

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 14276270

Catalog # : 00536XT3E184T

Frame : 182/4T  
Output : 5 HP (3.7 kW)  
Poles : 2  
Frequency : 60 Hz  
Rated voltage : 230/460 V  
Rated current : 12.2/6.10 A  
L. R. Amperes : 91.5/45.7 A  
LRC : 7.5x(Code J)  
No load current : 4.40/2.20 A  
Rated speed : 3490 rpm  
Slip : 3.06 %  
Rated torque : 7.52 ft.lb  
Locked rotor torque : 250 %  
Breakdown torque : 380 %  
Insulation class : F  
Service factor : 1.15  
Moment of inertia (J) : 0.1889 sq.ft.lb  
Design : B

Locked rotor time : 46s (cold) 26s (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> : 69.0 dB(A)  
Starting method : Direct On Line  
Approx. weight<sup>3</sup> : 132 lb

Output	25%		50%		75%		100%	
Efficiency (%)	84.3	86.9	85.5	86.5	87.5	87.5	88.5	86.5
	86.1	86.1	86.5	86.5	87.5	87.5	87.5	87.5
Power Factor	0.47	0.53	0.70	0.76	0.81	0.86	0.86	0.89
	0.48	0.45	0.72	0.69	0.83	0.80	0.88	0.86

Foundation loads  
Max. traction : 132 lb  
Max. compression : 264 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6307 2RS	6206 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.

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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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