

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: W22 Close Coupled Pump JP High Efficiency Three-Phase		Product code :	11899437	
Frame	: 364/5JP	Locked rotor time	: 25s (cold) 14s (hot)		
Output	: 75 HP (55 kW)	Temperature rise	: 80 K		
Poles	: 2	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	: 165/82.5 A	Protection degree	: IP55		
L. R. Amperes	: 1056/528 A	Cooling method	: IC411 - TEFC		
LRC	: 6.4x(Code G)	Mounting	: F-1		
No load current	: 36.0/18.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 3550 rpm	Noise level <sup>2</sup>	: 80.0 dB(A)		
Slip	: 1.39 %	Starting method	: Direct On Line		
Rated torque	: 111 ft.lb	Approx. weight <sup>3</sup>	: 899 lb		
Locked rotor torque	: 200 %				
Breakdown torque	: 240 %				
Insulation class	: F				
Service factor	: 1.25				
Moment of inertia (J)	: 10.6 sq.ft.lb				
Design	: B				
Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	92.9	92.2	93.0	92.4	Max. traction : 603 lb
	92.8	92.9	93.0	93.0	
Power Factor	0.64	0.69	0.86	0.89	Max. compression : 1502 lb
	0.66	0.64	0.87	0.86	
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	7.2	7.8	7.2	7.2
	P2 (0,5;1,0)	5.6	6.1	5.6	5.6
	P3 (0,25;1,0)	4.8	5.3	4.8	4.8
	P4 (0,9;0,5)	3.4	3.7	3.4	3.4
	P5 (0,5;0,5)	2.0	2.1	2.0	2.0
	P6 (0,5;0,25)	1.1	1.2	1.1	1.1
	P7 (0,25;0,25)	0.6	0.7	0.6	0.6
Drive end			Non drive end		
Bearing type	: 6314 C3		6314 C3		
Sealing	: Lip Seal		Lip Seal		
Lubrication interval	: 4000 h		4000 h		
Lubricant amount	: 27 g		27 g		
Lubricant type	: Mobil Polyrex EM				
Notes:					
This revision replaces and cancel the previous one, which must be eliminated.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
(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.					
Rev.	Changes Summary			Performed	Checked
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