

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium  
Efficiency Three-Phase

Product code : 13202802

Catalog # : 02036ET3E256TC-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>	: 234 lb
Protection degree	: IP55	Moment of inertia (J)	: 1.22 sq.ft.lb
Design	: B		

Output [HP]	20	15	15
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	50.2-45.4/22.7	40.8/20.4	35.8/19.0
L. R. Amperes [A]	331-300/150	302/151	312/165
LRC [A]	6.6x(Code G)	7.4x(Code H)	8.7x(Code J)
No load current [A]	11.9-13.8/6.88	13.6/6.79	14.4/7.66
Rated speed [RPM]	3515	2925	2940
Slip [%]	2.36	2.50	2.00
Rated torque [ft.lb]	29.5	26.6	26.4
Locked rotor torque [%]	200	210	260
Breakdown torque [%]	290	310	370
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 <sup>2</sup>	75.0 dB(A)	72.0 dB(A)	72.0 dB(A)
Efficiency (%)	25%		
	50%	90.0	91.6
	75%	91.0	91.7
	100%	91.0	91.2
Power Factor	25%		
	50%	0.81	0.79
	75%	0.88	0.87
	100%	0.91	0.90

### 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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