



### MOTOR SPECIFICATION

No. of Poles		6
Rated Voltage	V DC	24
Current - No Load / Rated / Peak	A	<1.2/13.6/ 40
Resistance Line to Line	$\pm 10\%$ $\Omega$	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	$V_{rms}/krpm$	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 $F_r$ ( $a_2 = 20$ mm)	N	75
Axial Play $F_a = 40$ N	mm	0.1
Radial Play $F_r = 4.6$ N	mm	0.025

### GENERAL MOTOR SPECIFICATION

Ambient Temperature	$^\circ C$	-10 ... 50
Max. Temperature Rise (at standstill)	$^\circ C$	80
Max. Ambient Humidity (non condensing)	%	85
Insulation Class		B
Insulation Resistance	M $\Omega$	100
Dielectric Strength (for 1 min - coil to case)	V AC	500

### ISO 8015 ISO 1302 ISO 2768 cK ISO 13715

REV	Rev. Text	Name	Rel. Date
02	change depth thread M2.5	Schneid_A	06.12.2018

**Nanotec**  
PLUG & DRIVE

Date	Name	DB59C024035R-B	Weight: 0.95 kg
Drawn	Import		
Checked	Knoll_J		
Approved	Schneid_A	03000090	-
State: Released		Rev: 02	P