

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11997983

Catalog # : 02518ET3PCT284T-W22

Frame : 284T  
Output : 25 HP (18.5 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 200 V  
Rated current : 67.8 A  
L. R. Amperes : 421 A  
LRC : 6.2x(Code G)  
No load current : 25.3 A  
Rated speed : 1770 rpm  
Slip : 1.67 %  
Rated torque : 74.2 ft.lb  
Locked rotor torque : 240 %  
Breakdown torque : 270 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 5.11 sq.ft.lb  
Design : B

Locked rotor time : 43s (cold) 24s (hot)  
Temperature rise : 80 K  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Protection degree : IP55  
Cooling method : IC411 - TEFC  
Mounting : F-2  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 63.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 390 lb

Output 25% 50% 75% 100%

Efficiency (%) 91.7 92.4 93.0 93.6  
Power Factor 0.45 0.70 0.80 0.84

Foundation loads

Max. traction : 678 lb  
Max. compression : 1068 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)
6.8	5.8	5.3	3.1	2.2	1.4	1.0

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type :		6311 2RS C3	6211 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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