

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JM Pump High Efficiency Three-Phase Product code : 13180543

Frame	: 182/4JM	Locked rotor time	: 14s (cold) 8s (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	: 13.1/6.55 A	Protection degree	: IP55
L. R. Amperes	: 94.3/47.2 A	Cooling method	: IC411 - TEFC
LRC	: 7.2x(Code J)	Mounting	: F-1
No load current	: 6.93/3.46 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1750 rpm	Noise level ²	: 56.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 15.0 ft.lb	Approx. weight ³	: 86.5 lb
Locked rotor torque	: 200 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.3695 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	86.2	86.5	87.5	87.5	Max. traction	: 244 lb
Power Factor	0.36	0.61	0.74	0.81	Max. compression	: 331 lb

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

Notes:
USABLE @208V 14.5A SF 1.00 SFA 14.5A

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	29/03/2024			