

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12095893

Catalog # : 10012ET3PCT444T-W22

Frame	: 444/5T	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 100 HP (75 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	: 278 A	Protection degree	: IP55
L. R. Amperes	: 1723 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: F-2
No load current	: 104 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1189 rpm	Noise level <sup>2</sup>	: 69.0 dB(A)
Slip	: 0.92 %	Starting method	: Direct On Line
Rated torque	: 442 ft.lb	Approx. weight <sup>3</sup>	: 0.0 lb
Locked rotor torque	: 220 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 87.3 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%
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Foundation loads

Efficiency (%)	94.4	94.5	95.0	95.0
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Max. traction : 2943 lb

Power Factor	0.44	0.68	0.78	0.82
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Max. compression : 2943 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)
5.2	4.2	3.8	2.8	1.8	1.3	0.9

### Drive end

### Non drive end

Bearing type	:	6319 C3	6316 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	13000 h	16000 h
Lubricant amount	:	45 g	34 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.

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Customer :

### Space heater information

Voltage: 110-127/200-240 V

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