

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :						
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase		Product code :	14122321		
				Catalog # : 01012ET3E256TC-S		
Frame : 254/6TC Output : 10 HP (7.5 kW) Poles : 6 Frequency : 60 Hz Rated voltage : 230/460 V Rated current : 27.6/13.8 A L. R. Amperes : 149/74.5 A LRC : 5.4x(Code G) No load current : 14.2/7.12 A Rated speed : 1175 rpm Slip : 2.08 % Rated torque : 44.7 ft.lb Locked rotor torque : 210 % Breakdown torque : 229 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 2.83 sq.ft.lb Design : B				Locked rotor time : 54s (cold) 30s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC Mounting : W-6 Rotation <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 59.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 251 lb		
Output	25%	50%	75%	100%		
Efficiency (%)	90.0	90.2	91.0	91.0		
Power Factor	0.33	0.57	0.69	0.75		
<p style="text-align: center;"><u>Drive end</u></p> Bearing type : 6309 Z C3 Sealing : V'Ring Lubrication interval : 19702 h Lubricant amount : 13 g Lubricant type : Mobil Polyrex EM						
<p style="text-align: center;"><u>Non drive end</u></p> Max. traction : 367 lb Max. compression : 618 lb						
<p>Notes: USABLE @208V 30.5A SF 1.00 SFA 30.5A</p>						
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.  (2) Measured at 1m and with tolerance of +3dB(A).  (3) Approximate weight subject to changes after manufacturing process.  (4) At 100% of full load.</p>			<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>			
Rev.	Changes Summary			Performed		
				Checked		
Performed by						
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Date	26/03/2024					
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