

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Single-Phase

Product code : 13188600
Catalog # : .5036OT1BW56-S

Frame : W56
Output : 0.5 HP (0.37 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 115/208-230 V
Rated current : 4.80/2.65-2.40 A
L. R. Amperes : 42.2/23.3-21.1 A
LRC : 8.8x(Code L)
No load current : 1.60/0.690-0.800 A
Rated speed : 3510 rpm
Slip : 2.50 %
Rated torque : 0.748 ft.lb
Locked rotor torque : 270 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.25
Moment of inertia (J) : 0.0254 sq.ft.lb
Design : N

Locked rotor time : 16s (cold) 9s (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 : 21.5 lb

| Output | 25% | 50% | 75% | 100% |
|----------------|------|------|------|------|
| Efficiency (%) | 56.6 | 60.0 | 68.0 | 72.4 |
| Power Factor | 0.64 | 0.90 | 0.93 | 0.94 |

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 | | | |