

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof High Efficiency Three-Phase Product code : 11833296

Frame	: 213TC	Locked rotor time	: 37s (cold) 21s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 105 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 19.0/9.52 A	Protection degree	: IP55
L. R. Amperes	: 122/60.9 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code H)	Mounting	: F-2
No load current	: 7.00/3.50 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1755 rpm	Noise level <sup>2</sup>	: 58.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 22.4 ft.lb	Approx. weight <sup>3</sup>	: 170 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.9800 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	87.2	83.3	87.5	82.5	89.5	85.5	89.5	84.0	Max. traction	: 251 lb
	84.4	87.0	84.0	86.5	86.5	88.5	85.5	87.5		
Power Factor	0.42	0.41	0.64	0.65	0.75	0.77	0.81	0.82	Max. compression	: 421 lb
	0.38	0.37	0.63	0.62	0.75	0.74	0.81	0.81		

		<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.

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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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