

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Fan and Exhaust Single-Phase Split Phase Product code : 15413673
Catalog # : .5018AS1BPFW56-S

Frame	: W56	Locked rotor time	: 12s (cold) 7s (hot)
Output	: 0.5 HP (0.37 kW)	Temperature rise	: 105 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	: 8.06/3.93-4.03 A	Protection degree	: IP55
L. R. Amperes	: 51.6/25.2-25.8 A	Cooling method	: IC418 - TEAO
LRC	: 6.4x(Code N)	Mounting	: F-1
No load current	: 7.60/3.20-3.80 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1730 rpm	Starting method	: Direct On Line
Slip	: 3.89 %	Approx. weight ³	: 22.5 lb
Rated torque	: 1.52 ft.lb		
Locked rotor torque	: 150 %		
Breakdown torque	: 254 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0522 sq.ft.lb		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	52.1	56.5	63.4	Max. traction	: 26 lb
Power Factor	0.00	0.44	0.54	0.63	Max. compression	: 49 lb

		Drive end	Non drive end
Bearing type	:	6203 ZZ	6202 ZZ
Sealing	:	V'Ring	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		Page Revision 1 / 1		
Checked by				
Date	26/03/2024			