

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12676804

Catalog # : 00218OP3E145JMV-S

Frame : 143/5JM
Output : 2 HP (1.5 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 230/460 V
Rated current : 5.82/2.91 A
L. R. Amperes : 43.1/21.5 A
LRC : 7.4x(Code K)
No load current : 3.56/1.78 A
Rated speed : 1745 rpm
Slip : 3.06 %
Rated torque : 6.02 ft.lb
Locked rotor torque : 260 %
Breakdown torque : 310 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 0.1296 sq.ft.lb
Design : B

Locked rotor time : 18s (cold) 10s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Cooling method : IC01 - ODP
Mounting : W-6
Rotation¹ : Both (CW and CCW)
Noise level² : 52.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 40.4 lb

Output	25%		50%		75%		100%	
Efficiency (%)	81.1	83.5	81.5	81.9	84.0	82.2	84.0	80.0
	78.8		78.9		81.3		80.9	
Power Factor	0.31	0.37	0.55	0.64	0.69	0.77	0.77	0.84
	0.30		0.54		0.69		0.78	

Foundation loads
Max. traction : 151 lb
Max. compression : 192 lb

	Drive end	Non drive end
Bearing type :	6206 ZZ	6203 ZZ
Sealing :	Without Bearing Seal	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		