



MOTOR SPECIFICATION		
No. of Poles	8	
Rated Voltage	V DC	48
Current - Rated / Peak	A	17.95 / 53.85
Resistance Line to Line	$\Delta \pm 15\% \Omega$	0.097 $\Delta$
Inductance Line to Line (1kHz)	$\pm 20\%$ mH	0.3 $\Delta$
Torque - Rated / Peak	Nm	2.1 / 6.3
Torque Constant	Nm/A	0.117
Rated Power	W	660 $\Delta$
Speed - No Load / Rated	$\pm 10\%$ rpm	4500 / 3000
Rotor Inertia	kg m <sup>2</sup>	240 x10 <sup>-6</sup>

WIRING DIAGRAM				
	Colour	Function	Lead Gauge	
Motor 8 Pol.	Ye	U	AWM3135 AWG16	$\Delta$ $\Delta$
	Rd	V		
	Bk	W		
Hall 24 Impl. per Rev.	Rd	+5V	UL1332 AWG22	$\Delta$
	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	60
Max. Radial Force $F_r$ ( $a_2 = 20$ mm)	N	220
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 - 2 phases energized)	°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
		Date	Name
		Drawn	04.12.2017
		Checked	10.04.2018
		Approved	10.04.2018
05	change Induct./Resistance	Schneid_A	10.04.2018
REV	Rev. Text	Name	Rel. Date

Weight: 4.0 kg	
DB87L01-S	
03000132	
State: Released	Rev: 05.A
P	

