



MOTOR SPECIFICATION	
No. of Poles	8
Rated Voltage	V DC 24
Current - No Load / Rated / Peak	A Δ 0.25 3.47 10.6
Resistance Phase to Phase	$\pm 15\%$ Ω 0.8
Inductance Phase to Phase (1kHz) $\pm 20\%$	mH 1.2
Torque - Rated / Peak	Nm 0.125 0.38
Torque Constant	Nm/A 0.036 Δ Δ
Rated Power	W 52 Δ
Speed - No Load / Rated Δ $\pm 10\%$	rpm Δ 6000 Δ 4000
Rotor Inertia	kg m ² 4.8 $\times 10^{-6}$

WIRING DIAGRAM			
	Colour	Function	Lead Gauge
Motor 8pol.	Ye	U	UL1430 AWG20
	Rd	V	
	Bk	W	
Hall 24 Impl. per Rev.	Rd	+5V	UL1430 AWG26
	Bu	H1	
	Wh	H2	
	Gn	H3	
	Bk	GND	

A-Shaft		Preload Spring		B-Shaft	
F_a	F_r				
		a_x			
Max. Axial Force F_a	N	10			
Max. Radial Force F_r (a = 20 mm)	N	28			
Axial Play	$F_a = 4.5$ N	mm	0.08		
Radial Play	$F_r = 4.5$ N	mm	0.02		

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

ISO 8015		ISO 1302		ISO 2768 cK		ISO 13715	
				Date	Name		
				Drawn	04.12.2017	Import	
				Reviewed	03.12.2019	Hofstet_M	
				Released	03.12.2019	Hofstet_M	
07	cha. no load sp./rev. dr.						
REV	Rev. Text	Name	Date				

Weight: 0.45 kg	
DB42M03	
03000037	
State: Released	Rev: 07
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