

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JM Pump NEMA Premium
Efficiency Three-Phase

Product code : 13180542

Catalog # : 00318ET3E182JM-S

Frame : 182/4JM
Output : 3 HP (2.2 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 7.62/3.81 A
L. R. Amperes : 67.1/33.5 A
LRC : 8.8x(Code K)
No load current : 4.00/2.00 A
Rated speed : 1765 rpm
Slip : 1.94 %
Rated torque : 8.93 ft.lb
Locked rotor torque : 220 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.4017 sq.ft.lb
Design : B

Locked rotor time : 32s (cold) 18s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP55
Cooling method : IC411 - TEFC
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 56.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 85.8 lb

Output	25%		50%		75%		100%	
Efficiency (%)	86.4	88.2	87.5	87.5	88.5	87.7	89.5	86.7
	87.2		86.9		88.0		87.4	
Power Factor	0.36	0.42	0.61	0.68	0.74	0.79	0.81	0.85
	0.36		0.62		0.74		0.81	

Foundation loads
Max. traction : 177 lb
Max. compression : 263 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:

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	29/03/2024			
			Revision	