

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12023970

Catalog # : 02018ET3HCT256T-W22

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-2
Rotation¹ : Both (CW and CCW)
Noise level² : 64.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 341 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 : 569 lb
Max. compression : 910 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

	Drive end	Non drive end
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.

Rev.	Changes Summary	Performed	Checked	Date
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Customer :

Space heater information

Voltage: 110-127/200-240 V

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