

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Three-Phase

Product code : 12895578  
Catalog # : .5018ES3E56C-S

Frame	: 56C	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 21.8 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.0584 sq.ft.lb

Output [HP]	0.5	0.5	0.5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	1.91-1.72/0.862	1.90/0.950	1.81/0.962
L. R. Amperes [A]	13.3-12.1/6.03	11.0/5.51	11.4/6.06
LRC [A]	7.0x(Code L)	5.8x(Code J)	6.3x(Code K)
No load current [A]	1.03-1.20/0.600	1.24/0.618	1.39/0.737
Rated speed [RPM]	1760	1445	1460
Slip [%]	2.22	3.67	2.67
Rated torque [ft.lb]	1.47	1.79	1.77
Locked rotor torque [%]	240	180	220
Breakdown torque [%]	300	250	310
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	36s (cold) 20s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	65.4	69.5
	50%	68.0	70.7
	75%	74.0	75.0
	100%	77.0	75.9
Power Factor	25%	0.28	0.32
	50%	0.48	0.56
	75%	0.61	0.69
	100%	0.70	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	24/01/2018			

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Revision