DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809659

Catalog #: 00118OT3E56C-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 Altitude : 27.3 lb 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] 6.3x(Code J) 7.6x(Code L) 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

Drive end Non drive end Foundation loads

0.72

0.80

Bearing type : 6204 ZZ 6202 ZZ Max. traction : 86 lb Sealing : Without Without Max. compression : 113 lb

Bearing Seal Bearing Seal

0.63

0.72

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 3.47A SF 1.00 SFA 3.47A

75%

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.

0.67

0.76

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TORQUE AND CURRENT VS SPEED CURVE

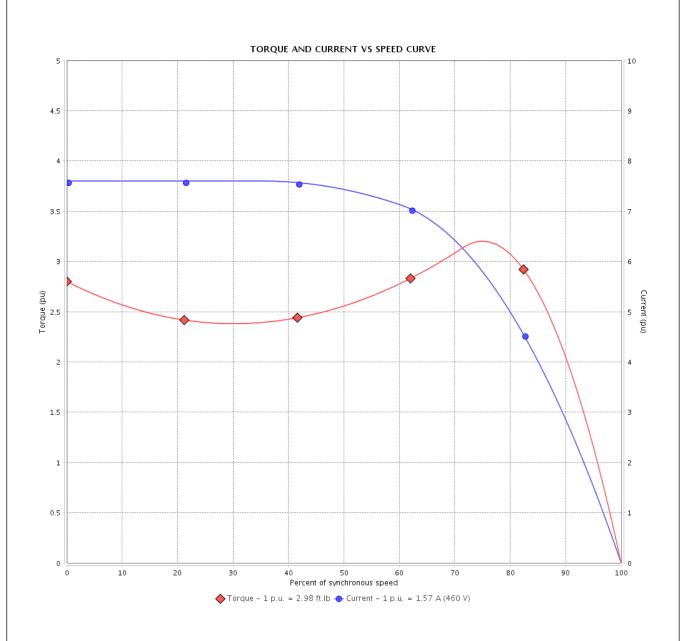
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809659

Catalog #: 00118OT3E56C-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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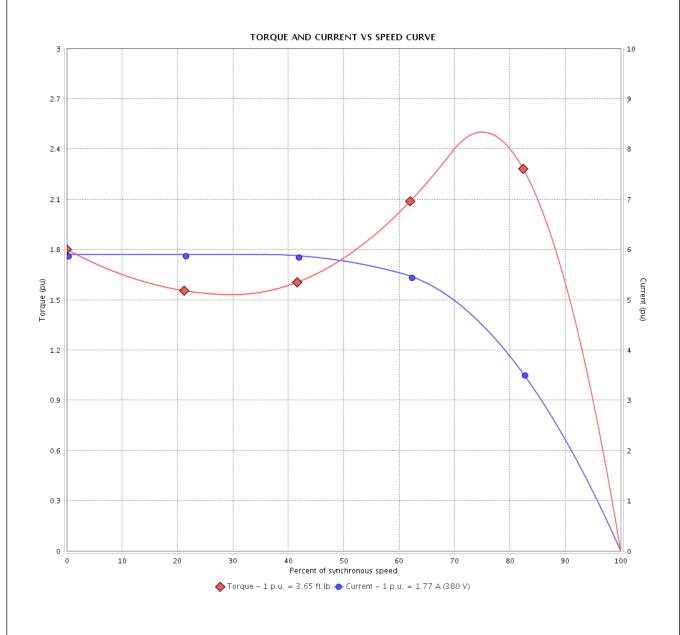
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809659

Catalog # : 00118OT3E56C-S



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) : 3.65 ft.lb Insulation class : F Rated torque Locked rotor torque : 180 % Service factor : 1.15 : 80 K Breakdown torque : 250 % Temperature rise Rated speed : 1440 rpm Design : A

Locked rotor time : 32s (cold) 18s (hot)

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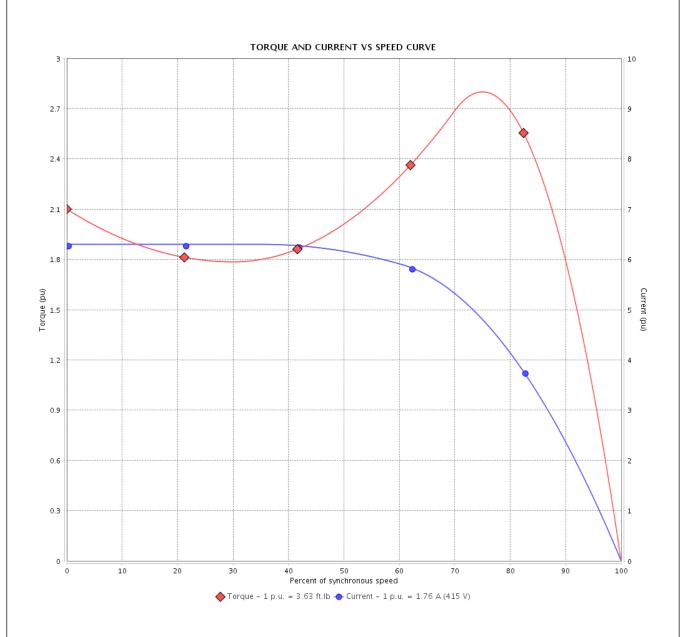
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809659

Catalog #: 00118OT3E56C-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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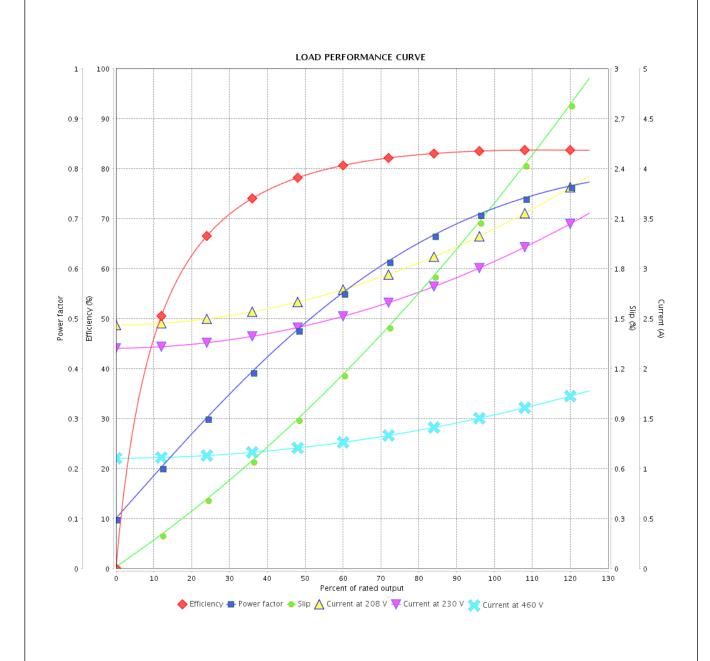
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code : 12809659

Catalog # : 00118OT3E56C-S



Performance	: 2	30/460 V 60 Hz 4P				
Rated current		3.14/1.57 A	Moment o	Moment of inertia (J)		lb
LRC	: 7	7.6	Duty cycle		: Cont.(S1)	
Rated torque	: 2	2.98 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	80 %	Service fa	ctor	:	
Breakdown torque	: 3	20 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	760 rpm	Design		: A	
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Three Phase Induction Motor - Squirrel Cage



Customer :

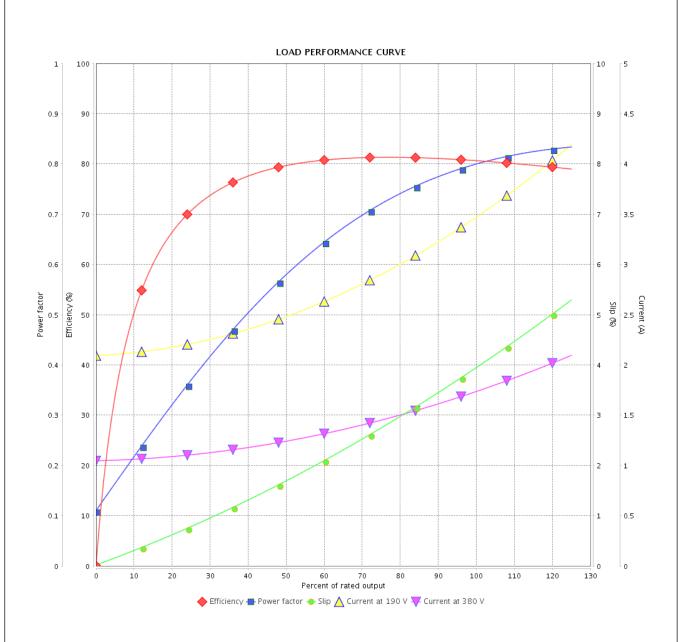
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14/04/2022

Product line : Premium Efficiency Three-Phase Product code : 12809659

Catalog #: 00118OT3E56C-S



Performance		: 190/380 V 50 Hz	4P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 3.54/1.77 A : 5.9 : 3.65 ft.lb : 180 % : 250 % : 1440 rpm	Duty cy Insulation Service	on class	: 0.0842 sq.ft.I : Cont.(S1) : F : 1.15 : 80 K : A	b
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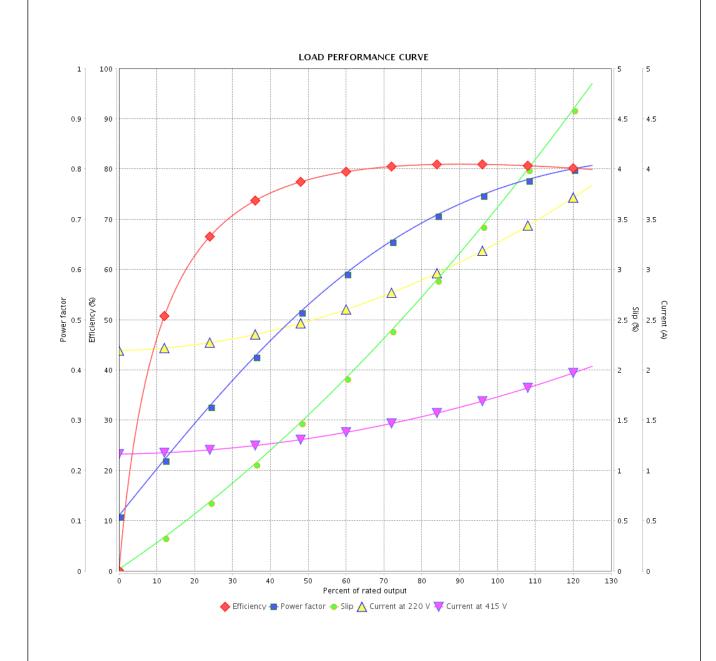
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code : 12809659

Catalog # : 00118OT3E56C-S



Performance	: 22	20/415 V 50 Hz 4P				
Rated current LRC	current : 3.32/1.76 A Moment of inertia (J) : 6.3 Duty cycle		` '	: 0.0842 sq.ft.lb : Cont.(S1)		
Rated torque Locked rotor torque		63 ft.lb Insulation class : F 10 % Service factor : 1.15				
Breakdown torque Rated speed		80 % 445 rpm	Temperature rise Design		: 80 K : A	
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THERMAL LIMIT CURVE

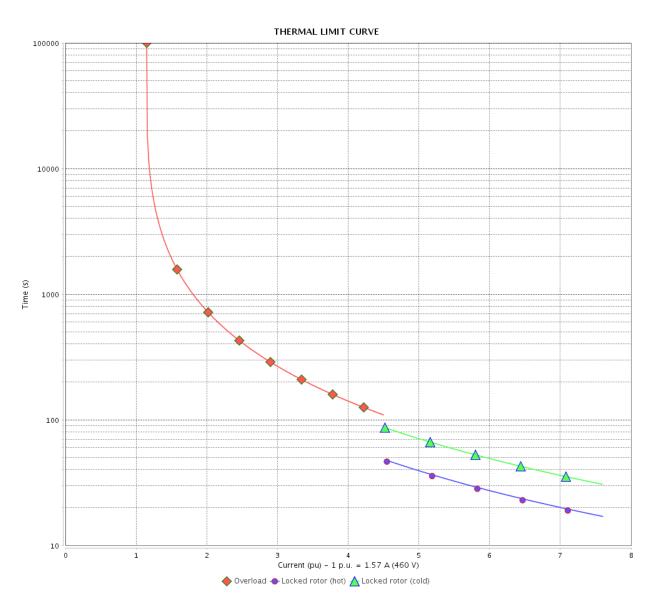
Three Phase Induction Motor - Squirrel Cage



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Product line : Premium Efficiency Three-Phase Product code : 12809659

Catalog #: 00118OT3E56C-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 : F Rated torque : 2.98 ft.lb : 280 % Locked rotor torque Service factor : 320 % Temperature rise : 80 K Breakdown torque Rated speed : 1760 rpm Design : A Heating constant Cooling constant

Cooling constant					
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THERMAL LIMIT CURVE

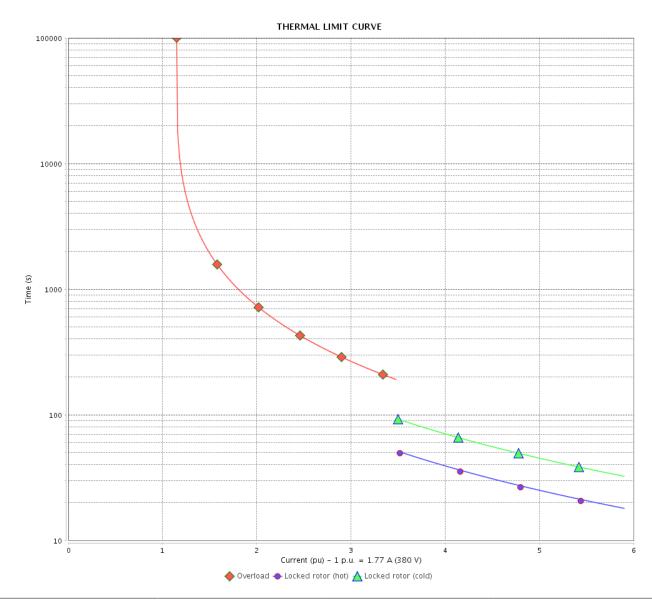
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Product line : Premium Efficiency Three-Phase Product code : 12809659

Catalog #: 00118OT3E56C-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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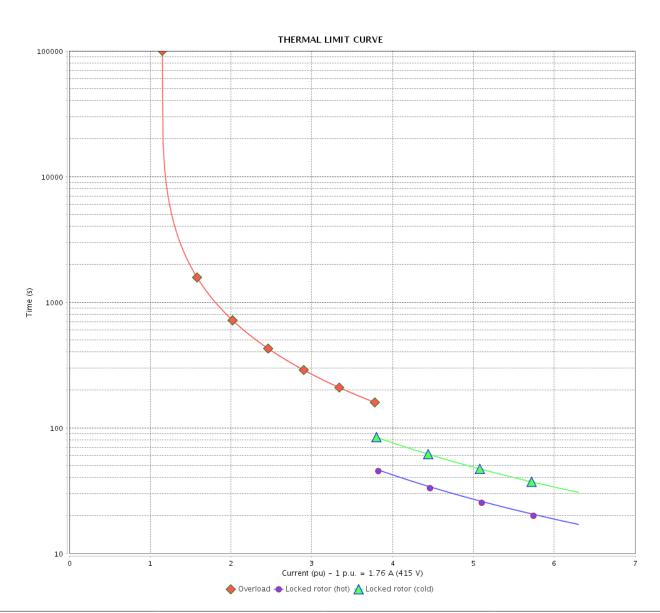
Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : Premium Efficiency Three-Phase Product code: 12809659

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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

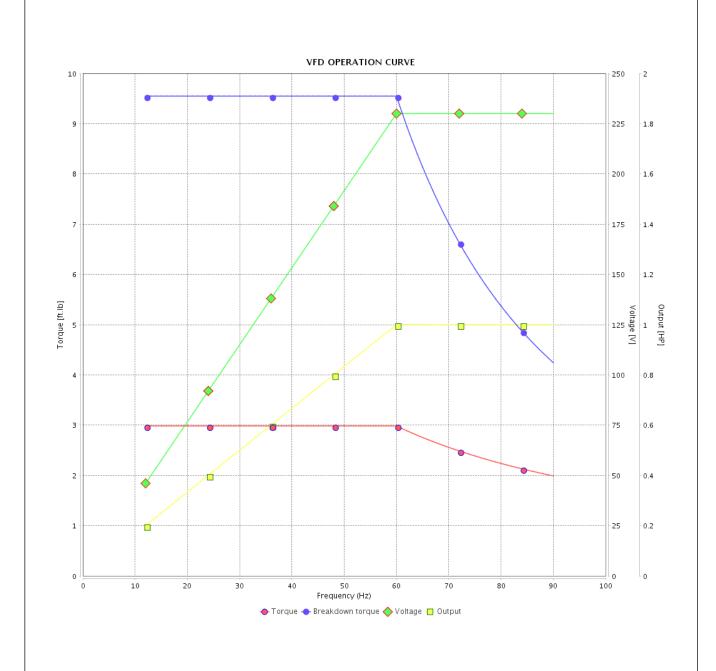
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Product line : Premium Efficiency Three-Phase Product code : 12809659

Catalog # : 00118OT3E56C-S



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

Three Phase Induction Motor - Squirrel Cage



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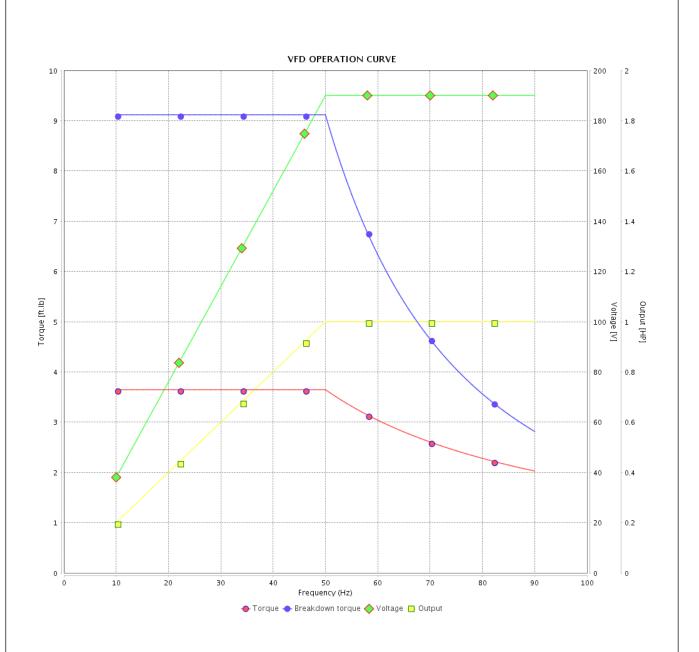
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Catalog #: 00118OT3E56C-S



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 Rated torque : 3.65 ft.lb : F Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1440 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by

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VFD OPERATION CURVE

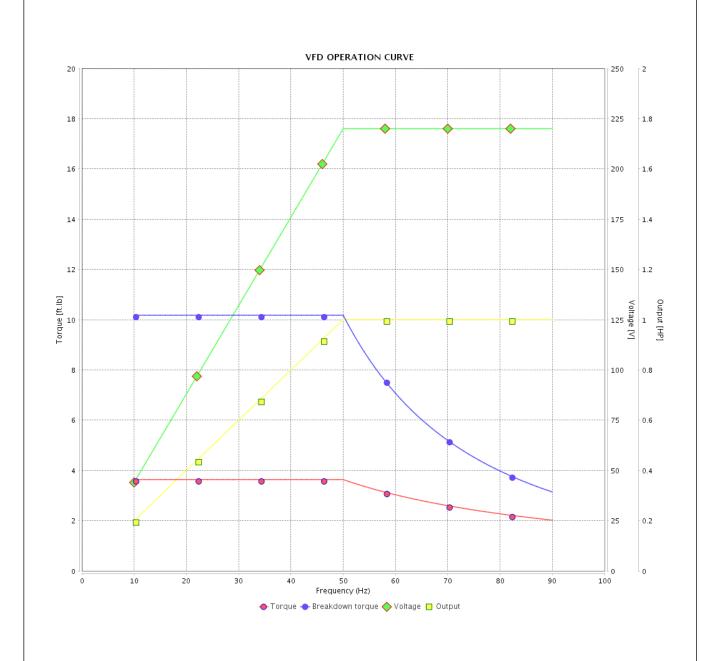
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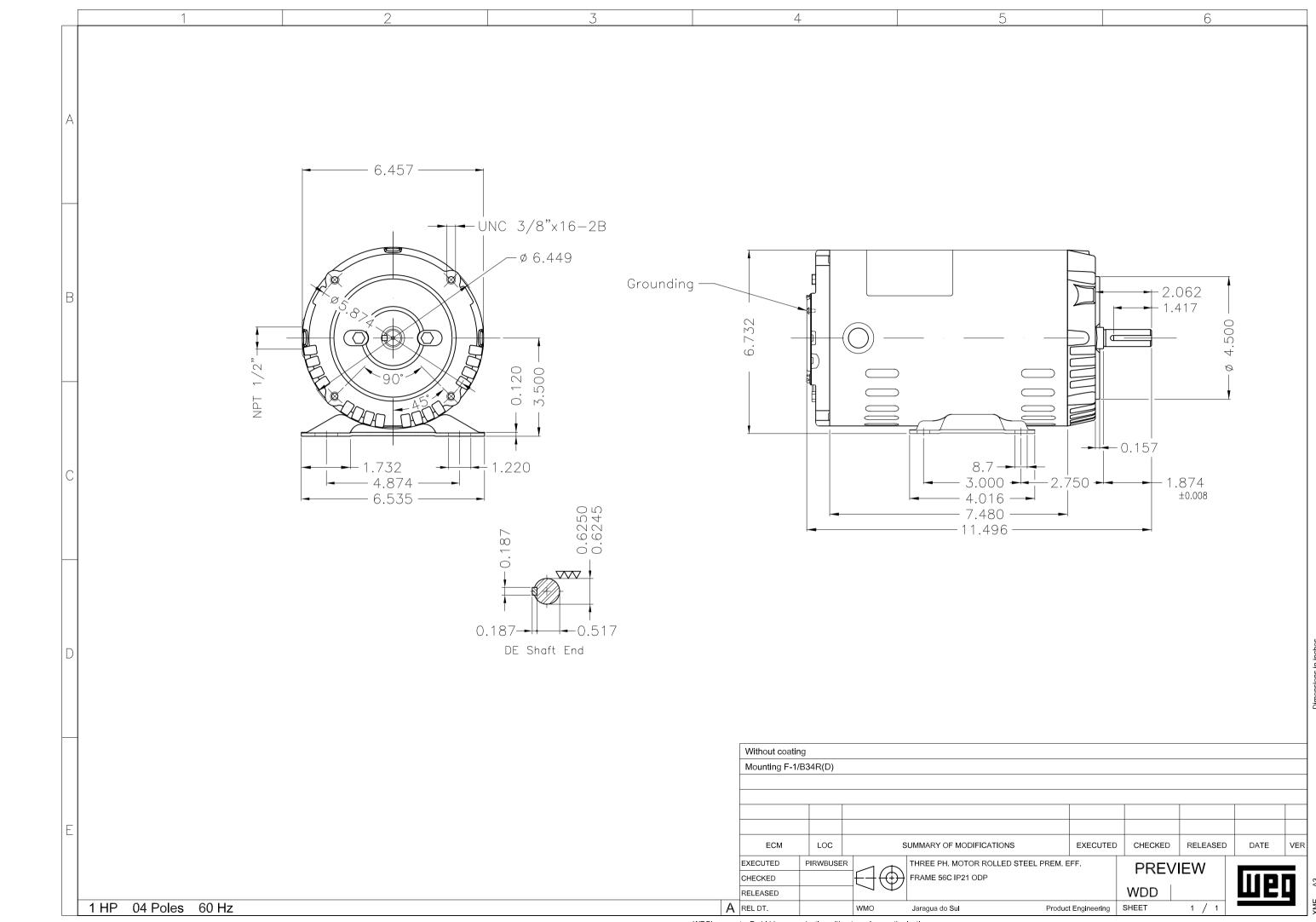
Customer

Product line : Premium Efficiency Three-Phase Product code : 12809659

Catalog #: 00118OT3E56C-S



Performance	: 2:	20/415 V 50 Hz 4P				
Rated current LRC		: 3.32/1.76 A Moment of in : 6.3 Duty cycle		Moment of inertia (J) : 0.0842 sq Outy cycle : Cont.(S1)		.lb
Rated torque Locked rotor torg		.63 ft.lb 10 %	Insulation class		: F : 1.15	
Breakdown torqu	. –	80 %		Service factor Temperature rise		
Rated speed	: 14	445 rpm	Design		: A	
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3PT9

Energy Verifi

12809659 MADE IN MÉXICO

MODEL 001180T3E56C-S B/N N01.TO0IC0X0X 5MAR2022

9 4 56C

1000 m.a.s. CONT

F AT 80K

NSC

2°04 900

3.14/1.57 230/460 3.61/1. 1.15

> CODE DES 47A SABLE @ 208V 3.

LTERNATE RATING:

SF1.00 NCL

83.5%

WG. F.L

H ZPM 3FA 냃 쌆

1.0HP

3.54-3.34/1.77-1.77A

1440RPM 50 Hz

IEC 6003 SF1.15

190-220/380-415V

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. **EFF 80.6%**

8202-ZZ

800

8204-ZZ

9

2

MOBIL POLYREX EM

T2-WHT

T9-BRK RED 13-ORG 1-BLU I7-PNK F5-BLK

T8-RED 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