

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof High Efficiency Three-Phase Product code : 10084126

Frame	: 215TC	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 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	: 25.6/12.8 A	Protection degree	: IP55
L. R. Amperes	: 161/80.6 A	Cooling method	: IC411 - TEFC
LRC	: 6.3x(Code H)	Mounting	: F-2
No load current	: 9.60/4.80 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1755 rpm	Noise level ²	: 58.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 29.9 ft.lb	Approx. weight ³	: 208 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.38 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	89.9	87.2	89.5	87.5	90.2	89.5	89.5	89.5	Max. traction	: 395 lb
	86.6	85.5	87.5	86.5	89.5	89.5	90.2	90.2		
Power Factor	0.42	0.41	0.65	0.64	0.77	0.76	0.82	0.81	Max. compression	: 603 lb
	0.37	0.35	0.60	0.57	0.73	0.70	0.78	0.77		

					<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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