

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :	12376315	
		Catalog # :	00209ST3QIE213TC-W22	
Frame	: 213/5TC	Locked rotor time	: 70s (cold) 39s (hot)	
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K	
Poles	: 8	Duty cycle	: Cont.(S1)	
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C	
Rated voltage	: 460 V	Altitude	: 1000 m.a.s.l.	
Rated current	: 3.39 A	Protection degree	: IP56	
L. R. Amperes	: 23.4 A	Cooling method	: IC411 - TEFC	
LRC	: 6.9x(Code L)	Mounting	: F-1	
No load current	: 2.30 A	Rotation ¹	: Both (CW and CCW)	
Rated speed	: 875 rpm	Noise level ²	: 52.0 dB(A)	
Slip	: 2.78 %	Starting method	: Direct On Line	
Rated torque	: 12.0 ft.lb	Approx. weight ³	: 170 lb	
Locked rotor torque	: 220 %			
Breakdown torque	: 290 %			
Insulation class	: F			
Service factor	: 1.25			
Moment of inertia (J)	: 1.79 sq.ft.lb			
Design	: B			
Output	25%	50%	75%	100%
Efficiency (%)	81.0	81.2	82.5	81.5
	81.2	81.2	81.5	81.5
Power Factor	0.24	0.29	0.45	0.52
	0.27	0.25	0.49	0.46
		0.59	0.56	0.69
			0.67	
Losses at normative operating points (speed;torque), in percentage of rated output power				
Losses (%)	P1 (0,9;1,0)	16.1	20.8	20.1
	P2 (0,5;1,0)	13.5	17.5	16.9
	P3 (0,25;1,0)	13.2	17.1	16.5
	P4 (0,9;0,5)	9.6	12.4	12.0
	P5 (0,5;0,5)	7.0	9.0	8.7
	P6 (0,5;0,25)	5.6	7.2	7.0
	P7 (0,25;0,25)	4.4	5.7	5.5
		<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	: 6308 C3		6207 C3	
Sealing	: Inpro/Seal		Inpro/Seal	
Lubrication interval	: 20000 h		20000 h	
Lubricant amount	: 11 g		7 g	
Lubricant type	: Mobil Polyrex EM			
Notes:				
This revision replaces and cancel the previous one, which must be eliminated.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.	
(1) Looking the motor from the shaft end.				
(2) Measured at 1m and with tolerance of +3dB(A).				
(3) Approximate weight subject to changes after manufacturing process.				
(4) At 100% of full load.				
Rev.	Changes Summary			Performed
				Checked
Performed by				
Checked by				
Date		25/03/2024		
Page				Revision
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