### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Rolled Steel Premium Efficiency Three-

Product code: 14799003

Catalog #:

00158ET3E56-S

Frame : 56H

Insulation class : F Duty cycle : Cont.(S1)

: -20°C to +40°C Ambient temperature : 1000 m.a.s.l. Altitude

Protection degree : IP55 Cooling method : IC411 - TEFC

Mounting : F-1

Rotation<sup>1</sup> : Both (CW and CCW)

Starting method : Direct On Line Approx. weight<sup>3</sup> : 37.6 lb

Moment of inertia (J) : 0.1101 sq.ft.lb

1.5	1.5		
4	4		
60	50		
230/460	190-220/380		
4.04/2.02	4.82-4.16/2.41		
33.1/16.6	29.4-25.4/14.7		
8.2x(Code K)	6.1x(Code H)		
2.17/1.08	2.13-1.84/1.07		
1750	1420		
2.78	5.33		
4.50 5.55			
270	210		
300	250		
	1.15		
80 K	80 K		
37s (cold) 21s (hot)	36s (cold) 20s (hot)		
52.0 dB(A)	49.0 dB(A)		
85.2	86.1		
85.5	84.7		
86.5	84.7		
86.5	82.7		
0.35	0.41		
0.59	0.67		
0.72	0.78		
0.79	0.84		
	4 60 230/460 4.04/2.02 33.1/16.6 8.2x(Code K) 2.17/1.08 1750 2.78 4.50 270 300  80 K 37s (cold) 21s (hot) 52.0 dB(A) 85.2 85.5 86.5 96.5 0.35 0.59 0.72		

Drive end Non drive end Foundation loads

Bearing type 6204 ZZ 6202 ZZ Max. traction Sealing V'Ring Without Max. compression

Bearing Seal

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

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.

: 143 lb

: 180 lb

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



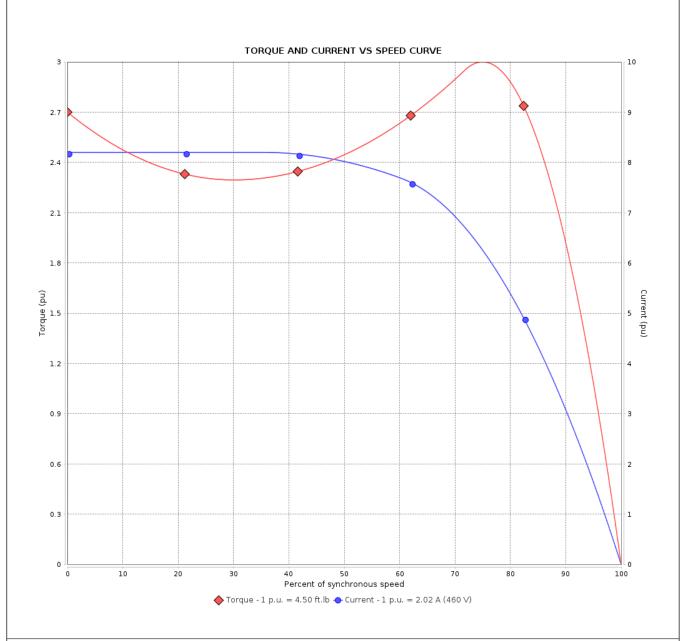
Customer :

Product line : Rolled Steel Premium Efficiency Three-

Phase

Product code: 14799003

Catalog #: 00158ET3E56-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) : F : 4.50 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 270 % : 80 K Breakdown torque : 300 % Temperature rise Rated speed : 1750 rpm Design : B

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

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage

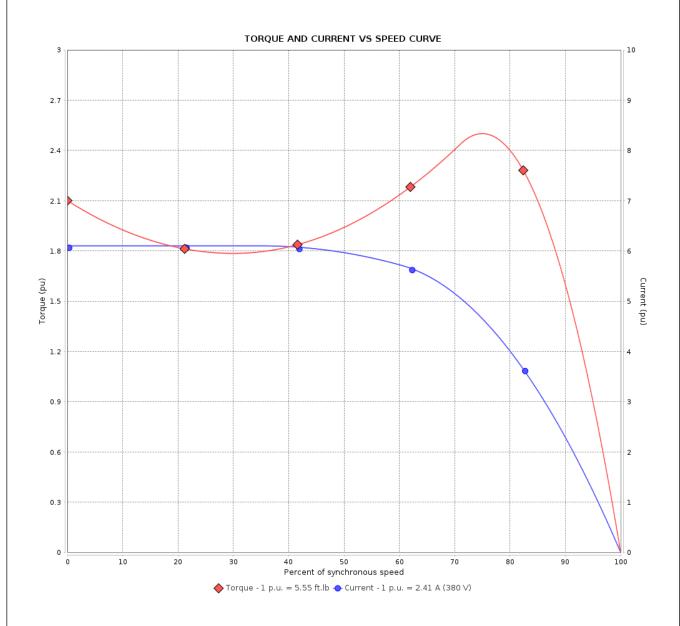


Customer

Product line : Rolled Steel Premium Efficiency Three-

Product code: 14799003

Catalog #: 00158ET3E56-S



Performance : 190-220/380 V 50 Hz 4P Rated current : 4.82-4.16/2.41 A Moment of inertia (J) : 0.1101 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 5.55 ft.lb Insulation class : F Rated torque : 210 % Locked rotor torque Service factor : 1.15 : 250 % Breakdown torque Temperature rise : 80 K : B Rated speed : 1420 rpm Design

Locked rotor time : 36s (cold) 20s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Rolled Steel Premium Efficiency Three-

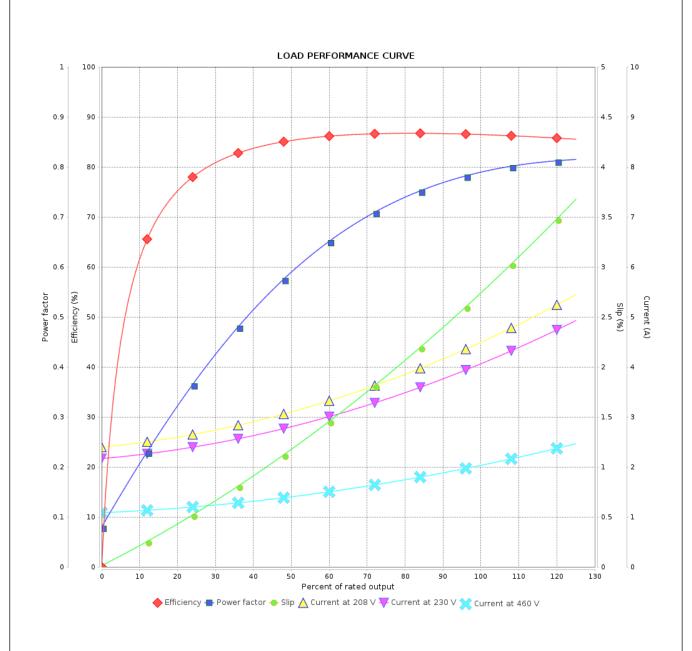
Phase

16/08/2023

Date

Product code: 14799003

Catalog #: 00158ET3E56-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)	
Rated torque	: 4.50 ft.lb	Insulation class		: F ` ´	
Locked rotor torque	: 270 %	% Temperature rise		: : 80 K	
Breakdown torque	: 300 %				
Rated speed	: 1750 rpm			: B	
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Checked by				Page	Revision
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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



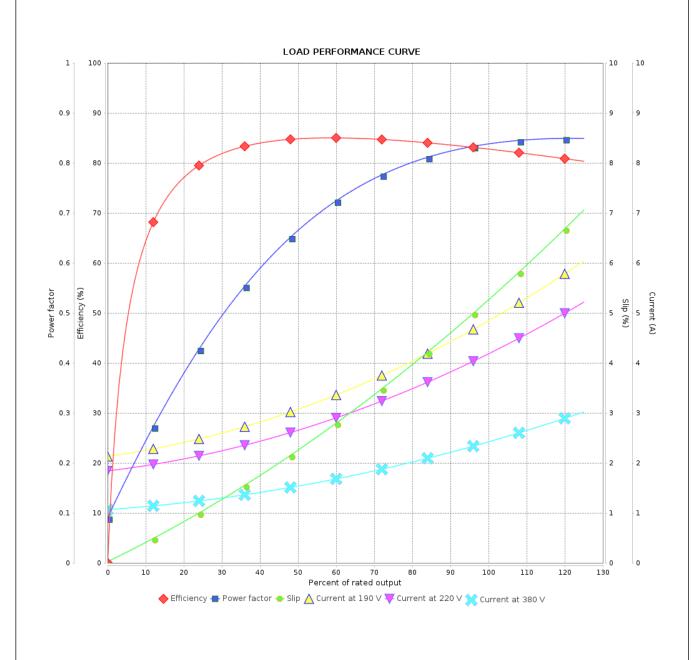
Customer :

Product line : Rolled Steel Premium Efficiency Three- Product of

Phase

Product code: 14799003

Catalog #: 00158ET3E56-S



Dawfarmanan		100 220/200 \/ 50 LI= 4				
Performance		: 190-220/380 V 50 Hz 4P				
Rated current	: 4	1.82-4.16/2.41 A	Moment o	Moment of inertia (J)		lb
LRC	: (	3.1	Duty cycle	Duty cycle		
Rated torque	:	5.55 ft.lb	Insulation class		:F	
Locked rotor torque	e : 2	210 %	Service factor		: 1.15	
Breakdown torque	: 2	250 %	Temperature rise		: 80 K	
Rated speed	: 1420 rpm		Design	Design		
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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Rolled Steel Premium Efficiency Three-

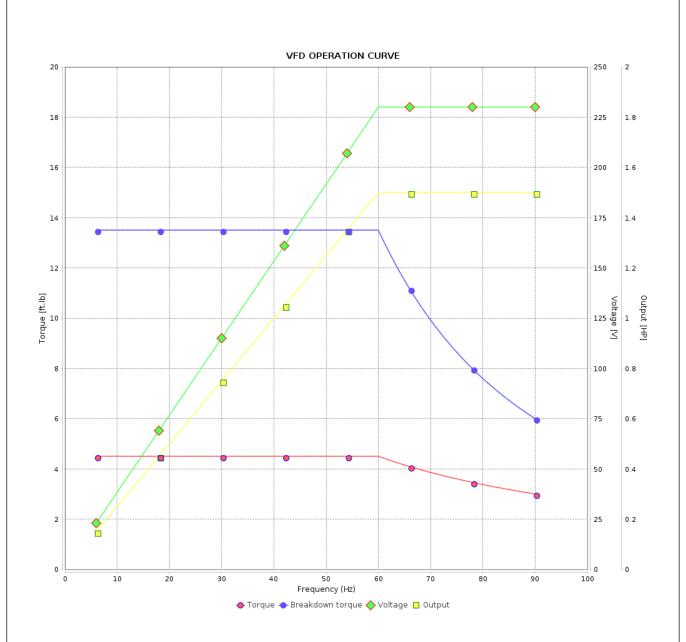
Phase

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Date

Product code: 14799003

Catalog #: 00158ET3E56-S



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

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel Premium Efficiency Three-

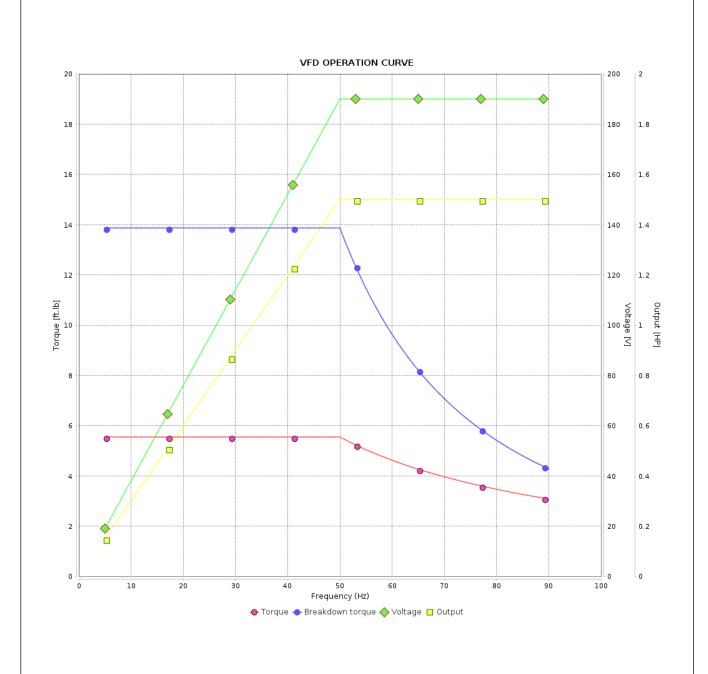
Phase

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Date

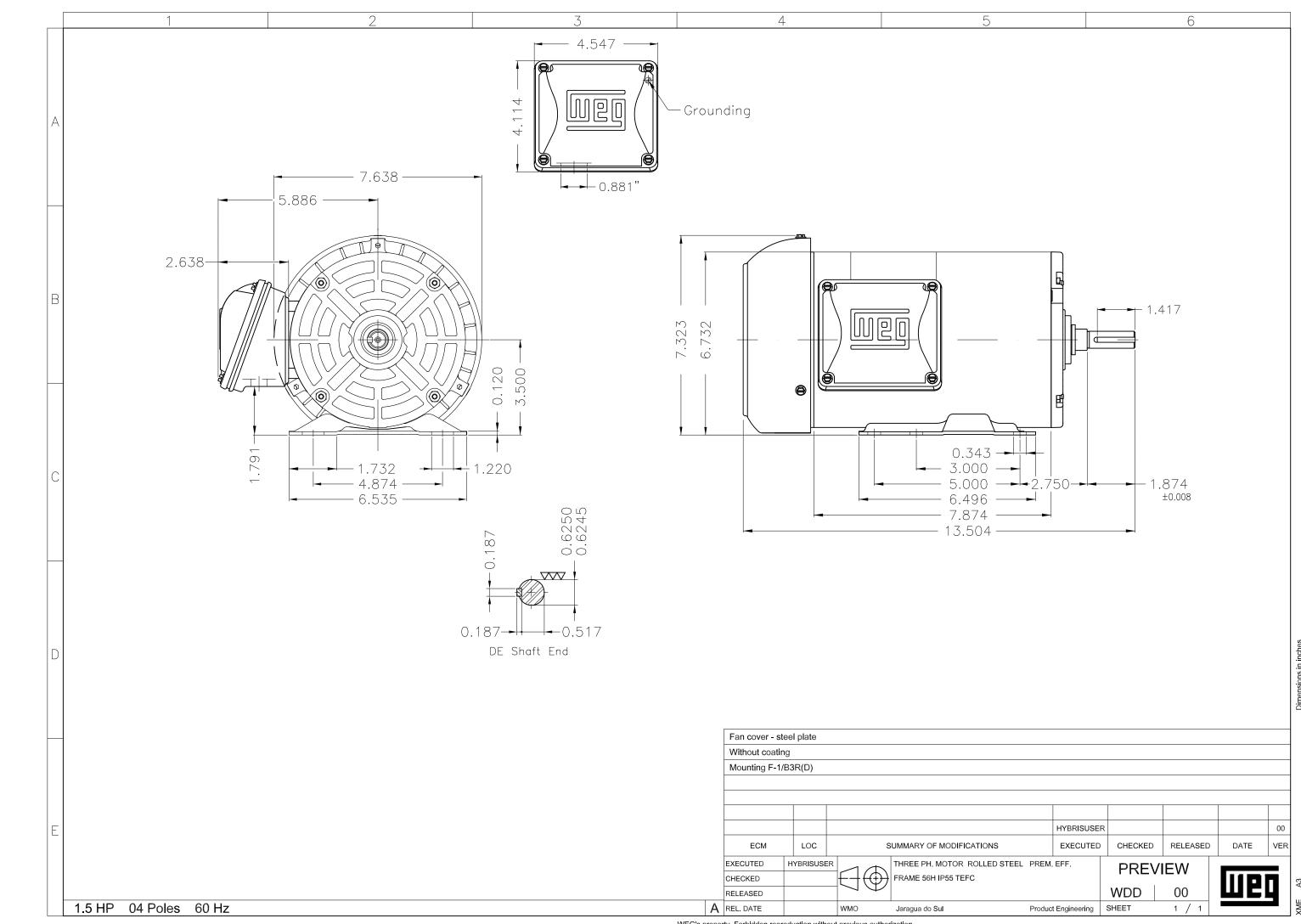
Product code: 14799003

Catalog #: 00158ET3E56-S



Performance	: 190-220/380 V 50 Hz 4P				
Rated current	: 4.82-4.16/2.41 A	A Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1101 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
LRC	: 6.1				
Rated torque	: 5.55 ft.lb				
Locked rotor torque	: 210 %				
Breakdown torque	: 250 %				
Rated speed	: 1420 rpm				
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FOR SAFE

3PT9

Energy Verifi

14799003 MADE IN BRAZIL

NO1.TEOICOXOX

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 00158ET3E56-S

8 4 9JUL2023 26H

P55 CODE DES 1000 m.a.s.l F AT 80K TEFC

2°04

NSC

1.65/2.32

1.15

230/460

CONT

SABLE @ 208V 4.47A ALTERNATE RATING:

SF1.00 INC. 2

ZPM 3FA 냃 쌆

> 1.5HP 4.82-4.28/2.41-2.27A

50 Hz

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 1420RPM ODE 6202-22 9

8204-ZZ

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MOBIL POLYREX EM

F5-BLK

13-ORG T1-81 U

F2-WHT

T9-RED BRK I7-PNK

T8-RED F6-GRY r4-YEL



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

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

VT. 5:1 CT

IEC 60034-1

SF1.15

190-220/380-415V

86.5%

NOM EFF NEMA