

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 14276568

Catalog # : 00518XT3E184T

Frame : 182/4T
Output : 5 HP (3.7 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 13.1/6.57 A
L. R. Amperes : 93.3/46.6 A
LRC : 7.1x(Code J)
No load current : 6.20/3.10 A
Rated speed : 1750 rpm
Slip : 2.78 %
Rated torque : 15.0 ft.lb
Locked rotor torque : 229 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.3695 sq.ft.lb
Design : B

Locked rotor time : 43s (cold) 24s (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 : 56.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 133 lb

Output	25%		50%		75%		100%	
Efficiency (%)	85.3	85.7	86.5	86.0	88.5	86.5	89.5	86.5
	85.8	85.8	86.5	86.5	87.0	87.0	87.5	87.5
Power Factor	0.36	0.43	0.59	0.67	0.71	0.77	0.79	0.83
	0.39	0.35	0.63	0.59	0.74	0.72	0.81	0.79

Foundation loads
Max. traction : 270 lb
Max. compression : 403 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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