

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12751146

Catalog # : 00536OT3E182TC-S

Frame	: 182/4TC	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	: 64.7 lb
Design	: B	Moment of inertia (J)	: 0.1386 sq.ft.lb

Output [HP]	5	5	5
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	13.5-12.2/6.10	14.7/7.37	13.0/6.87
L. R. Amperes [A]	103-92.7/46.4	85.5/42.7	89.4/47.4
LRC [A]	7.6x(Code J)	5.8x(Code G)	6.9x(Code H)
No load current [A]	4.44-5.15/2.58	5.05/2.53	5.90/3.13
Rated speed [RPM]	3510	2885	2905
Slip [%]	2.50	3.83	3.17
Rated torque [ft.lb]	7.38	8.98	8.92
Locked rotor torque [%]	190	150	180
Breakdown torque [%]	300	220	270
Service factor	1.15	1.00	1.00
Temperature rise	80 K	105 K	80 K
Locked rotor time	21s (cold) 12s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	65.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%		
	50%	85.5	85.4
	75%	86.5	86.2
	100%	86.5	85.2
Power Factor	25%		
	50%	0.73	0.71
	75%	0.83	0.83
	100%	0.88	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	22/01/2018			

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