

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Fan and Exhaust Single-Phase Product code : 14219954
Catalog # : .5018OT1BRBOW56-S

Frame	: W56	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 0.5 HP (0.37 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 4.86/3.04-2.43 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 37.4/23.4-18.7 A	Mounting	: F-1
LRC	: 7.7x(Code K)	Rotation ¹	: Both (CW and CCW)
No load current	: 2.70/1.16-1.35 A	Noise level ²	: 50.0 dB(A)
Rated speed	: 1730 rpm	Starting method	: Direct On Line
Slip	: 3.89 %	Approx. weight ³	: 25.8 lb
Rated torque	: 1.52 ft.lb		
Locked rotor torque	: 300 %		
Breakdown torque	: 270 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0520 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	62.2	65.0	73.0	76.2	Max. traction	: 27 lb
Power Factor	0.44	0.72	0.81	0.87	Max. compression	: 53 lb

	Drive end	Non drive end
Bearing type	: 6203 ZZ	: 6202 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	26/03/2024			