

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium  
Efficiency Three-Phase

Product code : 12675365

Catalog # : 00518ET3E184TC-S

Frame	: 182/4TC	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>2</sup>	: 86.5 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.3080 sq.ft.lb
Design	: B		

Output [HP]	5	5	5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	14.4-13.0/6.49	15.8/7.88	14.1/7.47
L. R. Amperes [A]	100-90.9/45.4	91.4/45.7	95.8/50.8
LRC [A]	7.0x(Code J)	5.8x(Code G)	6.8x(Code J)
No load current [A]	5.94-6.89/3.44	6.74/3.37	7.85/4.16
Rated speed [RPM]	1750	1425	1440
Slip [%]	2.78	5.00	4.00
Rated torque [ft.lb]	14.8	18.2	18.0
Locked rotor torque [%]	220	170	220
Breakdown torque [%]	300	229	290
Service factor	1.15	1.00	1.00
Temperature rise	80 K	105 K	105 K
Locked rotor time	28s (cold) 16s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>	56.0 dB(A)	53.0 dB(A)	53.0 dB(A)
Efficiency (%)	25%		
	50%	88.5	87.9
	75%	89.5	87.2
	100%	89.5	86.1
Power Factor	25%		
	50%	0.60	0.68
	75%	0.73	0.80
	100%	0.80	0.84

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			

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