### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code: 12809662

> Catalog #: 00136OT3E56CFL-S

: 56C Cooling method : IC01 - ODP Frame Insulation class : F Mounting : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 20.2 lb Moment of inertia (J) : 0.0517 sq.ft.lb Output [HP] Poles 2 2 2 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 190/380 220/415 Rated current [A] 3.02/1.51 3.50/1.75 3.26/1.73 L. R. Amperes [A] 19.3/9.66 17.2/8.58 17.0/9.00 LRC [A] 5.2x(Code G) 6.4x(Code J) 4.9x(Code G) No load current [A] 1.50/0.750 2.06/1.09 1.60/0.800 Rated speed [RPM] 3470 2850 2820 Slip [%] 5.00 3.61 6.00 1.51 1.84 1.86

Rated torque [ft.lb] Locked rotor torque [%] 229 190 160 Breakdown torque [%] 260 220 190 Service factor 1.15 1.15 Temperature rise 80 K 80 K 80 K Locked rotor time 41s (cold) 23s (hot) 39s (cold) 22s (hot) 37s (cold) 21s (hot) Noise level<sup>2</sup> 62.0 dB(A) 60.0 dB(A) 60.0 dB(A) 25% 68.3 73.8 70.3 50% 70.0 72.9 70.5 Efficiency (%) 75% 74.9 75.5 74.1 73.2 100% 77.0 73.7 25% 0.37 0.43 0.35 0.62 50% 0.60 0.69 Power Factor 75% 0.73 0.82 0.77

> Non drive end Drive end Foundation loads

0.89

Bearing type 6204 ZZ 6202 ZZ Max. traction : 29 lb Sealing Without Without Max. compression : 50 lb

> Bearing Seal Bearing Seal

0.81

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 3.34A SF 1.00 SFA 3.34A

100%

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.

0.85

(1) / 100 / 00 / 10	in load.				
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## TORQUE AND CURRENT VS SPEED CURVE

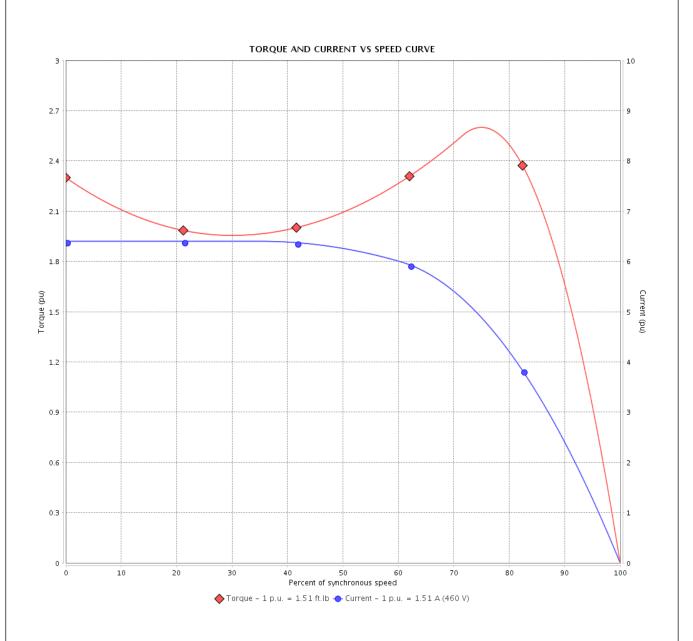
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809662

Catalog #: 00136OT3E56CFL-S



Performance : 230/460 V 60 Hz 2P Rated current : 3.02/1.51 A Moment of inertia (J) : 0.0517 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.51 ft.lb : F Locked rotor torque : 229 % Service factor

Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3470 rpm

Locked rotor time : 41s (cold) 23s (hot)

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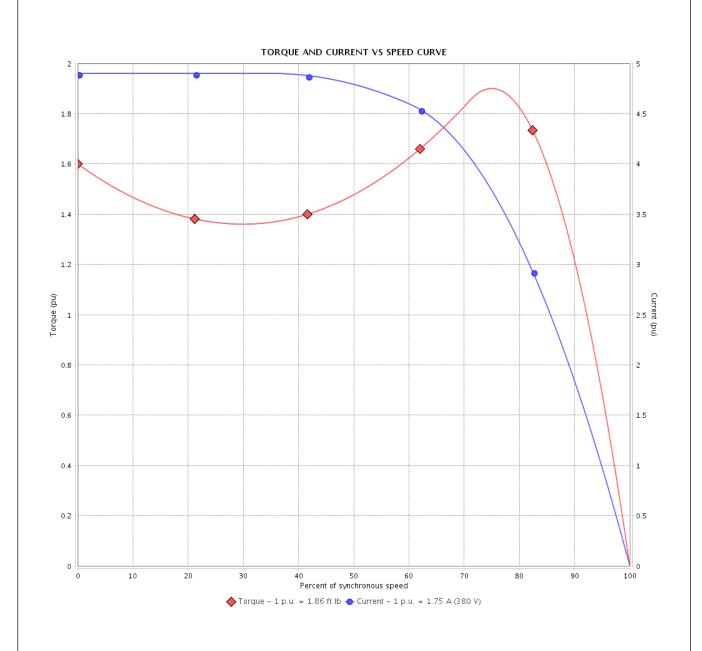
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Performance : 190/380 V 50 Hz 2P Rated current : 3.50/1.75 A Moment of inertia (J) : 0.0517 sq.ft.lb **LRC** : 4.9 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 1.86 ft.lb Locked rotor torque : 160 % Service factor : 1.15 Breakdown torque : 190 % Temperature rise : 80 K Rated speed : 2820 rpm

Locked rotor time : 39s (cold) 22s (hot)

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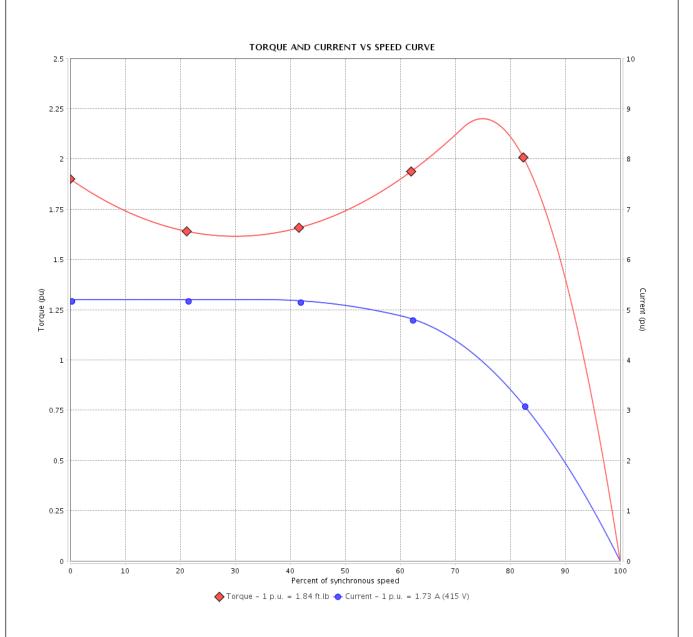
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Performance : 220/415 V 50 Hz 2P Rated current : 3.26/1.73 A Moment of inertia (J) : 0.0517 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) : F Rated torque : 1.84 ft.lb Insulation class : 190 % Service factor Locked rotor torque : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 2850 rpm

Locked rotor time : 37s (cold) 21s (hot)

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# LOAD PERFORMANCE CURVE

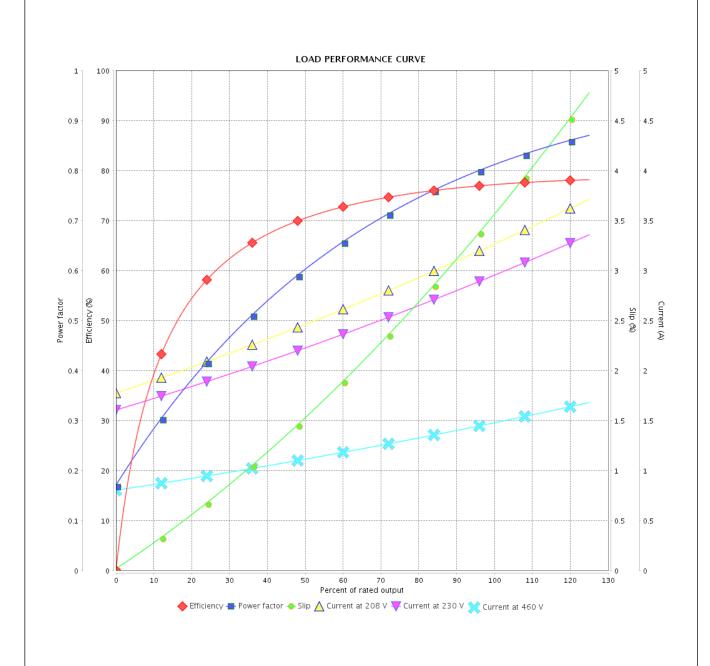
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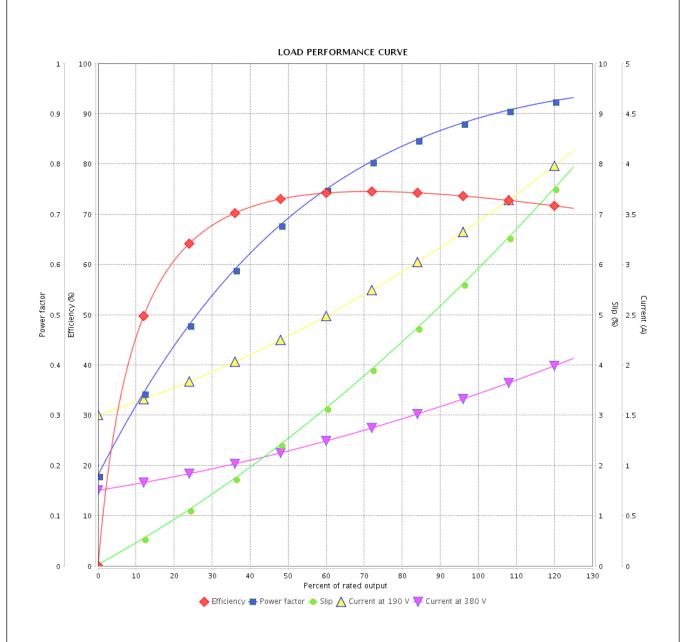
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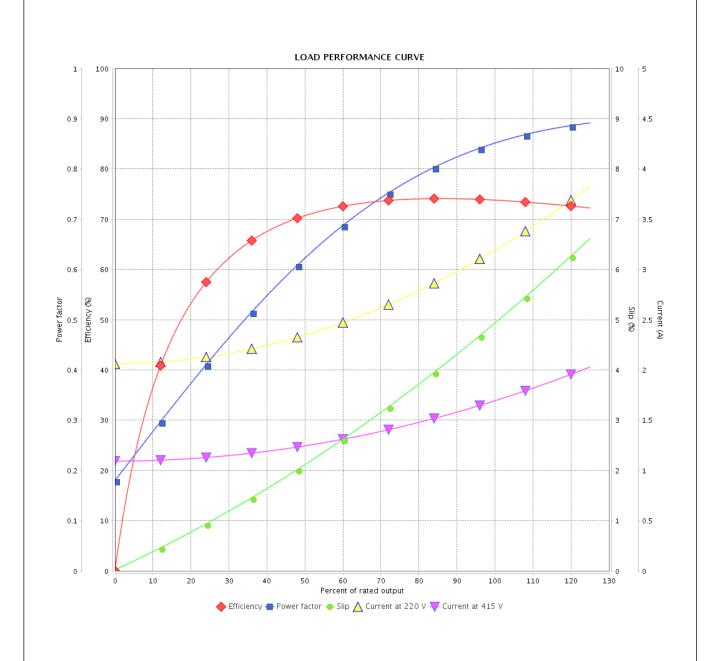


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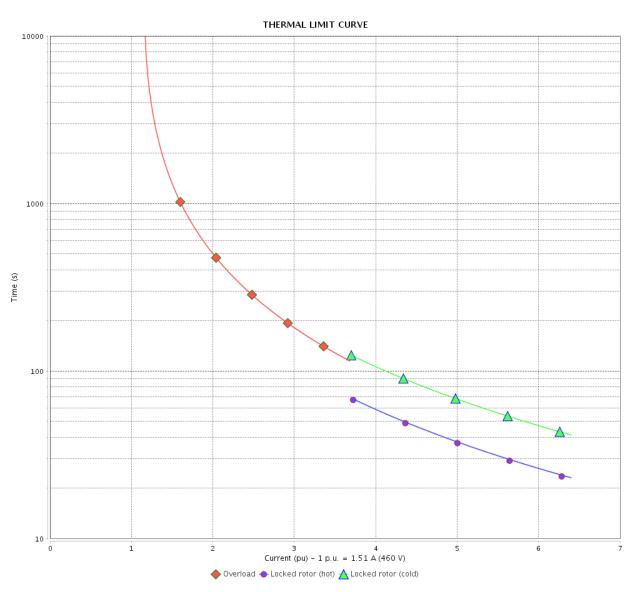
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Cooling Constant					
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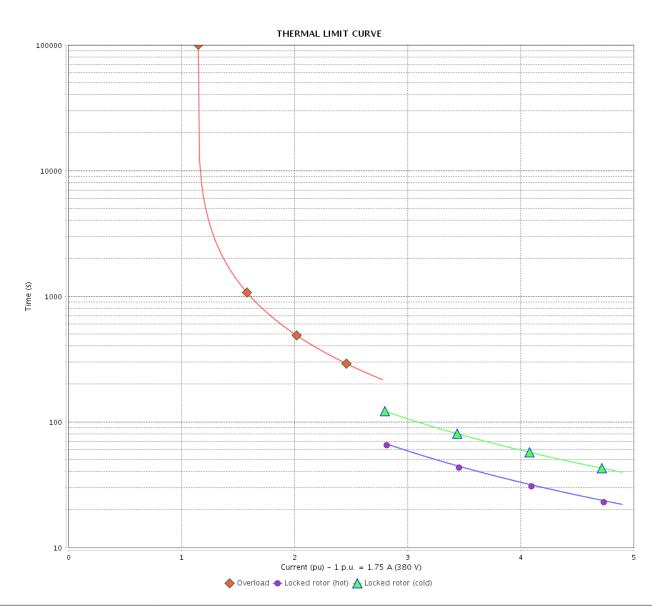
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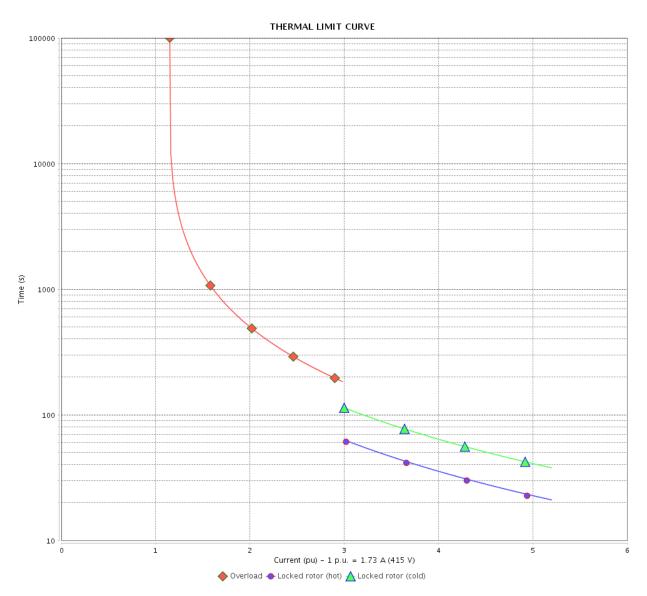
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# VFD OPERATION CURVE

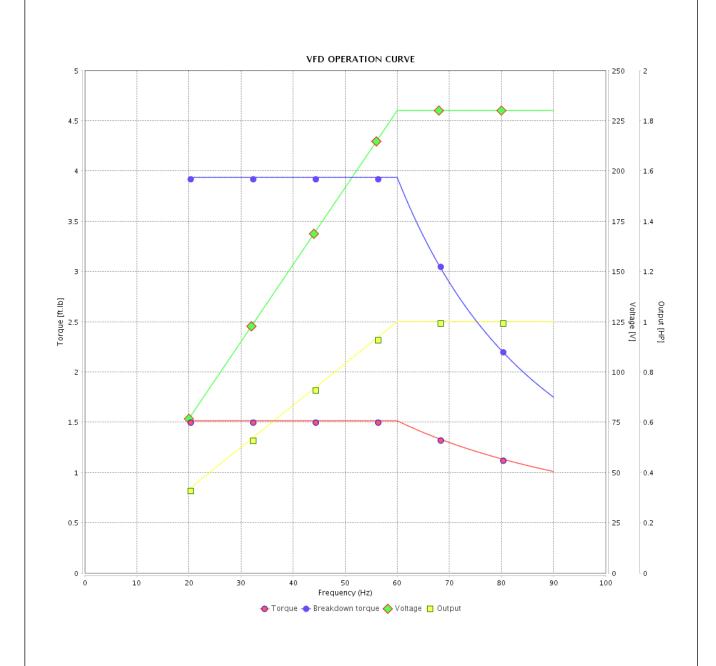
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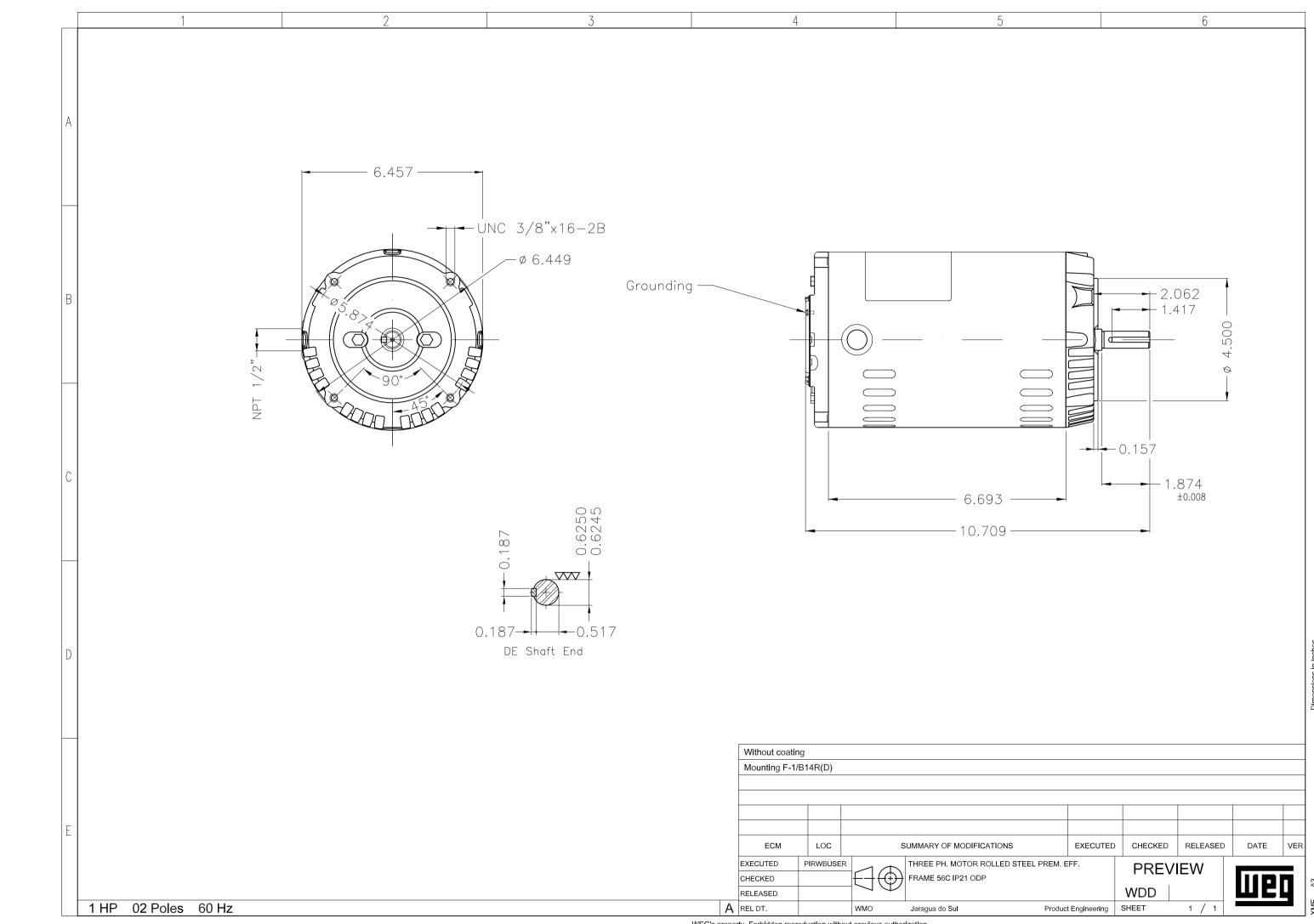
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Energy Verifi

MODEL 001360T3E56CFL-S N01.TO0IC0X0X

12809662

MADE IN MÉXICO

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CONT

1000 m.a.s.

3.02/1.51 230/460 3.77/1.

> CODE DES F AT 80K

2°04 900

NSC

SABLE @ 208V 3.34A LTERNATE RATING:

SF1.00 INC.

NOM EFF 2820RPM

50 Hz

ZPM 3FA 냃 쌆

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 3:1 CT HO! 3.50-3.30/1.75-1.75A ODE

8204-ZZ

IEC 60034-1

SF1.15

190-220/380-415V

**EFF 73.2%** 77.0%

> 8202-ZZ 9

2

MOBIL POLYREX EM

T2-WHT

T9-BRK RED 13-ORG 1-BLU I7-PNK F5-BLK

T8-RED F6-GRY T4-YEL

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine

conformément aux codes électriques locaux et nationaux afin d'éviter tout

shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical