

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium  
Efficiency Three-Phase

Product code : 13186495

Catalog # : 01012ET3E256TC-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>2</sup>	: 255 lb
Protection degree	: IP55	Moment of inertia (J)	: 2.83 sq.ft.lb
Design	: B		

Output [HP]	10	7.5	7.5
Poles	6	6	6
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	30.5-27.6/13.8	25.0/12.5	23.4/12.4
L. R. Amperes [A]	165-149/74.5	138/68.7	147/78.1
LRC [A]	5.4x(Code G)	5.5x(Code G)	6.3x(Code J)
No load current [A]	12.3-14.2/7.12	14.1/7.03	15.1/8.03
Rated speed [RPM]	1175	975	980
Slip [%]	2.08	2.50	2.00
Rated torque [ft.lb]	44.1	39.9	39.6
Locked rotor torque [%]	210	210	270
Breakdown torque [%]	229	250	310
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	54s (cold) 30s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>	59.0 dB(A)	57.0 dB(A)	57.0 dB(A)
Efficiency (%)	25%		
	50%	90.2	89.5
	75%	91.0	90.5
	100%	91.0	90.2
Power Factor	25%		
	50%	0.57	0.54
	75%	0.69	0.66
	100%	0.75	0.74

### 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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