

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JM
NEMA Premium Efficiency Three-Phase
Product code : 13469729
Catalog # : 00336ET3E145JM-W22

Frame	: 143/5JM			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 ³	: 57.1 lb		
Protection degree	: IP55			Moment of inertia (J)	: 0.0605 sq.ft.lb		
Design	: B						
Output [HP]	3	2	2	2	3	3	3
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	7.42/3.71	3.24	3.17	3.15	4.44	4.26	4.13
L. R. Amperes [A]	60.1/30.1	27.9	29.2	29.9	27.1	28.5	29.3
LRC [A]	8.1x(Code J)	8.6x(Code L)	9.2x(Code M)	9.5x(Code M)	6.1x(Code G)	6.7x(Code H)	7.1x(Code H)
No load current [A]	2.60/1.30	1.28	1.43	1.55	1.28	1.43	1.55
Rated speed [RPM]	3460	2890	2905	2910	2820	2840	2850
Slip [%]	3.89	3.67	3.17	3.00	6.00	5.33	5.00
Rated torque [ft.lb]	4.49	3.59	3.57	3.56	5.51	5.47	5.45
Locked rotor torque [%]	330	400	459	490	260	300	320
Breakdown torque [%]	360	400	459	509	260	300	330
Service factor	1.25	1.25	1.00	1.00	1.25	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	25s (cold) 14s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)
Noise level ²	68.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)	64.0 dB(A)
Efficiency (%)	25%	85.2	80.8	80.9	80.9	83.9	84.4
	50%	85.5	81.9	82.0	82.2	84.0	85.0
	75%	86.5	84.0	84.4	84.8	85.0	86.0
	100%	86.5	84.8	85.3	85.9	84.6	86.2
Power Factor	25%	0.47	0.41	0.37	0.34	0.54	0.45
	50%	0.70	0.63	0.58	0.55	0.76	0.69
	75%	0.81	0.76	0.72	0.69	0.85	0.80
	100%	0.86	0.83	0.80	0.77	0.89	0.86

Bearing type Sealing Lubrication interval Lubricant amount Lubricant type	Drive end	Non drive end	Foundation loads				
	: 6206 ZZ	: 6204 ZZ	Max. traction : 130 lb				
	: V'Ring	: V'Ring	Max. compression : 187 lb				
	: -	: -					
	: -	: -					
			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				
Date	22/01/2018			
			Page	Revision
			1 / 1	