



MOTOR SPECIFICATION

No. of Poles		6
Rated Voltage	V DC	24
Current - Rated / Peak	A	13.6 / 40
Resistance Line to Line	$\pm 10\%$ Ω	0.135
Inductance Line to Line (1kHz)	$\pm 20\%$ mH	0.2
Torque - Rated / Peak	Nm	0.6 / 1.8
Torque Constant	Nm/A	0.044
Back-EMF Constant	$V_{\text{rms}}/\text{krpm}$	3.7
Rated Power	W	220
Speed - No Load / Rated	$\pm 10\%$ rpm	4500 / 3500
Rotor Inertia	kg m^2	17.3 $\times 10^{-6}$

WIRING DIAGRAM

	Colour	Function	Lead Gauge
Motor	Ye	U	UL1332 AWG16
	Rd	V	
	Bk	W	

A-Shaft	Preload Spring	B-Shaft
F_a	F_r	a_x
Max. Axial Force F_a	N	15
Max. Radial Force F_r ($a_1 = 5$ mm)	N	130
Axial Play	$F_a = 10$ N mm	-0.03
Radial Play	$F_r = 5.0$ N mm	0.02

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
		Date	Name
		Drawn	04.12.2017
		Checked	06.12.2018
		Approved	06.12.2018
02	change depth thread M2.5	Schneid_A	06.12.2018
REV	Rev. Text	Name	Rel. Date

Weight: 0.95 kg	
DB59C024035-B	
03000082	-
State: Released	Rev: 02
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