

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase			Product code :		12603920
					Catalog # :		01518ET3E254JM-W22
Frame : 254/6JM Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : B				Cooling method : IC411 - TEFC Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 314 lb Moment of inertia (J) : 2.62 sq.ft.lb			
Output [HP]	15	10	10	10	15	15	15
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	208-230/460	380	400	415	380	400	415
Rated current [A]	39.8-36.0/18.0	15.2	14.8	14.5	21.5	20.5	20.0
L. R. Amperes [A]	255-230/115	97.3	104	109	105	111	118
LRC [A]	6.4x(Code G)	6.4x(Code H)	7.0x(Code J)	7.5x(Code J)	4.9x(Code E)	5.4x(Code F)	5.9x(Code G)
No load current [A]	13.8-16.0/8.00	7.20	7.60	7.96	7.90	8.40	8.80
Rated speed [RPM]	1765	1475	1475	1480	1455	1460	1460
Slip [%]	1.94	1.67	1.67	1.33	3.00	2.67	2.67
Rated torque [ft.lb]	44.0	35.1	35.1	35.0	53.4	53.2	53.2
Locked rotor torque [%]	229	229	260	290	170	200	210
Breakdown torque [%]	270	310	350	370	210	229	250
Service factor	1.25	1.25	1.25	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	30s (cold) 17s (hot)	45s (cold) 25s (hot)	39s (cold) 22s (hot)	36s (cold) 20s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	64.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
Efficiency (%)	25%						
	50%	91.0	88.8	88.6	88.3	91.0	91.0
	75%	91.7	90.3	90.3	90.3	90.2	91.0
	100%	92.4	90.4	90.6	90.8	90.2	91.0
Power Factor	25%						
	50%	0.68	0.65	0.62	0.59	0.74	0.71
	75%	0.78	0.77	0.74	0.72	0.82	0.80
	100%	0.83	0.83	0.81	0.79	0.86	0.85
Bearing type		Drive end : 6309 C3	Non drive end : 6209 C3	Foundation loads			
Sealing		: V'Ring	: V'Ring	Max. traction		: 490 lb	
Lubrication interval		: 20000 h	: 20000 h	Max. compression		: 804 lb	
Lubricant amount		: 13 g	: 9 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	