

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12113106				
		Catalog # :	05036ET3E326JM-W22				
Frame	: 324/6JM	Cooling method	: IC411 - TEFC				
Insulation class	: F	Mounting	: F-1				
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)				
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line				
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 589 lb				
Protection degree	: IP55	Moment of inertia (J)	: 5.75 sq.ft.lb				
Design	: B						
Output [HP]	50	40	40	40	50	50	50
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	208-230/460	380	400	415	380	400	415
Rated current [A]	124-112/56.1	54.9	52.1	50.3	69.4	65.4	62.6
L. R. Amperes [A]	769-696/348	335	349	362	333	347	357
LRC [A]	6.2x(Code F)	6.1x(Code F)	6.7x(Code G)	7.2x(Code H)	4.8x(Code D)	5.3x(Code E)	5.7x(Code F)
No load current [A]	25.9-30.0/15.0	14.8	16.0	16.8	14.8	16.0	16.8
Rated speed [RPM]	3550	2950	2955	2955	2935	2940	2945
Slip [%]	1.39	1.67	1.50	1.50	2.17	2.00	1.83
Rated torque [ft.lb]	73.0	70.2	70.1	70.1	88.3	88.1	88.0
Locked rotor torque [%]	220	210	240	250	170	190	200
Breakdown torque [%]	229	229	250	280	180	200	220
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time	41s (cold) 23s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level <sup>2</sup>	78.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)
Efficiency (%)	25%						
	50%	93.0	92.8	92.2	92.2	93.0	93.0
	75%	93.0	92.9	92.8	93.1	92.4	92.4
	100%	93.0	93.3	93.3	93.3	91.0	91.7
Power Factor	25%						
	50%	0.83	0.80	0.77	0.76	0.86	0.84
	75%	0.87	0.88	0.87	0.85	0.88	0.88
	100%	0.89	0.89	0.89	0.89	0.89	0.89
Bearing type	: 6312 C3	6212 C3	Foundation loads				
Sealing	: V'Ring	V'Ring	Max. traction	: 458 lb			
Lubrication interval	: 12000 h	15000 h	Max. compression	: 1047 lb			
Lubricant amount	: 21 g	13 g					
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.			
Rev.	Changes Summary			Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	22/01/2018				1 / 1		