### **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Premium Efficiency Three-Phase Product code : 14799000

Catalog # : 00158ET3E56C-S

Frame : 56HC Locked rotor time : 37s (cold) 21s (hot)

Output : 1.5 HP (1.1 kW) Temperature rise : 80 K

Poles : 4 Duty cycle : Cont.(S1)
Frequency : 60 Hz Ambient temperature : -20°C to +40°C
Rated voltage : 230/460 V Altitude : 1000 m.a.s.l.

Rated current : 4.04/2.02 A Protection degree : IP55

L. R. Amperes : 33.1/16.6 A Cooling method : IC411 - TEFC LRC : 8.2x(Code K) Mounting : F-1

No load current : 2.17/1.08 A Rotation¹ : Both (CW and CCW)
Rated speed : 1750 rpm Noise level² : 52.0 dB(A)

Slip : 2.78 % Starting method : Direct On Line
Rated torque : 4.50 ft.lb Approx. weight³ : 38.0 lb

Locked rotrorque : 4.50 ft.lb Approx. weight : 38.0 lb

Breakdown torque : 300 %

Insulation class : F

Design : B

 Output
 25%
 50%
 75%
 100%
 Foundation loads

 Efficiency (%)
 85.2
 85.5
 86.5
 86.5
 Max. traction
 : 143 lb

Power Factor 0.35 0.59 0.72 0.79 Max. compression : 181 lb

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

Lubrication interval : - -

Lubricant amount : - - Mobil Polyrex EM

: 1.15

: 0.1101 sq.ft.lb

Notes

Service factor

Moment of inertia (J)

USABLE @208V 4.47A SF 1.00 SFA 4.47A

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

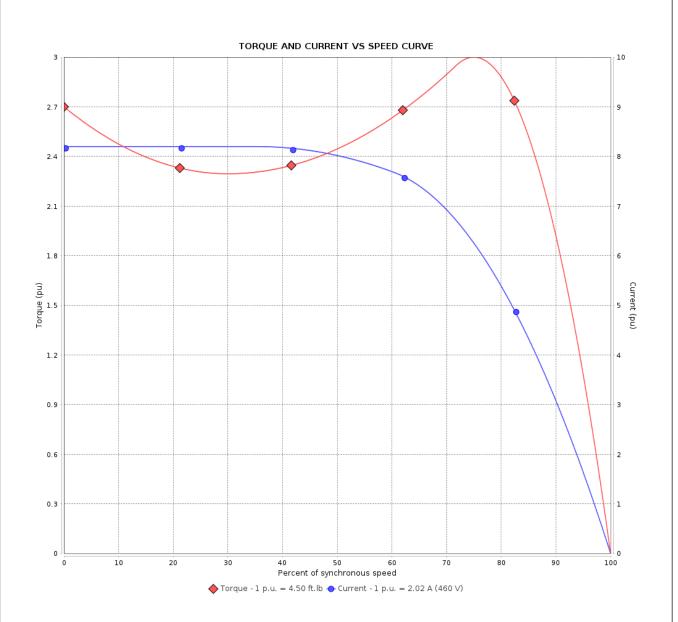
#### Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Premium Efficiency Three-Phase Product code : 14799000

Catalog #: 00158ET3E56C-S



Performance : 230/460 V 60 Hz 4P Rated current : 4.04/2.02 A Moment of inertia (J) : 0.1101 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) : 4.50 ft.lb Insulation class : F Rated torque : 270 % Service factor Locked rotor torque : 80 K Breakdown torque : 300 % Temperature rise Rated speed : 1750 rpm Design : B

Locked rotor time : 37s (cold) 21s (hot)

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# LOAD PERFORMANCE CURVE

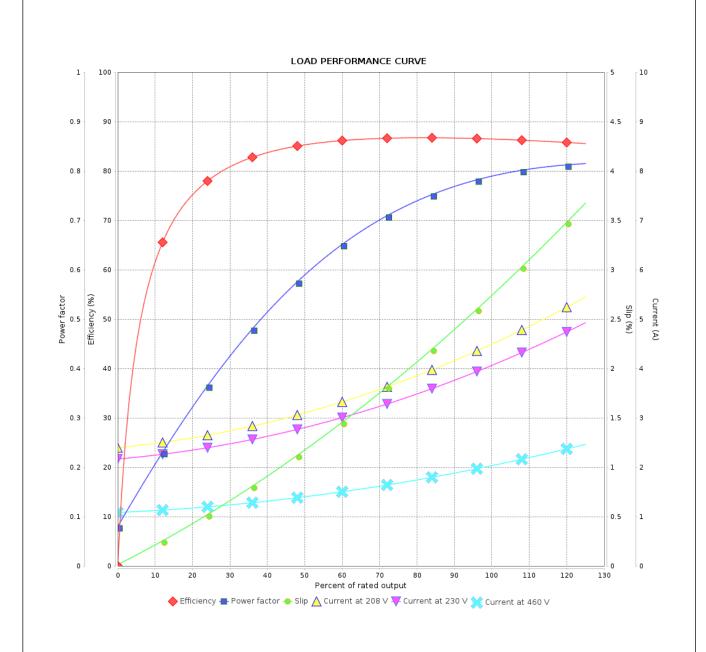
## Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Premium Efficiency Three-Phase Product code : 14799000

Catalog #: 00158ET3E56C-S



Performance	: 23	30/460 V 60 Hz 4P					
Rated current : 4.		04/2.02 A	Moment o	Moment of inertia (J)		: 0.1101 sq.ft.lb	
LRC : 8.		2	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque : 4.		50 ft.lb	Insulation	Insulation class		:F	
		70 %	Service fa	Service factor			
Breakdown torque : 3		00 %	Temperati	Temperature rise			
Rated speed	: 17	750 rpm	Design		: B		
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# THERMAL LIMIT CURVE

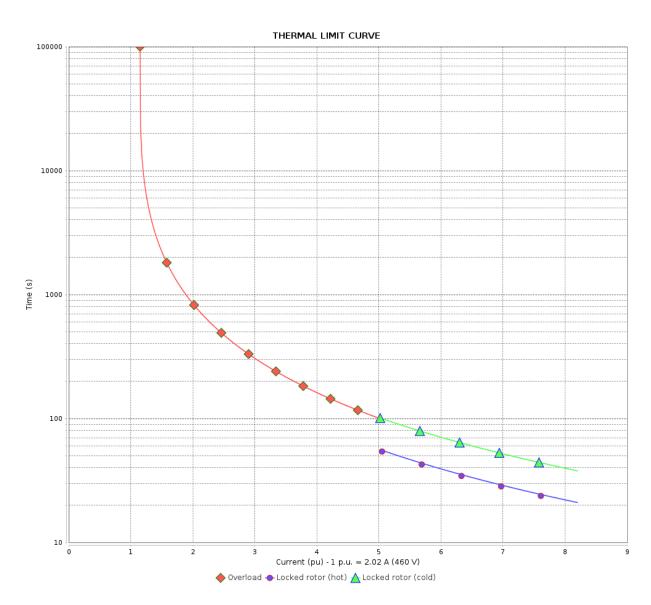
#### Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : Premium Efficiency Three-Phase Product code : 14799000

Catalog #: 00158ET3E56C-S



Performance : 230/460 V 60 Hz 4P : 4.04/2.02 A Moment of inertia (J) : 0.1101 sq.ft.lb Rated current **LRC** Duty cycle : Cont.(S1) : 8.2 : 4.50 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 300 % : 80 K Breakdown torque Temperature rise : B Rated speed : 1750 rpm Design Heating constant

 Cooling constant

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# VFD OPERATION CURVE

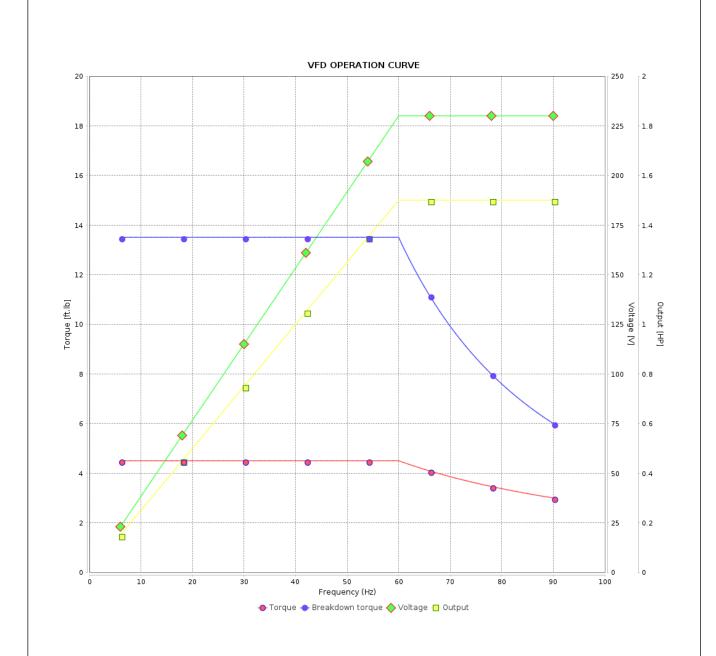
## Three Phase Induction Motor - Squirrel Cage



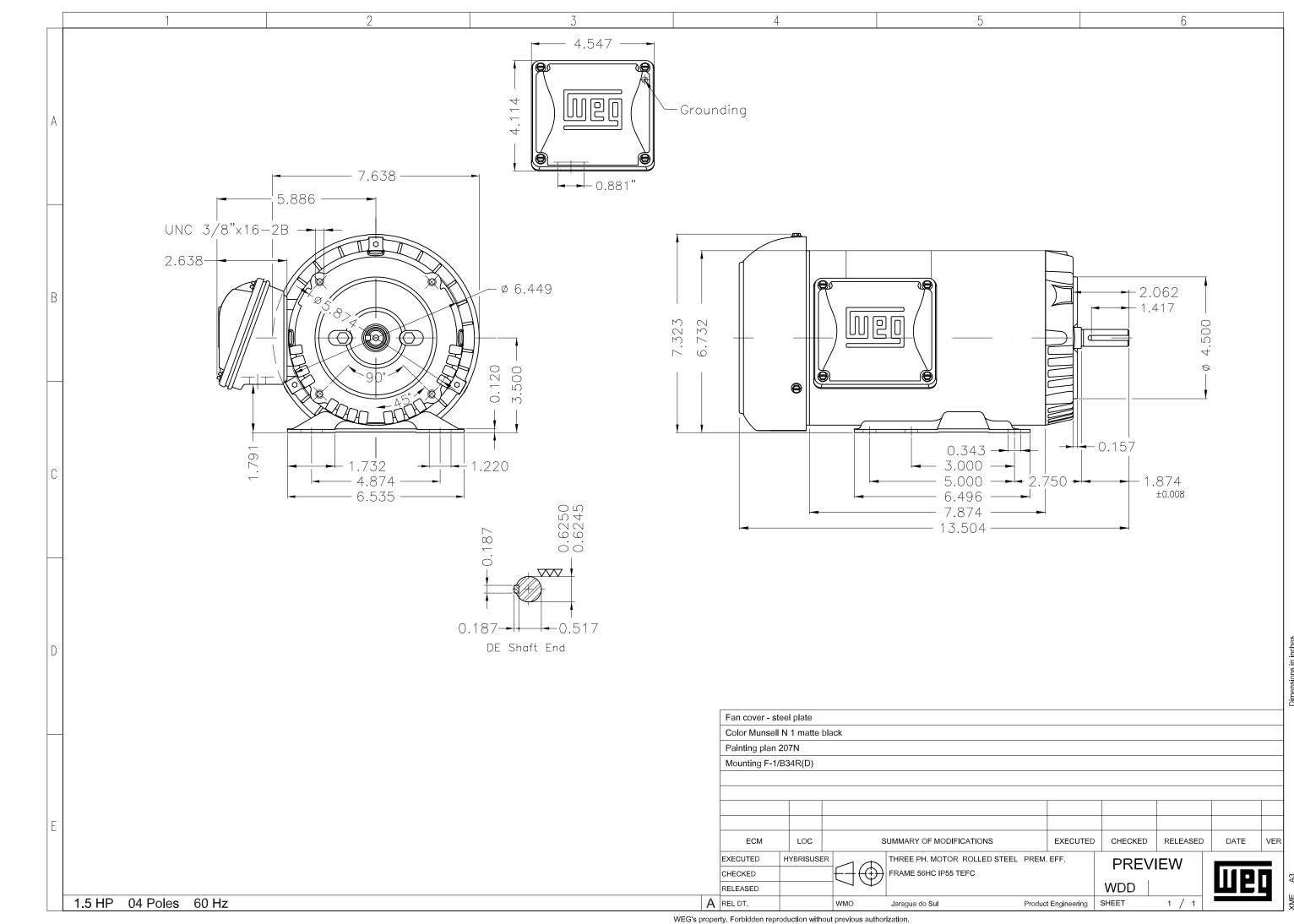
Customer : Automation Direct

Product line : Premium Efficiency Three-Phase Product code : 14799000

Catalog #: 00158ET3E56C-S



Performance	: 23	30/460 V 60 Hz 4P					
Rated current : 4.		.04/2.02 A	Moment of	Moment of inertia (J)		: 0.1101 sq.ft.lb	
LRC : 8.2		2	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque : 4.		.50 ft.lb	Insulation	Insulation class		: F	
Locked rotor torque : 27		70 %	Service fa	Service factor		:	
Breakdown torque		00 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 17	750 rpm	Design		: B		
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3PT9

Ž 14799000 MADE IN BRAZIL

MODEL 00158ET3E56C-S ë B NO1.TEOICOXOX 5AUG2022

Hz 60

56HC CONT

**&** Energy Verifi FOR SAFE AREA

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 1000:1 230/460

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 5:1 CT 13-ORG 1-810 MOBIL POLYREX EM

8202-ZZ 1.5HP

ODE

8204-ZZ

牌

9

2

IEC 60034-1

(IE2)

**EFF 82.7%** 

SF1.15

190-220/380-415V

86.5%

NOM EFF NEMA 1420RPM

50 Hz

4.82-4.28/2.41-2.27A

ALTERNATE RATING:

ZPM 3FA 냃 쌆

> CODE SHO

TEFC 20°C

SABLE @ 208V 4.47A

SF1.00 INC. W

1.65/2.32

P55

1000 m.a.s.l

F AT 80K

NSC

1.15

F5-BLK

T2-WHT

T8-RED F6-GRY r4-YEL

I7-PNK

T9-RRK RFD



NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local

shocks. Disconnect power source before servicing unit. and national electrical codes to prevent serious electrical

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.