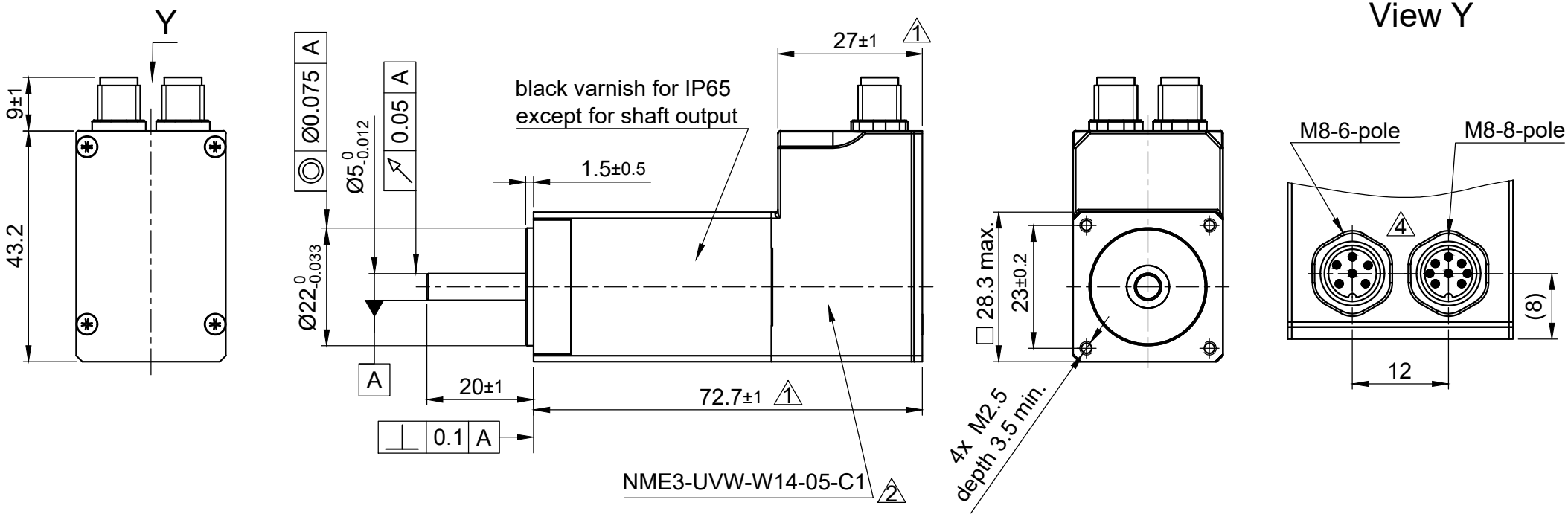

MOTOR SPECIFICATION			
Max. Operating Voltage	V DC	30	3
Voltage	V DC	2.85	
Current per Winding	A	1.5	
Resistance per Phase (25°C) ±15%	Ω	1.9	
Inductance per Phase (1 kHz) ±20%	mH	1.9	
Holding Torque	Nm	0.18	
Step Angle ±5%	°	1.8	
Rotor Inertia	kg m²	1.8 x10^{-6}	

ENCODER SPECIFICATION		
Operating Voltage	V DC	5
Resolution	cpr	4096
Resolution (cpr with quadrature)	ppr	16384
No. of Channels		3
Signal Type	incremental	
Index / Line Driver	yes / yes	
see Datasheet Encoder for more Details		

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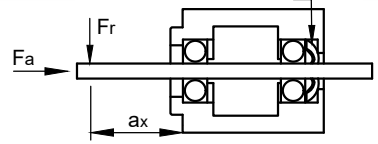
M8 / 6-Pole / A-Coding / male	
Pin No.	Function
1	A\
2	A
3	B
4	B\
5	n.c.
6	n.c.
cable shield on housing	

M8 / 8-Pole / A-Coding / male	
Pin No.	Function
1	A
2	A\
3	B
4	B\
5	GND
6	I\
7	I
8	+UB
cable shield on housing	

A-Shaft — Preload Spring — B-Shaft



Max. Axial Force Fa	N	15
Max. Radial Force Fr (a1 = 5 mm)	N	58
Max. Radial Force Fr (a2 = 20 mm)	N	20
Axial Play Fa = 4.5 N	mm	0.08
Radial Play Fr = 4.5 N	mm	0.02

GENERAL MOTOR SPECIFICATION		
Ambient Temperature	°C	-10 ... 50
Max. Temperature Rise (at standstill - 2 phases energized)	°C	80
Max. Ambient Humidity (non condensing)	%	85
Insulation Class		B
Insulation Resistance	MΩ	100
Dielectric Strength (for 1 min - coil to case)	V AC	500
Protection Class (except shaft outlet)		IP65

ISO 8015	ISO 1302	ISO 2768 cK	ISO 13715

					Date	Name
				Drawn	25.09.2024	Schneid_A
				Reviewed	25.09.2024	Rehse_P
				Released	25.09.2024	Rehse_P
05	CR_2024-0062	Schneid_A	15.10.2024			
REV	Rev. Text	Name	Date			

Nanotec® PLUG & DRIVE

Replacement for drawing from 17.03.2021 | Weight ±10% 0.24 kg

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AS2818L1504-E

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State: Released | Rev: 05 | CONFIDENTIAL