



MOTOR SPECIFICATION

No. of Poles		8
Rated Voltage	V DC	12
Current - Rated / Peak	A	0.65 / 1.62
Resistance Line to Line	±10% Ω	6.9
Inductance Line to Line (1kHz)	±20% mH	0.7
Torque - Rated / Peak	Nm	0.00759 / 0.019
Torque Constant	Nm/A	0.012
Back-EMF Constant	V _{rms} /krpm	0.89
Rated Power	W	5
Speed - No Load / Rated	±10% rpm	9530 / 5170
Rotor Inertia	kg m ²	0.51 × 10 ⁻⁶

WIRING DIAGRAM

	PIN	Function
Motor	8	U
	7	V
	6	W
Hall 24 Impl. per Rev.	1	+5DC - +24VDC
	3	H1
	4	H2
	2	H3
	5	GND

A-Shaft	Preload Spring	B-Shaft
Max. Axial Force F_a	N	2
Max. Radial Force F_r ($a_1 = 10$ mm)	N	5
Axial Play	$F_a = 0.45$ N mm	0.08
Radial Play	$F_r = 0.45$ N mm	0.02

GENERAL MOTOR SPECIFICATION

Ambient Temperature	°C	-20 ... 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: 0.023 kg
		Date	Name	DF20M012052-A
		Drawn	Schneid_A	
		Reviewed	Knoll_J	
		Released	Knoll_J	
REV	Rev. Text	Name	Date	03200064
				State: Released
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