

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :						
Product line		Rolled Steel Premium Efficiency Three-Phase	Product code :	13484346		
			Catalog # :	00158ET3E56CFL-S		
Frame	: 56C	Locked rotor time	: 37s (cold) 21s (hot)			
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K			
Poles	: 4	Duty cycle	: Cont.(S1)			
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C			
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.			
Rated current	: 4.04/2.02 A	Protection degree	: IP55			
L. R. Amperes	: 33.1/16.6 A	Cooling method	: IC411 - TEFC			
LRC	: 8.2x(Code K)	Mounting	: F-1			
No load current	: 2.17/1.08 A	Rotation <sup>1</sup>	: Both (CW and CCW)			
Rated speed	: 1750 rpm	Noise level <sup>2</sup>	: 52.0 dB(A)			
Slip	: 2.78 %	Starting method	: Direct On Line			
Rated torque	: 4.50 ft.lb	Approx. weight <sup>3</sup>	: 36.2 lb			
Locked rotor torque	: 270 %					
Breakdown torque	: 300 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.1101 sq.ft.lb					
Design	: B					
Output	25%	50%	75%	100%		
Efficiency (%)	85.2	86.1	85.5	84.7		
	83.8	83.5	84.9	84.1		
Power Factor	0.35	0.41	0.59	0.67		
	0.34	0.59	0.72	0.80		
Foundation loads						
	Max. traction		: 144 lb			
	Max. compression		: 180 lb			
Drive end						
Bearing type	: 6204 ZZ	Non drive end	6202 ZZ			
Sealing	: V'Ring		Without Bearing Seal			
Lubrication interval	: -		-			
Lubricant amount	: -		-			
Lubricant type	: Mobil Polyrex EM					
Notes:						
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>						
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 1 / 1		
				Revision		