

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Single-Phase

Product code : 13039493
Catalog # : .5018OT1B48-S

Frame : 48
Output : 0.5 HP (0.37 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 115/208-230 V
Rated current : 4.86/3.04-2.43 A
L. R. Amperes : 37.4/23.4-18.7 A
LRC : 7.7x(Code K)
No load current : 2.70/1.16-1.35 A
Rated speed : 1730 rpm
Slip : 3.89 %
Rated torque : 1.52 ft.lb
Locked rotor torque : 300 %
Breakdown torque : 270 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.0520 sq.ft.lb
Design : N

Locked rotor time : 27s (cold) 15s (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 : 50.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 22.1 lb

Output	25%	50%	75%	100%
Efficiency (%)	62.2	65.0	73.0	76.2
Power Factor	0.44	0.72	0.81	0.87

Foundation loads
Max. traction : 35 lb
Max. compression : 57 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		