

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :						
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase		Product code :	14331135		
			Catalog # :	00712OT3H254TC-S		
Frame	: 254/6TC	Locked rotor time	: 66s (cold) 37s (hot)			
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K			
Poles	: 6	Duty cycle	: Cont.(S1)			
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C			
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.			
Rated current	: 8.16 A	Cooling method	: IC01 - ODP			
L. R. Amperes	: 41.6 A	Mounting	: F-1			
LRC	: 5.1x(Code F)	Rotation <sup>1</sup>	: Both (CW and CCW)			
No load current	: 4.29 A	Noise level <sup>2</sup>	: 59.0 dB(A)			
Rated speed	: 1175 rpm	Starting method	: Direct On Line			
Slip	: 2.08 %	Approx. weight <sup>3</sup>	: 187 lb			
Rated torque	: 33.5 ft.lb					
Locked rotor torque	: 200 %					
Breakdown torque	: 229 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 2.00 sq.ft.lb					
Design	: B					
Output	25%	50%	75%	100%		
Efficiency (%)	88.2	88.5	90.2	90.2		
Power Factor	0.33	0.56	0.68	0.75		
Foundation loads						
	Max. traction		: 276 lb			
	Max. compression		: 463 lb			
Drive end						
Bearing type	: 6309 Z C3	Non drive end	6208 Z C3			
Sealing	: Without Bearing Seal		Without Bearing Seal			
Lubrication interval	: 20000 h		20000 h			
Lubricant amount	: 13 g		8 g			
Lubricant type	: Mobil Polyrex EM					
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). (3) Approximate weight subject to changes after manufacturing process. (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						
Checked by						
Date	27/03/2024					
		Page	Revision			
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