

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JM Pump NEMA Premium Efficiency Three-Phase
Product code : 12676984
Catalog # : 00112OT3E145JM-S

Frame : 143/5JM	Cooling method : IC01 - ODP
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 : 37.0 lb
Design : B	Moment of inertia (J) : 0.1419 sq.ft.lb

Output [HP]	1	1	1
Poles	6	6	6
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	3.65-3.30/1.65	3.82/1.91	3.47/1.84
L. R. Amperes [A]	22.3-20.1/10.1	17.6/8.79	18.4/9.75
LRC [A]	6.1x(Code K)	4.6x(Code G)	5.3x(Code H)
No load current [A]	1.95-2.26/1.13	2.22/1.11	2.43/1.29
Rated speed [RPM]	1150	920	940
Slip [%]	4.17	8.00	6.00
Rated torque [ft.lb]	4.51	5.63	5.51
Locked rotor torque [%]	250	190	250
Breakdown torque [%]	300	210	270
Service factor		1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	43s (cold) 24s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	49.0 dB(A)	47.0 dB(A)	47.0 dB(A)
Efficiency (%)	25%	77.2	80.1
	50%	78.5	78.8
	75%	81.5	79.5
	100%	82.5	77.3
Power Factor	25%	0.26	0.31
	50%	0.47	0.55
	75%	0.60	0.69
	100%	0.69	0.77

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	19/01/2018			

Page 1 / Revision