### **DATA SHEET**

Customer

#### Three Phase Induction Motor - Squirrel Cage

: Automation Direct

: F

: 1.15



Product line : Standard Efficiency Three-Phase Product code: 14797711 Catalog #: .7518ES3E56C-S : 56C Frame Locked rotor time : 30s (cold) 17s (hot) Output : 0.75 HP (0.550 kW) Temperature rise : 80 K Poles : 4 Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 208-230/460 V Altitude : 1000 m.a.s.l. Protection degree Rated current : 2.70-2.44/1.22 A : IP55 Cooling method : IC411 - TEFC L. R. Amperes : 18.6-16.8/8.42 A **LRC** : 6.9x(Code K) Mounting : F-1 : Both (CW and CCW) No load current : 1.55-1.80/0.900 A Rotation<sup>1</sup>

Rated speed : 1755 rpm Noise level<sup>2</sup> : 52.0 dB(A) Slip : 2.50 % Starting method : Direct On Line Rated torque : 2.24 ft.lb Approx. weight<sup>3</sup> : 23.5 lb Locked rotor torque : 240 % Breakdown torque : 300 %

Moment of inertia (J) : 0.0648 sq.ft.lb

Output 25% 50% 75% 100% Foundation loads

Efficiency (%) 70.4 72.0 77.0 78.5 Max. traction : 65 lb : 89 lb Power Factor 0.26 0.48 0.61 0.72 Max. compression Non drive end Drive end

Bearing type : 6203 ZZ 6202 ZZ
Sealing : V'Ring Without Bearing Seal
Lubrication interval : - -

Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V SF 1.00

Insulation class Service factor

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

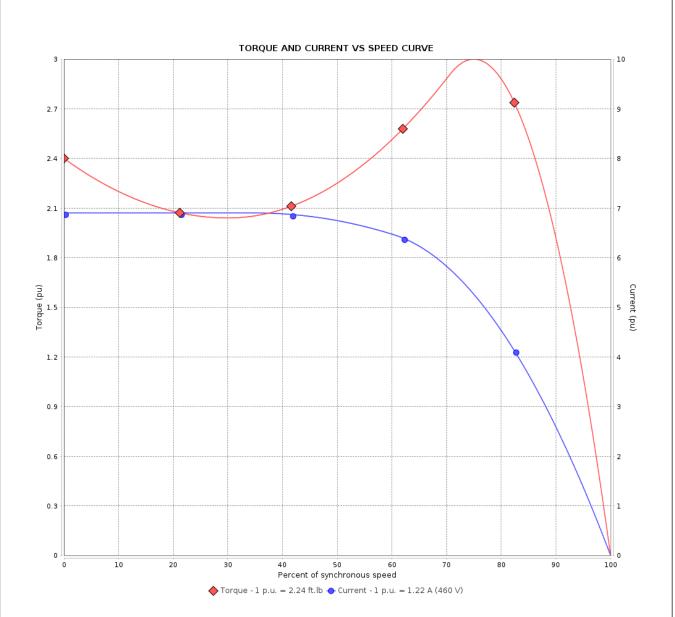
### Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Standard Efficiency Three-Phase Product code : 14797711

Catalog # : .7518ES3E56C-S



Performance	: 208-230/460 V 60 Hz 4P			
Rated current	: 2.70-2.44/1.22 A	Moment of inertia (J)	: 0.0648 sq.ft.lb	
LRC	: 6.9	Duty cycle	: Cont.(S1)	
Rated torque	: 2.24 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	:	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1755 rpm			

Locked rotor time : 30s (cold) 17s (hot)

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# LOAD PERFORMANCE CURVE

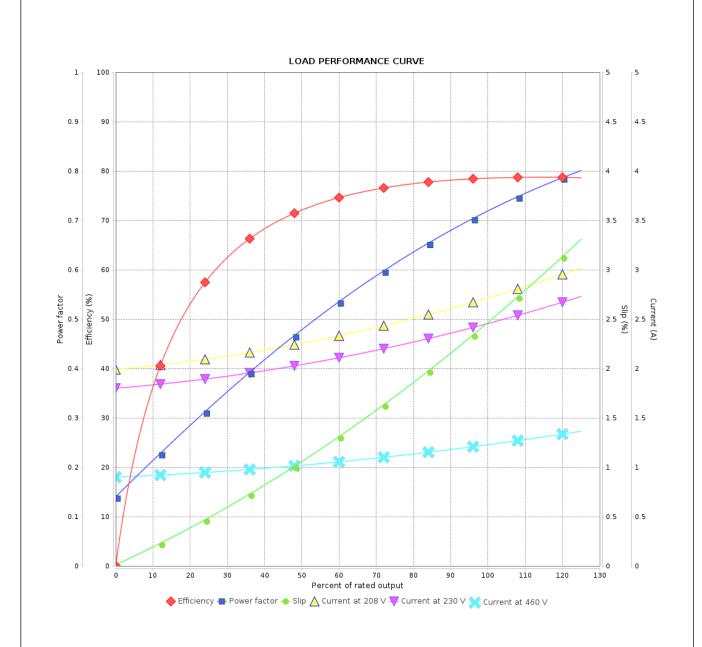
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Performance	: 208-230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.70-2.44/1.22 A : 6.9 : 2.24 ft.lb : 240 % : 300 % : 1755 rpm	Moment of Duty cycle Insulation Service fac Temperatu	class	: 0.0648 sq.ft. : Cont.(S1) : F : : 80 K	lb
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Date

# THERMAL LIMIT CURVE

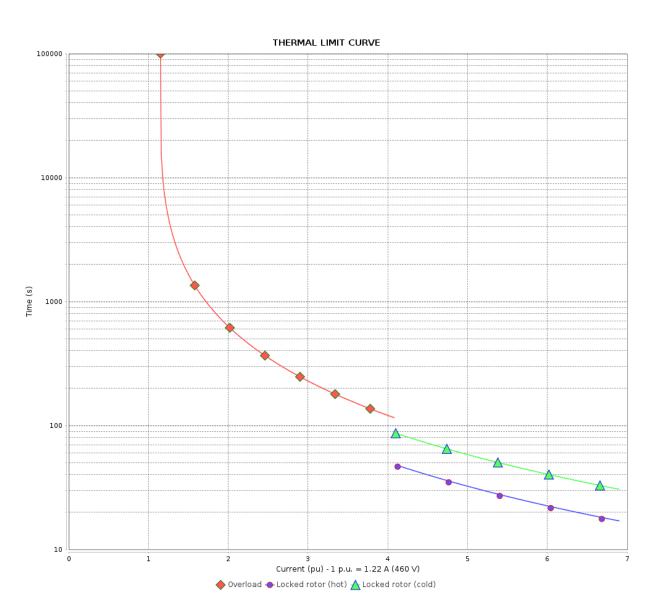
#### Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Standard Efficiency Three-Phase Product code : 14797711

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Performance	: 208-230/460 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.70-2.44/1.22 A : 6.9 : 2.24 ft.lb : 240 % : 300 % : 1755 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.0648 sq.ft.lb : Cont.(S1) : F : : 80 K	
Heating constant				
Cooling constant				

Cooling Constan	ι				
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# VFD OPERATION CURVE

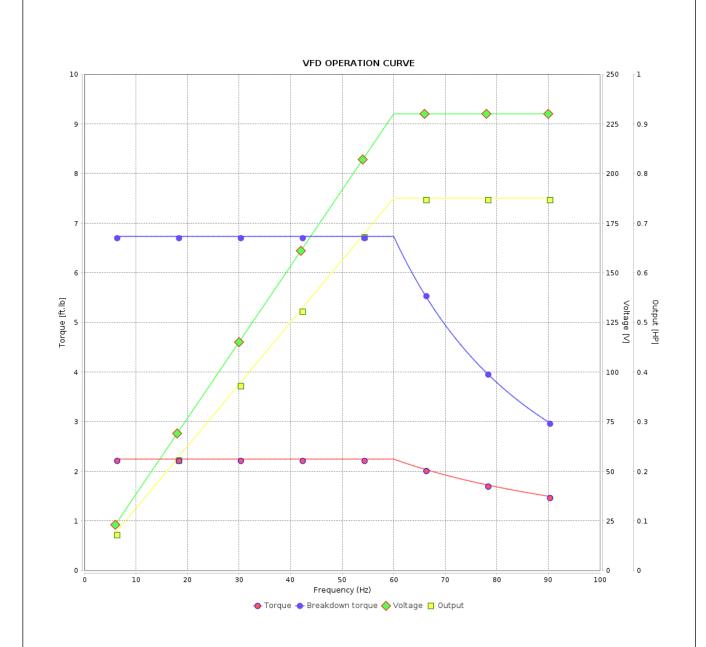
## Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

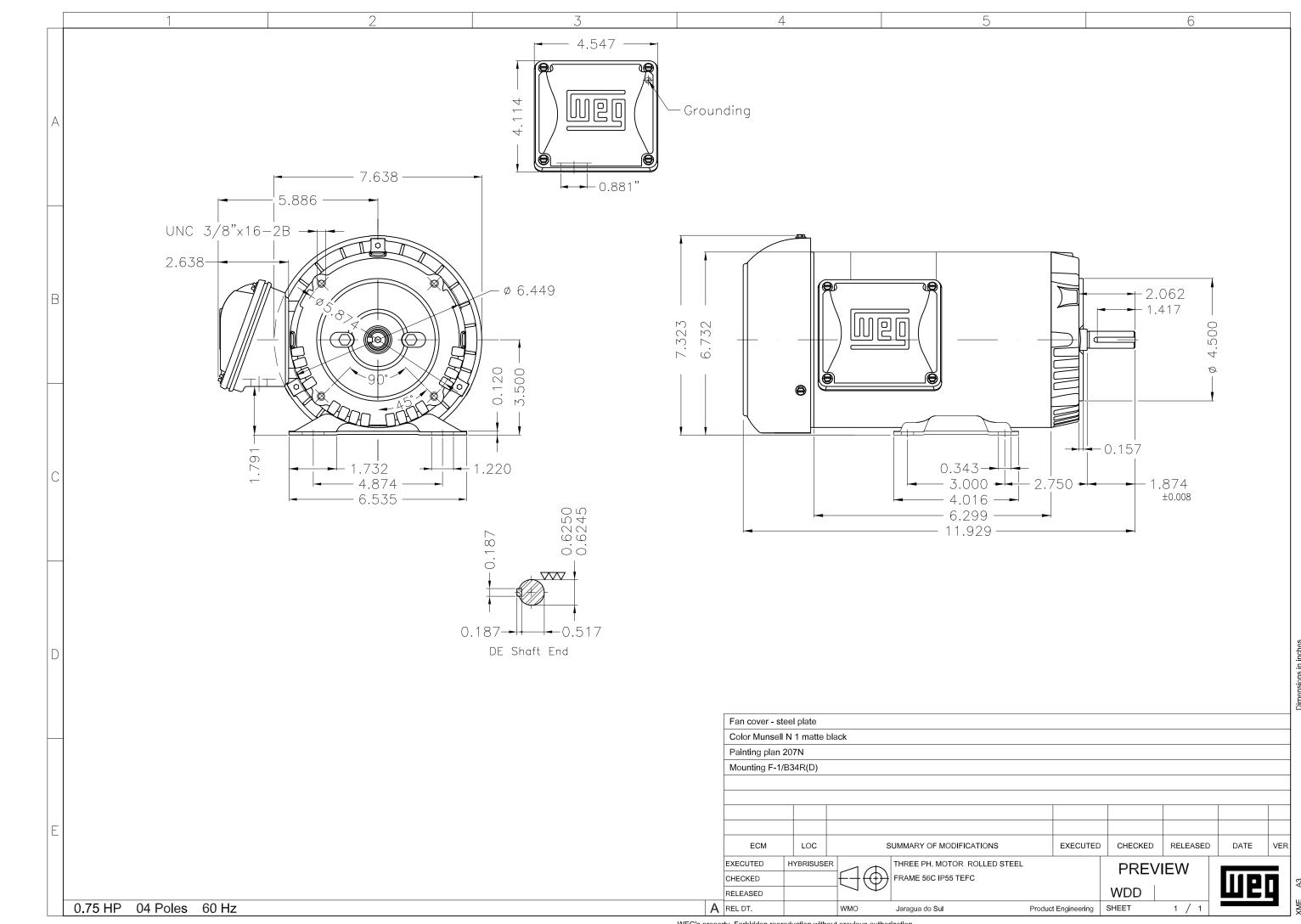
Product line : Standard Efficiency Three-Phase Product code : 14797711

Catalog #: .7518ES3E56C-S



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Performance	: 208-230/460 V 60 Hz 4P		
Rated current	: 2.70-2.44/1.22 A	Moment of inertia (J)	: 0.0648 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 2.24 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	:
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1755 rpm		

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**UL)**US LISTED

SAFE AREA

3PT9

MADE IN BRAZIL

MODEL .7518ES3E56C-S 8 B NO1.TEOICOXOX 14797711 6AUG2022

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

1000 m.a.s.l

56C

P55 CODE SHOP

2.70-2.81/1.40 208-230/460

> 3FA 냃

> > F AT 80K

NSC INC. W

1.15 0.72

쌆

SF1.00

SABLE @ 208V

TEFC 20°C

1440RPM ZPM 50 Hz

NOM EFF NEMA

78.5%

190-220/380-415V **EFF 78.1%** 

IEC 60034-1

E 1

SF1.15

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 10:1 CT MOBIL POLYREX EM

8202-ZZ 0.75HP

ODE

8203-ZZ

牌

2.74-2.80/1.37-1.38A

ALTERNATE RATING:

9

2

T2-WHT

13-ORG 1-810 I7-PNK T5-BLK

T9-RRK RFD

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

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

T8-RED F6-GRY r4-YEL

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