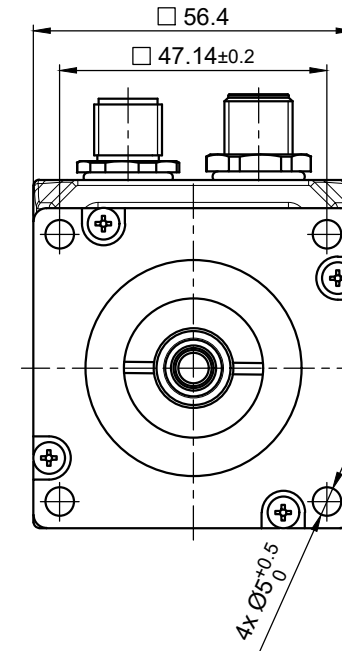
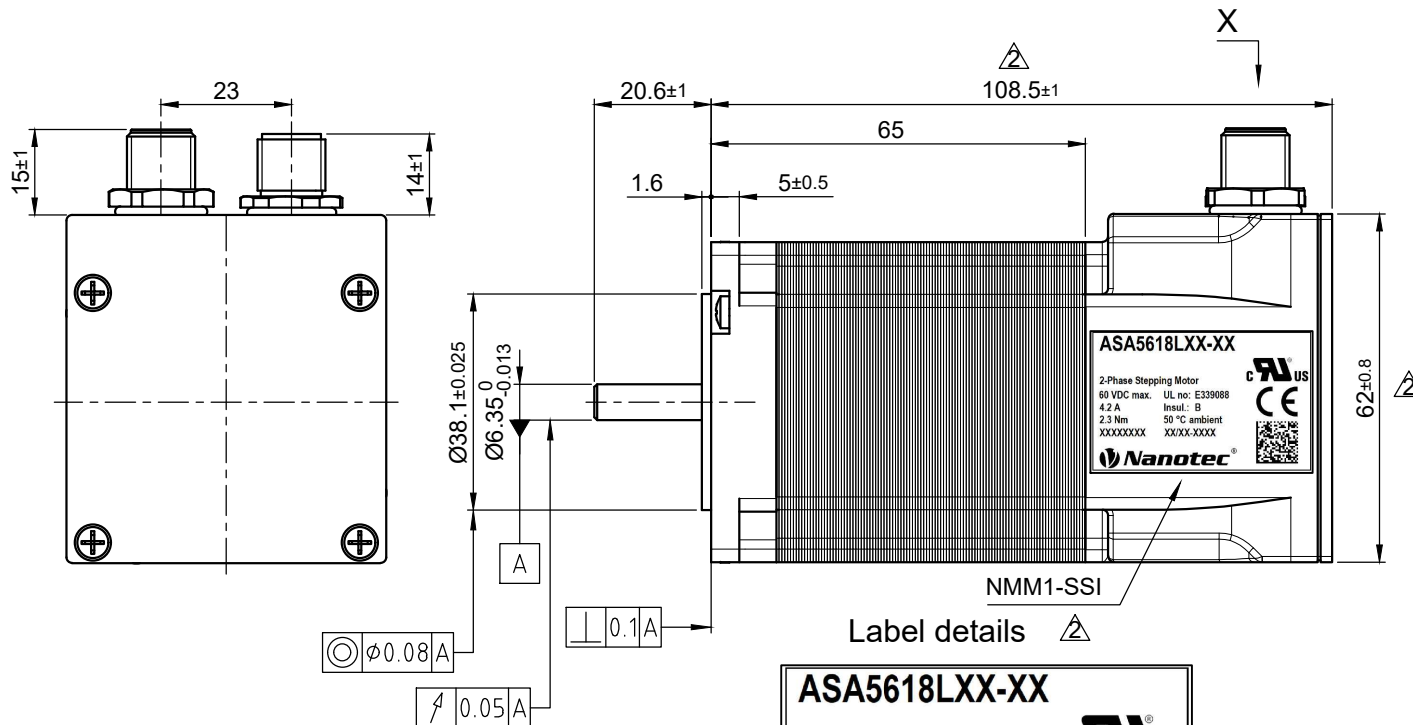


X1 MOTOR	
M12 / 4-Pole / L-Coding / male	
Pin No.	Function
1	A\
2	A
3	B
4	B\
cable shield on housing	

X2 ENCODER	
M12 / 8-Pole / A-Coding / male	
Pin No.	Function
1	Clock+
2	Clock-
3	Data OUT+
4	Data OUT-
5	GND
6	n.c.
7	n.c.
8	+UB
cable shield on housing	

MOTOR SPECIFICATION		
Nominal Operating Voltage	V DC	48
Max. Operating Voltage	V DC	60
Current per Winding	A	4.2
Resistance per Phase (25°C)	±15% Ω	0.55
Inductance per Phase (1 kHz)	±20% mH	2.1
Holding Torque	Nm	2.3
Step Angle	±5% °	1.8
Rotor Inertia	kg m ²	48 x 10 ⁻⁶

GENERAL MOTOR SPECIFICATION		
Ambient Temperature	°C	-10 ... 50
Max. Ambient Humidity (non condensing)	%	85
Protection Class (except shaft outlet)		IP65
Protection Class (shaft outlet)		IP54
Housing color		black

ENCODER SPECIFICATION		
Operating Voltage	V DC	4.75...15
Singleturn Enc. Resolution	bit	17
Multiturn Enc. Resolution	bit	16
Interface		SSI

A-Shaft	Preload Spring	B-Shaft
Max. Axial Force Fa	N	10
Max. Radial Force Fr (a1 = 10 mm)	N	28
Axial Play Fa = 4.0 N	mm	0.08
Radial Play Fr = 4.0 N	mm	0.02

ISO 8015	ISO 1302	ISO 2768 cK	ISO 13715	Weight ±10% 1.3 kg	
			Date	Name	
03	housing color	Kolev_I	21.08.2024	Drawn	07.09.2023 Schneid_A
02	revise drawing	Kolev_I	16.02.2024	Reviewed	09.11.2023 Sejdini_B
01	revise drawing	Schneid_A	15.11.2023	Released	09.11.2023 Sejdini_B
REV	Rev. Text	Name	Date		
				20002085	
				State: Released	Rev: 03
				CONFIDENTIAL	

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