### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



: 55s (cold) 31s (hot)

: 80 K

: IP55

: F-1

: Cont.(S1)

: -20°C to +40°C

: 1000 m.a.s.l.

: IC411 - TEFC

: 52.0 dB(A)

: 20.4 lb

: Direct On Line

: Both (CW and CCW)

Customer : Automation Direct

Product line : Standard Efficiency Three-Phase Product code : 14796940

Catalog # : .3318ES3E56C-S

Locked rotor time

Temperature rise

Protection degree

Cooling method

Starting method

Approx. weight<sup>3</sup>

Ambient temperature

Duty cycle

Altitude

Mounting

Rotation<sup>1</sup>

Noise level<sup>2</sup>

Frame : 56C

Output : 0.33 HP (0.25 kW)

Poles : 4 Frequency : 60 Hz

Rated voltage : 208-230/460 V Rated current : 1.38-1.25/0.624 A

L. R. Amperes : 9.80-8.86/4.43 A LRC : 7.1x(Code M)

No load current : 0.810-0.940/0.470 A

Rated speed : 1765 rpm Slip : 1.94 % Rated torque : 0.982 ft.lb

Locked rotor torque : 229 %
Breakdown torque : 300 %
Insulation class : F
Service factor : 1.15

25%

Moment of inertia (J) : 0.0517 sq.ft.lb

75% 100% Foundation loads

Efficiency (%) 62.0 64.0 72.0 74.0 Max. traction : 27 lb Power Factor 0.26 0.47 0.58 0.68 Max. compression : 47 lb

Drive end<br/>Bearing typeNon drive end<br/>6203 ZZSealing:6203 ZZV'RingWithout Bearing Seal

Lubricant amount : -

50%

Lubricant amount : Lubricant type : Mobil Polyrex EM

Notes

Output

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.

Rev.	Rev. Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	22/08/2022			1/5	

### TORQUE AND CURRENT VS SPEED CURVE

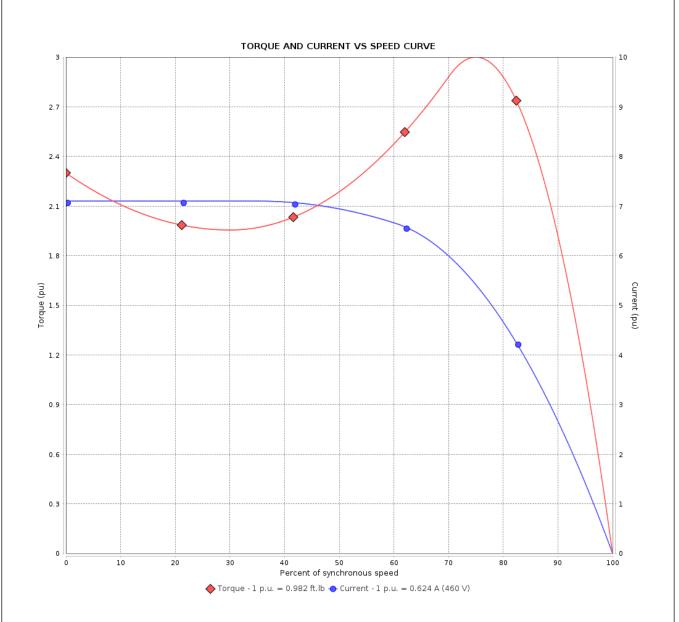
#### Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Standard Efficiency Three-Phase Product code : 14796940

Catalog #: .3318ES3E56C-S



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

Rated torque : 0.982 ft.lb Insulation class : F
Locked rotor torque : 229 % Service factor :
Breakdown torque : 300 % Temperature rise : 80 K

Locked rotor time : 55s (cold) 31s (hot)

: 1765 rpm

Rated speed

Lookou rotor tiirri		. 555 (55.5) 5.15 (1.51)						
Rev.	Changes Summary		Performed	Checked	Date			
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Date	22/08/2022			2/5				

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

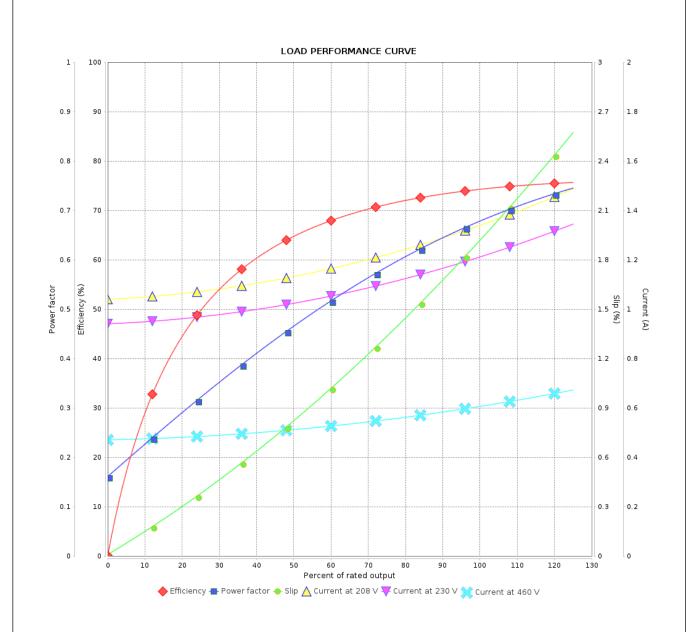


Customer : Automation Direct

Performed by

Product line : Standard Efficiency Three-Phase Product code: 14796940

.3318ES3E56C-S Catalog #:



Performance		: 208-230/460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 1.38-1.25/0.624 A : 7.1 : 0.982 ft.lb : 229 % : 300 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0517 sq.ft.lb : Cont.(S1) : F : : 80 K		
Rev. Changes Summary		'	Performed	Checked	Date		

Checked by			Page	Revision			
Date	22/08/2022		3/5				
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# THERMAL LIMIT CURVE

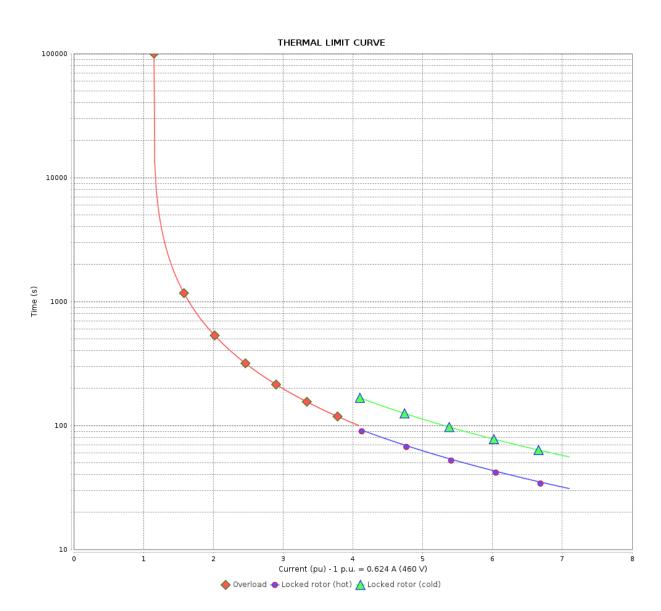
#### Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Standard Efficiency Three-Phase Product code : 14796940

Catalog #: .3318ES3E56C-S



Performance : 208-230/460 V 60 Hz 4P : 1.38-1.25/0.624 A Moment of inertia (J) : 0.0517 sq.ft.lb Rated current **LRC** Duty cycle : Cont.(S1) : 7.1 Insulation class : 0.982 ft.lb Rated torque : F Locked rotor torque : 229 % Service factor : 80 K : 300 % Breakdown torque Temperature rise Rated speed : 1765 rpm Heating constant

 Cooling constant

 Rev.
 Changes Summary
 Performed
 Checked
 Date

 Performed by
 Page
 Revision

 Date
 22/08/2022
 4 / 5

# VFD OPERATION CURVE

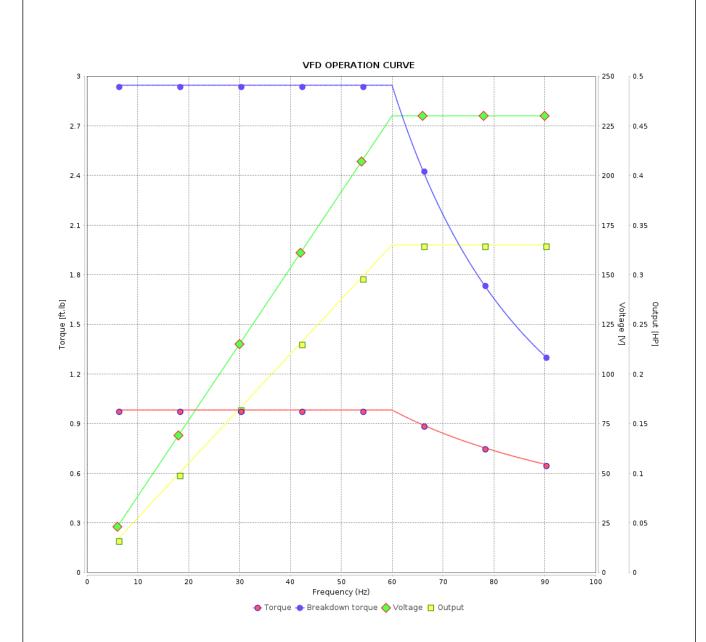
## Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

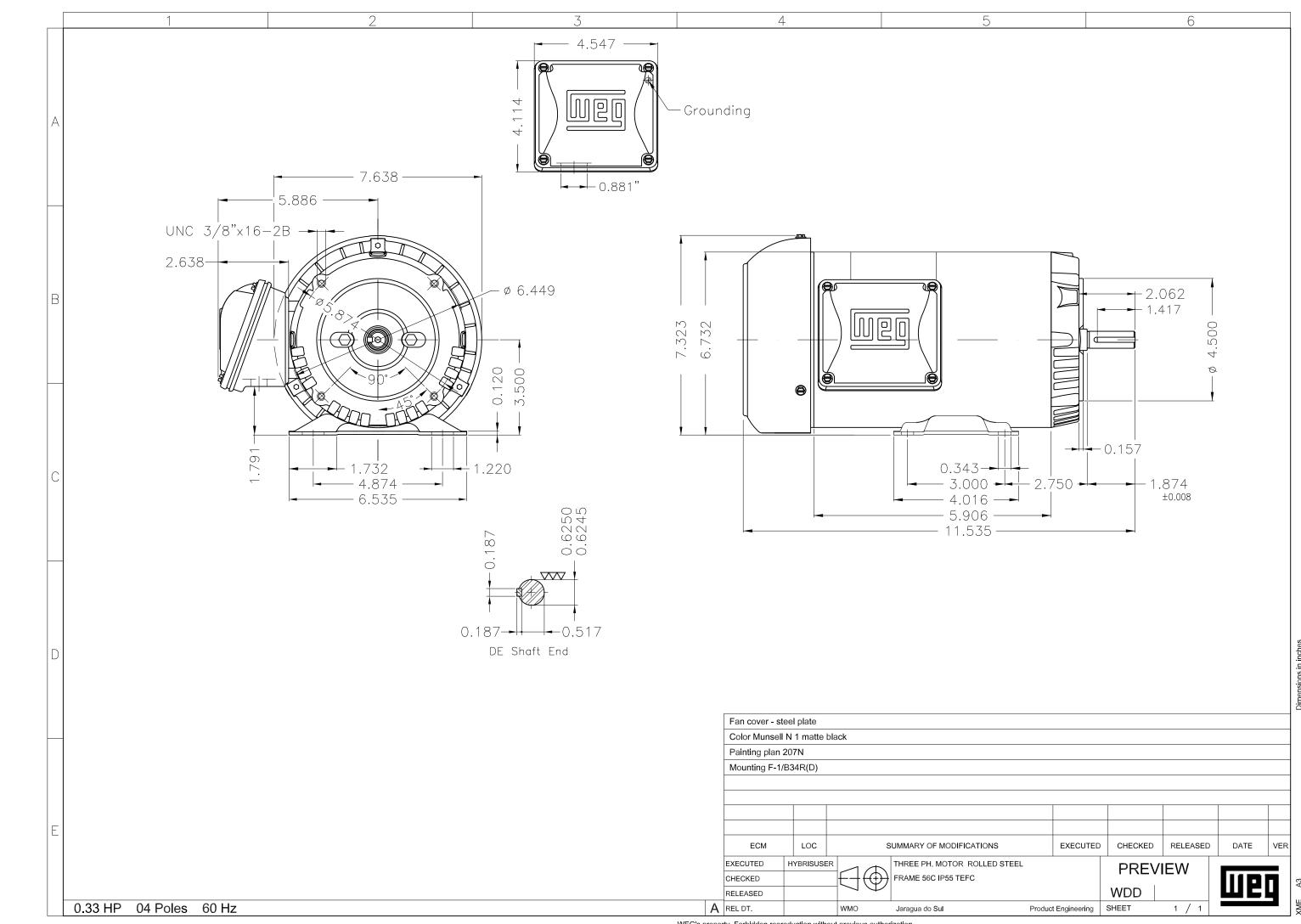
Product line : Standard Efficiency Three-Phase Product code : 14796940

Catalog #: .3318ES3E56C-S



Performance	: 208-230/460 V 60 Hz	: 208-230/460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 0.0517 sq.ft. : Cont.(S1) : F : : 80 K	lb				
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Rev.		Changes Summary	Performed	Checked	Date
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Checked by				Page	Revision
Date	22/08/2022			5/5	





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**UL)**US LISTED

SAFE AREA

3PT9

MODEL .3318ES3E56C-S NO1.TEOICOXOX 14796940 MADE IN BRAZIL

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 8 B 4 5AUG2022 56C

1000 m.a.s.l CONT

F AT 80K

1.38-1.25/0.62 208-230/460

1.38-1 1.15

3FA 냃

> NSC INC. W

P55 CODE SH SF1.00

50 Hz 0.33HP

SABLE @ 208V

TEFC 20°C

NOM EFF ZPM 쌆

NEMA

74.0% 1455RPM

190-220/380-415V

1.38-1,30/0.678-0,690A

ALTERNATE RATING:

IEC 60034-1

(IE2)

SF1.00

For safe area-Inverter duty motor For 60Hz use on VPWM 1000:1 VT. 10:1 CT **EFF 73.1%** 

8202-ZZ

ODE

8203-ZZ

牌

9

2

MOBIL POLYREX EM

T2-WHT

1-810

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

T6-GRY T8-RED r4-YEL T9-RRK RFD 13-ORG I7-PNK T5-BLK

conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre

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