DATA SHEET

Three Phase Induction Motor - Squirrel Cage



: Automation Direct Customer

Product line : Premium Efficiency Three-Phase Product code: 14786569

Catalog #: 00158ET3E56CFL-S

Frame : 56C 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

: 230/460 V Rated voltage Altitude : 1000 m.a.s.l. Rated current : 4.04/2.02 A Protection degree : IP55

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

: 2.17/1.08 A : Both (CW and CCW) No load current Rotation¹ 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 : 36.6 lb Locked rotor torque : 270 % Breakdown torque : 300 %

: F Insulation class

Design 25% 50% 75% 100% Foundation loads

Output 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 : 180 lb

Drive end Non drive end Bearing type 6204 ZZ 6202 ZZ V'Ring Without Bearing Seal

Lubrication interval

Lubricant amount

Lubricant type Mobil Polyrex EM

: 1.15

: 0.1101 sq.ft.lb

Sealing

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

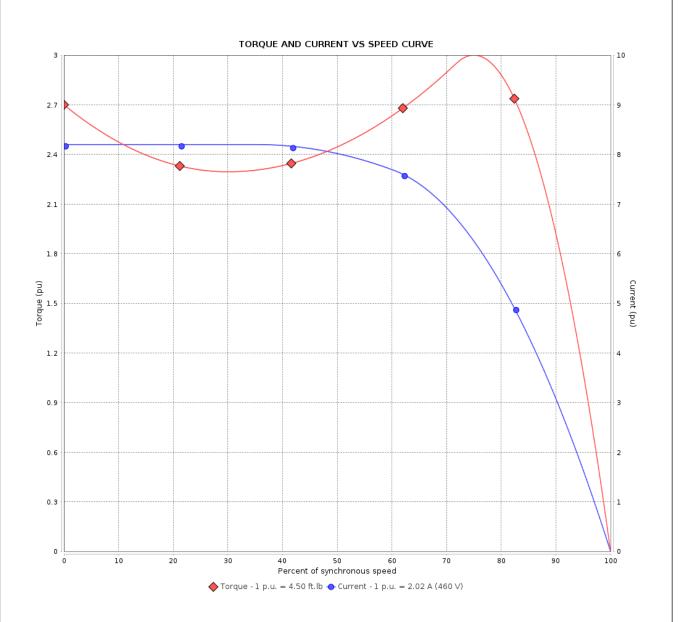
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Performance	: 230/460 V 60 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.04/2.02 A : 8.2 : 4.50 ft.lb : 270 % : 300 % : 1750 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature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

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

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LOAD PERFORMANCE CURVE

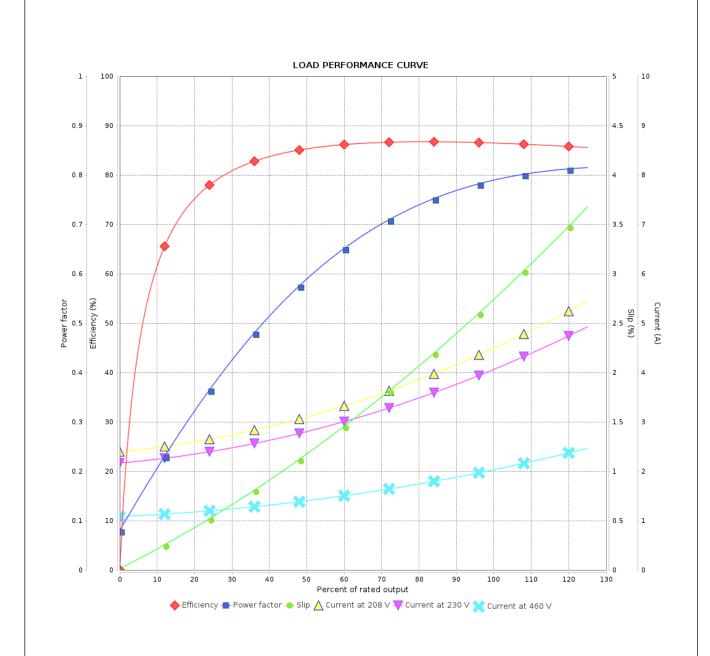
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Performance	:	230/460 V 60 Hz 4P				
Rated current	:	4.04/2.02 A	A Moment of inertia (J)		: 0.1101 sq.ft.lb	
LRC	:	8.2	Duty cycle		: Cont.(S1)	
Rated torque		4.50 ft.lb	Insulation	class	: F	
Locked rotor torque		270 %	Service fa	ctor	:	
Breakdown torque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

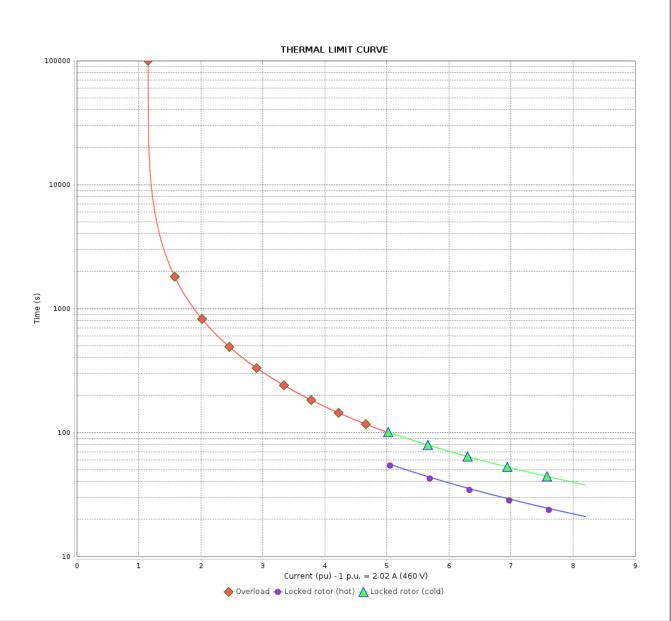
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Performance	: 230/460 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.04/2.02 A : 8.2 : 4.50 ft.lb : 270 % : 300 % : 1750 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature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

Cooling constant

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VFD OPERATION CURVE

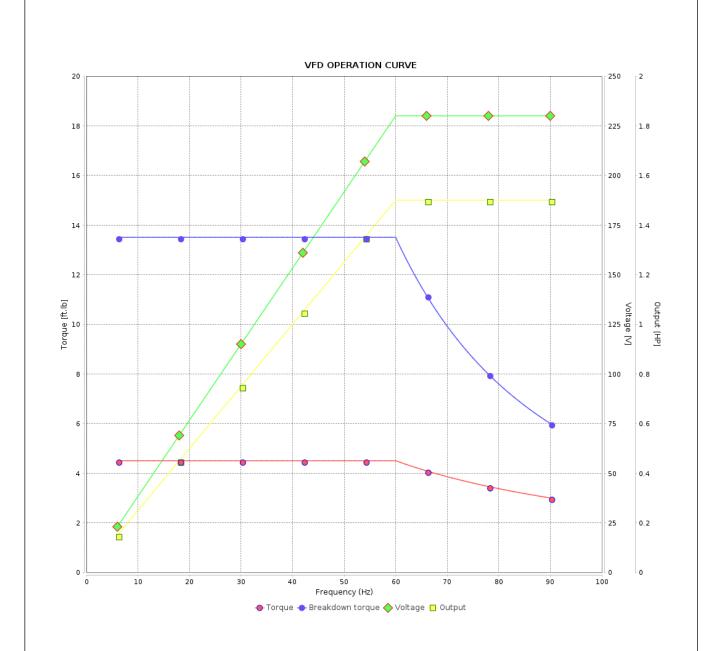
Three Phase Induction Motor - Squirrel Cage



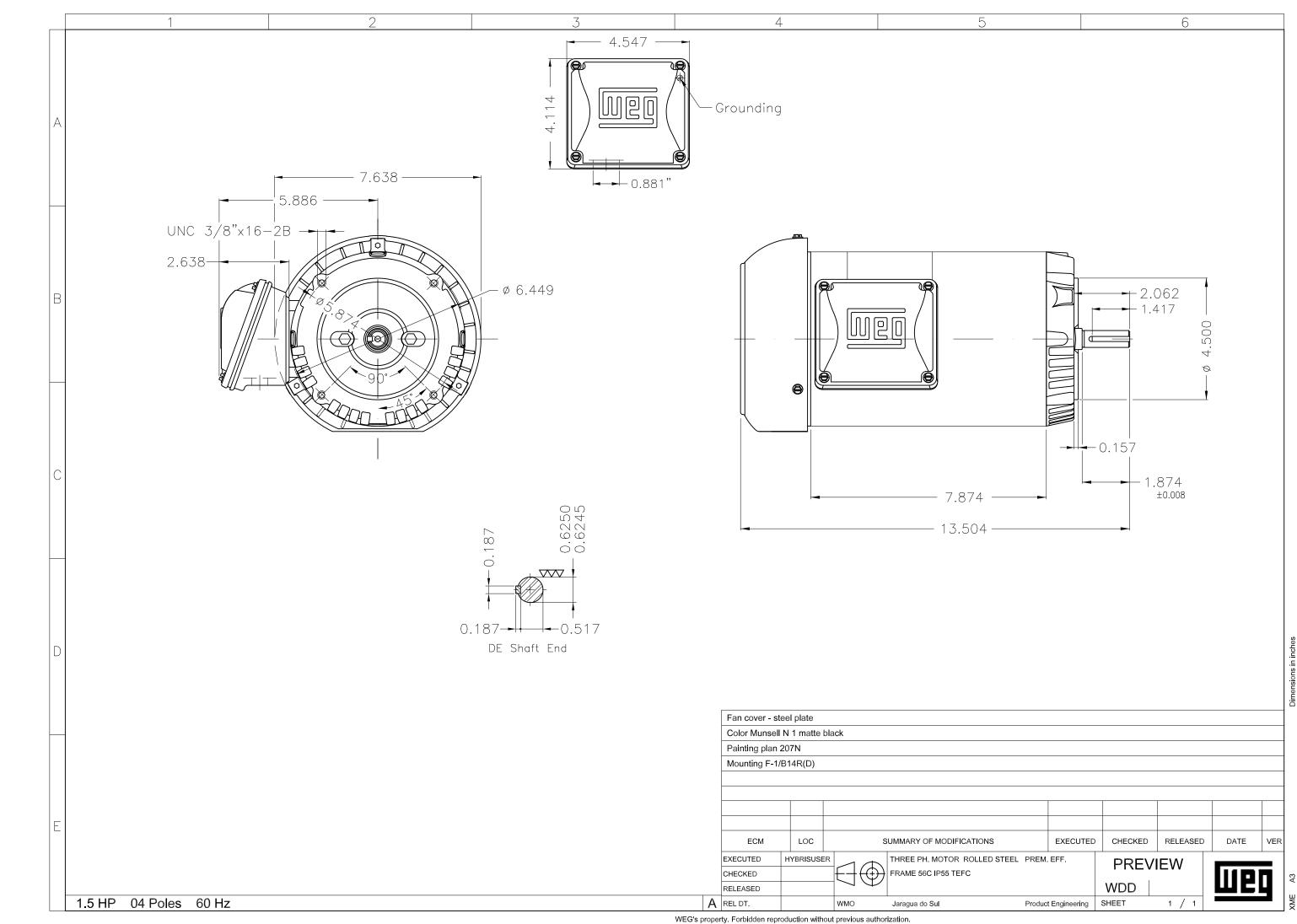
Customer : Automation Direct

Product line : Premium Efficiency Three-Phase Product code : 14786569

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Performance	: 23	30/460 V 60 Hz 4P					
Rated current : 4.0		04/2.02 A	Moment o	Moment of inertia (J)		lb	
LRC : 8.2		2	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 4.	50 ft.lb	Insulation	Insulation class			
•		70 %	Service fa	Service factor			
Breakdown torque : 3		00 %	Temperati	Temperature rise		: 80 K	
Rated speed :		750 rpm	Design	Design			
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FOR SAFE AREA

3PT9

Energy Verifi

Ž NO1.TEOICOXOX 14786569 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

> MODEL 00158ET3E56CFL-S Hz 60 ë B 3AUG2022

P55 SH 1000 m.a.s.l F AT 80K TEFC 2°04

NSC

1.65/2.32

1.15

230/460

CONT

56C

CODE SABLE @ 208V 4.47A ALTERNATE RATING:

ZPM 3FA 냃 쌆

> 1.5HP 4.82-4.28/2.41-2.27A

SF1.00 INC. W

86.5%

NOM EFF NEMA

1420RPM 50 Hz 8202-ZZ

IEC 60034-1

SF1.15

190-220/380-415V

ODE

8204-ZZ

牌

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 5:1 CT MOBIL POLYREX EM **EFF 82.7%**

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T2-WHT

T9-RRK RFD 13-ORG 1-810 I7-PNK F5-BLK

T8-RED F6-GRY r4-YEL





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