

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Three-Phase

Product code : 12759194
Catalog # : 002180T3E56-S

Frame	: 56H	Cooling method	: IC01 - ODP
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	: 38.0 lb
Design	: A	Moment of inertia (J)	: 0.1168 sq.ft.lb

Output [HP]	2	2	2
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	5.95-5.38/2.69	6.52/3.26	5.79/3.07
L. R. Amperes [A]	45.8-41.4/20.7	36.5/18.3	38.8/20.6
LRC [A]	7.7x(Code K)	5.6x(Code G)	6.7x(Code J)
No load current [A]	2.37-2.75/1.38	2.70/1.35	3.08/1.63
Rated speed [RPM]	1740	1410	1430
Slip [%]	3.33	6.00	4.67
Rated torque [ft.lb]	5.96	7.35	7.25
Locked rotor torque [%]	260	200	250
Breakdown torque [%]	320	229	280
Service factor		1.00	1.00
Temperature rise	80 K	105 K	80 K
Locked rotor time	30s (cold) 17s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%	85.2	88.2
	50%	85.5	85.9
	75%	86.5	85.0
	100%	86.5	82.2
Power Factor	25%	0.36	0.42
	50%	0.61	0.69
	75%	0.74	0.80
	100%	0.81	0.85

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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