

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel High Efficiency Three-Phase Product code : 12677347

Frame	: 182/4TC	Locked rotor time	: 36s (cold) 20s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 6.30/3.15 A	Protection degree	: IP55
L. R. Amperes	: 52.9/26.5 A	Cooling method	: IC411 - TEFC
LRC	: 8.4x(Code M)	Mounting	: W-6
No load current	: 4.18/2.09 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1170 rpm	Noise level ²	: 52.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 8.98 ft.lb	Approx. weight ³	: 91.2 lb
Locked rotor torque	: 260 %		
Breakdown torque	: 370 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.5657 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	81.3	82.7	82.5	82.7	85.5	84.4	86.5	83.9	Max. traction	: 189 lb
	80.1		80.9		83.8		84.3			
Power Factor	0.26	0.32	0.47	0.55	0.60	0.68	0.69	0.75	Max. compression	: 281 lb
	0.27		0.48		0.61		0.70			

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6206 ZZ	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	Date
Performed by		Page 1 / 1		
Checked by				
Date	26/03/2024			
			Revision	