

# Three Phase Induction Motor - Squirrel Cage



Product line : Rolled Steel JM Pump High Efficiency Three-Phase      Product code : 12676936

Frame	: 182/4JM	Locked rotor time	: 16s (cold) 9s (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	: 12.9/6.47 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 90.6/45.3 A	Mounting	: F-1
LRC	: 7.0x(Code J)	Rotation <sup>1</sup>	: Both (CW and CCW)
No load current	: 6.88/3.44 A	Noise level <sup>2</sup>	: 55.0 dB(A)
Rated speed	: 1750 rpm	Starting method	: Direct On Line
Slip	: 2.78 %	Approx. weight <sup>3</sup>	: 74.7 lb
Rated torque	: 15.0 ft.lb		
Locked rotor torque	: 200 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.3080 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	86.2	89.0	86.5	86.1	87.5	84.8	87.5	81.6	Max. traction	: 241 lb
	85.6		84.5		85.0		83.4			
Power Factor	0.36	0.43	0.62	0.71	0.75	0.82	0.82	0.86	Max. compression	: 316 lb
	0.35		0.62		0.75		0.82			

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	6207 ZZ	6205 ZZ
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	Mobil Polyrex EM	

Notes:

- (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	29/03/2024				