

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Cooling Tower NEMA Premium  
Efficiency Three-Phase

Product code : 12096034

Catalog # : 03012ET3PCT326T-W22

Frame	: 324/6T	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	: 200 V	Altitude	: 1000 m.a.s.l.
Rated current	: 83.3 A	Protection degree	: IP55
L. R. Amperes	: 516 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: F-2
No load current	: 37.7 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>	: 549 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%	Foundation loads	
Efficiency (%)	91.5	91.7	93.0	93.0	Max. traction	: 955 lb
Power Factor	0.40	0.65	0.76	0.82	Max. compression	: 1504 lb

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
7.3	6.1	6.0	3.6	2.5	1.7	1.2

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6312 2RS C3	: 6212 2RS C3
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.

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Customer :

Space heater information

Voltage: 110-127/200-240 V

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