

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14384576

Catalog # : 60012ET3H588/9-W22

Frame : 588/9T
Output : 600 HP (440 kW)
Poles : 6
Frequency : 60 Hz
Rated voltage : 575 V
Rated current : 582 A
L. R. Amperes : 3664 A
LRC : 6.3x(Code G)
No load current : 252 A
Rated speed : 1193 rpm
Slip : 0.58 %
Rated torque : 2640 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 229 %
Insulation class : F
Service factor : 1.00
Moment of inertia (J) : 449 sq.ft.lb

Locked rotor time : 55s (cold) 31s (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
Rotation¹ : Both (CW and CCW)
Noise level² : 77.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 5174 lb

Output	25%	50%	75%	100%
Efficiency (%)	95.2	95.4	96.1	96.2
Power Factor	0.39	0.63	0.74	0.79

Foundation loads
Max. traction : 10087 lb
Max. compression : 15261 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)
4.7	3.5	2.7	3.1	2.1	1.8	1.0

		<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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