

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Three-Phase

Product code : 12894832
Catalog # : 7518ES3E56C-S

Frame	: 56C	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	: 23.4 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.0648 sq.ft.lb

Output [HP]	0.75	0.75	0.75
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	2.70-2.44/1.22	2.74/1.37	2.60/1.38
L. R. Amperes [A]	18.6-16.8/8.42	15.3/7.67	16.1/8.56
LRC [A]	6.9x(Code K)	5.6x(Code H)	6.2x(Code K)
No load current [A]	1.55-1.80/0.900	1.71/0.856	2.06/1.09
Rated speed [RPM]	1755	1440	1450
Slip [%]	2.50	4.00	3.33
Rated torque [ft.lb]	2.21	2.70	2.68
Locked rotor torque [%]	240	170	220
Breakdown torque [%]	300	229	290
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	30s (cold) 17s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	70.4	72.6
	50%	72.0	73.1
	75%	77.0	76.5
	100%	78.5	76.5
Power Factor	25%	0.26	0.33
	50%	0.48	0.58
	75%	0.61	0.72
	100%	0.72	0.80

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