

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line		: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12636592
			Catalog # :	02018ET3E256TC-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>	: 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	90.5
	75%	92.4	92.2	91.8
	100%	93.0	91.8	91.9
Power Factor	25%			
	50%	0.66	0.63	0.55
	75%	0.77	0.75	0.68
	100%	0.82	0.82	0.77
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
Performed by			Page	Revision
Checked by				
Date	24/01/2018			
			1 /	