

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11437958

Catalog # : 00536ET3E184T-W22

Frame	: 182/4T	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 5 HP (3.7 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	: 11.8/5.90 A	Protection degree	: IP55
L. R. Amperes	: 89.7/44.8 A	Cooling method	: IC411 - TEFC
LRC	: 7.6x(Code J)	Mounting	: F-1
No load current	: 4.00/2.00 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3500 rpm	Noise level ²	: 66.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 7.50 ft.lb	Approx. weight ³	: 94.6 lb
Locked rotor torque	: 229 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.2233 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	0.000	86.5	86.3	88.5	87.7	88.5	87.5	Max. traction	: 127 lb	
	0.000	86.3	86.1	88.2	88.2	88.3	88.3			
		87.5	87.5	87.5	88.5	86.5	87.5			
		87.5		88.5		87.5				
Power Factor	0.00	0.00	0.76	0.74	0.85	0.85	0.89	0.89	Max. compression	: 221 lb
			0.71	0.68	0.83	0.81	0.88	0.87		
			0.81	0.78	0.88	0.87	0.91	0.90		
			0.76		0.85		0.89			

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

Losses (%)	P1 (0,9;1,0)	12.2	13.4	12.4	12.4	14.7	13.4	13.4
	P2 (0,5;1,0)	10.1	11.1	10.3	10.3	12.1	11.1	11.1
	P3 (0,25;1,0)	9.7	10.7	9.9	9.9	11.7	10.7	10.7
	P4 (0,9;0,5)	5.9	6.5	6.1	6.1	7.1	6.5	6.5
	P5 (0,5;0,5)	3.7	4.0	3.7	3.7	4.4	4.0	4.0
	P6 (0,5;0,25)	2.3	2.5	2.3	2.3	2.7	2.5	2.5
	P7 (0,25;0,25)	1.5	1.6	1.5	1.5	1.8	1.6	1.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6207 ZZ	6206 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		Page 1 / 1		
Checked by				
Date	28/03/2024			
			Revision	