

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JM Pump NEMA Premium Efficiency Three-Phase
Product code : 13180570
Catalog # : 01018ET3E215JM-S

Frame : 213/5JM	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 : 141 lb
Protection degree : IP55	Moment of inertia (J) : 1.07 sq.ft.lb
Design : B	

Output [HP]	10	7.5	7.5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	27.0-24.4/12.2	22.4/11.2	20.6/10.9
L. R. Amperes [A]	189-171/85.4	170/85.1	179/94.8
LRC [A]	7.0x(Code H)	7.6x(Code J)	8.7x(Code L)
No load current [A]	9.56-11.1/5.54	10.9/5.46	12.1/6.43
Rated speed [RPM]	1760	1465	1470
Slip [%]	2.22	2.33	2.00
Rated torque [ft.lb]	29.4	26.5	26.4
Locked rotor torque [%]	250	250	320
Breakdown torque [%]	300	320	390
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	60.0 dB(A)	57.0 dB(A)	57.0 dB(A)
Efficiency (%)	25%		
	50%	91.0	88.7
	75%	91.0	90.2
	100%	91.7	90.3
Power Factor	25%		
	50%	0.67	0.56
	75%	0.78	0.69
	100%	0.84	0.78

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				
Date	22/01/2018			

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