# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage

Customer :

| | | | |
|---|---|---|---|
| Product line | : W22 NEMA Premium Efficiency Three-Phase | Product code : | 12787890 |
| | | Catalog # : | |

| | | | |
|---|---|---|---|
| Frame | : 254/6TCZ | Locked rotor time | : 27s (cold) 15s (hot) |
| Output | : 20 HP (15 kW) | Temperature rise | : 105 K |
| Poles | : 4 | Duty cycle | : Cont.(S1) |
| Frequency | : 60 Hz | Ambient temperature | : -20°C to +40°C |
| Rated voltage | : 230/460 V | Altitude | : 1000 m.a.s.l. |
| Rated current | : 53.3/26.6 A | Protection degree | : IP55 |
| L. R. Amperes | : 458/229 A | Cooling method | : IC410 - TENV |
| LRC | : 8.6x(Code L) | Mounting | : F-1 |
| No load current | : 29.5/14.8 A | Rotation[1] | : Both (CW and CCW) |
| Rated speed | : 1775 rpm | Starting method | : VFD |
| Slip | : 1.39 % | Approx. weight[3] | : 366 lb |
| Rated torque | : 59.2 ft.lb | | |
| Locked rotor torque | : 360 % | | |
| Breakdown torque | : 430 % | | |
| Insulation class | : H | | |
| Service factor | : 1.00 | | |
| Moment of inertia (J) | : 4.28 sq.ft.lb | | |
| Design | : A | | |

| Output | 25% | 50% | 75% | 100% |
|---|---|---|---|---|
| Efficiency (%) | 0.000 | 91.8 | 93.0 | 93.0 |
| Power Factor | 0.00 | 0.55 | 0.69 | 0.76 |

Foundation loads

| | |
|---|---|
| Max. traction | : 1037 lb |
| Max. compression | : 1403 lb |

| | | Drive end | Non drive end |
|---|---|---|---|
| Bearing type | : | 6309 C3 | 6309 C3 |
| Sealing | : | V'Ring | V'Ring |
| Lubrication interval | : | 20000 h | 20000 h |
| Lubricant amount | : | 13 g | 13 g |
| 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 |
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## Three Phase Induction Motor - Squirrel Cage

Customer :

**Thermal protection**

| ID | Application | Type | Quantity | Sensing Temperature |
|---|---|---|---|---|
| 1 | Winding | Thermostat - 2 wires | 1 x Phase | 155 ºC |

| Rev. | Changes Summary | Performed | Checked | Date |
|---|---|---|---|---|
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