DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : Automation Direct

Product line : NEMA Premium Efficiency Three-Phase Product code : 14802850

Catalog #: 00336ET3E145TC-S

: 80 K

: IP55

: F-1

: Cont.(S1)

: -20°C to +40°C : 1000 m.a.s.l.

: IC411 - TEFC

: 68.0 dB(A)

: 50.1 lb

: Direct On Line

: Both (CW and CCW)

: 18s (cold) 10s (hot)

Frame : 143/5TC Output : 3 HP (2.2 kW)

 Output
 : 3 HP (2.2 kW)

 Poles
 : 2

 Frequency
 : 60 Hz

 Rated voltage
 : 230/460 V

 Rated current
 : 7.02/3.51 A

 L. R. Amperes
 : 66.7/33.3 A

 LRC
 : 9.5x(Code K)

LRC : 9.5x(Code K)

No load current : 2.56/1.28 A

Rated speed : 3500 rpm

Slip : 2.78 %

Rated torque : 4.50 ft.lb

Locked rotor torque : 300 %

Locked rotor torque : 300 %

Breakdown torque : 380 %

Insulation class : F

Service factor : 1.15

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

Design : B

 Output
 25%
 50%
 75%
 100%

 Efficiency (%)
 83.6
 84.0
 86.5
 86.5

75% 100% Foundation loads

Efficiency (%) 83.6 84.0 86.5 86.5 Max. traction : 136 lb Power Factor 0.51 0.78 0.87 0.91 Max. compression : 186 lb

Bearing type : 6205 ZZ
Sealing : V'Ring
Lubrication interval : -

6205 ZZ 6203 ZZ
V'Ring Without Bearing Seal

Non drive end

Locked rotor time

Temperature rise

Protection degree

Cooling method

Starting method

Approx. weight³

Ambient temperature

Duty cycle

Altitude

Mounting

Rotation¹

Noise level²

Lubricant amount : -

Lubricant type : Mobil Polyrex EM

Notes

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

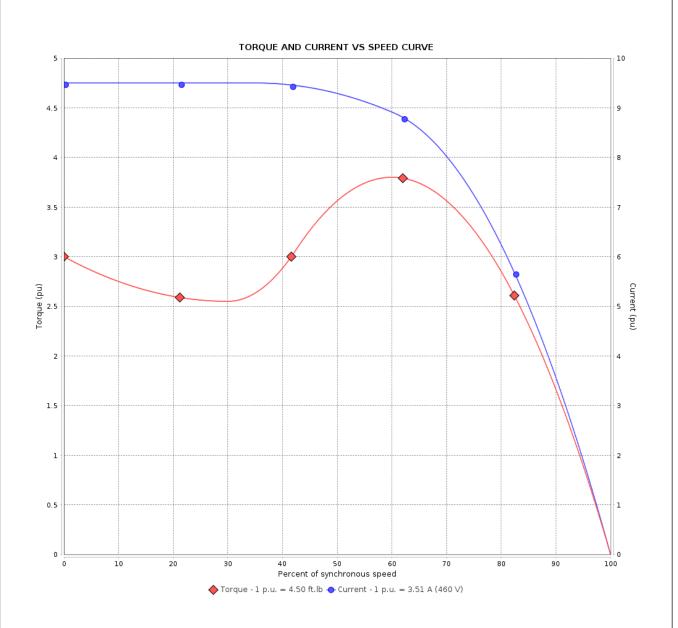
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Performance	: 230/460 V 60 Hz 2P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.02/3.51 A : 9.5 : 4.50 ft.lb : 300 % : 380 % : 3500 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1663 sq.ft.lb : Cont.(S1) : F : : 80 K : B

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

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LOAD PERFORMANCE CURVE

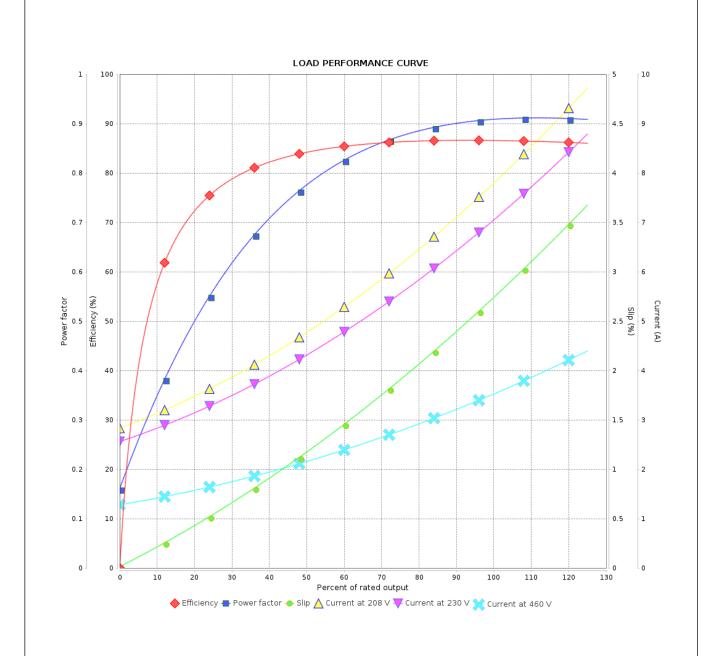
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Performance :		: 230/460 V 60 Hz 2P					
		.02/3.51 A			: 0.1663 sq.ft.lb		
LRC : 9. Rated torque : 4.		.5 .50 ft.lb		Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torc		00 %	1	Service factor		:	
Breakdown torque		80 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 3	500 rpm Design		: B			
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THERMAL LIMIT CURVE

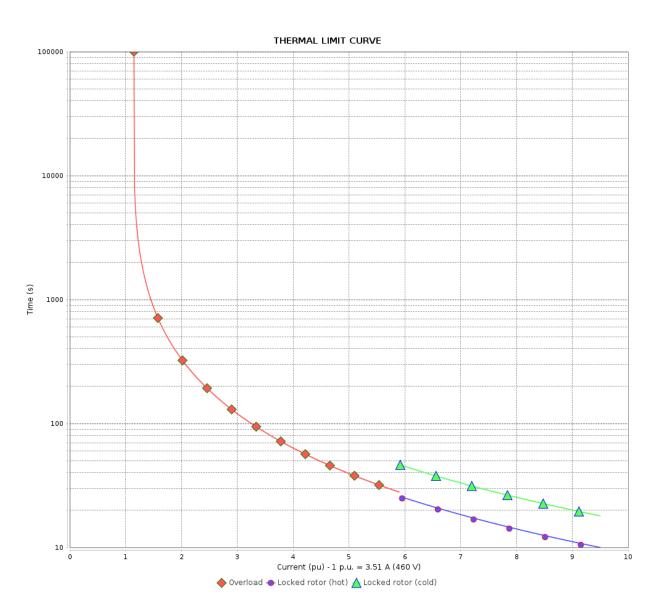
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Catalog #: 00336ET3E145TC-S



Performance : 230/460 V 60 Hz 2P Rated current : 7.02/3.51 A Moment of inertia (J) : 0.1663 sq.ft.lb **LRC** : 9.5 Duty cycle : Cont.(S1) : 4.50 ft.lb Insulation class : F Rated torque : 300 % Locked rotor torque Service factor : 380 % : 80 K Breakdown torque Temperature rise Rated speed : 3500 rpm Design Heating constant Cooling constant

Cooling constant					
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VFD OPERATION CURVE

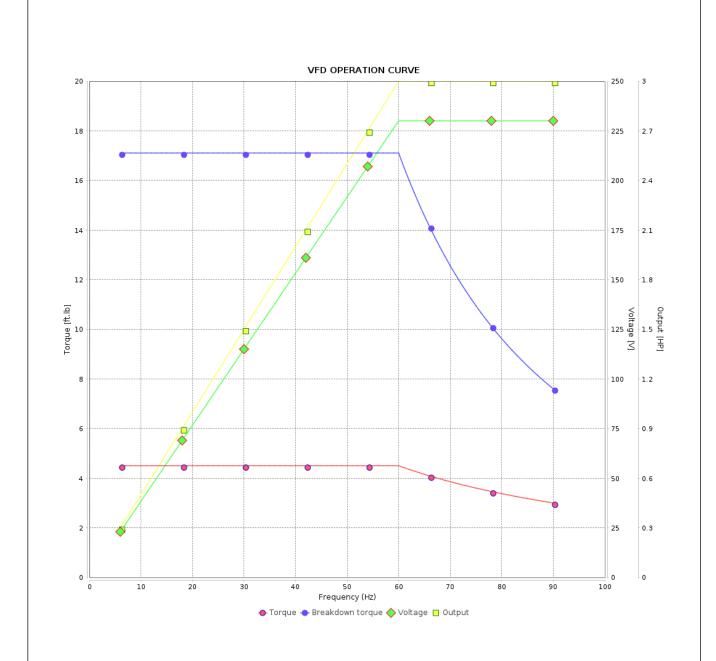
Three Phase Induction Motor - Squirrel Cage



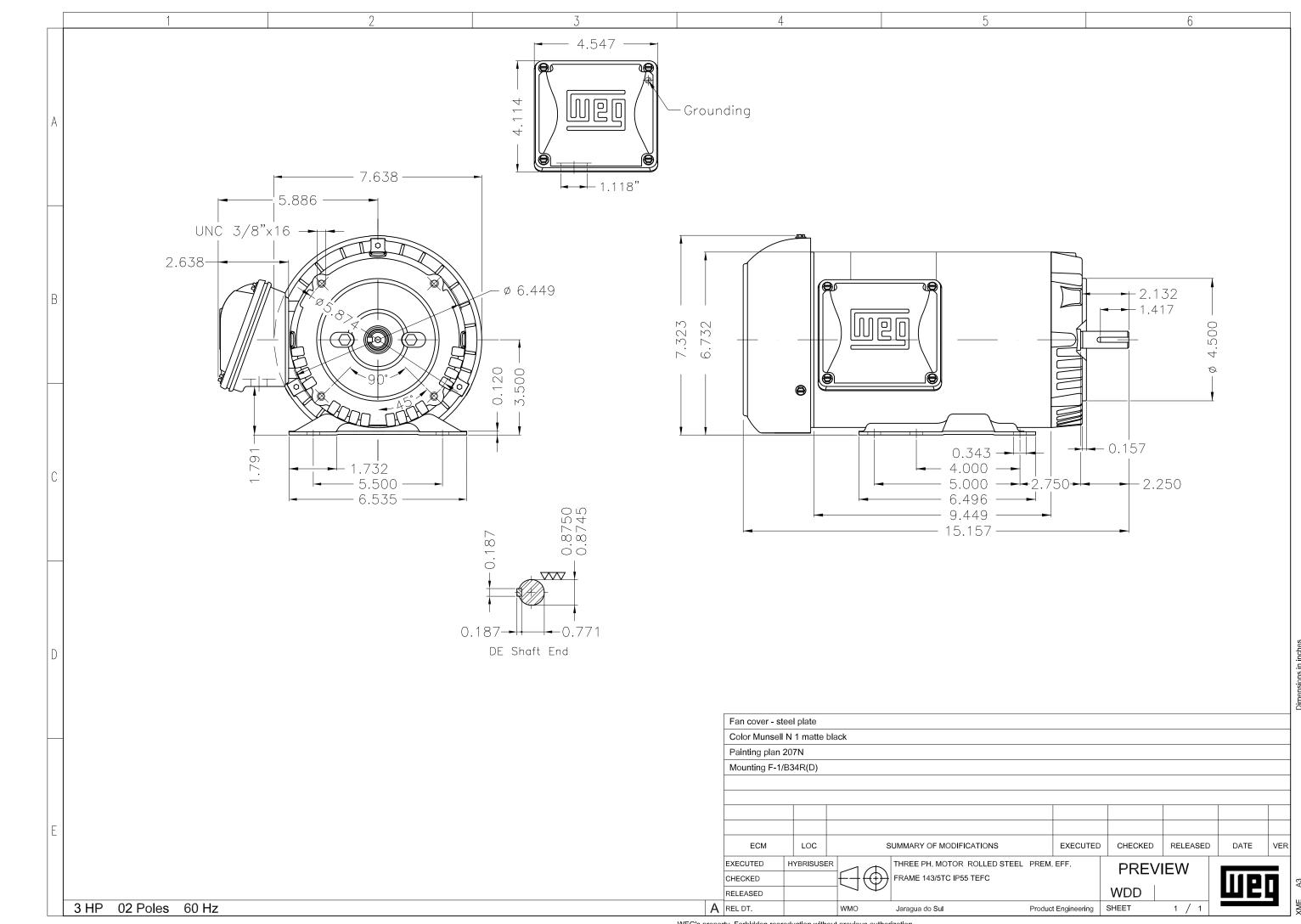
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Performance	: 2	: 230/460 V 60 Hz 2P					
Rated current		.02/3.51 A Moment of inertia (J)		: 0.1663 sq.ft.lb			
LRC : 9		.5	Duty cycle		: Cont.(S1)		
Rated torque	: 4	.50 ft.lb	Insulation class		: F ` ´		
Locked rotor torque :		00 %	Service factor		:		
Breakdown torqu	e : 3	380 % Temperature rise		ure rise	: 80 K		
Rated speed	: 3	: 3500 rpm		Design			
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ZEZ

(**UL)**US LISTED 3PT9 FOR SAFE AREA

& Energy Verifi 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 00336ET3E145TC-S Hz 60 7AUG2022

N01.TE0IC0X0N

14802850

MADE IN BRAZIL

143/5TC

CONT

SCI

P55 1000 m.a.s.l F AT 80K

7.02/3.51 3.07/4.04 230/460

1.15 0.91

> 3.0HP CODE SHO SABLE @ 208V 7.76A ALTERNATE RATING:

TEFC 2°04

3.50-7.38/4.25-3.91A

SF1.00 NCL W

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT 6203-ZZ 9 ODE 2

8205-ZZ

EFF 84.6%

IEC 60034-1

SF1.15

190-220/380-415V

86.5%

NOM EFF NEMA 2870RPM

50 Hz

SPM 3FA 쑮 쌆

MOBIL POLYREX EM

T2-WHT

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

T8-RED F6-GRY r4-YEL

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

choc électrique grave. Déconnectez l'alimentation ayant l'entretien de la machine. conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit.