

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel NEMA Premium  
Efficiency Three-Phase

Product code : 13163456

Catalog # : 02018ET3E256TC-SG

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>	: 257 lb
Protection degree	: IP55	Moment of inertia (J)	: 2.64 sq.ft.lb
Design	: B		

Output [HP]	20	15	15
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	54.6-49.4/24.7	44.4/22.2	40.7/21.6
L. R. Amperes [A]	366-331/165	329/164	346/184
LRC [A]	6.7x(Code H)	7.4x(Code J)	8.5x(Code K)
No load current [A]	19.2-22.2/11.1	21.9/10.9	24.1/12.8
Rated speed [RPM]	1765	1470	1475
Slip [%]	1.94	2.00	1.67
Rated torque [ft.lb]	58.7	52.9	52.7
Locked rotor torque [%]	270	270	340
Breakdown torque [%]	300	320	390
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	28s (cold) 16s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>	68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
Efficiency (%)	25%		
	50%	91.7	91.6
	75%	92.4	92.2
	100%	93.0	91.8
Power Factor	25%		
	50%	0.66	0.63
	75%	0.77	0.75
	100%	0.82	0.82

### 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	22/01/2018			

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