



MOTOR SPECIFICATION			
No. of Poles		8	
Rated Voltage	V DC	48	
Current - Rated / Peak	A	6.25 19	\triangle
Resistance Line to Line	$\pm 15\%$ Ω	0.34	\triangle \triangle \triangle
Inductance Line to Line (1kHz)	$\pm 20\%$ mH	1.07	\triangle \triangle \triangle
Torque - Rated / Peak	Nm	0.70 2.1	\triangle
Torque Constant	Nm/A	0.112	
Power - Rated	W	220	\triangle
Speed - No Load / Rated	$\pm 10\%$ rpm	3600 3000	\triangle
Rotor Inertia	kg m ²	80	$\times 10^{-6}$

WIRING DIAGRAM			
	Colour	Function	Lead Gauge
Motor	Ye	U	AWM3135 AWG16
	Rd	V	
	Bk	W	
Hall 24 Impl. per Rev.	Rd	+5V	UL1332 AWG22
	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 ($a = 20$ 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			ISO 8015	ISO 1302	ISO 2768 cK	ISO 13715	Weight: ~1.9 kg		
Ambient Temperature	$^{\circ}\text{C}$	Min. -10 Max. 50				Date	Name		
Max. Temperature Rise (at standstill - 2 phases energized)	$^{\circ}\text{C}$	80				Drawn	Import		
Max. Ambient Humidity (non condensing)	%	85	08	change diameter + tol.	Reith_S	17.05.2022	Reviewed	09.01.2018	Schneid_A
Insulation Class		B	07	change induc./resist.			Released	09.01.2018	Schneid_A
Insulation Resistance	M Ω	100	05	change no-load-speed					
Dielectric Strength (for 1 min - coil to case)	V AC	500	REV	Rev. Text	Name	Date			03000156