

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Single-Phase

Product code : 14360509
Catalog # : .2518OT1BW56CFL-S

Frame : W56C
Output : 0.25 HP (0.18 kW)
Poles : 4
Frequency : 60 Hz
Rated voltage : 115/208-230 V
Rated current : 2.92/1.77-1.46 A
L. R. Amperes : 15.5/9.38-7.74 A
LRC : 5.3x(Code J)
No load current : 2.00/0.862-1.00 A
Rated speed : 1740 rpm
Slip : 3.33 %
Rated torque : 0.754 ft.lb
Locked rotor torque : 290 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.35
Moment of inertia (J) : 0.0358 sq.ft.lb
Design : N

Locked rotor time : 36s (cold) 20s (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 : 20.6 lb

Output	25%	50%	75%	100%
Efficiency (%)	52.7	56.0	64.0	68.5
Power Factor	0.33	0.56	0.65	0.78

Foundation loads
Max. traction : 11 lb
Max. compression : 32 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 / 1Revision		
Checked by				
Date	25/03/2024			