

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Jet Pump - J type Single-Phase Product code : 14003006
Catalog # : .5036ES1BJPW56J-S

Frame	: W56J	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 0.5 HP (0.37 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 115/208-230 V	Altitude	: 1000 m.a.s.l.
Rated current	: 7.00/3.87-3.50 A	Protection degree	: IP55
L. R. Amperes	: 56.0/31.0-28.0 A	Cooling method	: IC411 - TEFC
LRC	: 8.0x(Code P)	Mounting	: F-1
No load current	: 4.80/2.07-2.40 A	Rotation ¹	: CCW
Rated speed	: 3500 rpm	Noise level ²	: 66.0 dB(A)
Slip	: 2.78 %	Starting method	: Direct On Line
Rated torque	: 0.750 ft.lb	Approx. weight ³	: 21.6 lb
Locked rotor torque	: 290 %		
Breakdown torque	: 300 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0233 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	48.1	50.0	58.0	60.0	Max. traction	: 11 lb
Power Factor	0.34	0.59	0.69	0.76	Max. compression	: 32 lb

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6203 2RS	6202 2RS
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	27/03/2024			
			Revision	