

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Jet Pump - J type  
Three-Phase

Product code : 12894849

Catalog # : .5036ES3EJP56J-S

Frame : 56J  
Insulation class : F  
Duty cycle : Cont.(S1)  
Ambient temperature : -20°C to +40°C  
Altitude : 1000 m.a.s.l.  
Protection degree : IP55

Cooling method : IC411 - TEFC  
Mounting : F-1  
Rotation<sup>1</sup> : CCW  
Starting method : Direct On Line  
Approx. weight<sup>2</sup> : 22.0 lb  
Moment of inertia (J) : 0.0453 sq.ft.lb

Output [HP]	0.5	0.5	0.5
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	1.86-1.69/0.843	1.78/0.890	1.66/0.878
L. R. Amperes [A]	13.0-11.8/5.90	10.7/5.34	11.1/5.88
LRC [A]	7.0x(Code L)	6.0x(Code H)	6.7x(Code K)
No load current [A]	0.776-0.900/0.450	0.874/0.437	1.05/0.558
Rated speed [RPM]	3500	2865	2890
Slip [%]	2.78	4.50	3.67
Rated torque [ft.lb]	0.740	0.904	0.896
Locked rotor torque [%]	260	200	250
Breakdown torque [%]	300	260	320
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	63s (cold) 35s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%	50.9	59.4
	50%	55.0	61.9
	75%	62.0	68.6
	100%	68.0	71.5
Power Factor	25%	0.43	0.37
	50%	0.67	0.63
	75%	0.75	0.74
	100%	0.81	0.82

### 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			

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