

DATA SHEET



Single Phase Induction Motor - Squirrel Cage

| | | | | | | | | | | | | | | | | | | | |
|---|----------------------|--|-----------|------------------|----------------------|---------|----------------|----------------------|----------------------|------|------|--------------|------|------|------|------|---|--|--|
| Customer : | | | | | | | | | | | | | | | | | | | |
| Product line : ROLLED STEEL | | Product code : 13140284 | | | | | | | | | | | | | | | | | |
| | | Catalog # : .7536OT1B56-S | | | | | | | | | | | | | | | | | |
| Frame : 56 Output : 0.75 HP (0.550 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 115/208-230 V Rated current : 6.80/3.76-3.40 A L. R. Amperes : 58.5/32.3-29.2 A LRC : 8.6x(Code K) No load current : 2.40/1.03-1.20 A Rated speed : 3510 rpm Slip : 2.50 % Rated torque : 1.12 ft.lb Locked rotor torque : 300 % Breakdown torque : 300 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.0434 sq.ft.lb Design : N | | Locked rotor time : 32s (cold) 18s (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 : 58.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 25.2 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>60.1</td> <td>64.0</td> <td>71.0</td> <td>76.2</td> </tr> <tr> <td>Power Factor</td> <td>0.61</td> <td>0.88</td> <td>0.92</td> <td>0.93</td> </tr> </table> | | Output | 25% | 50% | 75% | 100% | Efficiency (%) | 60.1 | 64.0 | 71.0 | 76.2 | Power Factor | 0.61 | 0.88 | 0.92 | 0.93 | Foundation loads Max. traction : 20 lb Max. compression : 45 lb | | |
| Output | 25% | 50% | 75% | 100% | | | | | | | | | | | | | | | |
| Efficiency (%) | 60.1 | 64.0 | 71.0 | 76.2 | | | | | | | | | | | | | | | |
| Power Factor | 0.61 | 0.88 | 0.92 | 0.93 | | | | | | | | | | | | | | | |
| | | <table border="0" style="width:100%;"> <tr> <td style="width: 50%; text-align: center;"><u>Drive end</u></td> <td style="width: 50%; text-align: center;"><u>Non drive end</u></td> </tr> <tr> <td style="text-align: center;">6203 ZZ</td> <td style="text-align: center;">6202 ZZ</td> </tr> <tr> <td style="text-align: center;">Without Bearing Seal</td> <td style="text-align: center;">Without Bearing Seal</td> </tr> </table> | | <u>Drive end</u> | <u>Non drive end</u> | 6203 ZZ | 6202 ZZ | Without Bearing Seal | Without Bearing Seal | | | | | | | | | | |
| <u>Drive end</u> | <u>Non drive end</u> | | | | | | | | | | | | | | | | | | |
| 6203 ZZ | 6202 ZZ | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Performed by | | | | Page | | | | | | | | | | | | | | | |
| Checked by | | | | Revision | | | | | | | | | | | | | | | |
| Date | | 26/03/2023 | | 1 / 1 | | | | | | | | | | | | | | | |