



MOTOR SPECIFICATION	
No. of Poles	4
Rated Voltage	V DC 24
Current - No Load / Rated / Peak	A $\sqrt{6}$ 0.25 / 1.45 / 4.5
Resistance Line to Line	$\pm 15\%$ $\Omega$ 4.2 $\sqrt{1}$
Inductance Line to Line (1kHz)	$\pm 20\%$ mH $\sqrt{6}$ 2.3 $\sqrt{1}$
Torque - Rated / Peak	Nm 0.05 / 0.15
Torque Constant	Nm/A 0.0356 $\sqrt{3}$
Rated Power	W $\sqrt{6}$ 20.9 $\sqrt{5}$
Speed - No Load / Rated	$\pm 10\%$ rpm $\sqrt{3}$ 6000 / 4000
Rotor Inertia	kg m <sup>2</sup> $\sqrt{3}$ 1.098 x 10 <sup>-6</sup>

WIRING DIAGRAM			
	Colour	Function	Lead Gauge
Motor 4 pol.	GN	U	UL1007 AWG26
	RD	V	
	BK	W	
Hall 12 Impl. per Rev.	YE	+5V	UL1007 AWG26
	BU	H1	
	OG	H2	
	BN	H3	
	WH	GND	

A-Shaft	Preload Spring	B-Shaft
$F_a$	$F_r$	$a_x$
Max. Axial Force $F_a$	N	2 $\sqrt{6}$
Max. Radial Force $F_r$ ( $a_1 = 10$ mm)	N	15
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	-10 ... 50
Max. Temperature Rise (at standstill)	°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	Weight: 0.195 kg
		Date	Name	DB28L01 $\sqrt{4}$
		Drawn	Schneid_A	
		Checked	Schneid_A	
06	change values	Schneid_A	28.06.2018	03200021
05	POW. peak del./ rat. cha.	Schneid_A	02.05.2018	
REV	Rev. Text	Name	Rel. Date	State: Released
				Rev: 06
				P

