

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12275877

Catalog # : 06036ET3E364TSC-W22

Frame	: 364/5TSC	Locked rotor time	: 25s (cold) 14s (hot)
Output	: 60 HP (45 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	: 134/67.0 A	Protection degree	: IP55
L. R. Amperes	: 884/442 A	Cooling method	: IC411 - TEFC
LRC	: 6.6x(Code G)	Mounting	: F-1
No load current	: 32.0/16.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3555 rpm	Noise level ²	: 79.0 dB(A)
Slip	: 1.25 %	Starting method	: Direct On Line
Rated torque	: 88.6 ft.lb	Approx. weight ³	: 889 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 10.6 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	91.7 92.1	93.0 92.8	93.6 93.7	Max. traction	: 469 lb
	91.7 91.6	92.8 92.9	93.7 93.7		
	92.4 92.4	93.0 93.0	92.4 93.0		
	92.4	93.0	93.0		
Power Factor	0.81 0.81	0.88 0.88	0.90 0.89	Max. compression	: 1358 lb
	0.79 0.76	0.87 0.85	0.89 0.89		
	0.85 0.83	0.88 0.89	0.89 0.90		
	0.81	0.88	0.90		

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

Losses (%)	P1 (0,9;1,0)	6.3	6.3	6.3	6.3	6.3	6.3	6.3
	P2 (0,5;1,0)	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	P3 (0,25;1,0)	4.4	4.4	4.4	4.4	4.4	4.4	4.4
	P4 (0,9;0,5)	3.3	3.3	3.3	3.3	3.3	3.3	3.3
	P5 (0,5;0,5)	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6	0.6	0.6	0.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	4000 h	4000 h
Lubricant amount	:	27 g	27 g
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	