

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14384574

Catalog # : 50012ET3H586/7-W22

Frame : 586/7T  
Output : 500 HP (370 kW)  
Poles : 6  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 482 A  
L. R. Amperes : 2894 A  
LRC : 6.0x(Code G)  
No load current : 192 A  
Rated speed : 1192 rpm  
Slip : 0.67 %  
Rated torque : 2200 ft.lb  
Locked rotor torque : 200 %  
Breakdown torque : 210 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 368 sq.ft.lb

Locked rotor time : 45s (cold) 25s (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> : 77.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 4404 lb

Output	25%	50%	75%	100%
Efficiency (%)	95.7	95.8	96.2	96.2
Power Factor	0.42	0.66	0.76	0.80

Foundation loads  
Max. traction : 7449 lb  
Max. compression : 11853 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)
4.6	3.5	2.8	2.8	1.9	1.5	0.8

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6322 C3	6319 C3
Sealing	:	Taconite Labyrinth	Taconite Labyrinth
Lubrication interval	:	11000 h	13000 h
Lubricant amount	:	60 g	45 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: 200 - 240 V

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