

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JM Pump High Efficiency Three-Phase Product code : 12676923

Frame	: 182/4JM	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 5 HP (3.7 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 12.5/6.24 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 87.4/43.7 A	Mounting	: F-1
LRC	: 7.0x(Code H)	Rotation ¹	: Both (CW and CCW)
No load current	: 4.60/2.30 A	Noise level ²	: 65.0 dB(A)
Rated speed	: 3510 rpm	Starting method	: Direct On Line
Slip	: 2.50 %	Approx. weight ³	: 58.3 lb
Rated torque	: 7.48 ft.lb		
Locked rotor torque	: 170 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1217 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	86.1	85.5	86.5	85.5	Max. traction	: 104 lb
Power Factor	0.46	0.71	0.82	0.87	Max. compression	: 163 lb

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

Notes:
USABLE @208V 13.8A SF 1.00 SFA 13.8A

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				
Checked by				
Date	29/03/2024			

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Revision