

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12705504

Catalog # : 00118OT3ECD143T-S

Frame	: 143/5T	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	: 34.9 lb
Design	: B	Moment of inertia (J)	: 0.1101 sq.ft.lb

Output [HP]	1	1	1
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	3.34-3.02/1.51	3.44/1.72	3.15/1.67
L. R. Amperes [A]	26.7-24.2/12.1	22.4/11.2	23.6/12.5
LRC [A]	8.0x(Code L)	6.5x(Code J)	7.5x(Code L)
No load current [A]	1.65-1.92/0.958	1.88/0.942	2.05/1.09
Rated speed [RPM]	1760	1445	1455
Slip [%]	2.22	3.67	3.00
Rated torque [ft.lb]	2.94	3.59	3.56
Locked rotor torque [%]	290	200	250
Breakdown torque [%]	360	270	330
Service factor		1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	39s (cold) 22s (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%		
	50%	81.5	80.1
	75%	84.0	82.9
	100%	85.5	83.2
Power Factor	25%		
	50%	0.51	0.52
	75%	0.65	0.66
	100%	0.73	0.75

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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