

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12023807

Catalog # : 02018ET3HCT256TF1-W2

Frame : 254/6T  
Output : 20 HP (15 kW)  
Poles : 4  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 19.3 A  
L. R. Amperes : 133 A  
LRC : 6.9x(Code H)  
No load current : 7.68 A  
Rated speed : 1770 rpm  
Slip : 1.67 %  
Rated torque : 59.3 ft.lb  
Locked rotor torque : 240 %  
Breakdown torque : 260 %  
Insulation class : F  
Service factor : 1.25  
Moment of inertia (J) : 3.10 sq.ft.lb  
Design : B

Locked rotor time : 54s (cold) 30s (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-1  
Rotation<sup>1</sup> : Both (CW and CCW)  
Noise level<sup>2</sup> : 64.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 335 lb

Output 25% 50% 75% 100%

Efficiency (%) 91.0 91.7 92.4 93.0  
Power Factor 0.43 0.68 0.79 0.84

Foundation loads

Max. traction : 572 lb  
Max. compression : 908 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)
7.5	6.4	5.8	3.6	2.5	1.6	1.1

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6309 2RS C3	6209 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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