

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12628877

Catalog # : 00336OT3E145TC-S

Frame	: 143/5TC	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	: 40.7 lb
Design	: B	Moment of inertia (J)	: 0.1279 sq.ft.lb

Output [HP]	3	3	3
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	7.94-7.18/3.59	8.78/4.39	7.56/4.01
L. R. Amperes [A]	63.5-57.4/28.7	53.6/26.8	56.0/29.7
LRC [A]	8.0x(Code J)	6.1x(Code G)	7.4x(Code J)
No load current [A]	2.24-2.60/1.30	2.60/1.30	2.91/1.54
Rated speed [RPM]	3480	2825	2860
Slip [%]	3.33	5.83	4.67
Rated torque [ft.lb]	4.47	5.50	5.43
Locked rotor torque [%]	229	190	240
Breakdown torque [%]	300	229	270
Service factor		1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	16s (cold) 9s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%	83.7	87.7
	50%	84.0	86.2
	75%	85.5	85.9
	100%	85.5	83.9
Power Factor	25%	0.50	0.48
	50%	0.76	0.76
	75%	0.86	0.86
	100%	0.90	0.91

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	22/01/2018			

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