

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Rolled Steel Grain Dryer Standard Efficiency Three-Phase	Product code :	13184647	
Frame	: 182/4TZ	Cooling method	: IC418 - TEAO		
Insulation class	: F	Mounting	: F-3		
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: CCW		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 88.9 lb		
Protection degree	: IP55	Moment of inertia (J)	: 0.2183 sq.ft.lb		
Design	: B				
Output [HP]	10		7.5		
Poles	2		2		
Frequency [Hz]	60		60		
Rated voltage [V]	208-230/460		208-230/460		
Rated current [A]	26.1-23.6/11.8		20.0-18.1/9.04		
L. R. Amperes [A]	191-172/86.1		190-172/85.9		
LRC [A]	7.3x(Code H)		9.5x(Code L)		
No load current [A]	6.21-7.20/3.60		6.21-7.20/3.60		
Rated speed [RPM]	3480		3520		
Slip [%]	3.33		2.22		
Rated torque [ft.lb]	15.1		11.2		
Locked rotor torque [%]	229		320		
Breakdown torque [%]	320		440		
Service factor	1.00		1.00		
Temperature rise	105 K		105 K		
Locked rotor time	16s (cold) 9s (hot)		18s (cold) 10s (hot)		
Noise level <sup>2</sup>					
Efficiency (%)	25%	0.000	0.000		
	50%	89.3	88.4		
	75%	89.4	89.8		
	100%	88.3	89.8		
Power Factor	25%	0.00	0.00		
	50%	0.76	0.67		
	75%	0.86	0.79		
	100%	0.90	0.85		
Bearing type	: <u>Drive end</u> 6206 ZZ	<u>Non drive end</u> 6205 ZZ	Foundation loads		
Sealing	: V'Ring	Without	Max. traction	: 270 lb	
		Bearing Seal	Max. compression	: 359 lb	
Lubrication interval	: 0 h	0 h			
Lubricant amount	: 0 g	0 g			
Lubricant type	: Mobil Polyrex EM				
Notes					
Minimum Air flow @ 7.5 HP - 23.1 m/s					
Minimum Air flow @ 10. HP - 28.3 m/s					
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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