

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Fan and Exhaust Single-Phase Split Phase Product code : 14533016
Catalog # : .5018OS1BSPRBW56-S

Frame	: W56	Locked rotor time	: 10s (cold) 6s (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	: 7.24/3.80-3.62 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 47.1/24.7-23.5 A	Mounting	: F-1
LRC	: 6.5x(Code M)	Rotation ¹	: Both (CW and CCW)
No load current	: 5.80/2.50-2.90 A	Starting method	: Direct On Line
Rated speed	: 1715 rpm	Approx. weight ³	: 22.7 lb
Slip	: 4.72 %		
Rated torque	: 1.53 ft.lb		
Locked rotor torque	: 130 %		
Breakdown torque	: 220 %		
Insulation class	: F		
Service factor	: 1.25		
Design	: O		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	49.3	52.0	60.0	63.5	Max. traction	: 21 lb
Power Factor	0.28	0.50	0.60	0.70	Max. compression	: 44 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 Revision 1 / 1		
Checked by				
Date	27/03/2024			