

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14335221

Catalog # : 03012ET3ER326TSC-W22

Frame	: 326TSC	Locked rotor time	: 37s (cold) 21s (hot)
Output	: 30 HP (22 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 72.4/36.2 A	Protection degree	: IP55
L. R. Amperes	: 449/225 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: W-6
No load current	: 32.8/16.4 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1180 rpm	Noise level <sup>2</sup>	: 62.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 134 ft.lb	Approx. weight <sup>3</sup>	: 594 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 13.2 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%
Efficiency (%)	91.5	91.2	91.7	91.3
	91.2	90.4	91.3	90.7
	92.1	92.1	91.7	91.7
	91.3	91.0	92.4	91.7
Power Factor	0.40	0.40	0.65	0.64
	0.37	0.34	0.61	0.58
	0.46	0.43	0.71	0.68
	0.40	0.65	0.76	0.82
				0.79
				0.78
				0.84
				0.83

### Foundation loads

Max. traction : 1184 lb

Max. compression : 1778 lb

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

P1 (0,9;1,0)	7.3	8.8	8.3	8.4	9.6	8.8	8.8
P2 (0,5;1,0)	6.1	7.4	7.0	7.1	8.1	7.4	7.4
P3 (0,25;1,0)	6.0	7.2	6.8	6.9	7.9	7.2	7.2
P4 (0,9;0,5)	3.6	4.3	4.1	4.2	4.8	4.3	4.3
P5 (0,5;0,5)	2.5	3.1	2.9	2.9	3.3	3.1	3.1
P6 (0,5;0,25)	1.7	2.1	2.0	2.0	2.3	2.1	2.1
P7 (0,25;0,25)	1.2	1.5	1.4	1.4	1.6	1.5	1.5

### Drive end

### Non drive end

Bearing type	:	6312 C3	6212 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	21 g	13 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	28/03/2024					
Page						Revision
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