

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium
Efficiency Three-Phase

Product code : 14437424

Catalog # : 00309XT3E215T

Frame : 213/5T
Output : 3 HP (2.2 kW)
Poles : 8
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 8.84/4.42 A
L. R. Amperes : 62.8/31.4 A
LRC : 7.1x(Code K)
No load current : 5.60/2.80 A
Rated speed : 870 rpm
Slip : 3.33 %
Rated torque : 18.1 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 270 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 1.79 sq.ft.lb
Design : B

Locked rotor time : 57s (cold) 32s (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 : 52.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 204 lb

Output	25%		50%		75%		100%	
Efficiency (%)	83.7	83.0	84.0	82.5	85.5	82.5	85.5	81.5
	82.1	83.4	82.5	82.5	82.5	84.0	82.5	82.5
Power Factor	0.30	0.35	0.54	0.61	0.65	0.71	0.73	0.77
	0.31	0.28	0.54	0.51	0.66	0.64	0.74	0.73

Foundation loads
Max. traction : 221 lb
Max. compression : 425 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 2RS	6207 2RS
Sealing	:	Oil Seal	Lip Seal
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
Performed by				
Checked by				
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Revision

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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