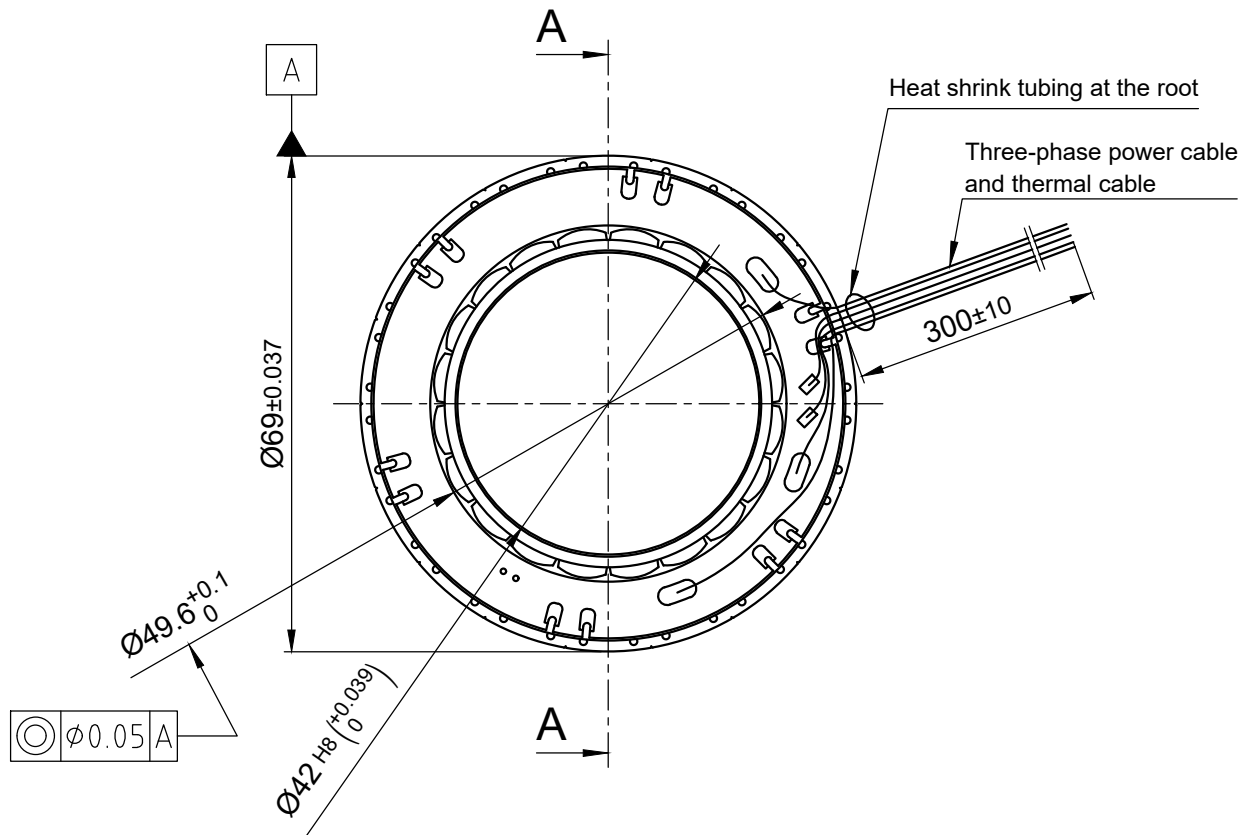
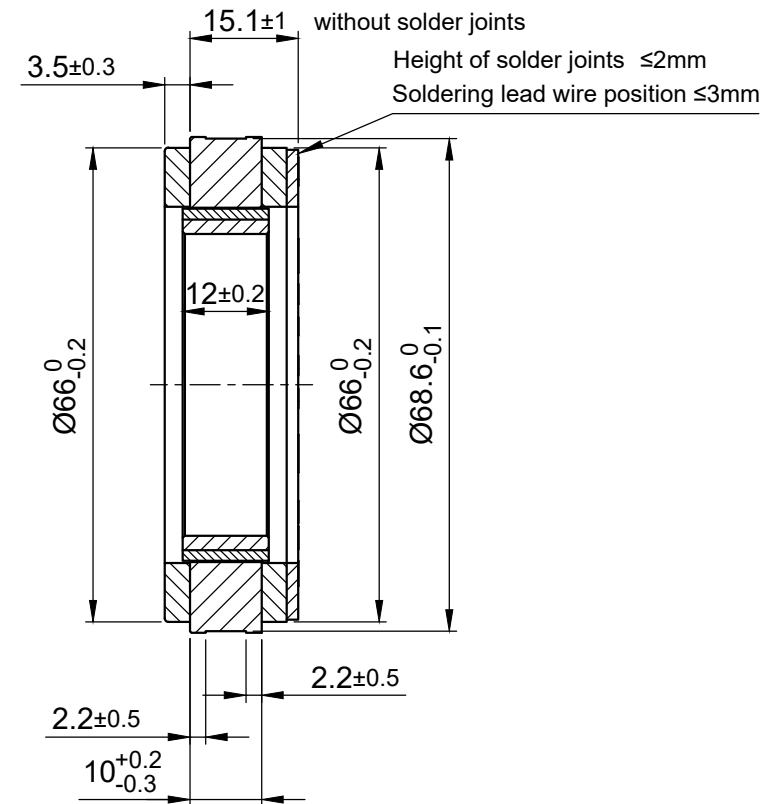




View A-A



MOTOR SPECIFICATION

No. of Poles	20
Rated Voltage	V DC 48
Current - Rated / Peak	A 6.2 / 15.5
Resistance Line to Line	$\pm 10\% \Omega @ 20^\circ$ 0.355
Inductance Line to Line (1kHz)	$\pm 20\% \text{ mH}$ 0.33
Torque - Rated / Peak	Nm 0.55 / 1.65
Torque Constant	Nm/A 0.118
Rated Power	W 210
Speed - No Load / Rated	$\pm 10\% \text{ rpm}$ 4750 / 3650
Rotor Inertia	kg m^2 21.5 $\times 10^{-6}$

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	$\text{M}\Omega$ 100 @ 500VDC
Dielectric Strength (for 1 sec - coil to case)	V AC 1000

WIRING DIAGRAM

	Colour	Function	Lead Gauge
Motor	YE	U	UL1332 AWG20
	RD	V	
	BK	W	
Thermistor	WH	NTC1	UL1332 AWG26
	WH	NTC2	

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

ISO 8015		ISO 1302		ISO 2768 cK		ISO 13715		Weight: $\pm 10\%$ 0.19 kg	
					Date	Name			
					Drawn	07.11.2024	Schneid_A		
					Reviewed	10.02.2025	Reith_S		
					Released	10.02.2025	Reith_S		
01	CR_Nr. 2025-0043	Schneid_A	23.07.2025					20002692	A4 Page 1
REV	Rev. Text	Name	Date					State: Released	Rev: 01