DATA SHEET

Three Phase Induction Motor - Squirrel Cage



: Automation Direct Customer

Product line : Standard Efficiency Three-Phase Product code: 14796862

> Catalog #: .2518ES3E56C-S

Frame : 56C

Output : 0.25 HP (0.18 kW)

Poles : 4 Frequency : 60 Hz

Rated voltage : 208-230/460 V Rated current : 1.15-1.04/0.521 A L. R. Amperes : 7.26-6.56/3.28 A

LRC : 6.3x(Code M) No load current : 0.776-0.900/0.450 A

Rated speed : 1765 rpm Slip : 1.94 % : 0.744 ft.lb

Rated torque Locked rotor torque : 240 % Breakdown torque : 300 % : F Insulation class Service factor : 1.15

Moment of inertia (J) : 0.0453 sq.ft.lb Locked rotor time

: 68s (cold) 38s (hot) Temperature rise : 80 K

Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l.

Protection degree : IP55

Cooling method : IC411 - TEFC Mounting : F-1

: Both (CW and CCW) Rotation¹

Noise level² : 52.0 dB(A) Starting method : Direct On Line

Approx. weight³ : 18.9 lb

75% 25% 100% Output 50% Foundation loads 66.0 70.0

Efficiency (%) 54.4 57.5 Max. traction : 20 lb : 39 lb Power Factor 0.24 0.43 0.54 0.62 Max. compression

Non drive end Drive end 6203 ZZ Bearing type 6202 ZZ Without Bearing Seal Sealing V'Ring

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

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

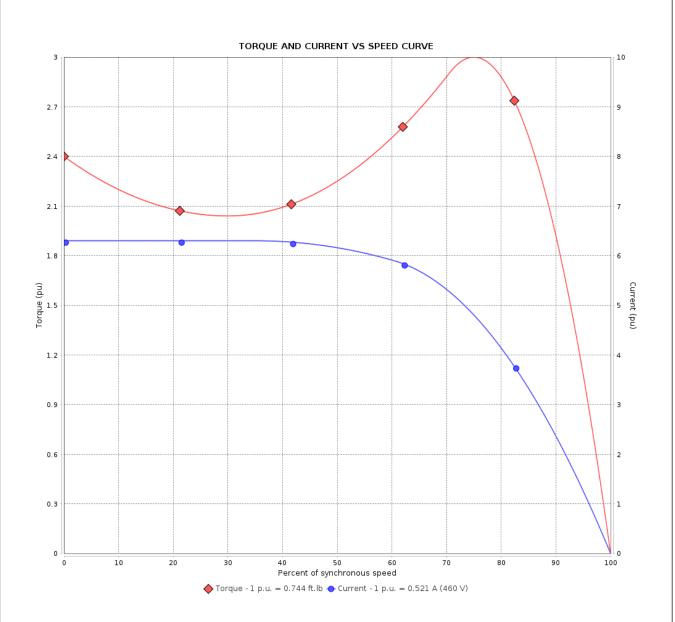
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 Performance
 : 208-230/460 V 60 Hz 4P

 Rated current
 : 1.15-1.04/0.521 A
 Moment of inertia (J)
 : 0.0453 sq.ft.lb

 LRC
 : 6.3
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 0.744 ft.lb
 Insulation class
 : F

Locked rotor torque : 240 % Service factor : Breakdown torque : 300 % Temperature rise : 80 K

Locked rotor time : 68s (cold) 38s (hot)

: 1765 rpm

Rated speed

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LOAD PERFORMANCE CURVE

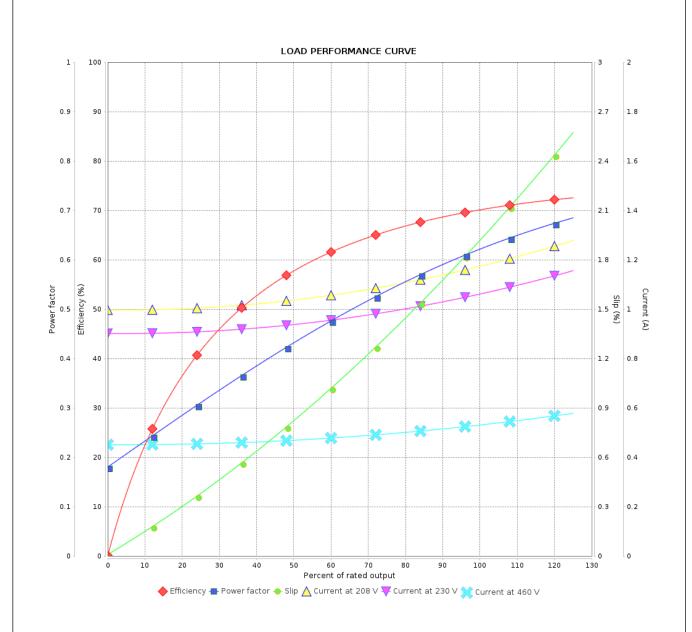
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THERMAL LIMIT CURVE

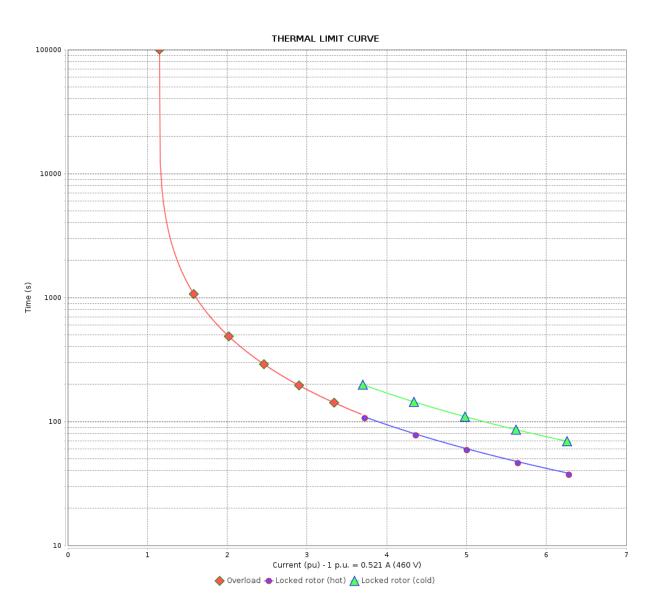
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Performance	: 208-230/460 V 60 Hz 4P		
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Heating constant			
Cooling constant			
_			

Cooling Constan	ι				
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VFD OPERATION CURVE

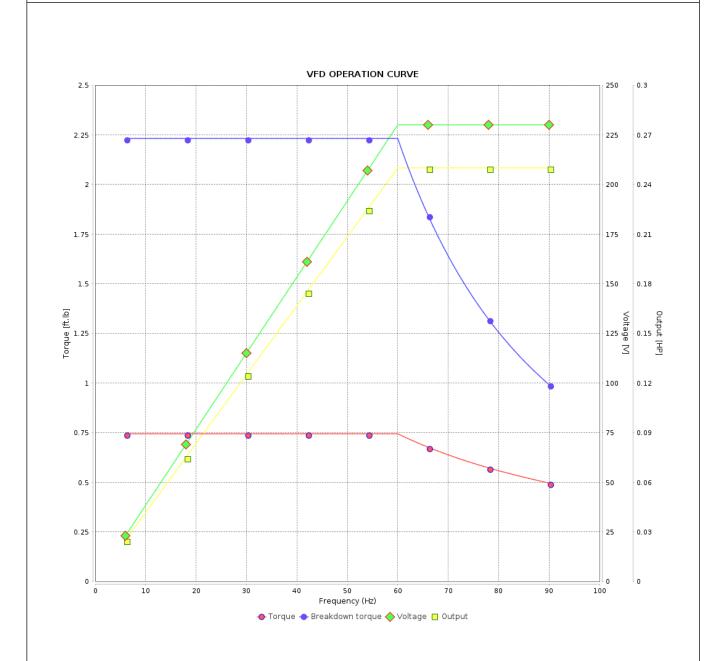
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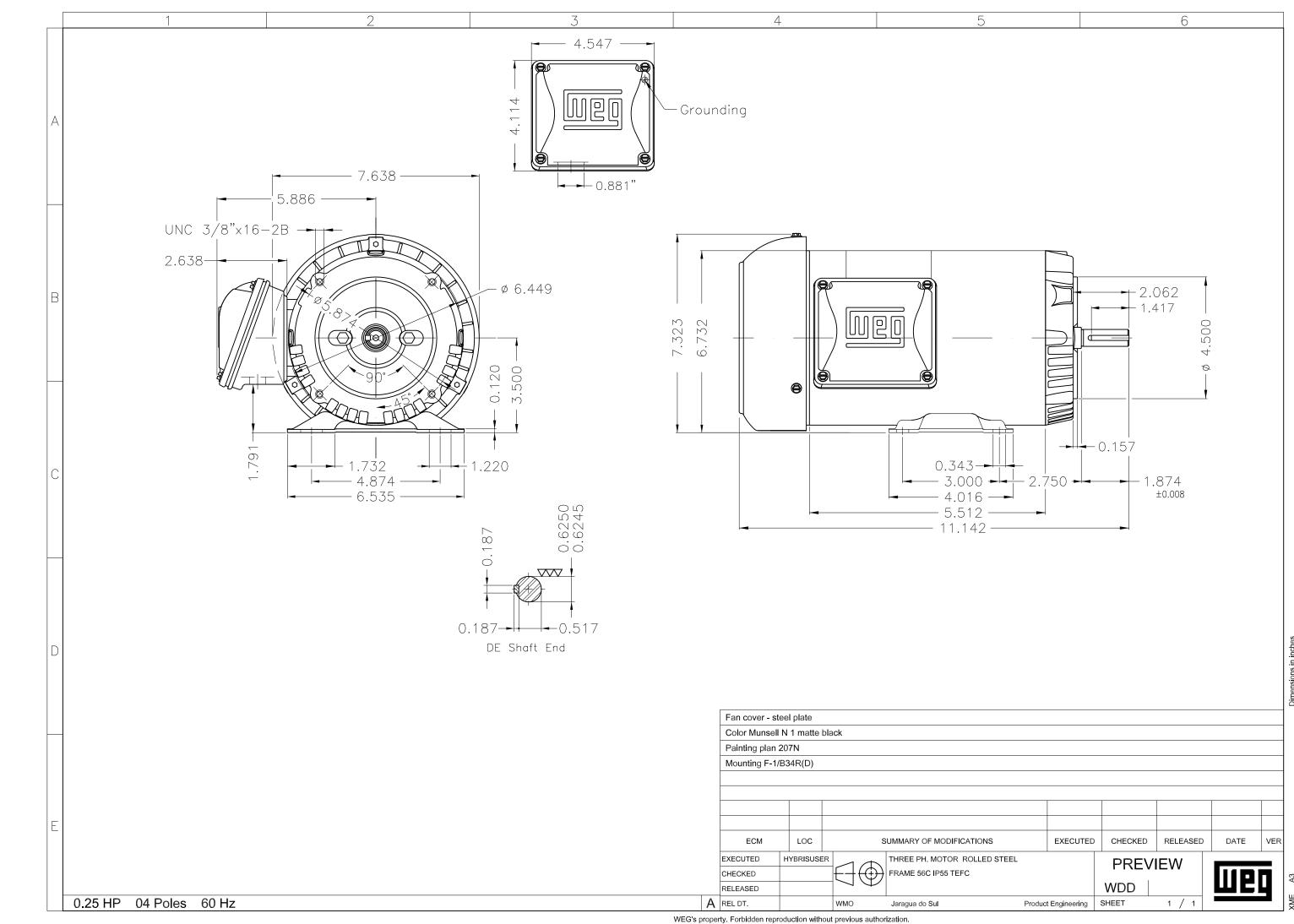


Performance	: 208-230/460 V 60 HZ 4P				
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22/08/2022

Date





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UL)US LISTED

SAFE AREA

FOR

3PT9

MADE IN BRAZIL

NO1.TEOICOXOX 14796862

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

> MODEL .2518ES3E56C-S 8 8 B 4 **I6AUG2022** 56C

CONT

1000 m.a.s.l F AT 80K

1.15-1.20/0.599 1.15-1.04/0.521 208-230/460

1.15

P55 CODE SH SF1.00

ZPM 3FA 냃 쌆

0.25HP

NOM. EFF 70.0% NEMA 1455RPM 50 Hz

1.13-1.10/0.564-0.585A

ALTERNATE RATING:

SABLE @ 208V

TEFC 20°C

NSC INC. W

IEC 60034-1

(IE2)

SF1.15

190-220/380-415V

8202-ZZ

ODE

8203-ZZ

牌

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2

For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT. 10:1 CT **EFF 67.9%**

MOBIL POLYREX EM

T2-WHT

1-810

I7-PNK

shocks. Disconnect power source before servicing unit. 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

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

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

T8-RED F6-GRY r4-YEL T9-RRK RFD 13-ORG T5-BLK

AVERTISSEMENT: Le moteur doit être mis à la terre