

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium  
Efficiency Three-Phase

Product code : 13041121

Catalog # : 01536ET3ER254TC-S

Frame	: 254/6TC	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>a</sup>	: 192 lb
Protection degree	: IP55	Moment of inertia (J)	: 0.8718 sq.ft.lb
Design	: B		

Output [HP]	15	12.5	12.5
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	38.5-34.8/17.4	35.4/17.7	31.3/16.6
L. R. Amperes [A]	262-237/118	244/122	254/134
LRC [A]	6.8x(Code G)	6.9x(Code H)	8.1x(Code J)
No load current [A]	11.2-13.0/6.50	13.6/6.80	14.8/7.86
Rated speed [RPM]	3525	2920	2935
Slip [%]	2.08	2.67	2.17
Rated torque [ft.lb]	22.0	22.2	22.1
Locked rotor torque [%]	200	190	229
Breakdown torque [%]	300	290	360
Service factor	1.15	1.00	1.00
Temperature rise	80 K	105 K	80 K
Locked rotor time	25s (cold) 14s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>	75.0 dB(A)	72.0 dB(A)	72.0 dB(A)
Efficiency (%)	25%		
	50%	89.5	89.7
	75%	91.0	90.8
	100%	91.0	90.6
Power Factor	25%		
	50%	0.73	0.67
	75%	0.83	0.79
	100%	0.87	0.85

### 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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