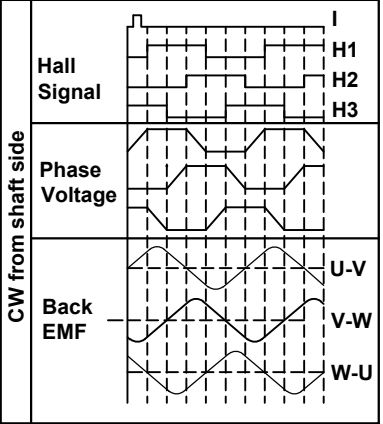


MOTOR SPECIFICATION		
No. of Poles		22
Rated Voltage	V DC	48
Current - No Load / Rated / Peak	A	0.4 / 4.3 / 13
Resistance Line to Line	±10% Ω	0.53
Inductance Line to Line (1kHz)	±20% mH	0.71
Torque - Rated / Peak	Nm	0.964 / 3.0
Torque Constant	Nm/A	0.230
Rated Power	W	168
Speed - No Load / Rated	±10% rpm	2000 / 1670
Rotor Inertia	kg m ²	500 x10 ⁻⁶

WIRING DIAGRAM			
	PIN	Function	Connector
Motor	1	U	MOLEX 2074790003
	2	V	
	3	W	
Encoder	1	VCC	MOLEX 5023821270
	2	A\	
	3	A	
	4	B\	
	5	B	
	6	I\	
	7	I	
	8	H1	
	9	H2	
	10	H3	
	11	Housing	
	12	GND	

ENCODER SPECIFICATION		
Operating Voltage	V DC	5
Resolution	cpr	4096
Resolution (cpr with quadrature)	ppr	16384
No. of Channels		3
Signal Type	incremental	
Index / Line Driver	yes / yes	

MECHANICAL SPECIFICATION		
Max. Axial Force F_a	N	45
Max. Radial Force F_r ($a_1 = 10$ mm)	N	110
Axial Play $F_a = 4.0$ N	mm	0.08
Radial Play $F_r = 4.0$ N	mm	0.02



GENERAL MOTOR SPECIFICATION		
Ambient Temperature	°C	-20 ... 50
Max. Temperature Rise (at standstill)	°C	80
Max. Ambient Humidity (non condensing)	%	85
Insulation Class		B
Insulation Resistance	MΩ	100
Dielectric Strength (for 1 min - coil to case)	V AC	500

ISO 8015	ISO 1302	ISO 2768 cK	ISO 13715
02	change tol. dim. 5.4	Schneid_A	10.01.2024
01	change Enc. cpr/ppr, dim.	Hofstet_M	13.01.2021
REV	Rev. Text	Name	Date

Date		Name		DFA90L048017-E	Weight: ±10% 1.1 kg
09.12.2020	09.12.2020	Schneid_A	Hofstet_M		
09.12.2020	09.12.2020	Hofstet_M	Hofstet_M		
20000747				A4 Page 1	
State: Released		Rev: 02		CONFIDENTIAL	

