#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Premium Efficiency Three-Phase Product code : 14799273

Catalog #: 00336ET3E56C-S

Frame : 56HC Locked rotor time : 18s (cold) 10s (hot)

Output : 3 HP (2.2 kW) Temperature rise : 80 K
Poles : 2 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 : 230/460 V Altitude : 1000 m.a.s.l.
Rated current : 7.34/3.67 A Protection degree : IP55

L. R. Amperes : 68.3/34.1 A Cooling method : IC411 - TEFC

LRC : 9.3x(Code L) Mounting : F-1

No load current : 2.70/1.35 A Rotation¹ : Both (CW and CCW)
Rated speed : 3505 rpm Noise level² : 68.0 dB(A)

Starting method : Direct On Line

Slip : 2.64 % Starting method : Direct On Line Rated torque : 4.49 ft.lb Approx. weight³ : 46.8 lb

Locked rotor torque : 280 %
Breakdown torque : 380 %
Insulation class : F

Moment of inertia (J) : 0.1663 sq.ft.lb

Design : B

 Output
 25%
 50%
 75%
 100%
 Foundation loads

 Efficiency (%)
 78.7
 81.0
 84.0
 86.5
 Max. traction
 : 153 lb

Power Factor 0.48 0.71 0.82 0.87 Max. compression : 200 lb

Bearing type : 6204 ZZ 6202 ZZ
Sealing : V'Ring Without Bearing Seal

Lubrication interval : - -

Lubricant amount : - -

Lubricant type : Mobil Polyrex EM

: 1.15

Notes

Service factor

USABLE @208V 7.76A SF 1.00 SFA 7.76A

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

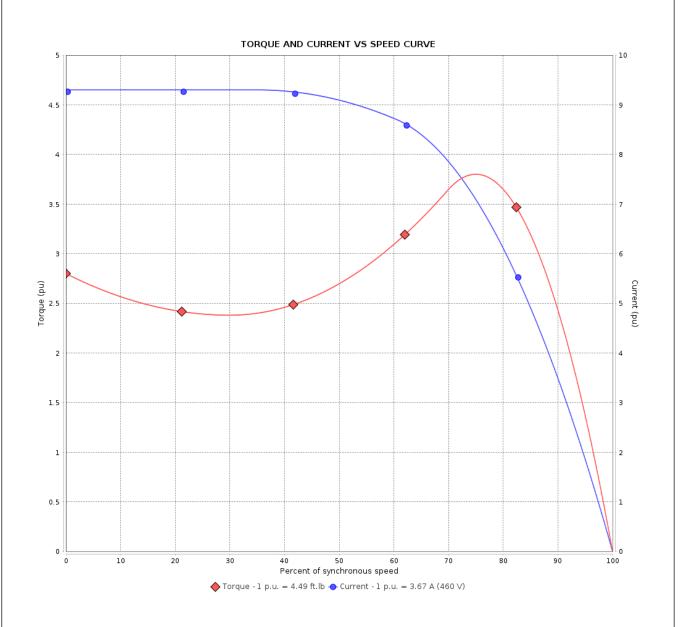
#### Three Phase Induction Motor - Squirrel Cage



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Performance	: 230/460 V 60 Hz 2P		
Rated current	: 7.34/3.67 A	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1663 sq.ft.lb
LRC	: 9.3		: Cont.(S1)
Rated torque	: 4.49 ft.lb		: F
Locked rotor torque	: 280 %		:
Breakdown torque	: 380 %		: 80 K
Rated speed	: 3505 rpm		: B

Locked rotor time : 18s (cold) 10s (hot)

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# LOAD PERFORMANCE CURVE

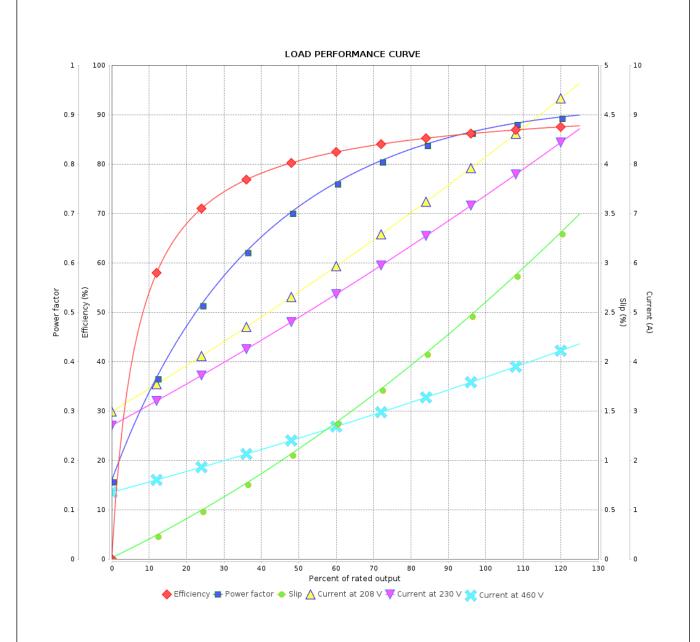
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Customer : Automation Direct

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> Catalog #: 00336ET3E56C-S



Performance		: 230/460 V 60 Hz 2P					
Rated current : 7		.34/3.67 A	A Moment of inertia (J)		: 0.1663 sq.ft.lb		
LRC : 9.3		.3	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque : 4.4		.49 ft.lb	Insulation	Insulation class		: F ` ´	
Locked rotor torque : 28		80 %	Service fa	Service factor		:	
Breakdown torque		80 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 3	3505 rpm Design			: B		
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## THERMAL LIMIT CURVE

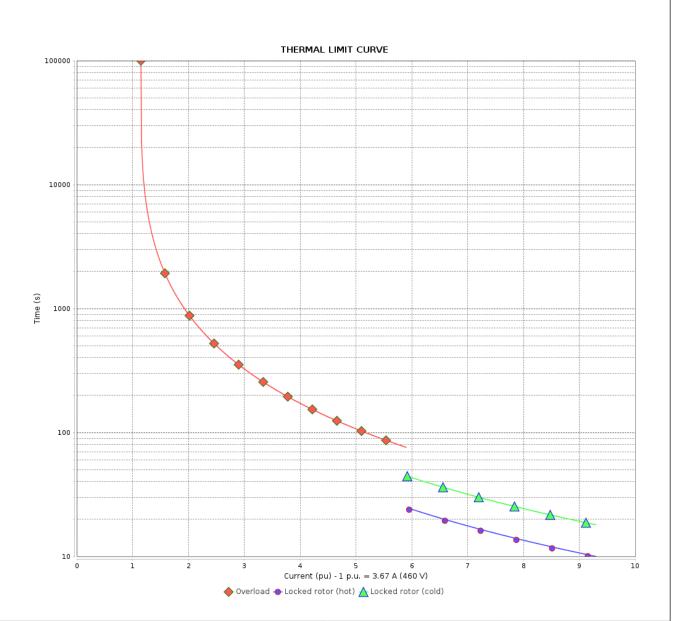
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Customer : Automation Direct

Product line : Premium Efficiency Three-Phase Product code: 14799273

> Catalog #: 00336ET3E56C-S



Performance : 230/460 V 60 Hz 2P : 7.34/3.67 A Moment of inertia (J) : 0.1663 sq.ft.lb Rated current **LRC** : 9.3 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 4.49 ft.lb Locked rotor torque : 280 % Service factor : 380 % : 80 K Breakdown torque Temperature rise Rated speed : 3505 rpm Design Heating constant

Cooling constant

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## VFD OPERATION CURVE

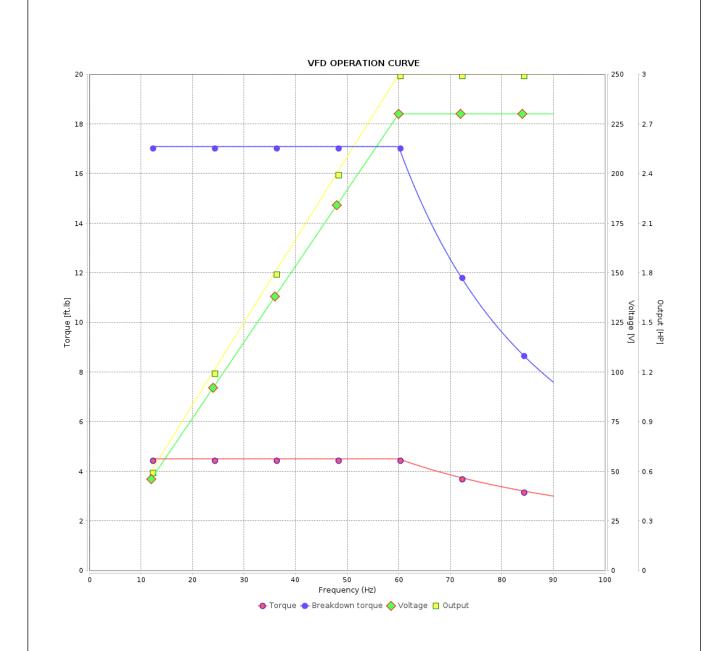
## Three Phase Induction Motor - Squirrel Cage



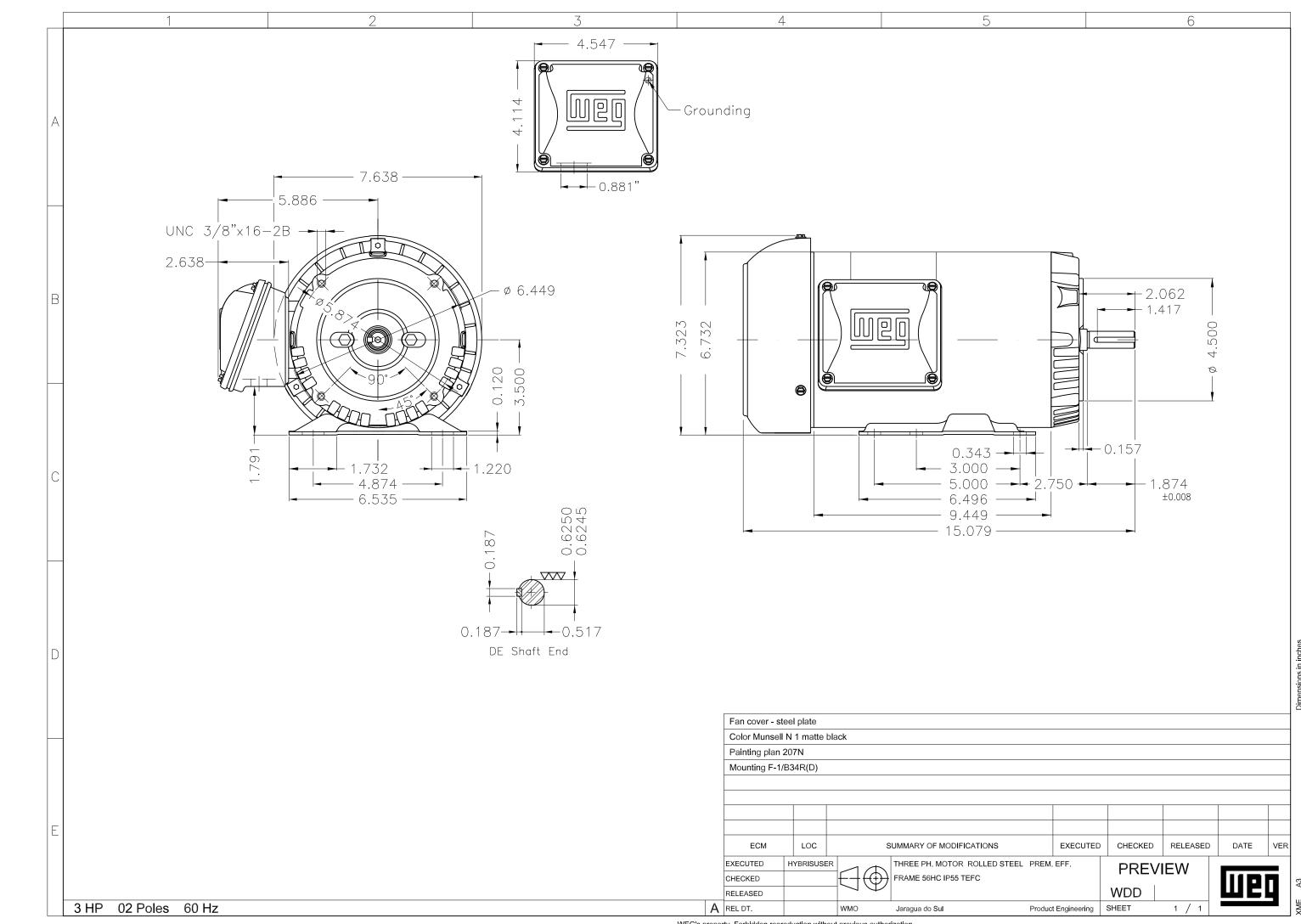
Customer : Automation Direct

Product line : Premium Efficiency Three-Phase Product code : 14799273

Catalog #: 00336ET3E56C-S



Performance		230/460 V 60 Hz 2P					
Rated current : 7.3		34/3.67 A	Moment o	Moment of inertia (J)		lb	
LRC : 9.3		3	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 4.	.49 ft.lb	Insulation class		: F		
Locked rotor torq	jue : 28	80 %	Service fa	Service factor		:	
Breakdown torque :		80 %	Temperati	Temperature rise		: 80 K	
Rated speed		505 rpm	Design	Design			
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FOR SAFE AREA

3PT9

Energy Verifi

MODEL 00336ET3E56C-S ë B NO1.TEOICOXOX 14799273 MADE IN BRAZIL 7AUG2022

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

> Hz 60 1000 m.a.s.l

56HC CONT

7.34/3.67 230/460

.15

P55

F AT 80K

NSC

CODE SH SABLE @ 208V 7.76A

TEFC 2°04

SPM 3FA 냃 쌆

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 5:1 CT 3.0HP 3.88-7.72/4.44-4.09A

ALTERNATE RATING:

SF1.00 INC. W

2870RPM 50 Hz ODE 6202-22

**EFF 84.6%** 

IEC 60034-1

SF1.15

190-220/380-415V

86.5%

NOM EFF

MOBIL POLYREX EM

9

2

8204-ZZ

T2-WHT

13-ORG 1-810 I7-PNK F5-BLK

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 and national electrical codes to prevent serious electrical

T8-RED F6-GRY r4-YEL

AVERTISSEMENT: Le moteur doit être mis à la terre

T9-RRK RFD

choc électrique grave. Déconnectez l'alimentation ayant l'entretien de la machine. conformément aux codes électriques locaux et nationaux ann d'éviter tout