schneid_A					
				Reviewed	10.02.2025	Reith_S					
				Released	10.02.2025	Reith_S					
01	CR_Nr. 2025-0043	Schneid_A	23.07.2025			20002686				A4 Page 1	
REV	Rev. Text	Name	Date			State: Released		Rev: 01		CONFIDENTIAL	