

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Rolled Steel JM Pump NEMA Premium Efficiency Three-Phase	Product code :	13180600	
		Catalog # :	00158ET3E145JM-S	
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 ²	: 40.7 lb	
Protection degree	: IP55	Moment of inertia (J)	: 0.1101 sq.ft.lb	
Design	: B			
Output [HP]	1.5	1.5	1.5	
Poles	4	4	4	
Frequency [Hz]	60	50	50	
Rated voltage [V]	208-230/460	190/380	220/415	
Rated current [A]	4.47-4.04/2.02	4.82/2.41	4.28/2.27	
L. R. Amperes [A]	36.6-33.1/16.6	29.4/14.7	30.8/16.3	
LRC [A]	8.2x(Code K)	6.1x(Code H)	7.2x(Code J)	
No load current [A]	1.87-2.17/1.08	2.13/1.07	2.37/1.26	
Rated speed [RPM]	1750	1420	1435	
Slip [%]	2.78	5.33	4.33	
Rated torque [ft.lb]	4.44	5.47	5.42	
Locked rotor torque [%]	270	210	260	
Breakdown torque [%]	300	250	300	
Service factor		1.15	1.15	
Temperature rise	80 K	105 K	80 K	
Locked rotor time	37s (cold) 21s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
Efficiency (%)	25%	85.2	86.1	83.8
	50%	85.5	84.7	83.5
	75%	86.5	84.7	84.9
	100%	86.5	82.7	84.1
Power Factor	25%	0.35	0.41	0.34
	50%	0.59	0.67	0.59
	75%	0.72	0.78	0.72
	100%	0.79	0.84	0.80
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). (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 /	