

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel JM Pump High Efficiency Three-Phase Product code : 12845470

Frame	: 182/4JM	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 7.5 HP (5.5 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 200/400 V	Altitude	: 1000 m.a.s.l.
Rated current	: 20.4/10.2 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 143/71.3 A	Mounting	: W-6
LRC	: 7.0x(Code H)	Rotation ¹	: Both (CW and CCW)
No load current	: 8.04/4.02 A	Noise level ²	: 65.0 dB(A)
Rated speed	: 3500 rpm	Starting method	: Direct On Line
Slip	: 2.78 %	Approx. weight ³	: 70.7 lb
Rated torque	: 11.3 ft.lb		
Locked rotor torque	: 180 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.1559 sq.ft.lb		
Design	: B		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	88.1	87.5	88.5	87.5	Max. traction	: 166 lb
Power Factor	0.47	0.74	0.84	0.89	Max. compression	: 236 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:

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			