

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel High Efficiency Three-Phase Product code : 12677343

Frame	: 143/5TC	Locked rotor time	: 32s (cold) 18s (hot)
Output	: 1 HP (0.75 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	: 3.12/1.56 A	Protection degree	: IP55
L. R. Amperes	: 23.7/11.9 A	Cooling method	: IC411 - TEFC
LRC	: 7.6x(Code L)	Mounting	: W-6
No load current	: 2.07/1.03 A	Rotation <sup>1</sup>	: Both (CW and CCW)
Rated speed	: 1760 rpm	Noise level <sup>2</sup>	: 52.0 dB(A)
Slip	: 2.22 %	Starting method	: Direct On Line
Rated torque	: 2.98 ft.lb	Approx. weight <sup>3</sup>	: 32.2 lb
Locked rotor torque	: 290 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0973 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	78.0	79.5	78.5	79.5	82.5	81.0
	75.6	76.8	80.4	81.3		
Power Factor	0.28	0.33	0.50	0.58	0.64	0.73
	0.28	0.50	0.64	0.74		
					Max. traction	: 84 lb
					Max. compression	: 116 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6205 ZZ	6203 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	Date
Performed by		Page 1 / 1		
Checked by				
Date	26/03/2024			
			Revision	