DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809607

Catalog #: 00112OT3E56-S

Frame : 56H 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 : 40.1 lb Altitude : 1000 m.a.s.l. Approx. weight³ Design Moment of inertia (J) : A : 0.1951 sq.ft.lb

Output [HP]		1	1	1
Poles		6	6	6
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		3.36/1.68	3.82/1.91	3.55/1.88
L. R. Amperes [A]		20.8/10.4	18.3/9.17	18.8/9.96
LRC [A]		6.2x(Code K)	4.8x(Code G)	5.3x(Code H)
No load current [A	.]	2.40/1.20	2.34/1.17	2.36/1.25
Rated speed [RPN	Л]	1160	940	945
Slip [%]		3.33	6.00	5.50
Rated torque [ft.lb]		4.53	5.59	5.56
Locked rotor torque [%]		240	190	210
Breakdown torque [%]		300	229	260
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		46s (cold) 26s (hot)	46s (cold) 26s (hot)	41s (cold) 23s (hot)
Noise level ²		50.0 dB(A)	48.0 dB(A)	48.0 dB(A)
	25%	75.7	78.8	77.0
Efficiency (%)	50%	77.0	78.2	77.1
Efficiency (70)	75%	81.5	79.6	79.5
	100%	82.5	78.3	79.0
	25%	0.25	0.30	0.28
Power Factor	50%	0.45	0.53	0.50
Fower Factor	75%	0.58	0.67	0.63
	100%	0.68	0.76	0.73

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6204 ZZ 6202 ZZ Max. traction : 122 lb Sealing : Without Without Max. compression : 162 lb

Bearing Seal Bearing Seal

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

Notes

USABLE @208V 3.71A SF 1.00 SFA 3.71A

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

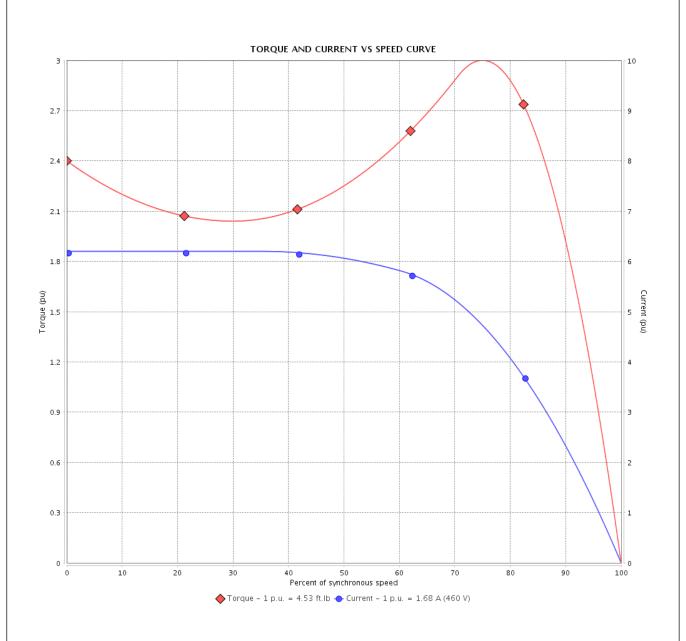
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809607

Catalog #: 00112OT3E56-S



Performance : 230/460 V 60 Hz 6P Rated current : 3.36/1.68 A Moment of inertia (J) : 0.1951 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : F : 4.53 ft.lb Insulation class Rated torque : 240 % Service factor Locked rotor torque : 80 K Breakdown torque : 300 % Temperature rise Rated speed : 1160 rpm Design : A

Locked rotor time : 46s (cold) 26s (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: 12809607 Catalog #: 00112OT3E56-S TORQUE AND CURRENT VS SPEED CURVE 2.25 4.5 1.75 3.5 Torque (pu) 0.75 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.59 ft.lb ◆ Current - 1 p.u. = 1.91 A (380 V) Performance : 190/380 V 50 Hz 6P Rated current : 3.82/1.91 A Moment of inertia (J) : 0.1951 sq.ft.lb **LRC** : 4.8 Duty cycle : Cont.(S1) : 5.59 ft.lb Insulation class : F Rated torque : 190 % Service factor Locked rotor torque : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 940 rpm Design : A Locked rotor time : 46s (cold) 26s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

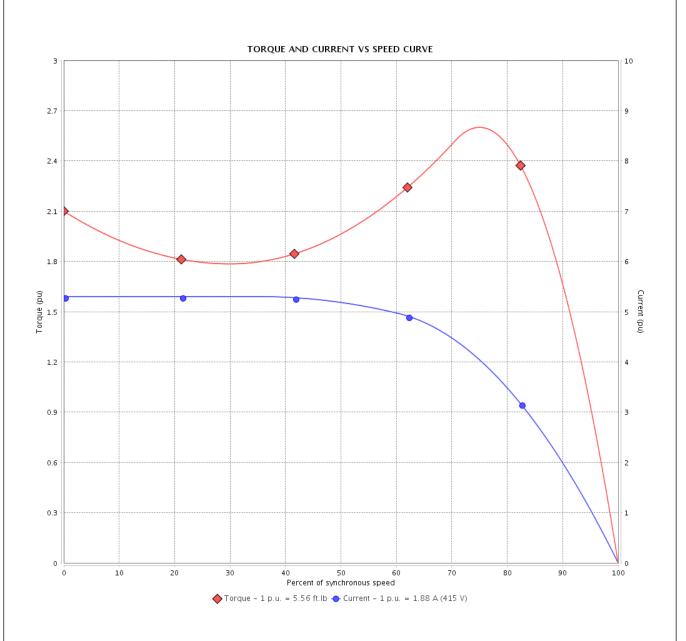
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809607

Catalog # : 00112OT3E56-S



Performance : 220/415 V 50 Hz 6P Rated current : 3.55/1.88 A Moment of inertia (J) : 0.1951 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 5.56 ft.lb Service factor Locked rotor torque : 210 % : 1.15 : 80 K Breakdown torque : 260 % Temperature rise Rated speed : 945 rpm Design : A

Locked rotor time : 41s (cold) 23s (hot)

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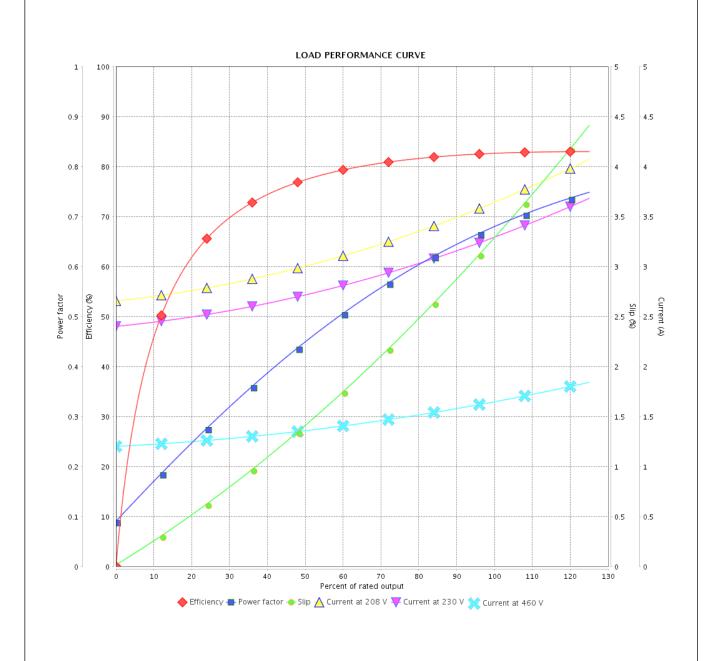
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Customer

Product line : Premium Efficiency Three-Phase Product code : 12809607

Catalog #: 00112OT3E56-S



Performance	: 2	230/460 V 60 Hz 6P				
Rated current	::	3.36/1.68 A	Moment o	f inertia (J)	: 0.1951 sq.ft.lb	
LRC	: (6.2	Duty cycle	}	: Cont.(S1)	
Rated torque		4.53 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	240 %	Service fa	Service factor		
Breakdown torque	: ;	300 %	Temperature rise		: 80 K	
Rated speed	: '	1160 rpm	Design		: A	
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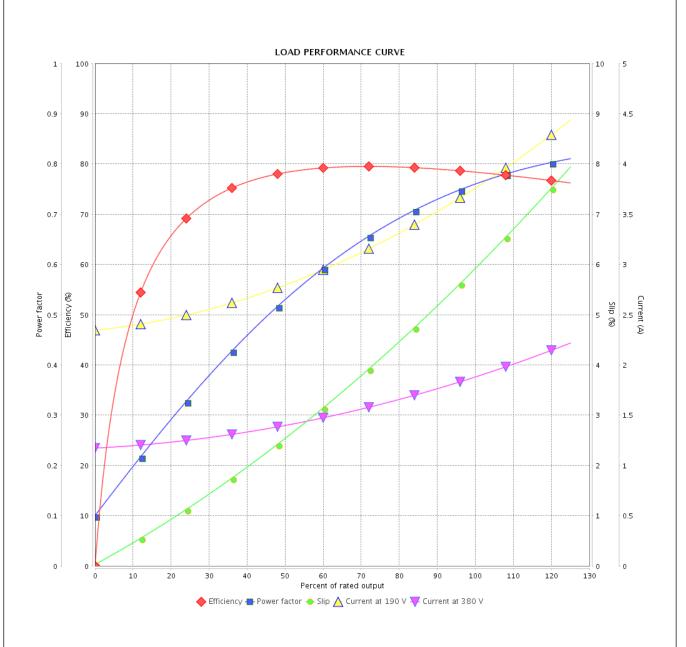
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Product line : Premium Efficiency Three-Phase Product code : 12809607

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Performance : 190/380 V 50 Hz 6P : 3.82/1.91 A Rated current Moment of inertia (J) : 0.1951 sq.ft.lb **LRC** : 4.8 Duty cycle : Cont.(S1) : 5.59 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 940 rpm Design : A Rev. Performed Checked Date **Changes Summary**

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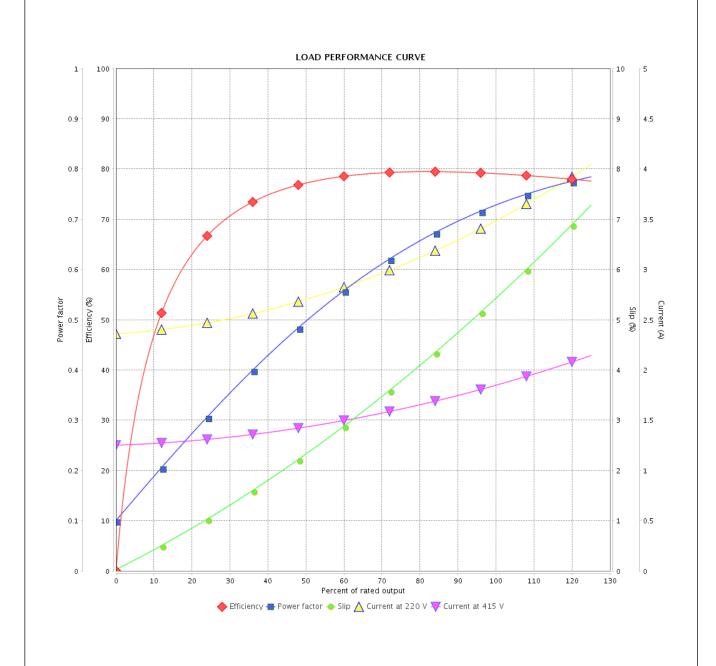
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Rated current LRC	: 3.55/1.88 A : 5.3	Moment of Duty cycle	of inertia (J)	: 0.1951 sq.ft.	.lb
Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.56 ft.lb : 210 % : 260 % : 945 rpm	Insulation Service fa Temperati Design	class actor	: Cont.(S1) : F : 1.15 : 80 K : A	
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THERMAL LIMIT CURVE

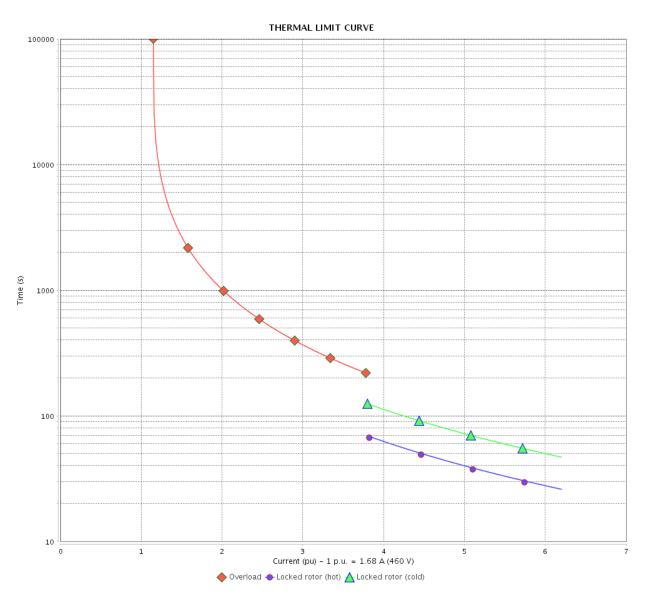
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J					
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THERMAL LIMIT CURVE

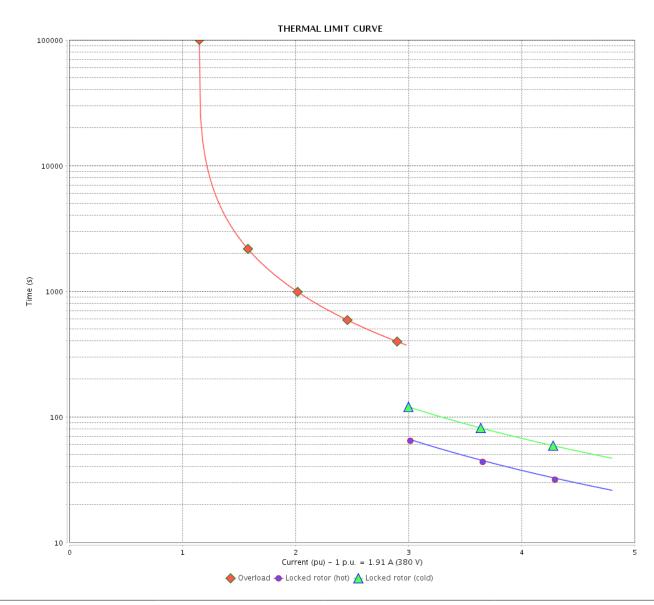
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: 190/380 V 50 Hz 6P		
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Cooling constant	t					
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THERMAL LIMIT CURVE

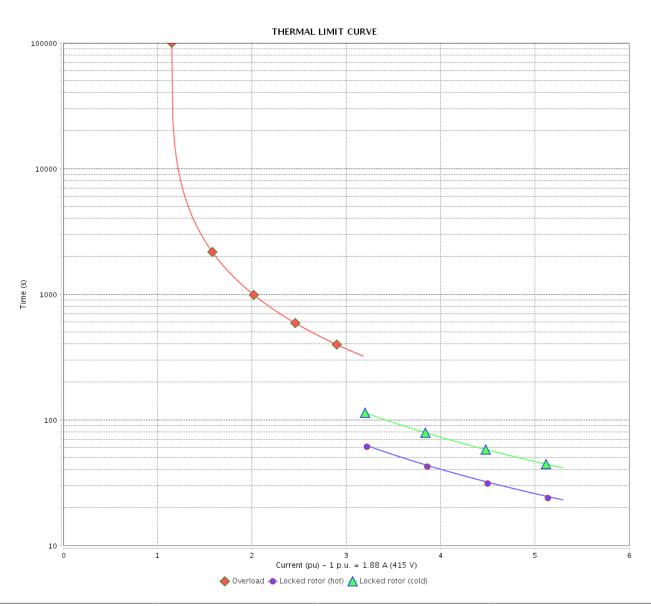
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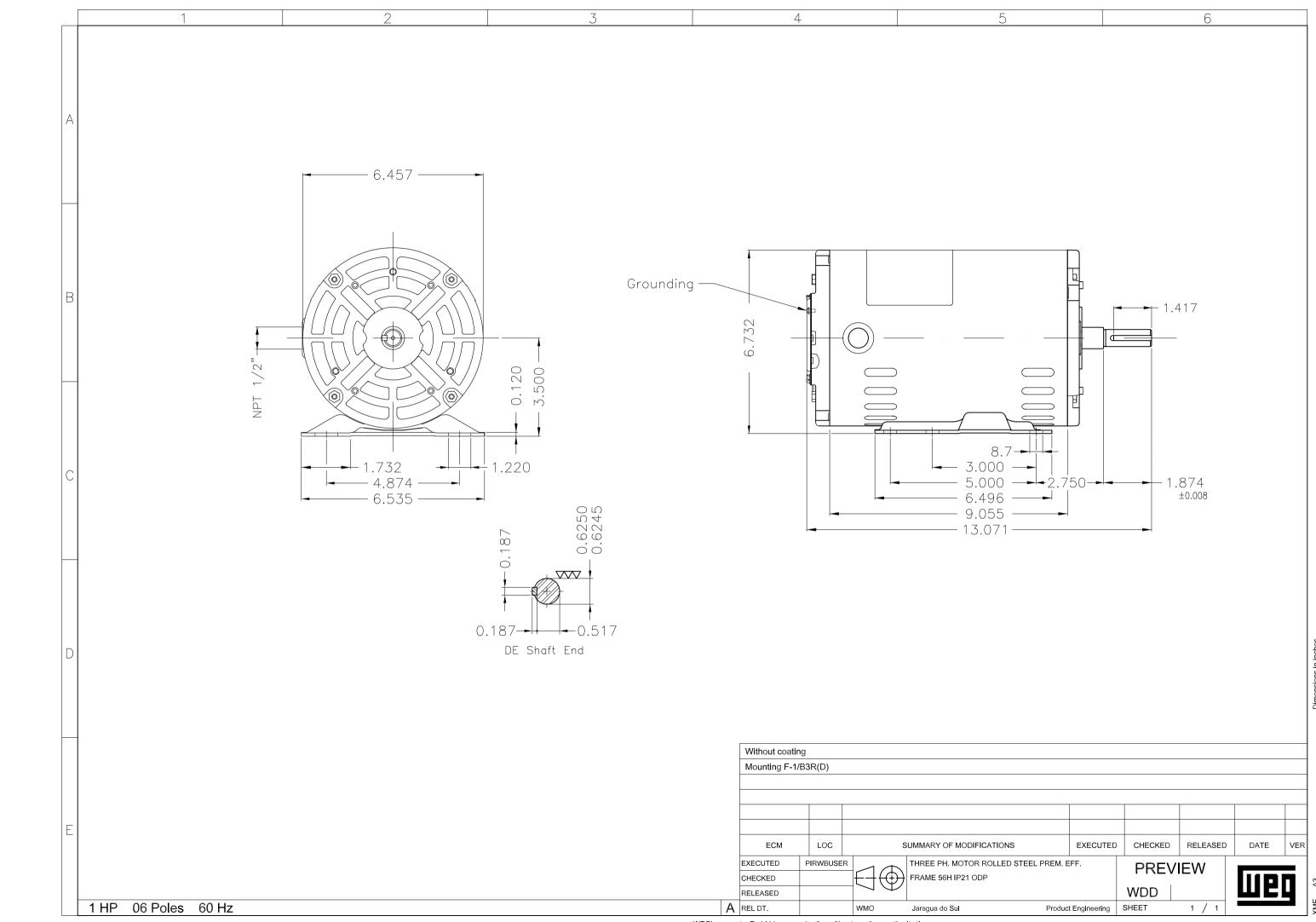
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Performance : 220/415 V 50 Hz 6P Rated current : 3.55/1.88 A Moment of inertia (J) : 0.1951 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.3 : 5.56 ft.lb Insulation class : F Rated torque Locked rotor torque : 210 % Service factor : 1.15 : 80 K : 260 % Breakdown torque Temperature rise Rated speed : 945 rpm Design : A Heating constant

Cooling constant

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Energy Verifi

N01.TO0IC0X0X 12809607 MADE IN MÉXICO

MODEL 001120T3E56-S B/N MAR2022

8 4 CONT 26H

1000 m.a.s.

3.36/1.68 230/460 3.86/1

> 3FA 냃

> > CODE DES F AT 80K

2°04 900

NSC

HO! SABLE @ 208V 3.72A LTERNATE RATING:

SF1.00 INC.

NOM EFF ZPM 쌆

.15

82.5%

190-220/380-415V

940RPM

3.82-3.55/1.91-1.88A

50 Hz

IEC 6003 SF1.15

> Inverter duty motor For 80Hz use on VPWM 1000:1 VT. MOBIL POLYREX EM **EFF 78.3%**

8202-ZZ

ODE

8204-ZZ

9

2





shocks. Disconnect power source before servicing unit. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

T9-BRK RED I7-PNK F5-BLK

choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre