

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Three-Phase

Product code :

12894837

Catalog # :

.7512ES3E56CFL-S

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

Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Starting method : Direct On Line
Approx. weight² : 29.4 lb
Moment of inertia (J) : 0.1331 sq.ft.lb

Output [HP]	0.75	0.75	0.75
Poles	6	6	6
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	2.96-2.68/1.34	2.98/1.49	2.77/1.47
L. R. Amperes [A]	17.2-15.5/7.77	13.4/6.71	14.1/7.50
LRC [A]	5.8x(Code K)	4.5x(Code G)	5.1x(Code J)
No load current [A]	1.67-1.94/0.971	1.91/0.955	2.06/1.09
Rated speed [RPM]	1155	935	945
Slip [%]	3.75	6.50	5.50
Rated torque [ft.lb]	3.36	4.16	4.11
Locked rotor torque [%]	229	170	220
Breakdown torque [%]	300	210	250
Service factor		1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	37s (cold) 21s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	50.0 dB(A)	48.0 dB(A)	48.0 dB(A)
Efficiency (%)	25%	68.4	70.3
	50%	70.0	70.3
	75%	74.0	73.3
	100%	75.5	72.6
Power Factor	25%	0.26	0.31
	50%	0.46	0.55
	75%	0.59	0.68
	100%	0.68	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	23/01/2018			

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Revision

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