



**MOTOR SPECIFICATION**

No. of Poles		2
Rated Voltage	V DC	24
Current - Rated / Peak	A	0.86 / 2.6
Resistance Line to Line	±10% Ω	4.2 $\Delta$
Inductance Line to Line (1kHz)	±20% mH	0.42
Torque - Rated / Peak	Nm	0.018 / 0.055
Torque Constant	Nm/A	0.021
Rated Power	W	15
Speed - No Load / Rated	±10% rpm	10000 / 8000
Rotor Inertia	kg m <sup>2</sup>	0.88 x10 <sup>-6</sup>

**WIRING DIAGRAM**

	Colour	Function	Lead Gauge
Motor	Ye	U	UL1332 AWG22
	Rd	V	
	Bk	W	

A-Shaft		Spring	B-Shaft	
Max. Axial Force $F_a$	N		2.0	
Max. Radial Force $F_r$ ( $a_1 = 10$ mm)	N		5 max.	
Axial Play	$F_a = 4.0$ N	mm	0.14	
Radial Play	$F_r = 4.0$ N	mm	0.02	

**GENERAL MOTOR SPECIFICATION**

Ambient Temperature	°C	-10 ... 50
Max. Temperature Rise (at standstill)	°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

ISO 8015	ISO 1302	ISO 2768 cK	ISO 13715	Weight: ~0.14 kg
			Date	Name
			Drawn	04.12.2017
			Reviewed	####
			Released	####
01	change Resist. 4.5 to 4.2	Schneid_A	10.05.2022	
REV	Rev. Text	Name	Date	
<b>Nanotec</b> PLUG & DRIVE				
DS28M024080-B				
03000205				
State: Released		Rev: 01		CONFIDENTIAL
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