DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code: 12812389

Catalog #: 00236OT3E56-S

: 56H Frame Cooling method : IC01 - ODP 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

Altitude		: 1000 m.a.s.l.	Approx. weight ³	: 35.5 lb	
Design		: A	Moment of inertia (J)	: 0.1151 sq.ft.lb	
Output [HP]		2	2	2	
Poles		2	2	2	
Frequency [Hz]		60	50	50	
Rated voltage [V]		230/460	190/380	220/415	
Rated current [A]		4.84/2.42	5.88/2.94	5.26/2.79	
L. R. Amperes [A]		43.1/21.5	40.6/20.3	40.0/21.2	
LRC [A]		8.9x(Code K)	6.9x(Code H)	7.6x(Code J)	
No load current [A	.]	1.83/0.917	1.81/0.906	1.84/0.978	
Rated speed [RPM]		3510	2890	2900	
Slip [%]		2.50	3.67	3.33	
Rated torque [ft.lb]		2.99	3.63	3.62	
Locked rotor torqu	ie [%]	220	180	200	
Breakdown torque	: [%]	330	250	280	
Service factor			1.15	1.15	
Temperature rise		80 K	80 K	80 K	
Locked rotor time		25s (cold) 14s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	
Noise level ²		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	
	25%	83.7	86.3	85.4	
Efficiency (%)	50%	84.0	85.0	84.7	
Emclericy (%)	75%	85.5	85.1	85.4	
	100%	85.5	83.4	84.3	
	25%	0.49	0.56	0.52	
Power Factor	50%	0.77	0.83	0.80	
I OWEI FACIOI	75%	0.86	0.90	0.88	
	100%	0.91	0.93	0.92	

Non drive end Drive end Foundation loads

Bearing type 6204 ZZ 6202 ZZ Max. traction : 82 lb Sealing Without Without Max. compression : 117 lb

Bearing Seal Bearing Seal

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 5.35A SF 1.00 SFA 5.35A

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

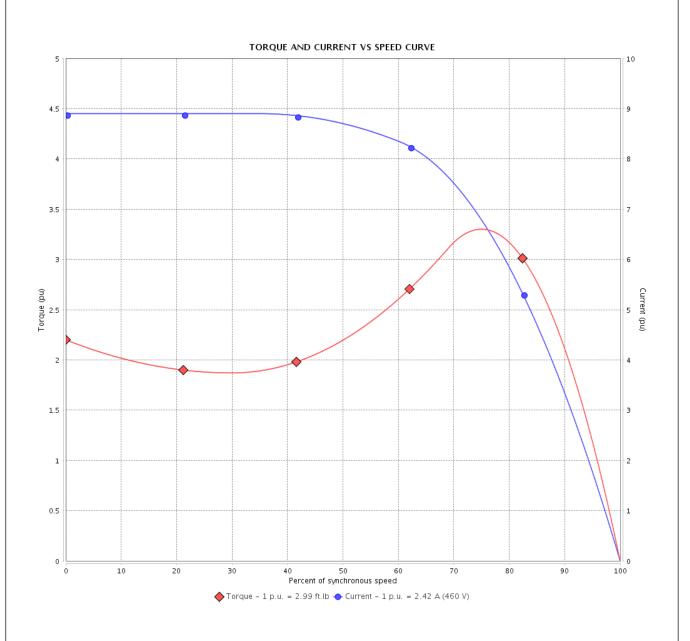
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12812389

Catalog #: 00236OT3E56-S



Performance : 230/460 V 60 Hz 2P Rated current : 4.84/2.42 A Moment of inertia (J) : 0.1151 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.99 ft.lb Service factor Locked rotor torque : 220 % : 80 K Breakdown torque : 330 % Temperature rise Rated speed : 3510 rpm Design : A

Locked rotor time : 25s (cold) 14s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

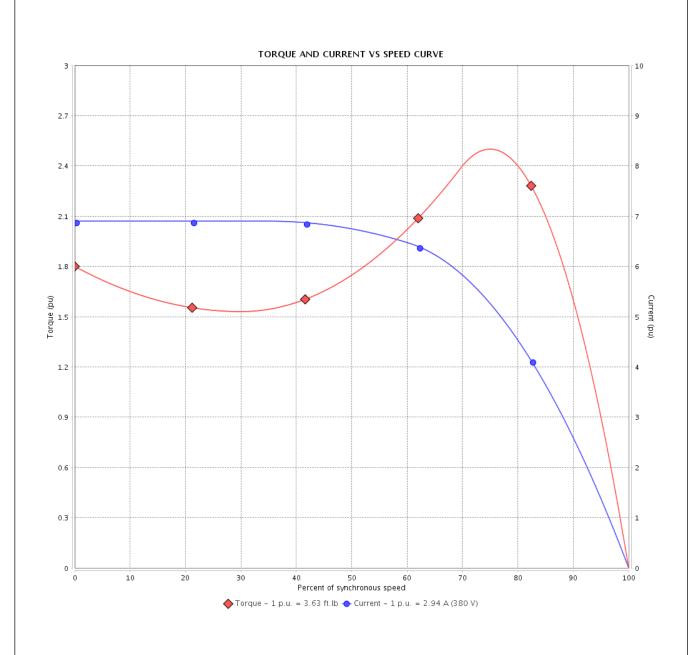
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Customer :

Product line : Premium Efficiency Three-Phase Product code : 12812389

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Performance : 190/380 V 50 Hz 2P Rated current : 5.88/2.94 A Moment of inertia (J) : 0.1151 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 3.63 ft.lb : 180 % Locked rotor torque Service factor : 1.15 : 80 K Breakdown torque : 250 % Temperature rise Rated speed : 2890 rpm Design : A

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

LOCKCO TOTOL UITA	. 1	33 (cold) 103 (110t)			
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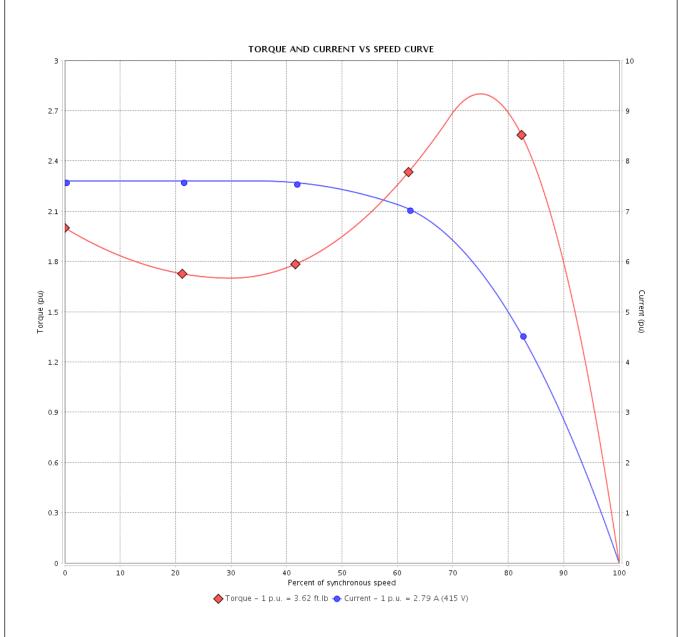
Three Phase Induction Motor - Squirrel Cage



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Performance	: 220/415 V 50 Hz 2P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.26/2.79 A : 7.6 : 3.62 ft.lb : 200 % : 280 % : 2900 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1151 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A

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

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LOAD PERFORMANCE CURVE

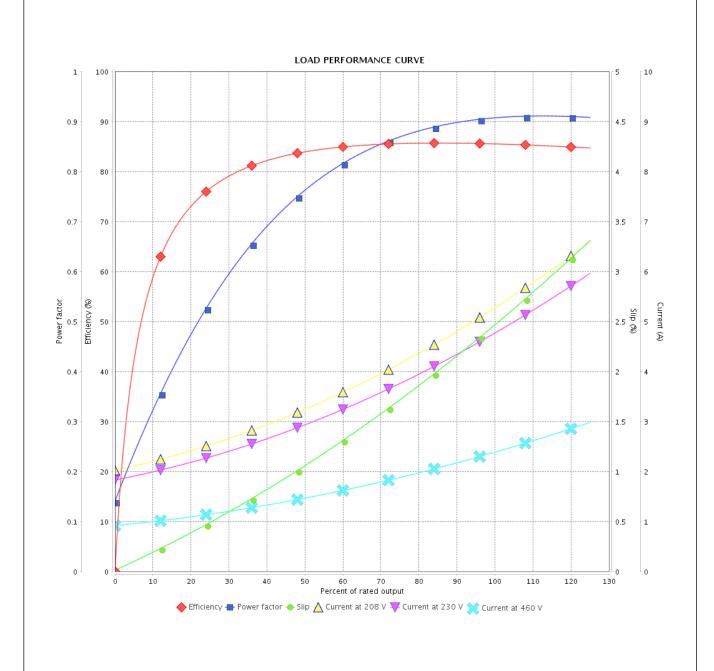
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Performance	ormance : 230/460 V 60 Hz 2P					
Rated current	: 4	.84/2.42 A	Moment o	f inertia (J)	: 0.1151 sq.ft	.lb
LRC	: 8	.9	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	.99 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	20 %	Service fa	ctor	:	
Breakdown torque	: 3	30 %	Temperature rise		: 80 K	
Rated speed	: 3	510 rpm	Design		: A	
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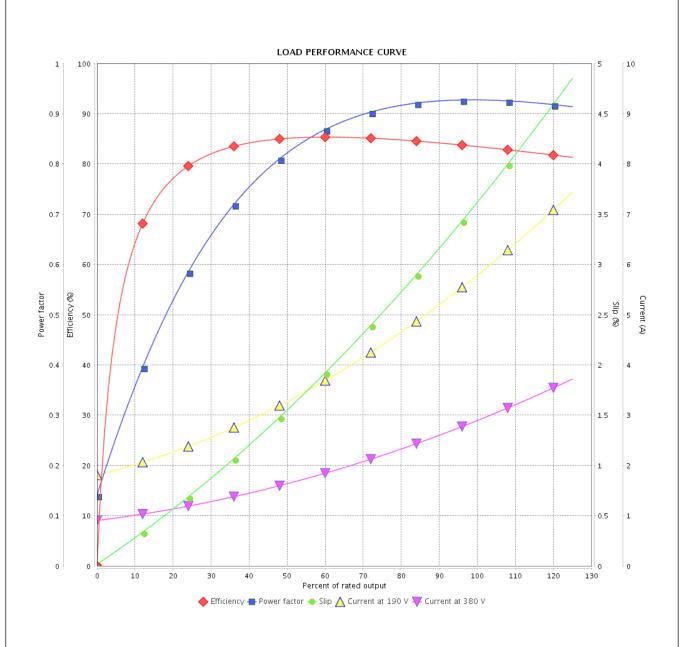
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Performance	. 4	190/380 V 50 Hz 2P	·				
renomiance	•	. 190/300 V 30 FIZ ZF					
Rated current	: 5	5.88/2.94 A	Moment o	f inertia (J)	: 0.1151 sq.ft.	.lb	
LRC	: 6	3.9	Duty cycle	;	: Cont.(S1)		
Rated torque	: 3	3.63 ft.lb	Insulation	class	: F		
Locked rotor torq	ue : 1	180 %	Service fa	Service factor		: 1.15	
Breakdown torqu	e : 2	250 %	Temperatu	Temperature rise			
Rated speed		2890 rpm	Design		: A		
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Date

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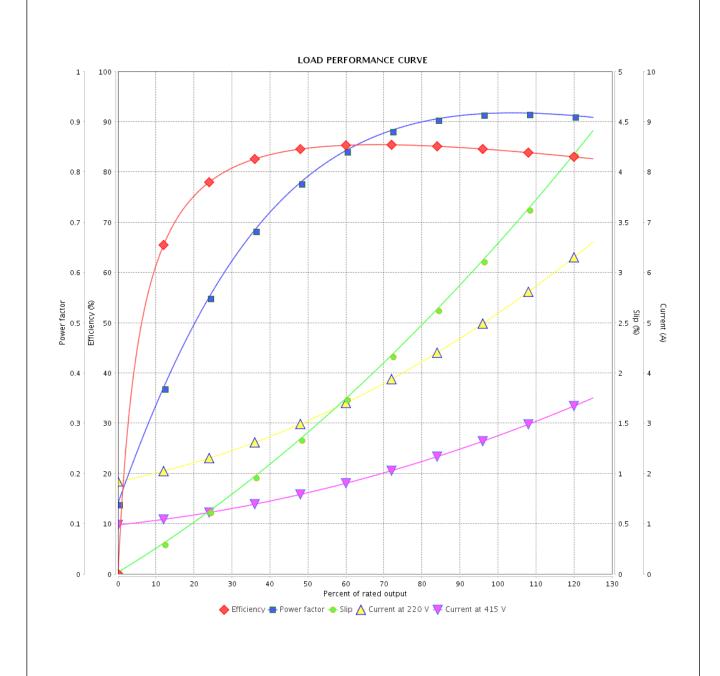
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Performance	. 2	20/415 V 50 Hz 2P				
Rated current		.26/2.79 A	Moment	finartia (I)	. 0 11E1 og ff	lh.
			l l	f inertia (J)	: 0.1151 sq.ft.	ID
LRC	: 7	· -	Duty cycle		: Cont.(S1)	
Rated torque	: 3	.62 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	00 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	80 %	Temperature rise		: 80 K	
Rated speed	: 2	900 rpm	Design		: A	
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THERMAL LIMIT CURVE

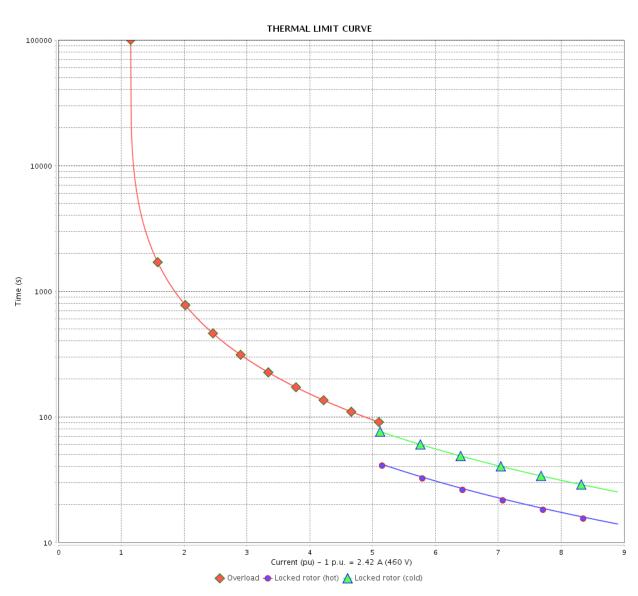
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Performance : 230/460 V 60 Hz 2P : 4.84/2.42 A Moment of inertia (J) : 0.1151 sq.ft.lb Rated current **LRC** Duty cycle : Cont.(S1) : 8.9 : 2.99 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 330 % : 80 K Breakdown torque Temperature rise Rated speed Design : 3510 rpm : A Heating constant Cooling constant

Cooling constant	<u>.</u>				
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THERMAL LIMIT CURVE

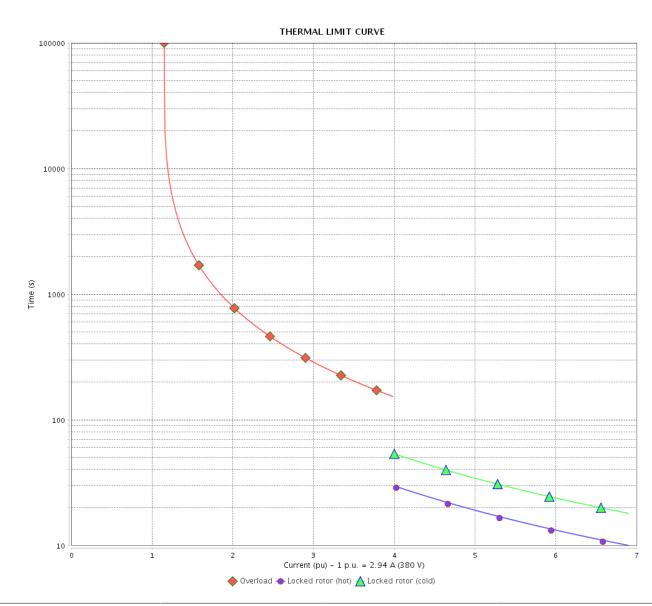
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Performance : 190/380 V 50 Hz 2P : 5.88/2.94 A Moment of inertia (J) : 0.1151 sq.ft.lb Rated current **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 3.63 ft.lb : F Locked rotor torque : 180 % Service factor : 1.15 : 250 % : 80 K Breakdown torque Temperature rise Rated speed : 2890 rpm Design : A Heating constant Cooling constant

Cooling constant

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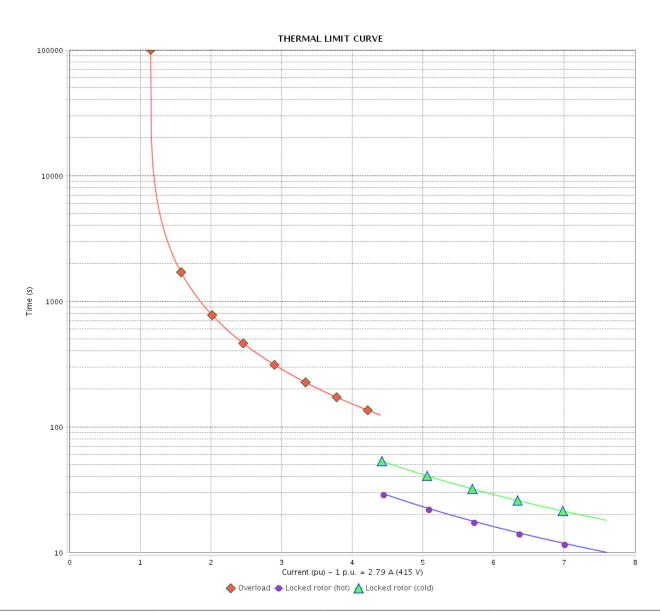
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Product line : Premium Efficiency Three-Phase Product code : 12812389

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Performance : 220/415 V 50 Hz 2P : 5.26/2.79 A Moment of inertia (J) : 0.1151 sq.ft.lb Rated current **LRC** : 7.6 Duty cycle : Cont.(S1) Insulation class : 3.62 ft.lb : F Rated torque : 200 % Locked rotor torque Service factor : 1.15 : 280 % : 80 K Breakdown torque Temperature rise Rated speed Design : 2900 rpm : A Heating constant Cooling constant

Cooling constant					
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

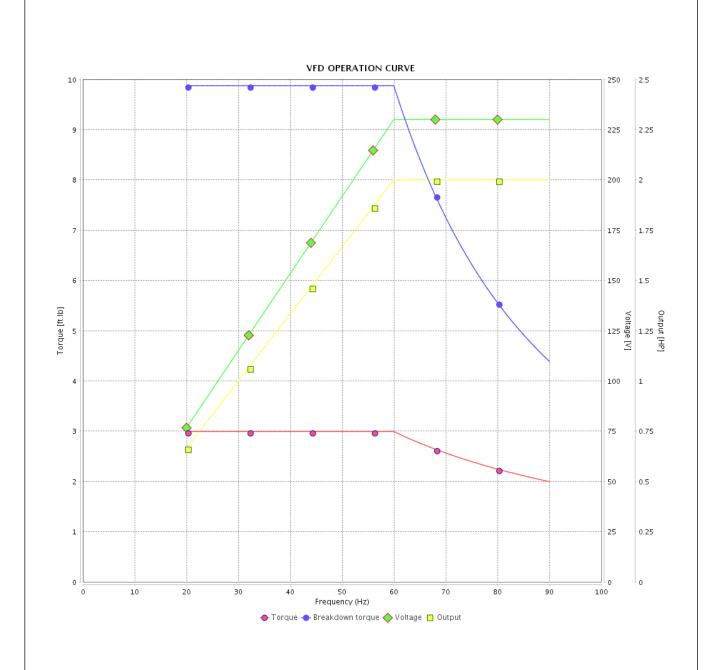
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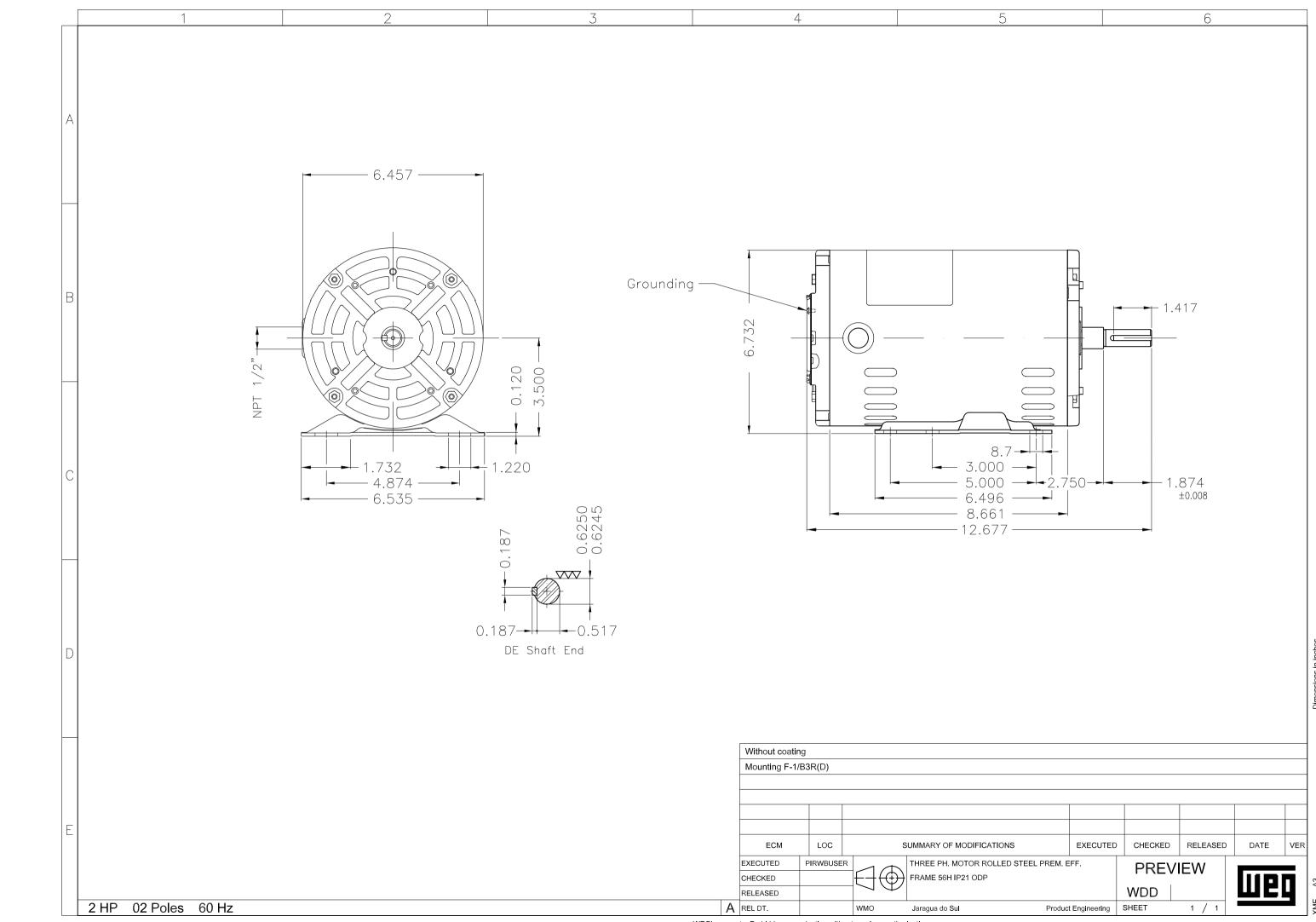


Performance	: 230/460 V 60 Hz 2P					
Rated current	: 4.84/2.42 A	Moment of inertia (J)		: 0.1151 sq.ft.lb		
LRC	: 8.9	Duty cycle		: Cont.(S1)		
Rated torque	: 2.99 ft.lb	Insulation class		: F		
Locked rotor torque	: 220 %	Service factor		:		
Breakdown torque	: 330 %	Temperature rise		: 80 K		
Rated speed	: 3510 rpm	: 3510 rpm Design		: A		
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N01.TO0IC0X0X 12812389 MADE IN MÉXICO

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Energy Verifi

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MODEL 002360T3E56-S AN2022

8 4 CONT 26H

1000 m.a.s. F AT 80K

DES

2°04 900

NSC

5.57/2.78

230/460 1.15

> CODE SABLE @ 208V 5.35A

ZPM 3FA 냃 뿝

> 2.0HP 5.88-5.11/2.94-2.71A LTERNATE RATING:

SF1.00 INC. 2

85.5%

NOM EFF

50 Hz 8202-ZZ

ZSOORPIM

ODE

8204-ZZ

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 3:1 CT 190-220/380-415V **EFF 83.4%**

IEC 60034

SF1.15

9

2

MOBIL POLYREX EM

T2-WHT

T4-YEL

13-ORG 1-BLU I7-PNK F5-BLK

shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

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

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

WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical

