

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Single-Phase

Product code :

Catalog # :

Frame : W56C
 Output : 0.5 HP (0.37 kW)
 Poles : 2
 Frequency : 60 Hz
 Rated voltage : 115/208-230 V
 Rated current : 7.00/3.87-3.50 A
 L. R. Amperes : 56.0/31.0-28.0 A
 LRC : 8.0x(Code P)
 No load current : 4.80/2.07-2.40 A
 Rated speed : 3500 rpm
 Slip : 2.78 %
 Rated torque : 0.750 ft.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

Locked rotor time : 12s (cold) 7s (hot)
 Temperature rise : 80 K
 Duty cycle : Cont.(S1)
 Ambient temperature : -20°C to +40°C
 Altitude : 1000 m.a.s.l.
 Protection degree : IP55
 Cooling method : IC411 - TEFC
 Mounting : F-1
 Rotation¹ : Both (CW and CCW)
 Noise level² : 66.0 dB(A)
 Starting method : Direct On Line
 Approx. weight³ : 21.5 lb

Output	50%	75%	100%
Efficiency (%)	50.0	58.0	60.0
Power Factor	0.59	0.69	0.76

Foundation loads
 Max. traction : 11 lb
 Max. compression : 32 lb

	Drive end	Non drive end
Bearing type :	6203 ZZ	6202 ZZ
Sealing :	V'Ring	Without Bearing Seal
Lubrication interval :	-	-
Lubricant amount :	-	-
Lubricant type :	Mobil Polyrex EM	

Notes
 1/2hp 1ph for M6

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	18/11/2024			
		Revision		

