DATA SHEET

Three Phase Induction Motor - Squirrel Cage

: 1.15



Customer : Automation Direct

Product line : Standard Efficiency Three-Phase Product code : 14796996

Catalog # : .5018ES3E56-S

Frame : 56 Locked rotor time : 36s (cold) 20s (hot)
Output : 0.5 HP (0.37 kW) Temperature rise : 80 K

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Poles : 4 Duty cycle : Cont.(S1)
Frequency : 60 Hz Ambient temperature : -20°C to +40°C

Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 208-230/460 V Altitude : 1000 m.a.s.l.

Rated current : 1.91-1.72/0.862 A Protection degree : IP55
L. R. Amperes : 13.3-12.1/6.03 A Cooling method : IC411 - TEFC

LRC : 7.0x(Code L) Mounting : F-1

No load current : 1.03-1.20/0.600 A Rotation¹ : Both (CW and CCW)
Rated speed : 1760 rpm Noise level² : 52.0 dB(A)

Slip : 2.22 % Starting method : Direct On Line Rated torque : 1.49 ft.lb Approx. weight³ : 21.3 lb

Locked rotor torque : 240 %

Breakdown torque : 300 %

Insulation class : F

Moment of inertia (J) : 0.0584 sq.ft.lb

Output 25% 50% 75% 100% Foundation loads

Efficiency (%) 65.4 68.0 74.0 77.0 Max. traction : 44 lb Power Factor 0.28 0.48 0.61 0.70 Max. compression : 65 lb

Drive endNon drive endBearing type:6203 ZZSealing:V'RingWithout Bearing Seal

Lubrication interval : - -

Lubricant amount : - - - - - - - Lubricant type : Mobil Polyrex EM

Notes

Service factor

USABLE @208V SF 1.00

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.

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TORQUE AND CURRENT VS SPEED CURVE

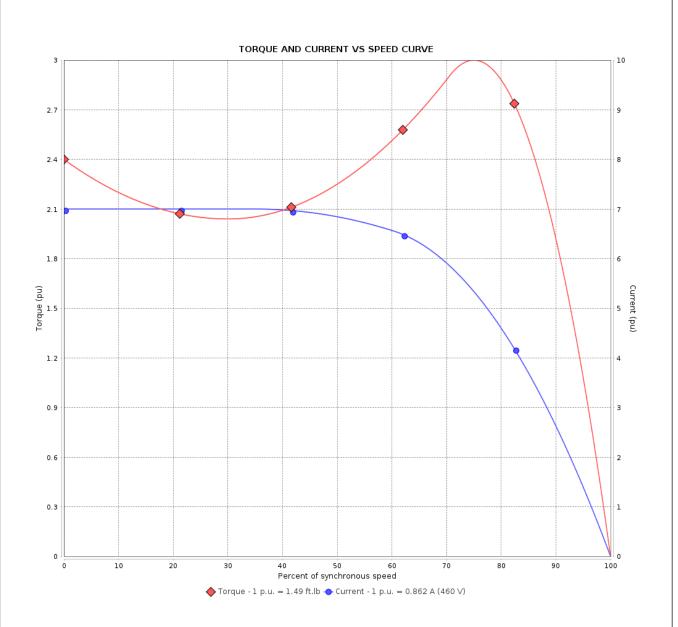
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LOAD PERFORMANCE CURVE

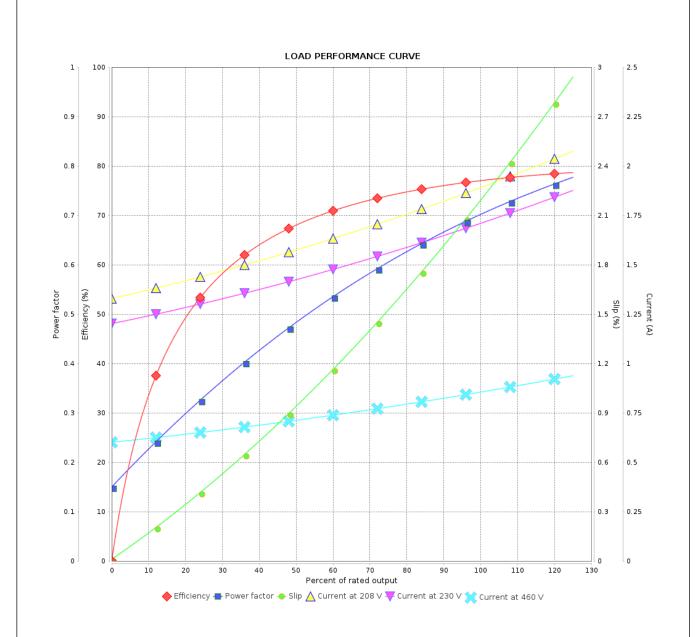
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Date

THERMAL LIMIT CURVE

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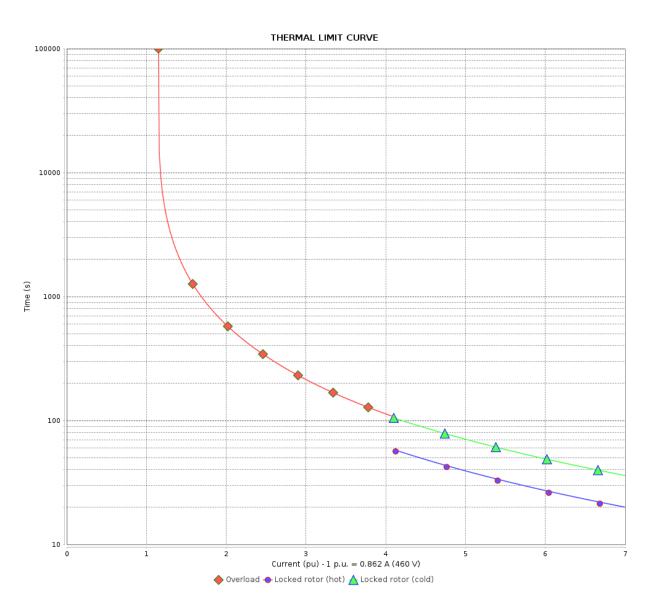
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22/08/2022

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Heating constant	t					
Cooling constant	t					
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Revision

VFD OPERATION CURVE

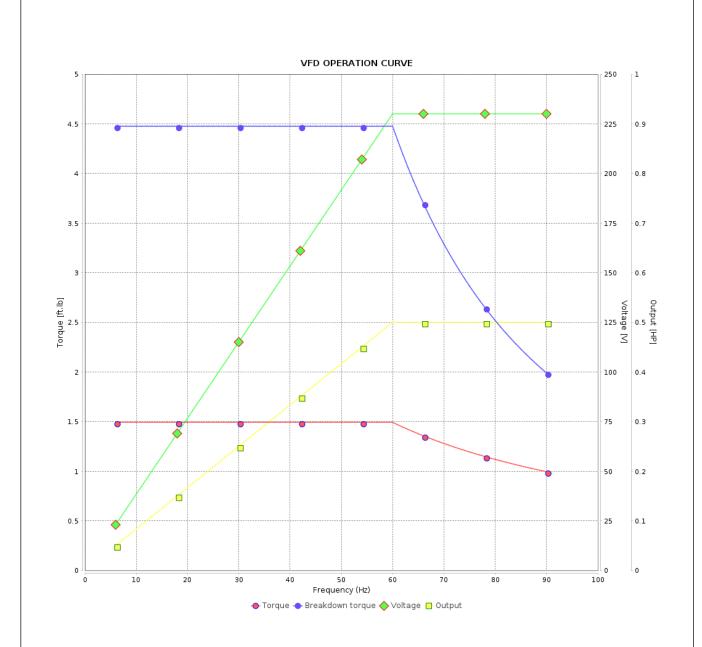
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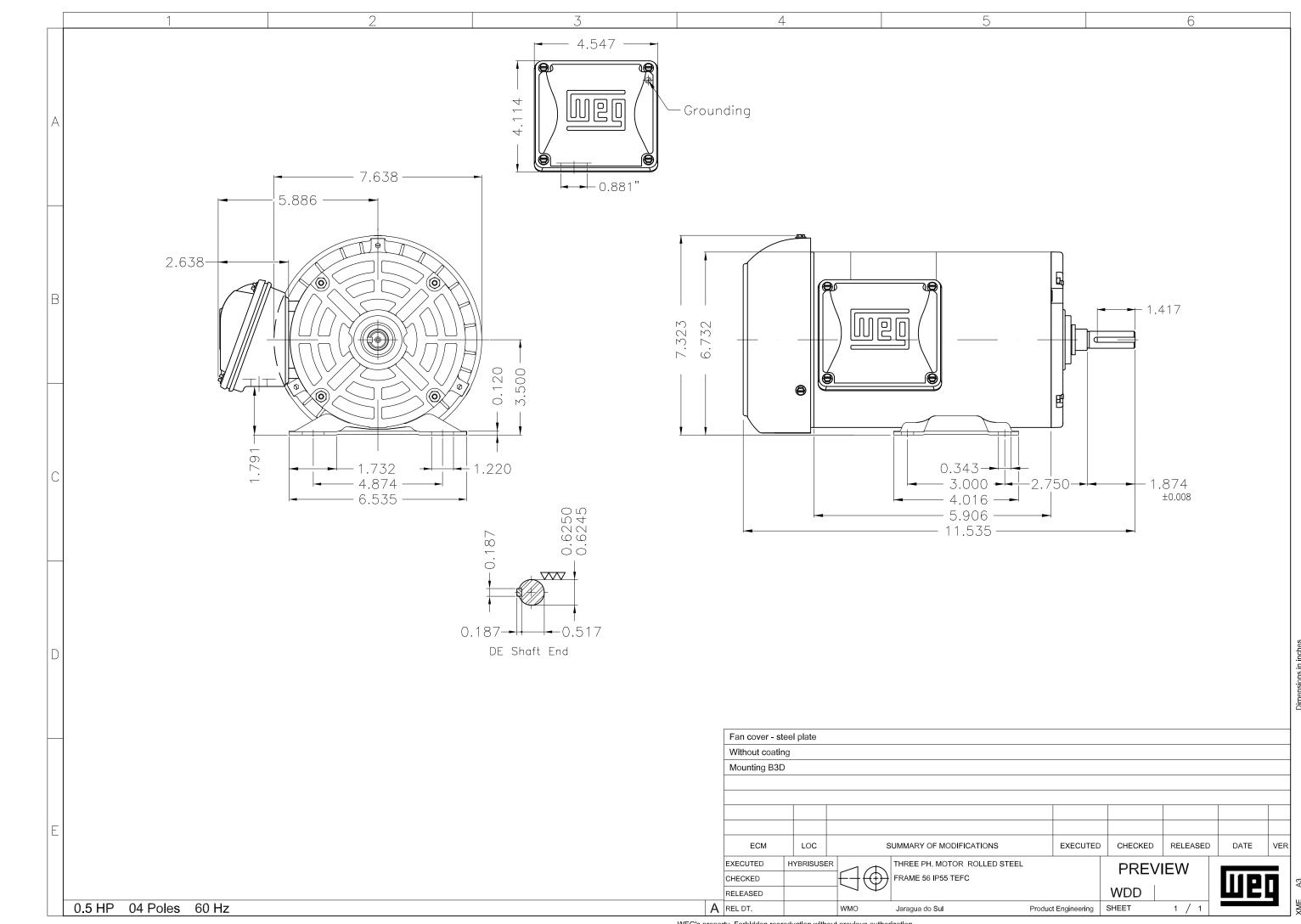
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SAFE AREA

3PT9

NO1.TEOICOXOX 14796996 MADE IN BRAZIL

MODEL .5018ES3E56-S ä 5AUG2022

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1

> 8 4 CONT

26

1000 m.a.s.l

P55

F AT 80K

NSC INC. W

1.91-1.72/0.862 1.91-1.98/0.991 208-230/460

1.15

CODE SH SF1.00

> TEFC 20°C

ZPM 3FA 냃 쌆

0.50HP

77.0%

NOM EFF NEMA

1445RPM 50 Hz 8202-ZZ

1.90-1,81/0.950-0,962A

ALTERNATE RATING:

SABLE @ 208V

190-220/380-415V

IEC 60034-1

(IE2)

SF1.15

For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT. 10:1 CT MOBIL POLYREX EM **EFF 75.4%**

9

2

ODE

8203-ZZ

牌

T2-WHT

13-ORG 1-810 T5-BLK

F6-GRY r4-YEL





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

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

shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical