

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium
Efficiency Three-Phase

Product code : 12675353

Catalog # : 00536ET3E184TC-S

Frame	: 182/4TC	Cooling method	: IC411 - TEFC
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 ^a	: 91.5 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.2079 sq.ft.lb
Design	: B		

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]	13.1-11.8/5.90	14.3/7.17	12.4/6.59
L. R. Amperes [A]	102-92.0/46.0	91.8/45.9	95.7/50.7
LRC [A]	7.8x(Code J)	6.4x(Code G)	7.7x(Code J)
No load current [A]	3.80-4.40/2.20	4.34/2.17	4.63/2.45
Rated speed [RPM]	3500	2860	2885
Slip [%]	2.78	4.67	3.83
Rated torque [ft.lb]	7.40	9.06	8.98
Locked rotor torque [%]	220	180	220
Breakdown torque [%]	300	250	300
Service factor	1.15	1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	30s (cold) 17s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%		
	50%	87.5	88.1
	75%	88.5	87.3
	100%	88.5	85.2
Power Factor	25%		
	50%	0.76	0.82
	75%	0.85	0.89
	100%	0.89	0.92

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	24/01/2018			

Page 1 / Revision