

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :						
Product line	: Rolled Steel NEMA Premium Efficiency Three-Phase		Product code :	12677335		
			Catalog # :	00518ET3ER184TC-S		
Frame	: 182/4TC	Locked rotor time	: 28s (cold) 16s (hot)			
Output	: 5 HP (3.7 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	: 13.0/6.49 A	Protection degree	: IP55			
L. R. Amperes	: 90.9/45.4 A	Cooling method	: IC411 - TEFC			
LRC	: 7.0x(Code J)	Mounting	: W-6			
No load current	: 6.89/3.44 A	Rotation <sup>1</sup>	: Both (CW and CCW)			
Rated speed	: 1750 rpm	Noise level <sup>2</sup>	: 56.0 dB(A)			
Slip	: 2.78 %	Starting method	: Direct On Line			
Rated torque	: 15.0 ft.lb	Approx. weight <sup>3</sup>	: 82.3 lb			
Locked rotor torque	: 220 %					
Breakdown torque	: 300 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.3080 sq.ft.lb					
Design	: B					
Output	25%	50%	75%	100%		
Efficiency (%)	88.2	89.7	88.5	87.9		
	87.1	86.5	87.2	86.1		
Power Factor	0.35	0.42	0.60	0.68		
	0.34	0.59	0.73	0.80		
Foundation loads						
	Max. traction		: 297 lb			
	Max. compression		: 379 lb			
Drive end						
Bearing type	: 6206 ZZ	Non drive end	6205 ZZ			
Sealing	: V'Ring		Without Bearing Seal			
Lubrication interval	: -		-			
Lubricant amount	: -		-			
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			
		1 / 1				