

# Three Phase Induction Motor - Squirrel Cage



Product line : Rolled Steel NEMA Premium Efficiency Three-Phase      Product code : 12674872

Frame	: 182/4T	Locked rotor time	: 82s (cold) 46s (hot)
Output	: 1.5 HP (1.1 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	: 4.50/2.25 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 29.3/14.6 A	Mounting	: F-1
LRC	: 6.5x(Code J)	Rotation <sup>1</sup>	: Both (CW and CCW)
No load current	: 2.74/1.37 A	Noise level <sup>2</sup>	: 52.0 dB(A)
Rated speed	: 1165 rpm	Starting method	: Direct On Line
Slip	: 2.92 %	Approx. weight <sup>3</sup>	: 56.8 lb
Rated torque	: 6.76 ft.lb		
Locked rotor torque	: 200 %		
Breakdown torque	: 310 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.2178 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	82.8	84.0	84.0	83.3	85.5	84.1	86.5	82.8	Max. traction	: 118 lb
	80.8		81.2		83.5		83.5			
Power Factor	0.29	0.35	0.51	0.59	0.63	0.71	0.71	0.77	Max. compression	: 175 lb
	0.29		0.51		0.64		0.72			

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	6206 ZZ	6205 ZZ
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	Mobil Polyrex EM	

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	Revision
Checked by					
Date	26/03/2024				