

Three Phase Induction Motor - Squirrel Cage



Product line : Rolled Steel JM Pump High Efficiency Three-Phase Product code : 12676803

Frame	: 143/5JM	Locked rotor time	: 21s (cold) 12s (hot)
Output	: 1.5 HP (1.1 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	: 4.38/2.19 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 33.3/16.6 A	Mounting	: W-6
LRC	: 7.6x(Code K)	Rotation ¹	: Both (CW and CCW)
No load current	: 2.89/1.44 A	Noise level ²	: 52.0 dB(A)
Rated speed	: 1755 rpm	Starting method	: Direct On Line
Slip	: 2.50 %	Approx. weight ³	: 37.1 lb
Rated torque	: 4.49 ft.lb		
Locked rotor torque	: 270 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1168 sq.ft.lb		
Design	: B		

Output	25%		50%		75%		100%		Foundation loads	
Efficiency (%)	79.5	82.2	80.0	81.5	84.0	82.6	84.0	81.4	Max. traction	: 128 lb
	77.8		78.4		81.5		81.7			
Power Factor	0.29	0.34	0.52	0.60	0.65	0.73	0.75	0.81	Max. compression	: 165 lb
	0.28		0.51		0.65		0.75			

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	6206 ZZ	6203 ZZ
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	-	-
Lubricant amount	-	-
Lubricant type	Mobil Polyvrex 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				