DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code: 12809658

Catalog #: 00118OT3E56CFL-S : 56C Cooling method : IC01 - ODP Frame Insulation class : F Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 26.3 lb Altitude Design Moment of inertia (J) : 0.0842 sq.ft.lb : A Output [HP] Poles 4 4 4 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 190/380 220/415 Rated current [A] 3.14/1.57 3.54/1.77 3.32/1.76 L. R. Amperes [A] 23.9/11.9 20.9/10.4 20.9/11.1 LRC [A] 7.6x(Code L) 6.3x(Code J) 5.9x(Code H) No load current [A] 2.20/1.10 2.09/1.05 2.19/1.16 Rated speed [RPM] 1440 1445 1760 Slip [%] 2.22 4.00 3.67 Rated torque [ft.lb] 2.98 3.65 3.63 Locked rotor torque [%] 280 180 210 Breakdown torque [%] 320 250 280 Service factor 1.15 1.15 Temperature rise 80 K 80 K 80 K Locked rotor time 30s (cold) 17s (hot) 32s (cold) 18s (hot) 30s (cold) 17s (hot) Noise level² 52.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 77.3 79.9 77.3 50% 79.6 77.8 78.5 Efficiency (%) 75% 82.5 81.4 80.7 100% 83.5 80.6 80.8 0.29 25% 0.27 0.33 50% 0.49 0.58 0.53 Power Factor 75% 0.63 0.72 0.67

> Non drive end Drive end Foundation loads

0.80

Bearing type 6204 ZZ 6202 ZZ Max. traction : 87 lb Sealing Without Without Max. compression : 113 lb

> Bearing Seal Bearing Seal

0.72

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 3.47A SF 1.00 SFA 3.47A

100%

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.

0.76

(1) / 11 100 / 101 10					
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TORQUE AND CURRENT VS SPEED CURVE

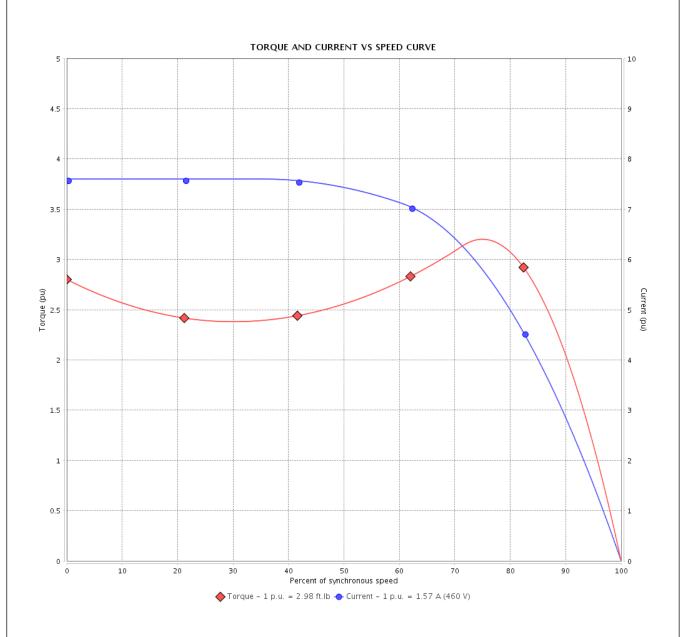
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809658

Catalog #: 00118OT3E56CFL-S



Performance : 230/460 V 60 Hz 4P Rated current : 3.14/1.57 A Moment of inertia (J) : 0.0842 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : F : 2.98 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 280 % : 80 K Breakdown torque : 320 % Temperature rise Rated speed : 1760 rpm Design : A

Locked rotor time : 30s (cold) 17s (hot)

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TORQUE AND CURRENT VS SPEED CURVE



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Three Phase Induction Motor - Squirrel Cage Customer Product line : Premium Efficiency Three-Phase Product code: 12809658 Catalog #: 00118OT3E56CFL-S TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Torque (pu) 1.2 0.9 0.6 Percent of synchronous speed ♦ Torque – 1 p.u. = 3.65 ft.lb ♦ Current – 1 p.u. = 1.77 A (380 V) Performance : 190/380 V 50 Hz 4P Rated current : 3.54/1.77 A Moment of inertia (J) : 0.0842 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 3.65 ft.lb Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1440 rpm Design : A Locked rotor time : 32s (cold) 18s (hot) Date Rev. Performed Checked **Changes Summary**

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TORQUE AND CURRENT VS SPEED CURVE

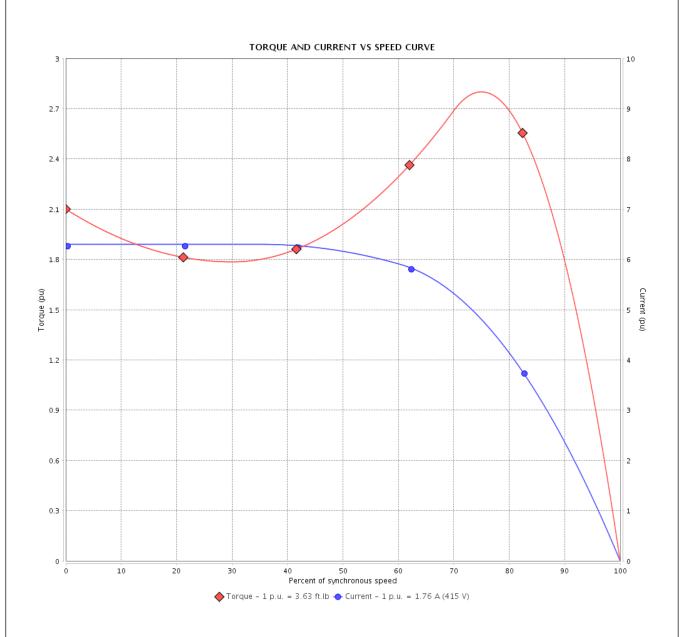
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809658

Catalog #: 00118OT3E56CFL-S



Performance : 220/415 V 50 Hz 4P Rated current : 3.32/1.76 A Moment of inertia (J) : 0.0842 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 3.63 ft.lb Service factor Locked rotor torque : 210 % : 1.15 : 80 K Breakdown torque : 280 % Temperature rise Rated speed : 1445 rpm Design : A

Locked rotor time : 30s (cold) 17s (hot)

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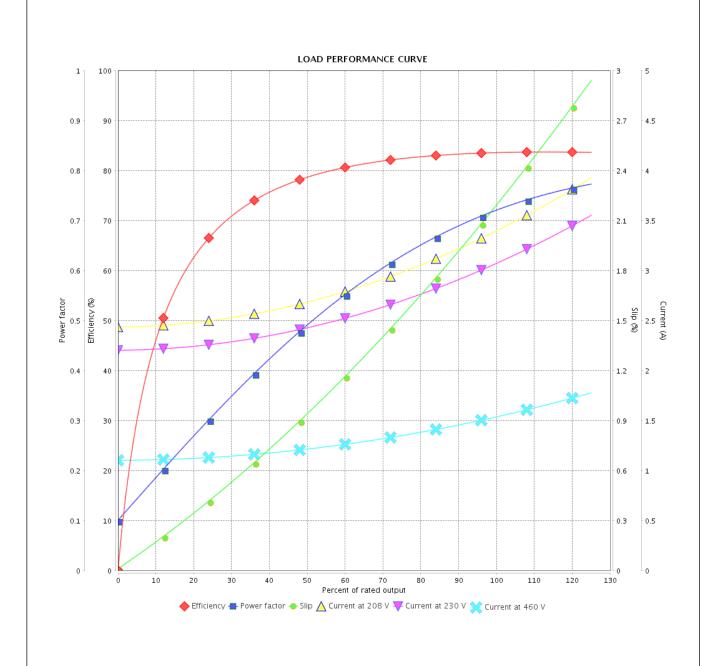
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code : 12809658

Catalog #: 00118OT3E56CFL-S



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: 3	3.14/1.57 A	Moment o	f inertia (J)	: 0.0842 sq.ft.	lb
LRC	: 7	' .6	Duty cycle	}	: Cont.(S1)	
Rated torque	: 2	2.98 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	280 %	Service fa	ctor	:	
Breakdown torqu	e : 3	: 320 % Temperature rise		ıre rise	: 80 K	
Rated speed	: 1	760 rpm	Design		: A	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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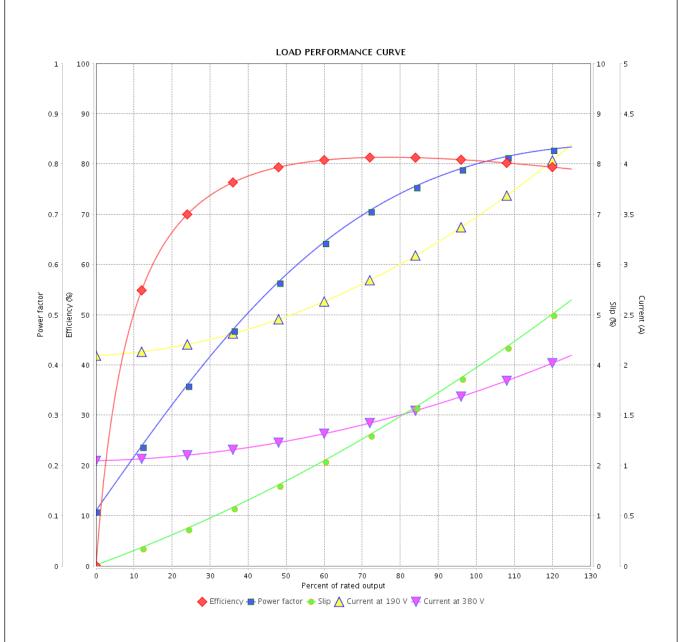
Product line : Premium Efficiency Three-Phase Product code : 12809658

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Performance	: 190/380 V 50 Hz 4P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0842 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : A	lb
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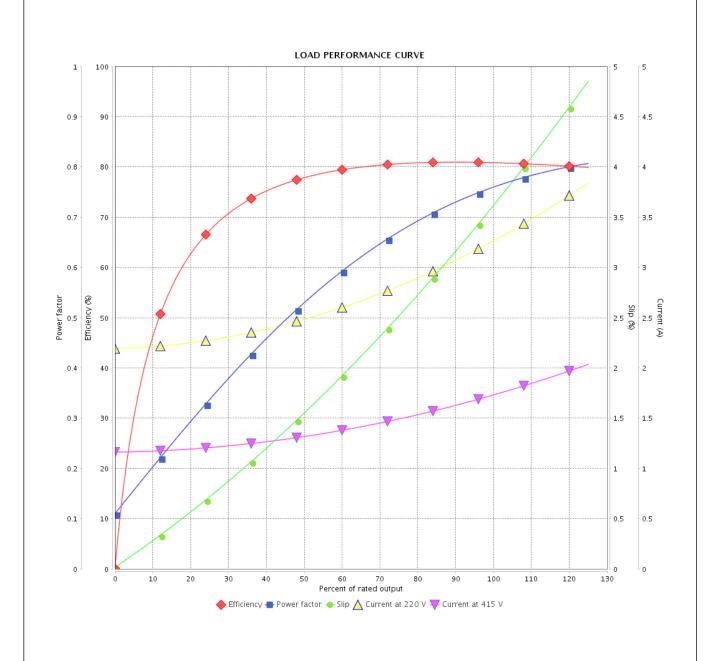
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Product line : Premium Efficiency Three-Phase Product code : 12809658

Catalog #: 00118OT3E56CFL-S



Performance	:	220/415 V 50 Hz 4P				
Rated current	:	3.32/1.76 A	Moment o	f inertia (J)	: 0.0842 sq.ft.	lb
LRC	:	6.3	Duty cycle	;	: Cont.(S1)	
Rated torque	:	3.63 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	210 %	Service fa	ctor	: 1.15	
Breakdown torque	:	280 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1445 rpm	Design		: A	
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THERMAL LIMIT CURVE

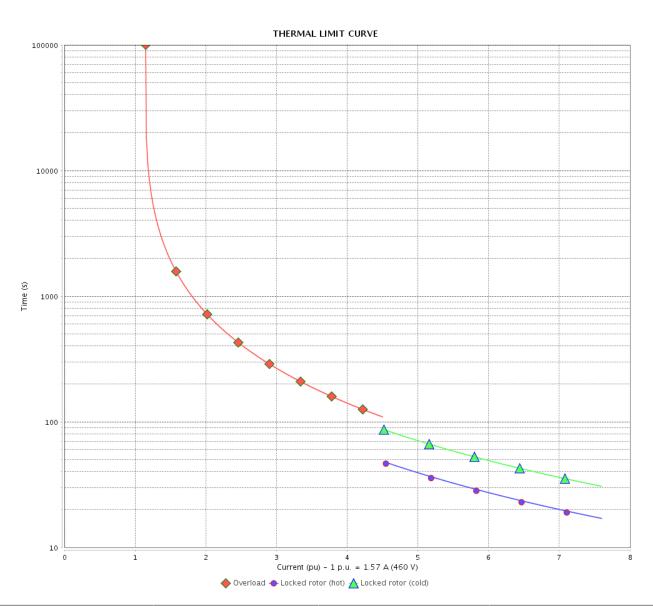
Three Phase Induction Motor - Squirrel Cage



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Product line : Premium Efficiency Three-Phase Product code : 12809658

Catalog #: 00118OT3E56CFL-S



Performance : 230/460 V 60 Hz 4P Rated current : 3.14/1.57 A Moment of inertia (J) : 0.0842 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) Insulation class : 2.98 ft.lb : F Rated torque : 280 % Locked rotor torque Service factor Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1760 rpm Design : A Heating constant Cooling constant

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THERMAL LIMIT CURVE

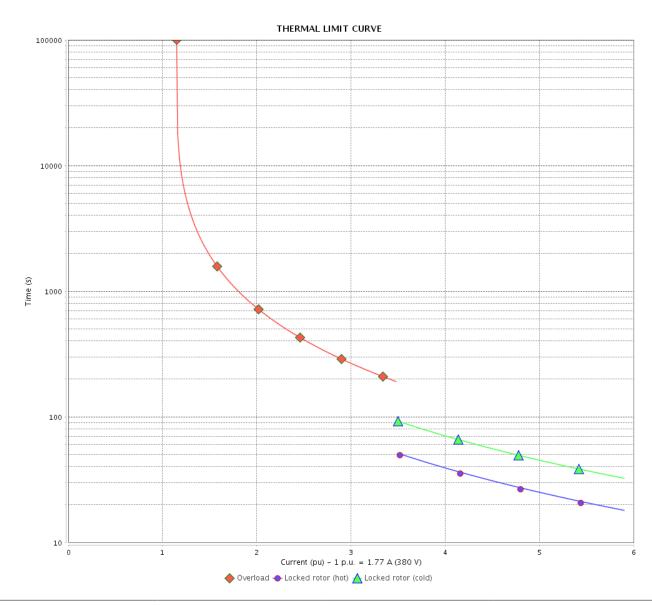
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809658

Catalog #: 00118OT3E56CFL-S



: 190/380 V 50 Hz 4P Performance Moment of inertia (J) : 0.0842 sq.ft.lb Rated current : 3.54/1.77 A **LRC** Duty cycle : Cont.(S1) : 5.9 Insulation class Rated torque : 3.65 ft.lb : F Locked rotor torque : 180 % Service factor : 1.15 : 250 % : 80 K Breakdown torque Temperature rise Rated speed : 1440 rpm Design : A Heating constant Cooling constant

 Cooling constant
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THERMAL LIMIT CURVE

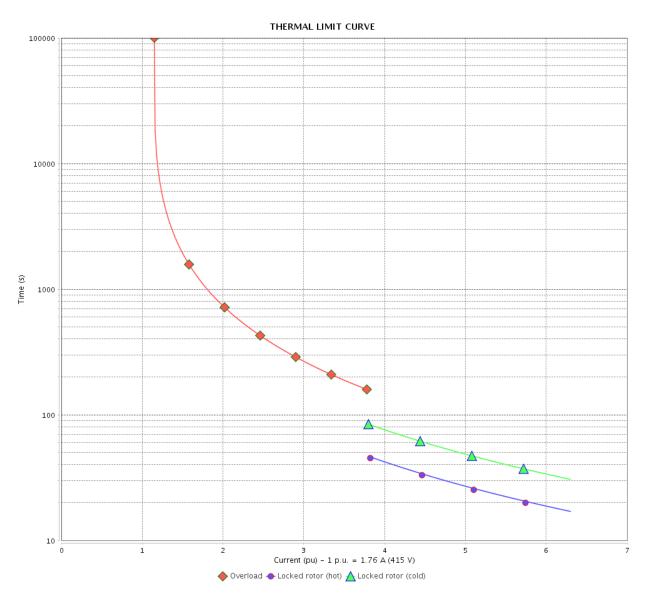
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Product line : Premium Efficiency Three-Phase Product code : 12809658

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Performance : 220/415 V 50 Hz 4P : 3.32/1.76 A Moment of inertia (J) : 0.0842 sq.ft.lb Rated current **LRC** Duty cycle : Cont.(S1) : 6.3 Insulation class : F Rated torque : 3.63 ft.lb Locked rotor torque : 210 % Service factor : 1.15 : 280 % Breakdown torque Temperature rise : 80 K Rated speed : 1445 rpm Design : A Heating constant

 Cooling constant

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

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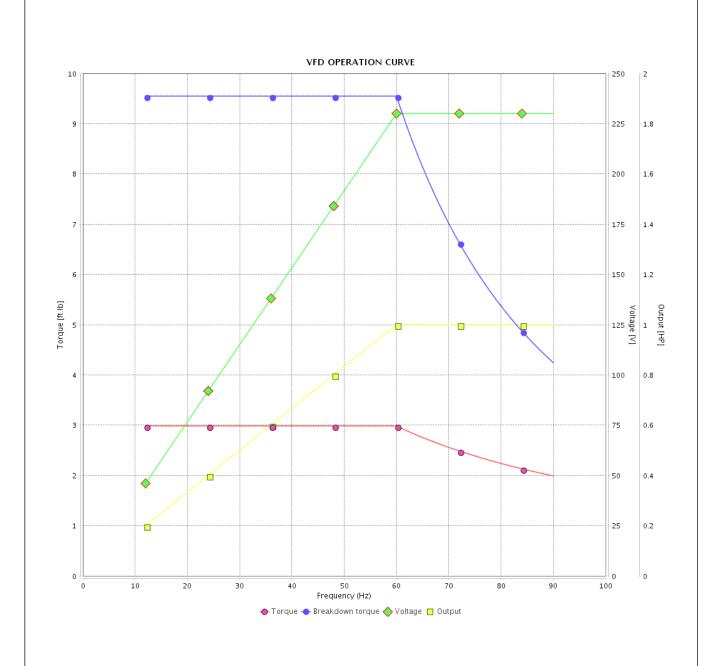
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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.0842 sq.ft.ll : Cont.(S1) : F : : 80 K : A	0
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VFD OPERATION CURVE

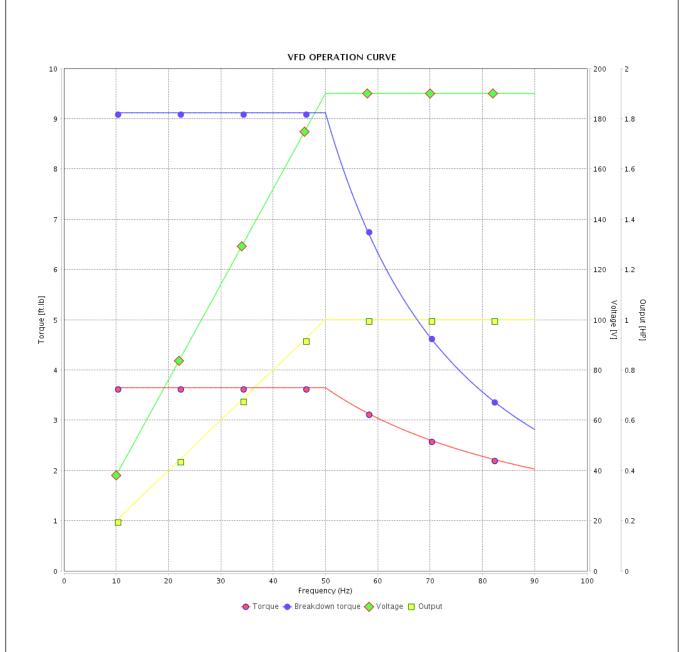
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809658

Catalog #: 00118OT3E56CFL-S



Performance	: 190/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.54/1.77 A : 5.9 : 3.65 ft.lb : 180 % : 250 % : 1440 rpm	Moment of inert Duty cycle Insulation class Service factor Temperature ris Design	. ,	: 0.0842 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : A	lb
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VFD OPERATION CURVE

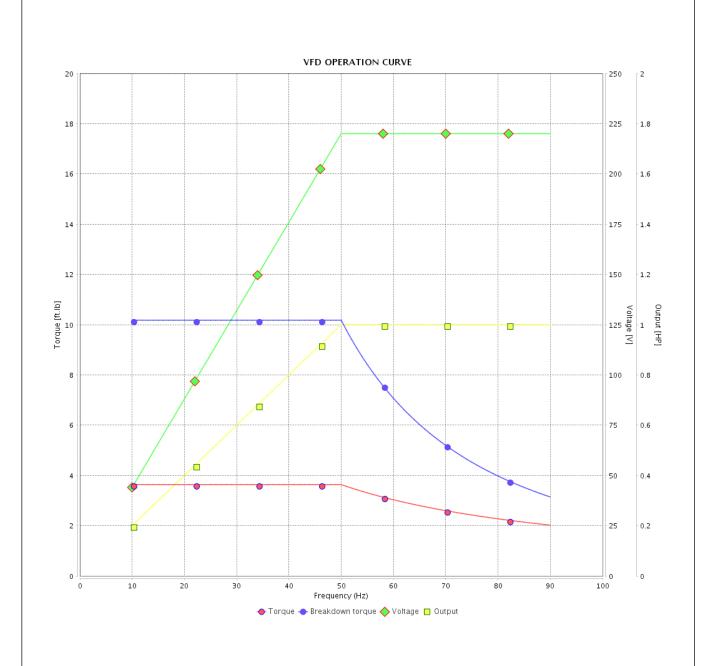
Three Phase Induction Motor - Squirrel Cage



Customer

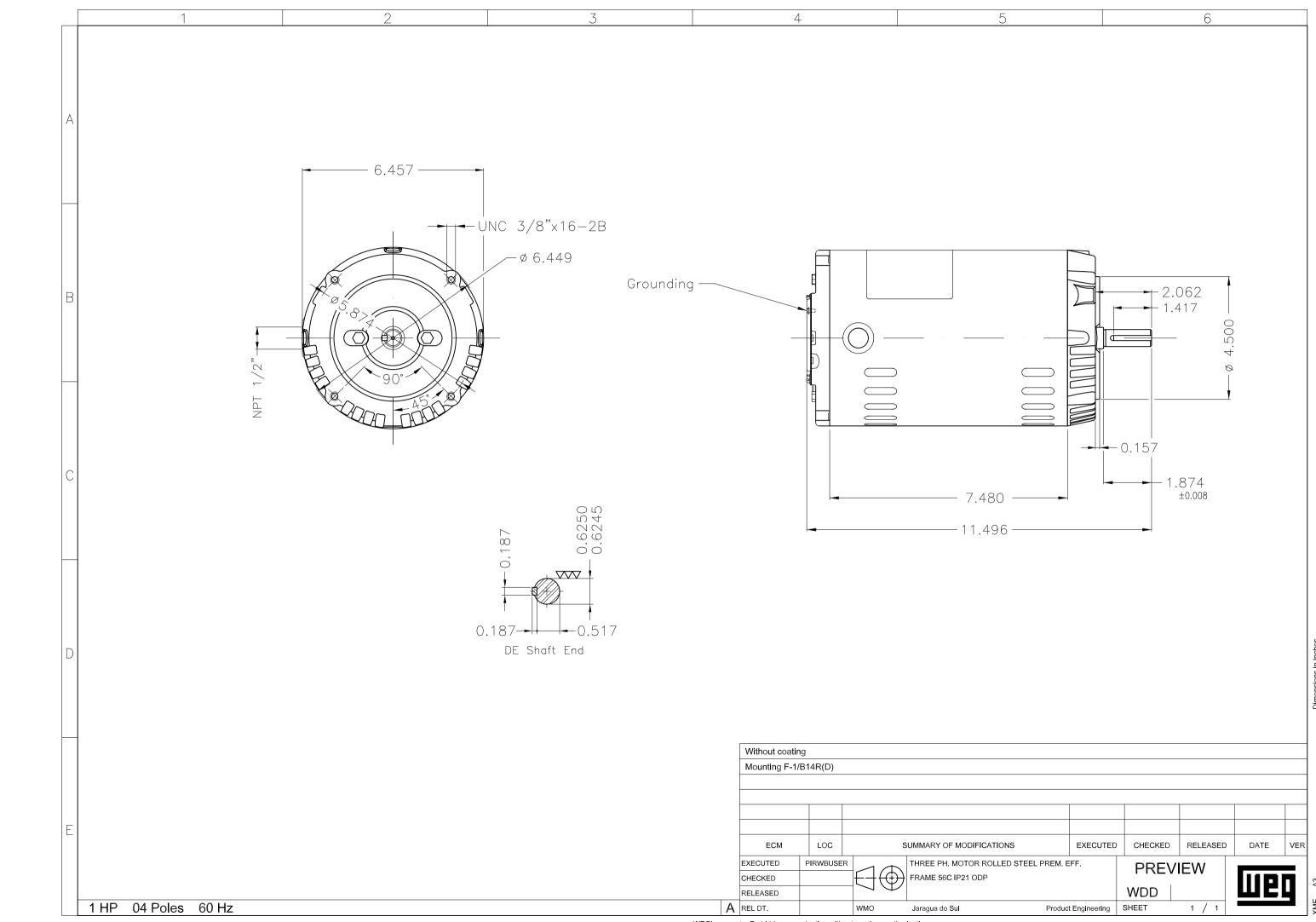
Product line : Premium Efficiency Three-Phase Product code : 12809658

Catalog #: 00118OT3E56CFL-S



Performance	: 220/415 V 50 Hz 4P				
Rated current	: 3.32/1.76 A	Moment of inertia (J)		• •	
LRC	: 6.3	Duty cycle)	: Cont.(S1)	
Rated torque	: 3.63 ft.lb	Insulation	class	: F	
Locked rotor torque	: 210 %	Service factor Temperature rise Design		: 1.15 : 80 K : A	
Breakdown torque	: 280 %				
Rated speed	: 1445 rpm				
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Energy Verifi

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N01.TO0IC0X0X

12809658

MADE IN MÉXICO

MODEL 001180T3E56CFL-S B/N 01FEB2022

9 4 56C

CONT

1000 m.a.s.

F AT 80K

NSC

2°04 900

3.14/1.57 230/460 3.61/1. 1.15

DES

CODE SABLE @ 208V 3.47A

1.0HP 3.54-3.34/1.77-1.77A

LTERNATE RATING:

SF1.00 NCL

190-220/380-415V

83.5%

WG. F.L

H ZPM 3FA 냃 쌆

1440RPM 8202-ZZ

50 Hz

IEC 6003 SF1.15

Inverter duty motor For 80Hz use on VPWM 1000:1 VT.

EFF 80.6%

MOBIL POLYREX EM

9

2

800

8204-ZZ

T2-WHT

13-ORG 1-BLU F5-BLK

F6-GRY T4-YEL



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



conformément aux codes électriques locaux et nationaux afin d'éviter tout