

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12446715

Catalog # : 00736ET3E213T-W22

Frame	: 213/5T	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 17.5/8.76 A	Protection degree	: IP55
L. R. Amperes	: 126/63.1 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code H)	Mounting	: F-1
No load current	: 6.00/3.00 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3530 rpm	Noise level ²	: 68.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 11.2 ft.lb	Approx. weight ³	: 159 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.4665 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	87.5 86.7 86.4 86.1 88.5 87.5 87.5	89.5 88.2 88.3 88.5 88.5 87.5 88.5	89.5 88.2 88.3 88.5 87.5 87.5 88.5	Max. traction	: 133 lb
Power Factor	0.75 0.74 0.70 0.67 0.80 0.77 0.74	0.84 0.83 0.81 0.78 0.87 0.86 0.84	0.88 0.88 0.86 0.84 0.90 0.89 0.88	Max. compression	: 292 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	11.3	11.3	11.3	11.3	11.3	11.3	11.3
	P2 (0,5;1,0)	9.1	9.1	9.1	9.1	9.1	9.1	9.1
	P3 (0,25;1,0)	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	P4 (0,9;0,5)	5.9	5.9	5.9	5.9	5.9	5.9	5.9
	P5 (0,5;0,5)	3.6	3.6	3.6	3.6	3.6	3.6	3.6
	P6 (0,5;0,25)	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	P7 (0,25;0,25)	1.5	1.5	1.5	1.5	1.5	1.5	1.5

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 ZZ	6207 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Notes:

This revision replaces and cancel the previous one, which must be eliminated.

- (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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	29/03/2024			
			Page	Revision
			1 / 1	