

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Fan and Exhaust Single-Phase Product code : 13614382  
Catalog # : .5018OS1PRBOW56-S

Frame	: W56	Locked rotor time	: 18s (cold) 10s (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	: 277 V	Altitude	: 1000 m.a.s.l.
Rated current	: 3.70 A	Cooling method	: IC01 - ODP
L. R. Amperes	: 18.5 A	Mounting	: F-1
LRC	: 5.0x(Code M)	Rotation <sup>1</sup>	: Both (CW and CCW)
No load current	: 3.36 A	Noise level <sup>2</sup>	: 50.0 dB(A)
Rated speed	: 1710 rpm	Starting method	: Direct On Line
Slip	: 5.00 %	Approx. weight <sup>3</sup>	: 18.7 lb
Rated torque	: 1.54 ft.lb		
Locked rotor torque	: 300 %		
Breakdown torque	: 390 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0475 sq.ft.lb		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	45.4	53.6	57.7	Max. traction	: 49 lb
Power Factor	0.00	0.44	0.54	0.63	Max. compression	: 68 lb

	Drive end	Non drive end
Bearing type	: 6203 ZZ	: 6202 ZZ
Sealing	: Without Bearing Seal	: Without Bearing Seal
Lubrication interval	: 0 h	: 0 h
Lubricant amount	: 0 g	: 0 g
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				
Checked by				
Date	28/03/2024			

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Revision