

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Three-Phase

Product code : 12676262
Catalog # : .3318ES3E56-S

Frame	: 56	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	: 19.9 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.0517 sq.ft.lb

Output [HP]	0.33	0.33	0.33
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	1.38-1.25/0.624	1.36/0.678	1.30/0.690
L. R. Amperes [A]	9.80-8.86/4.43	7.59/3.80	7.94/4.21
LRC [A]	7.1x(Code M)	5.6x(Code J)	6.1x(Code L)
No load current [A]	0.810-0.940/0.470	0.924/0.462	1.01/0.534
Rated speed [RPM]	1765	1455	1465
Slip [%]	1.94	3.00	2.33
Rated torque [ft.lb]	0.969	1.18	1.17
Locked rotor torque [%]	229	170	210
Breakdown torque [%]	300	260	320
Service factor		1.00	1.00
Temperature rise	80 K	80 K	80 K
Locked rotor time	55s (cold) 31s (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%	62.0	64.9
	50%	64.0	66.7
	75%	72.0	72.0
	100%	74.0	73.7
Power Factor	25%	0.26	0.31
	50%	0.47	0.55
	75%	0.58	0.67
	100%	0.68	0.76

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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