

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Three-Phase

Product code : 12809010
Catalog # : .3318OT3E56CFL-S

Frame	: 56C	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	: 17.8 lb
		Moment of inertia (J)	: 0.0453 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]	1.48-1.34/0.668	1.44/0.718	1.40/0.740
L. R. Amperes [A]	9.16-8.28/4.14	7.32/3.66	7.54/4.00
LRC [A]	6.2x(Code L)	5.1x(Code J)	5.4x(Code K)
No load current [A]	0.948-1.10/0.550	1.04/0.522	1.18/0.628
Rated speed [RPM]	1765	1450	1460
Slip [%]	1.94	3.33	2.67
Rated torque [ft.lb]	0.969	1.18	1.17
Locked rotor torque [%]	229	160	200
Breakdown torque [%]	330	250	300
Service factor		1.35	1.35
Temperature rise	80 K	80 K	80 K
Locked rotor time	64s (cold) 36s (hot)	77s (cold) 43s (hot)	63s (cold) 35s (hot)
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%		
	50%	62.0	60.4
	75%	70.0	67.8
	100%	73.4	71.2
Power Factor	25%		
	50%	0.44	0.44
	75%	0.55	0.56
	100%	0.64	0.66

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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