

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Single-Phase

Product code : 14419272

Catalog # : .1636OS1B48CH-S

Frame : 48
Output : 0.16 HP (0.12 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 115/208-230 V
Rated current : 2.82/1.56-1.41 A
L. R. Amperes : 18.3/10.1-9.16 A
LRC : 6.5x(Code P)
No load current : 2.40/1.03-1.20 A
Rated speed : 3500 rpm
Slip : 2.78 %
Rated torque : 0.240 ft.lb
Locked rotor torque : 300 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.35
Moment of inertia (J) : 0.0126 sq.ft.lb
Design : N

Locked rotor time : 25s (cold) 14s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Cooling method : IC01 - ODP
Mounting : F-1
Rotation¹ : Both (CW and CCW)
Noise level² : 56.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 14.3 lb

Output	25%	50%	75%	100%
Efficiency (%)	30.7	35.0	44.0	53.0
Power Factor	0.33	0.56	0.64	0.70

Foundation loads
Max. traction : 1 lb
Max. compression : 15 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		
Checked by				
Date	25/03/2024			
		Revision		