

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14351011

Catalog # : 45012ET3H586/7-W22

Frame : 586/7T  
Output : 450 HP (330 kW)  
Poles : 6  
Frequency : 60 Hz  
Rated voltage : 575 V  
Rated current : 426 A  
L. R. Amperes : 2596 A  
LRC : 6.1x(Code G)  
No load current : 176 A  
Rated speed : 1193 rpm  
Slip : 0.58 %  
Rated torque : 1980 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> : 4628 lb

Output	25%	50%	75%	100%
Efficiency (%)	95.7	95.8	96.2	96.2
Power Factor	0.42	0.67	0.77	0.81

Foundation loads  
Max. traction : 6364 lb  
Max. compression : 10993 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	3.4	2.7	2.9	1.9	1.5	0.9

		<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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 2 Revision		
Checked by				
Date	28/03/2024			

Customer :

Space heater information

Voltage: 200 - 240 V

Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page		Revision
Checked by					
Date	28/03/2024				