

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

| | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|----------------------|---|-------------------------------|------|------------------|----------------------|----------------|---------|---------|-----------|----------------------|----------------------|------------------------|------|------|--------------------|---|---|------------------|------------------|--|
| Customer : | | | | | | | | | | | | | | | | | | | | | | |
| Product line : Rolled Steel 00021 Single-Phase | | | Product code : 13283821 | | | | | | | | | | | | | | | | | | | |
| | | | Catalog # : 00118OT1BRBO56-S | | | | | | | | | | | | | | | | | | | |
| Frame : 56H Output : 1 HP (0.75 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 115/208-230 V Rated current : 9.00/4.98-4.50 A L. R. Amperes : 75.6/41.8-37.8 A LRC : 8.4x(Code K) No load current : 3.40/1.47-1.70 A Rated speed : 1750 rpm Slip : 2.78 % Rated torque : 3.00 ft.lb Locked rotor torque : 260 % Breakdown torque : 250 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1232 sq.ft.lb Design : L | | | 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 Rotation ¹ : Both (CW and CCW) Noise level ² : 52.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 40.2 lb | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Output</td> <td>25%</td> <td>50%</td> <td>75%</td> <td>100%</td> </tr> <tr> <td>Efficiency (%)</td> <td>72.6</td> <td>75.0</td> <td>80.0</td> <td>82.6</td> </tr> <tr> <td>Power Factor</td> <td>0.50</td> <td>0.75</td> <td>0.83</td> <td>0.87</td> </tr> </table> | | | Output | 25% | 50% | 75% | 100% | Efficiency (%) | 72.6 | 75.0 | 80.0 | 82.6 | Power Factor | 0.50 | 0.75 | 0.83 | 0.87 | Foundation loads Max. traction : 53 lb Max. compression : 93 lb | | | | |
| Output | 25% | 50% | 75% | 100% | | | | | | | | | | | | | | | | | | |
| Efficiency (%) | 72.6 | 75.0 | 80.0 | 82.6 | | | | | | | | | | | | | | | | | | |
| Power Factor | 0.50 | 0.75 | 0.83 | 0.87 | | | | | | | | | | | | | | | | | | |
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| | <u>Drive end</u> | <u>Non drive end</u> | | | | | | | | | | | | | | | | | | | | |
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| Sealing : | Without Bearing Seal | Without Bearing Seal | | | | | | | | | | | | | | | | | | | | |
| Lubrication interval : | - | - | | | | | | | | | | | | | | | | | | | | |
| Lubricant amount : | - | - | | | | | | | | | | | | | | | | | | | | |
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| 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 | | | | | | | | | | | | | | | | | |
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| Performed by | | | | Page 1 / 1 Revision | | | | | | | | | | | | | | | | | | |
| Checked by | | | | | | | | | | | | | | | | | | | | | | |
| Date | | 24/04/2023 | | | | | | | | | | | | | | | | | | | | |