

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



| | | | | | |
|---|-----------------|---|--|--------------------------------|---|
| Customer : | | | | | |
| Product line | | : Rolled Steel Grain Dryer Single-Phase | | Product code : 13972899 | |
| | | | | Catalog # : 01536AP1DGD215TZ-S | |
| Frame : 213/5TZ Output : 10 HP (7.5 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 230 V Rated current : 37.8 A L. R. Amperes : 446 A LRC : 11.8x(Code M) No load current : 5.30 A Rated speed : 3550 rpm Slip : 1.39 % Rated torque : 14.8 ft.lb Locked rotor torque : 210 % Breakdown torque : 440 % Insulation class : F Service factor : 1.00 | | | Locked rotor time : 14s (cold) 8s (hot) Temperature rise : 105 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC410 - TEAO Mounting : F-3 Rotation ¹ : Both (CW and CCW) Noise level ² : 75.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 166 lb | | |
| Output | 25% | 50% | 75% | 100% | Foundation loads Max. traction : 279 lb Max. compression : 445 lb |
| Efficiency (%) | 80.5 | 82.2 | 86.4 | 88.0 | |
| Power Factor | 0.80 | 0.97 | 0.98 | 0.98 | |
| | | <u>Drive end</u> | | <u>Non drive end</u> | |
| Bearing type | : | 6208 ZZ | | 6206 ZZ | |
| Sealing | : | V'Ring | | V'Ring | |
| 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 | | | | | |
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| Date | 10/04/2020 | | | 1 / 3 | |

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Customer : _____

Thermal protection

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

| Rev. | Changes Summary | | Performed | Checked | Date |
|--------------|-----------------|--|-----------|---------|----------|
| | | | | | |
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LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

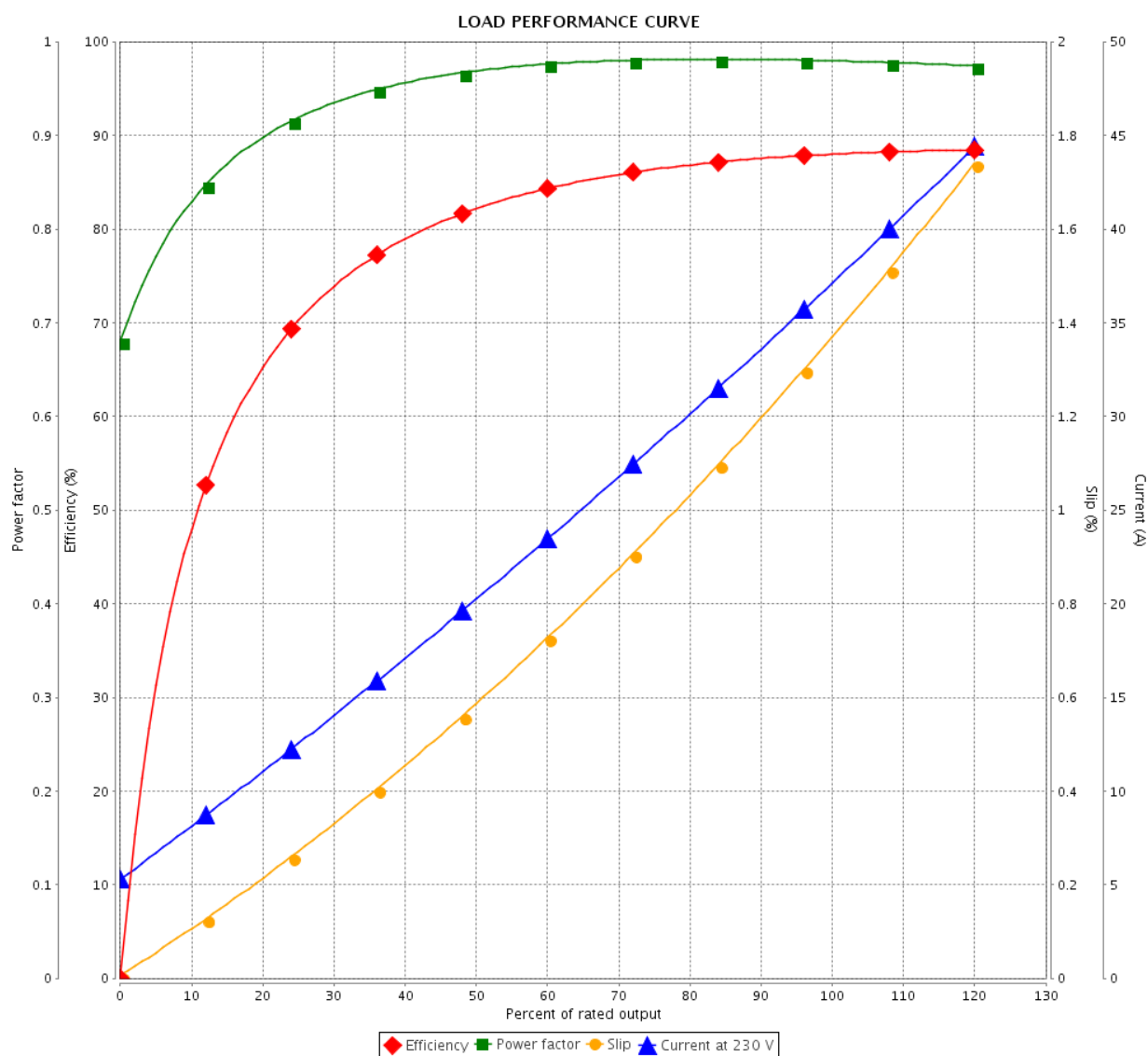


Customer :

Product line : Rolled Steel Grain Dryer Single-Phase

Product code : 13972899

Catalog # : 01536AP1DGD215TZ-S



Performance : 230 V 60 Hz 2P

Rated current : 37.8 A
 LRC : 11.8
 Rated torque : 14.8 ft.lb
 Locked rotor torque : 210 %
 Breakdown torque : 440 %
 Rated speed : 3550 rpm

Moment of inertia (J)
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 105 K

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

