



MOTOR SPECIFICATION

No. of Poles		6
Rated Voltage	V DC	24
Current - No Load / Rated / Peak	A	<0.9 / 8 / 24
Resistance Line to Line	$\pm 10\%$ Ω	0.24
Inductance Line to Line (1kHz)	$\pm 20\%$ mH	0.29
Torque - Rated / Peak	Nm	0.37 / 1.11
Torque Constant	Nm/A	0.046
Back-EMF Constant	$V_{rms}/krpm$	3.8
Rated Power	W	135
Speed - No Load / Rated	$\pm 10\%$ rpm	4500 / 3500
Rotor Inertia	$kg\ m^2$	10.5×10^{-6}

WIRING DIAGRAM

	Colour	Function	Lead Gauge
Motor	Ye	U	UL1332 AWG18
	Rd	V	
	Bk	W	

A-Shaft	Preload Spring	B-Shaft
Max. Axial Force F_a	N	15
Max. Radial Force F_r ($a_2 = 20\ \text{mm}$)	N	75
Axial Play	$F_a = 40\ \text{N}$ mm	0.1
Radial Play	$F_r = 4.6\ \text{N}$ mm	0.025

GENERAL MOTOR SPECIFICATION

Ambient Temperature	$^\circ\text{C}$	-10 ... 50
Max. Temperature Rise (at standstill)	$^\circ\text{C}$	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	Weight: ~0.65 kg			
		Date	Name	DB59M024035R-B			
		Drawn	Import				
04	change speed, no load	Schneid_A	Checked		13.09.2018	Knoll_J	
03	change depth thread M2.5		05.12.2018	Approved	13.09.2018	Schneid_A	
02	change speed, no load		20.09.2018				
REV	Rev. Text	Name	Rel. Date			03000114	
				State: Released	Rev: 04	CONFIDENTIAL	A4