

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	11581899					
		Catalog # :	07536ET3E365JM-W22					
Frame	: 364/5JM	Cooling method	: IC411 - TEFC					
Insulation class	: F	Mounting	: F-1					
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)					
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line					
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 881 lb					
Protection degree	: IP55	Moment of inertia (J)	: 11.9 sq.ft.lb					
Design	: B							
Output [HP]	75	50	50	50	75	75	75	
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]	181-164/81.9	66.7	64.8	62.4	99.4	94.8	91.4	
L. R. Amperes [A]	1214-1097/549	527	557	574	527	559	576	
LRC [A]	6.7x(Code G)	7.9x(Code H)	8.6x(Code J)	9.2x(Code K)	5.3x(Code E)	5.9x(Code F)	6.3x(Code F)	
No load current [A]	37.9-44.0/22.0	22.0	23.3	24.6	22.0	23.3	24.6	
Rated speed [RPM]	3555	2960	2965	2970	2940	2945	2950	
Slip [%]	1.25	1.33	1.17	1.00	2.00	1.83	1.67	
Rated torque [ft.lb]	109	87.5	87.4	87.2	132	132	132	
Locked rotor torque [%]	200	240	260	290	160	175	190	
Breakdown torque [%]	260	320	350	380	210	229	250	
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	18s (cold) 10s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	
Noise level ²	79.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	
Efficiency (%)	25%	92.2	90.0	90.7	91.1	92.7	92.2	93.4
	50%	92.4	91.2	91.5	91.8	92.4	92.4	93.0
	75%	93.6	92.5	93.0	93.1	93.0	93.0	93.6
	100%	93.6	93.7	93.7	93.7	92.4	93.0	93.0
Power Factor	25%	0.59	0.51	0.47	0.45	0.64	0.61	0.58
	50%	0.83	0.75	0.72	0.70	0.86	0.84	0.83
	75%	0.88	0.85	0.83	0.82	0.90	0.89	0.88
	100%	0.90	0.90	0.88	0.88	0.91	0.90	0.90
Bearing type	: 6314 C3	6314 C3	Foundation loads					
Sealing	: Lip Seal	Lip Seal	Max. traction	: 702 lb				
Lubrication interval	: 4000 h	4000 h	Max. compression	: 1583 lb				
Lubricant amount	: 27 g	27 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		