DATA SHEET

Three Phase Induction Motor - Squirrel Cage



83.5

82.9 0.47

0.75

0.85

0.90

Customer :

Product line : Premium Efficiency Three-Phase Product code : 12812245

Catalog #: 00156OT3E56C-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 : 27.5 lb Altitude Design Moment of inertia (J) : 0.0835 sq.ft.lb : A 1.5 Output [HP] 1.5 Poles 2 2 2 60 Frequency [Hz] 50 50 Rated voltage [V] 230/460 190/380 220/415 Rated current [A] 3.70/1.85 4.42/2.21 4.02/2.13 L. R. Amperes [A] 31.8/15.9 29.6/14.8 29.7/15.8 LRC [A] 7.4x(Code J) 8.6x(Code K) 6.7x(Code H) No load current [A] 1.59/0.796 1.66/0.881 1.62/0.809 Rated speed [RPM] 3510 2890 2900 Slip [%] 3.33 2.50 3.67 Rated torque [ft.lb] 2.24 2.72 2.73 Locked rotor torque [%] 200 210 180 Breakdown torque [%] 250 280 330 Service factor 1.15 1.15 Temperature rise 80 K 80 K 80 K Locked rotor time 36s (cold) 20s (hot) 36s (cold) 20s (hot) 34s (cold) 19s (hot) Noise level² 62.0 dB(A) 60.0 dB(A) 60.0 dB(A) 25% 81.1 83.5 82.1 50% 81.5 82.7 81.9 Efficiency (%)

Drive end Non drive end Foundation loads

83.6

82.3

0.51 0.79

0.88

0.92

Bearing type : 6204 ZZ 6202 ZZ Max. traction : 61 lb Sealing : Without Without Max. compression : 88 lb

Bearing Seal Bearing Seal

84.0

84.0

0.45

0.73

0.83

0.89

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

Notes

Power Factor

USABLE @208V 4.09A SF 1.00 SFA 4.09A

75%

100%

25%

50%

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.

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TORQUE AND CURRENT VS SPEED CURVE

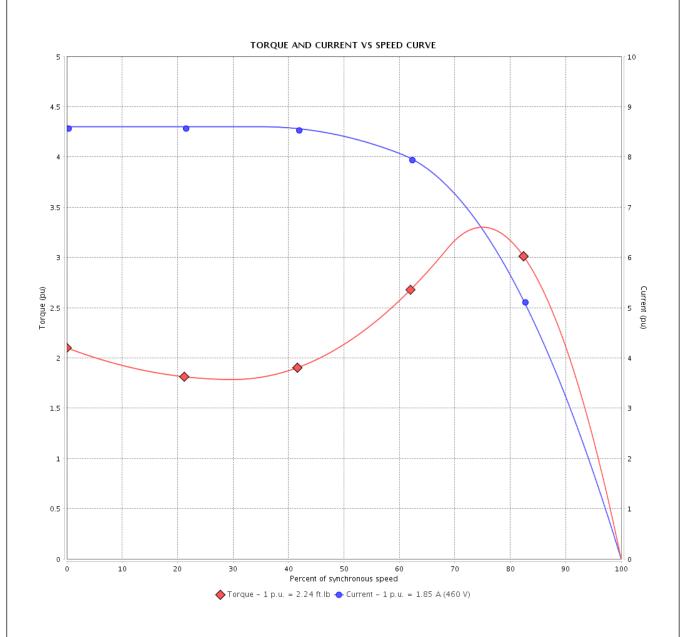
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12812245

Catalog #: 00156OT3E56C-S



Performance	: 230/460 V 60 Hz 2P			
Rated current LRC	: 3.70/1.85 A : 8.6	Moment of inertia (J) Duty cycle	: 0.0835 sq.ft.lb : Cont.(S1)	
Rated torque	: 2.24 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	:	
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 3510 rpm	Design	: A	
Looked retentions	. 20a (aald) 20a (bat)			

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

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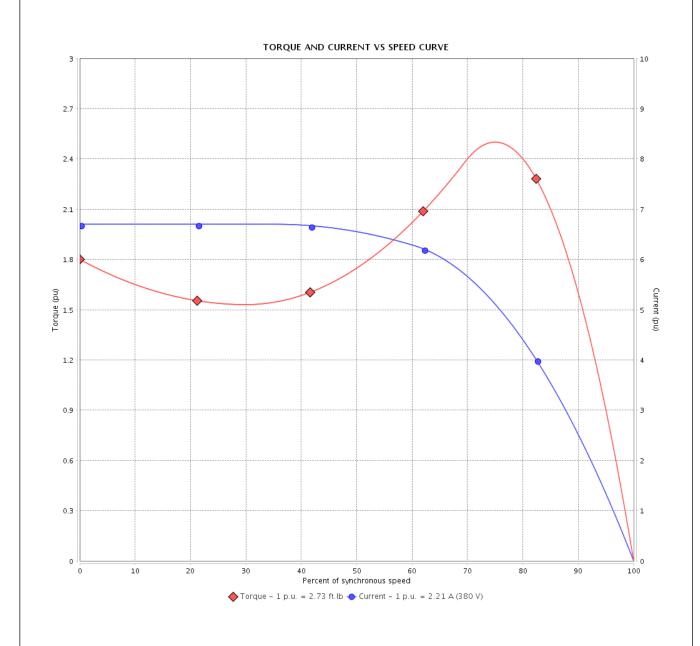
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code: 12812245

> Catalog #: 00156OT3E56C-S



Performance	: 190/380 V 50 Hz 2P			
Rated current	: 4.42/2.21 A	Moment of inertia (J)	: 0.0835 sq.ft.lb	
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque	: 2.73 ft.lb	Insulation class	:F	
Locked rotor torque	: 180 %	Service factor	: 1.15	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 2890 rpm	Design	: A	
Locked rotor time	: 36s (cold) 20s (hot)			

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TORQUE AND CURRENT VS SPEED CURVE

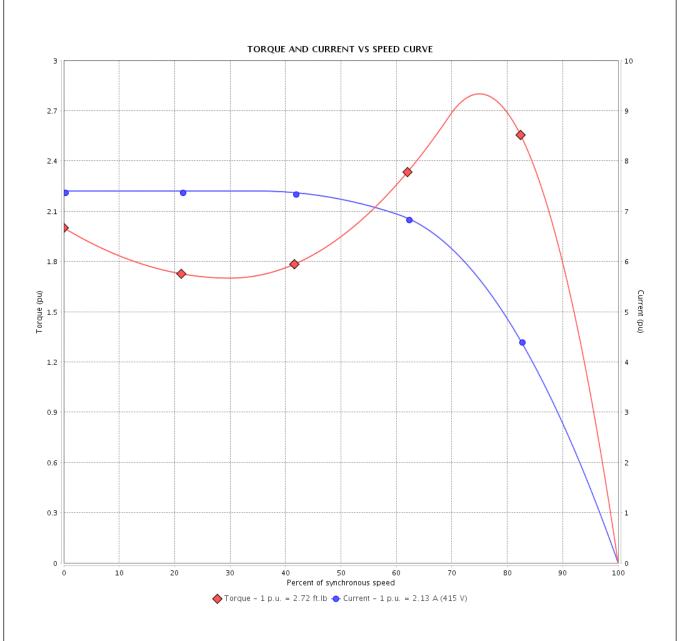
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12812245

Catalog #: 00156OT3E56C-S



Performance : 220/415 V 50 Hz 2P Rated current : 4.02/2.13 A Moment of inertia (J) : 0.0835 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : F : 2.72 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 200 % : 1.15 : 80 K Breakdown torque : 280 % Temperature rise Rated speed : 2900 rpm Design : A

Locked rotor time : 34s (cold) 19s (hot)

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LOAD PERFORMANCE CURVE

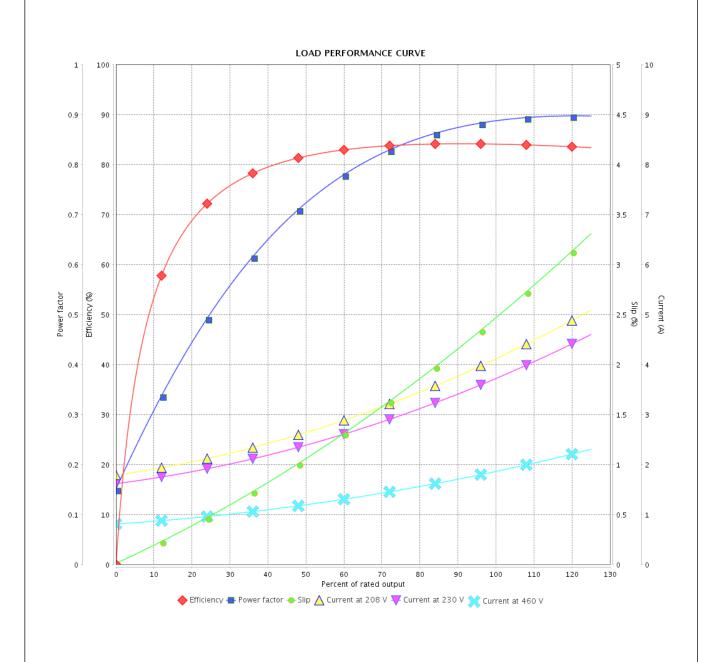
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code : 12812245

Catalog #: 00156OT3E56C-S



Performance	: 4	230/460 V 60 Hz 2P				
Rated current	::	3.70/1.85 A	Moment of	Moment of inertia (J)		.lb
LRC	: 8	3.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	2.24 ft.lb	Insulation	class	: F	
Locked rotor toro	que : 2	210 %	Service fa	ctor	:	
Breakdown torqu		330 %	Temperati	Temperature rise		
Rated speed	: 3	3510 rpm	Design		: A	
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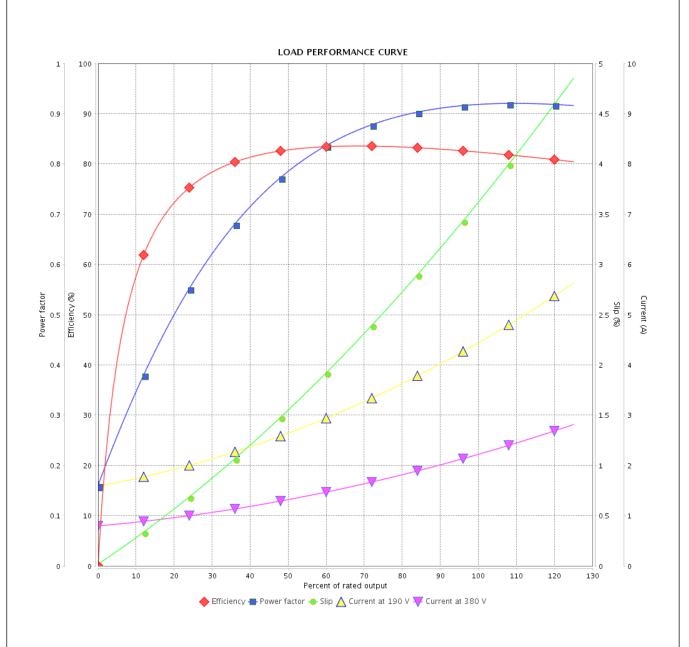
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12812245

Catalog #: 00156OT3E56C-S



Performance	: 190/380 V 50 Hz 2P				
Rated current LRC	: 4.42/2.21 A : 6.7	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0835 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.73 ft.lb : 180 % : 250 % : 2890 rpm				
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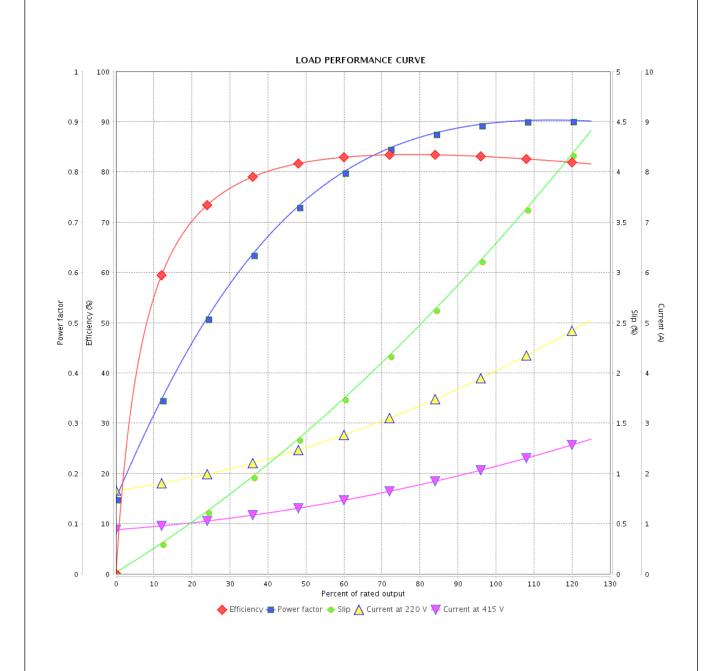
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code : 12812245

Catalog # : 00156OT3E56C-S



Performance	: 220/415 V 50 Hz 2P				
Rated current	: 4.02/2.13 A	Moment of inertia (J)		: 0.0835 sq.ft.	lb
LRC	: 7.4	Duty cycle		: Cont.(S1)	
Rated torque	: 2.72 ft.lb	Insulation class Service factor Temperature rise		: F	
Locked rotor torque	: 200 %			: 1.15	
Breakdown torque	: 280 %			: 80 K	
Rated speed	: 2900 rpm	Design		: A	
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THERMAL LIMIT CURVE

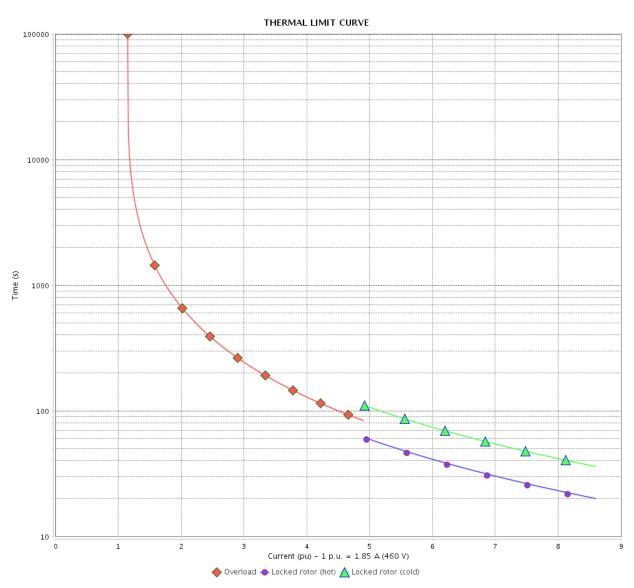
Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : Premium Efficiency Three-Phase Product code : 12812245

Catalog #: 00156OT3E56C-S



Performance : 230/460 V 60 Hz 2P Rated current : 3.70/1.85 A Moment of inertia (J) : 0.0835 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.6 Insulation class : F Rated torque : 2.24 ft.lb Locked rotor torque : 210 % Service factor : 330 % : 80 K Breakdown torque Temperature rise Rated speed : 3510 rpm Design : A Heating constant Cooling constant

Cooling Constant	•				
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THERMAL LIMIT CURVE

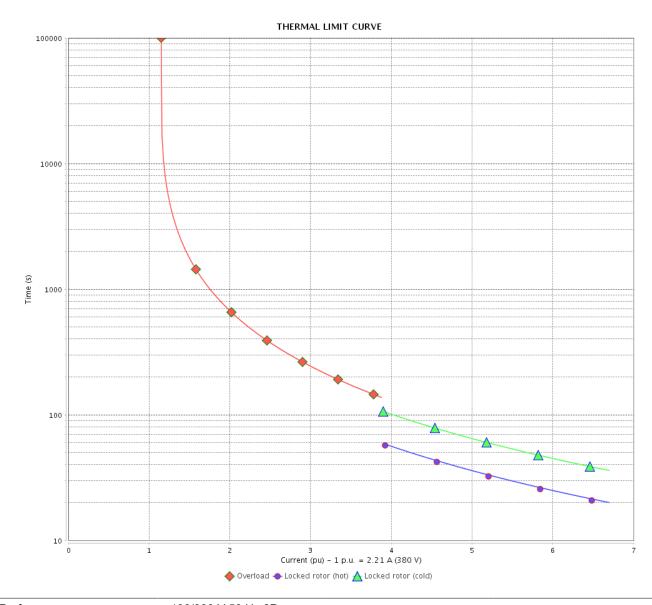
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12812245

Catalog #: 00156OT3E56C-S



Performance : 190/380 V 50 Hz 2P : 4.42/2.21 A Moment of inertia (J) : 0.0835 sq.ft.lb Rated current **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 2.73 ft.lb : F Locked rotor torque : 180 % Service factor : 1.15 : 250 % : 80 K Breakdown torque Temperature rise Rated speed : 2890 rpm Design : A Heating constant Cooling constant

Cooling constant	ι				
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THERMAL LIMIT CURVE

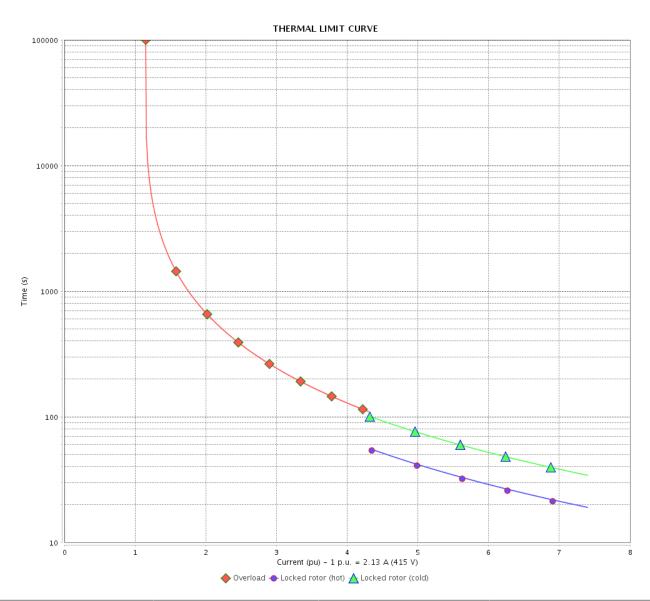
Three Phase Induction Motor - Squirrel Cage



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Customer	•

Product line : Premium Efficiency Three-Phase Product code : 12812245

Catalog #: 00156OT3E56C-S



Performance : 220/415 V 50 Hz 2P Rated current : 4.02/2.13 A Moment of inertia (J) : 0.0835 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 2.72 ft.lb : 200 % Locked rotor torque Service factor : 1.15 : 280 % : 80 K Breakdown torque Temperature rise Rated speed : 2900 rpm Design : A Heating constant Cooling constant

Cooling Constant	•				
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VFD OPERATION CURVE

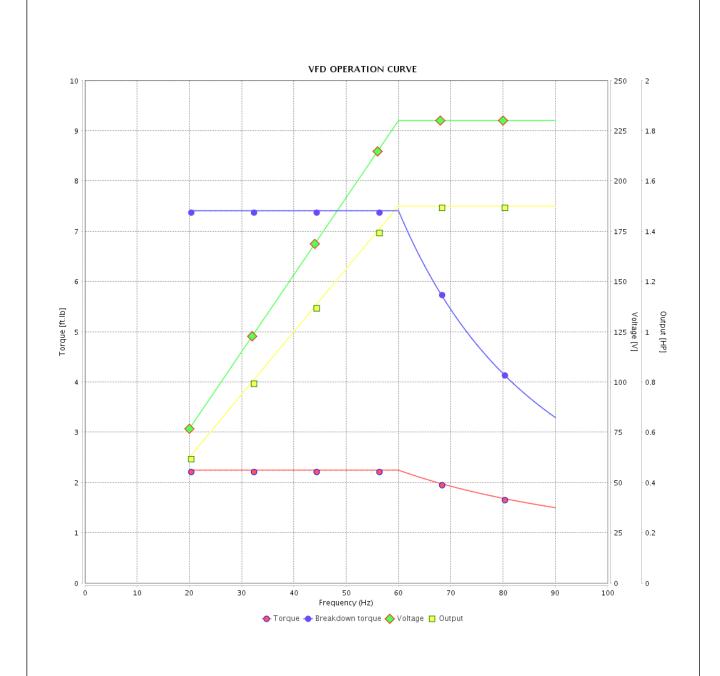
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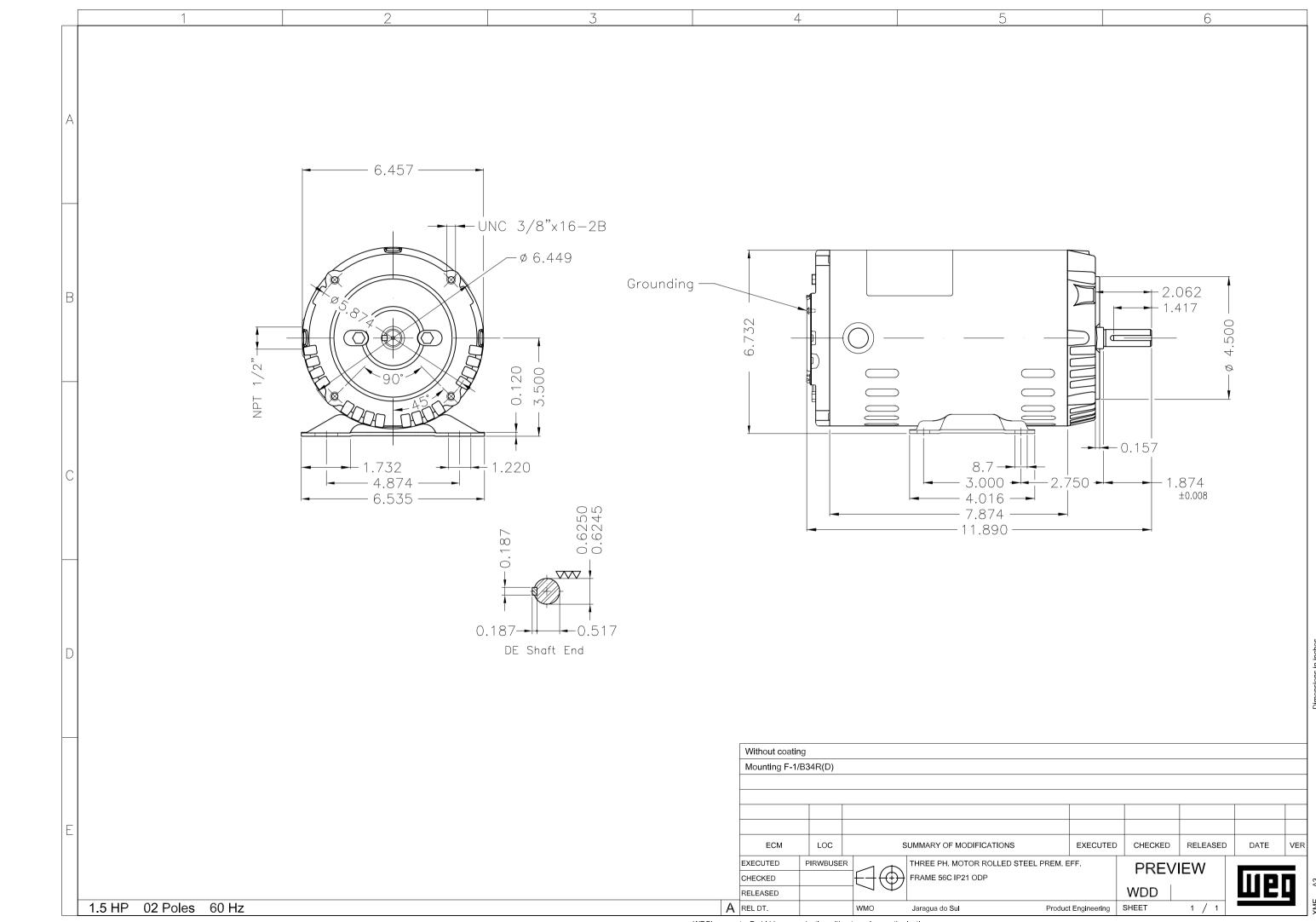
Customer

Product line : Premium Efficiency Three-Phase Product code : 12812245

Catalog #: 00156OT3E56C-S



Performance	: 23	30/460 V 60 Hz 2P					
Rated current	: 3.	.70/1.85 A Moment of inertia (J)		ment of inertia (J) : 0.0835		5 sq.ft.lb	
LRC	: 8.	.6	Duty cycle		: Cont.(S1)		
Rated torque	: 2.	24 ft.lb	Insulation class		: F		
Locked rotor torq	ue : 2	10 %	Service factor		:		
Breakdown torqu	e : 33	30 %	Temperati	Temperature rise			
Rated speed		510 rpm	Design	Design		: A	
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3PT9

Energy Verifi

N01.TO0IC0X0X

12812245

MADE IN MÉXICO

3MAR2022

MODEL 001560T3E56C-S

4

CONT 56C

8

1000 m.a.s.

F AT 80K

NSC

2°04 900

3.70/1.85 1.25/2.13

230/460 1.15

> CODE DES SABLE @ 208V 4.09A

ZPM SFA 냃 쌆

> 1.5HP 42-3.94/2.21-2.09A

LTERNATE RATING:

SF1.00 INC.

84.0%

NOM EFF

ZSOORPIM

50 Hz

190-220/380-415V

EFF 82.3%

IEC 6003 SF1.15

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 3:1 CT MOBIL POLYREX EM

8202-ZZ

ë

8204-ZZ

9

2

T2-WHT

F5-BLK

13-ORG 1-BLU

T9-BRK RED I7-PNK

T8-RED F6-GRY T4-YEL







nentation avant l'entretien de la machine

choc électrique grave. Déconnectez l'alli