

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Three-Phase

Product code : 12676241
Catalog # : .5036ES3E56-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	: 19.4 lb
Protection degree	: IP55	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 ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%	50.9	63.0
	50%	55.0	64.8
	75%	62.0	70.1
	100%	68.0	71.8
Power Factor	25%	0.43	0.45
	50%	0.67	0.73
	75%	0.75	0.83
	100%	0.81	0.88

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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