DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12808937

Catalog # : .2536OT3E56-S

Frame : 56 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

Ambient temperature		: -20°C to +40°C	Starting method	: Direct On Line
Altitude		: 1000 m.a.s.l.	Approx. weight ³	: 15.9 lb
			Moment of inertia (J)	: 0.0389 sq.ft.lb
Output [HP]		0.25	0.25	0.25
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		208-230/460	190/380	220/415
Rated current [A]		1.01-0.918/0.459	0.988/0.494	0.926/0.491
L. R. Amperes [A]		7.00-6.33/3.17	5.43/2.72	5.37/2.85
LRC [A]		6.9x(Code M)	5.5x(Code J)	5.8x(Code J)
No load current [A]	0.604-0.700/0.350	0.638/0.319	0.662/0.351
Rated speed [RPN	1]	3525	2900	2910
Slip [%]		2.08	3.33	3.00
Rated torque [ft.lb]		0.372	0.453	0.451
Locked rotor torqu	e [%]	240	180	200
Breakdown torque	[%]	330	270	300
Service factor			1.35	1.35
Temperature rise		80 K	80 K	80 K
Locked rotor time		77s (cold) 43s (hot)	97s (cold) 54s (hot)	88s (cold) 49s (hot)
Noise level ²		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
	25%	53.3	56.4	54.1
Efficiency (%)	50%	55.0	58.8	56.9
Liliciency (70)	75%	64.0	65.6	64.4
	100%	65.6	68.3	67.8
	25%	0.31	0.36	0.33
Power Factor	50%	0.56	0.62	0.58
1 OWEL FACIOI	75%	0.66	0.73	0.69
	100%	0.75	0.81	0.78
		Duive and New duive and	Coundation loads	

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

Bearing type : 6203 ZZ 6202 ZZ Max. traction : 5 lb Sealing : Without Without Max. compression : 21 lb

Bearing Seal Bearing Seal

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

Notes

USABLE @208V SF 1.00

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

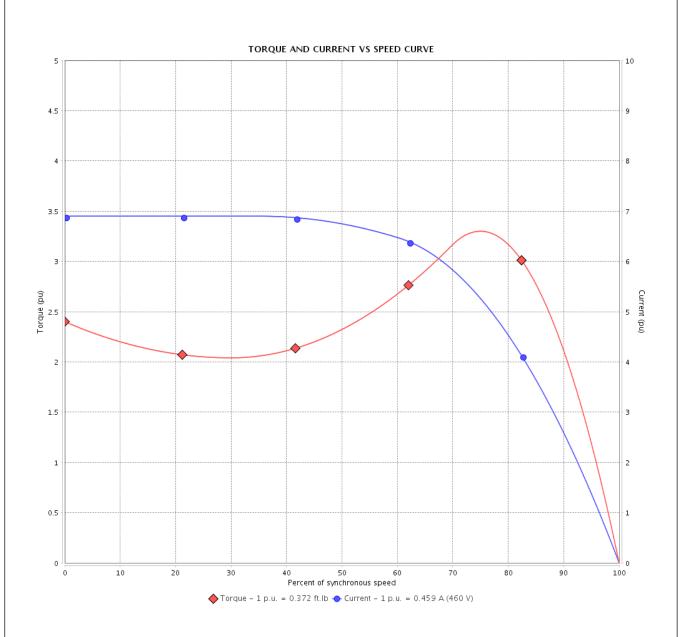
Three Phase Induction Motor - Squirrel Cage



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Product line : Premium Efficiency Three-Phase Product code : 12808937

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Performance : 208-230/460 V 60 Hz 2P Rated current : 1.01-0.918/0.459 A Moment of inertia (J) : 0.0389 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 0.372 ft.lb Insulation class : F Rated torque Service factor Locked rotor torque : 240 % : 80 K Breakdown torque : 330 % Temperature rise

Locked rotor time : 77s (cold) 43s (hot)

: 3525 rpm

Rated speed

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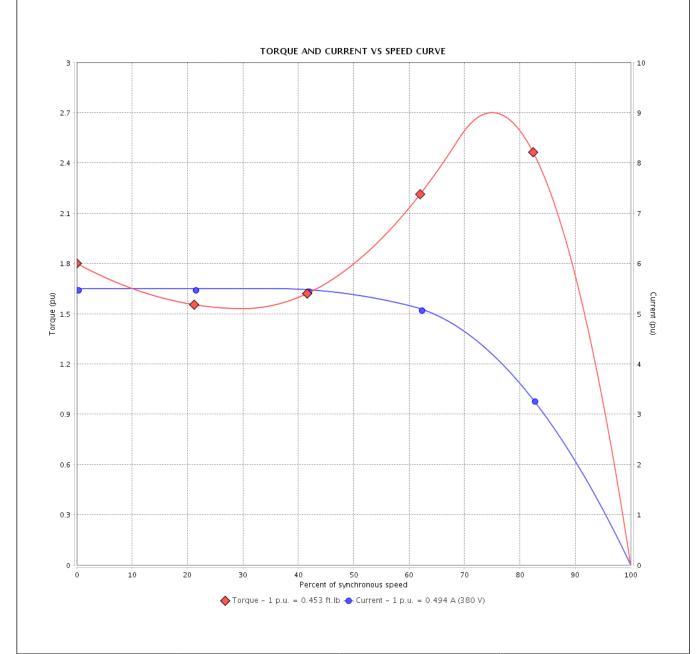
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Performance : 190/380 V 50 Hz 2P Rated current : 0.988/0.494 A Moment of inertia (J) : 0.0389 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) : 0.453 ft.lb Insulation class : F Rated torque : 180 % Locked rotor torque Service factor : 1.35 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2900 rpm

Locked rotor time : 97s (cold) 54s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

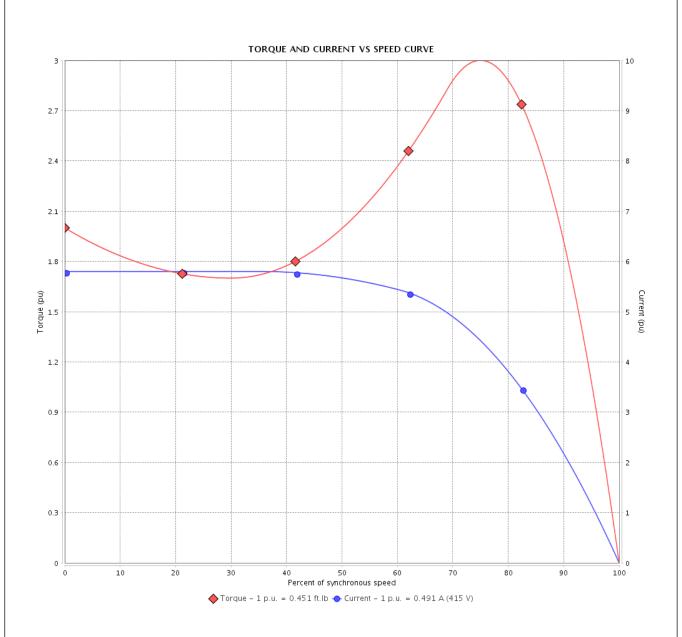
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Customer :

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Performance : 220/415 V 50 Hz 2P

: 2910 rpm

Rated current : 0.926/0.491 A | Moment of inertia (J) : 0.0389 sq.ft.lb LRC : 5.8 | Duty cycle : Cont.(S1)

LRC : 5.8 Duty cycle : Cont.(S°)
Rated torque : 0.451 ft.lb Insulation class : F
Locked rotor torque : 200 % Service factor : 1.35
Breakdown torque : 300 % Temperature rise : 80 K

Locked rotor time : 88s (cold) 49s (hot)

Rated speed

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LOAD PERFORMANCE CURVE

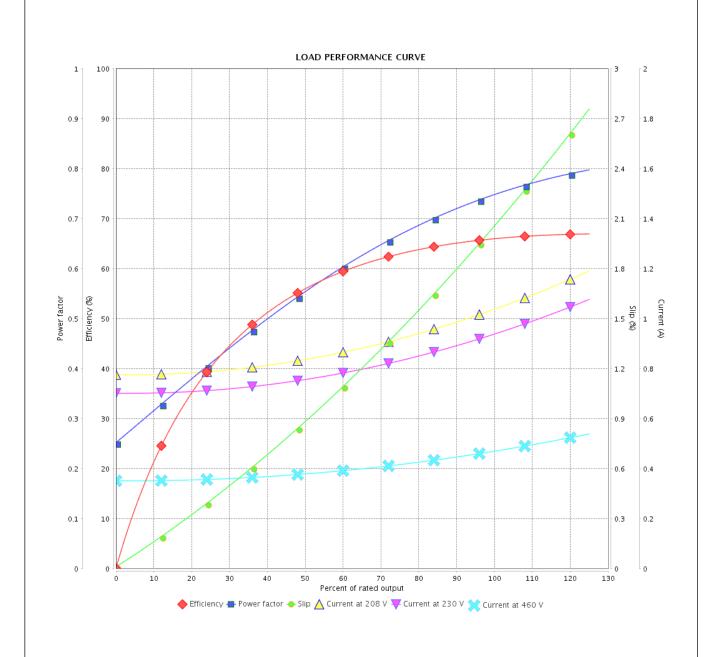
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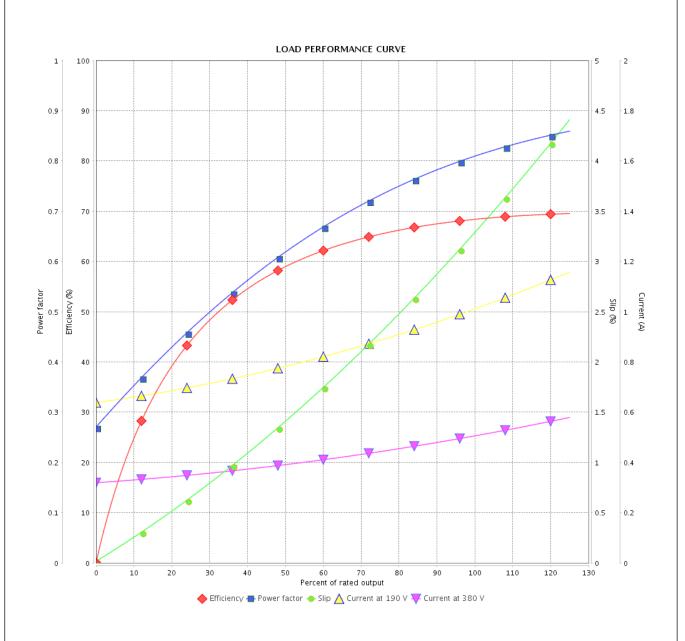
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 : 190/380 V 50 Hz 2P

 Rated current
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 Moment of inertia (J)
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 : 5.5
 Duty cycle
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Rated torque : 0.453 ft.lb Insulation class : F
Locked rotor torque : 180 % Service factor : 1.35
Breakdown torque : 270 % Temperature rise : 80 K

Rated speed : 2900 rpm

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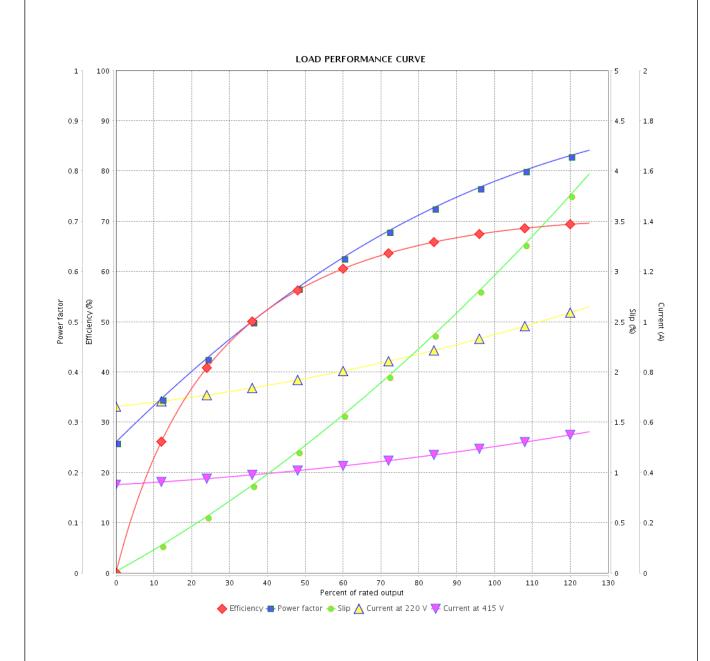
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THERMAL LIMIT CURVE

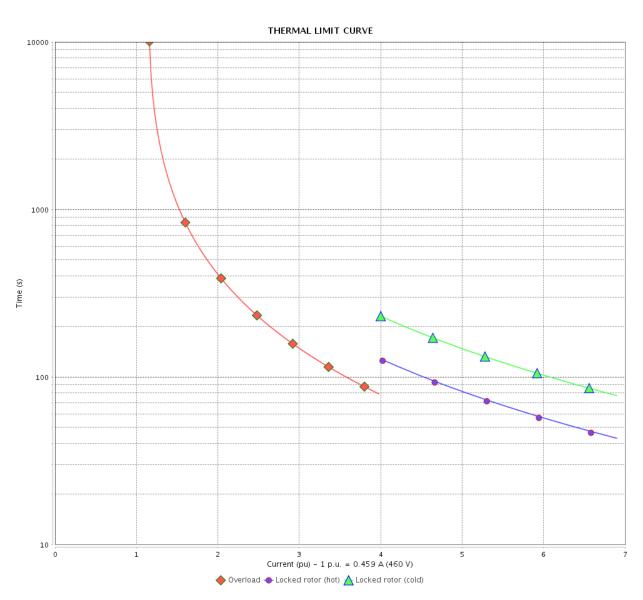
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Heating constant Cooling constant

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THERMAL LIMIT CURVE

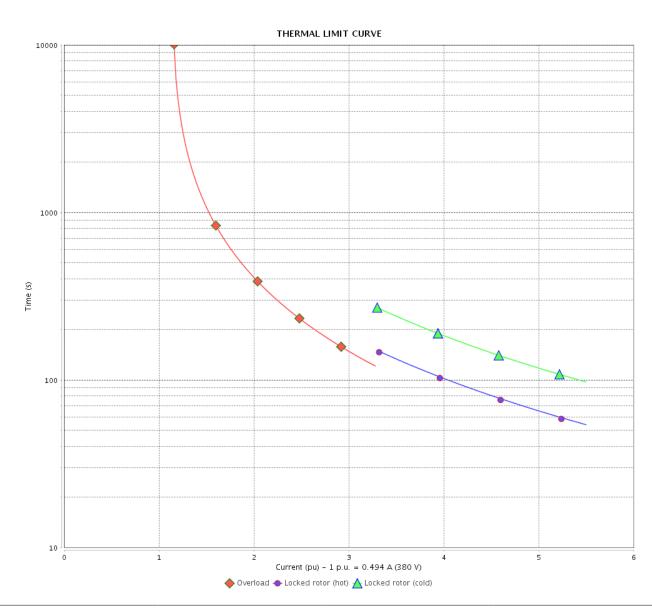
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Cooling constant	t				
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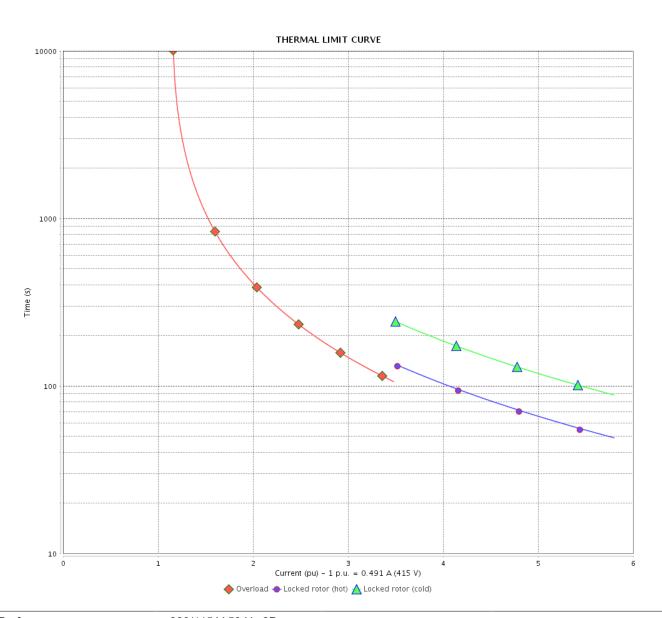
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VFD OPERATION CURVE

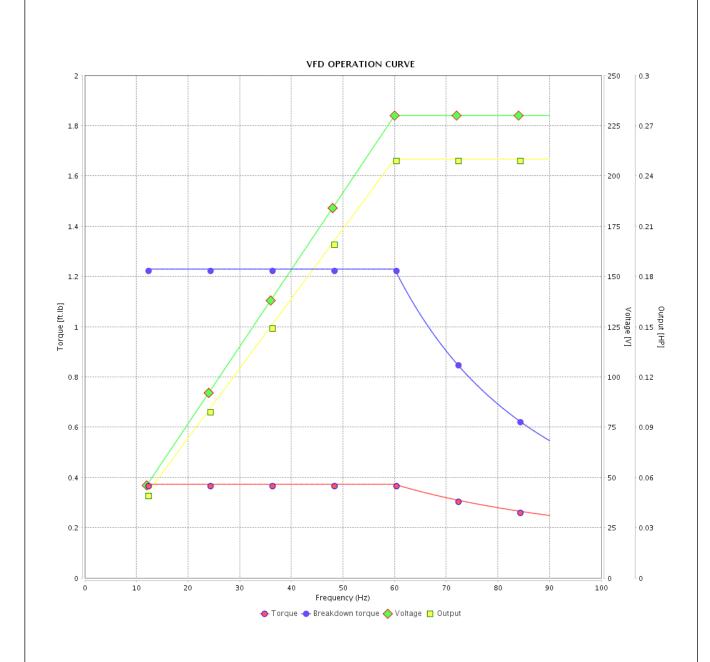
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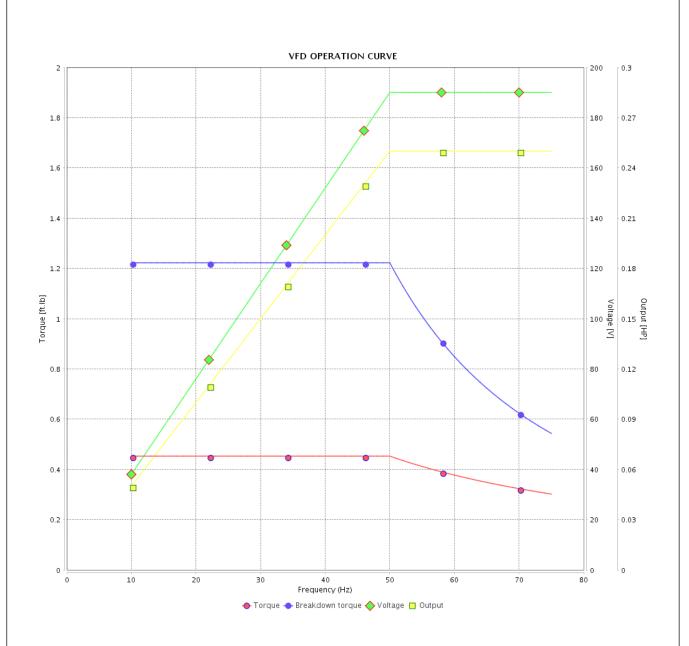
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 : 5.5
 Duty cycle
 : Cont.(S1)

Rated torque : 0.453 ft.lb Insulation class : F
Locked rotor torque : 180 % Service factor : 1.35
Breakdown torque : 270 % Temperature rise : 80 K

Rated speed : 2900 rpm

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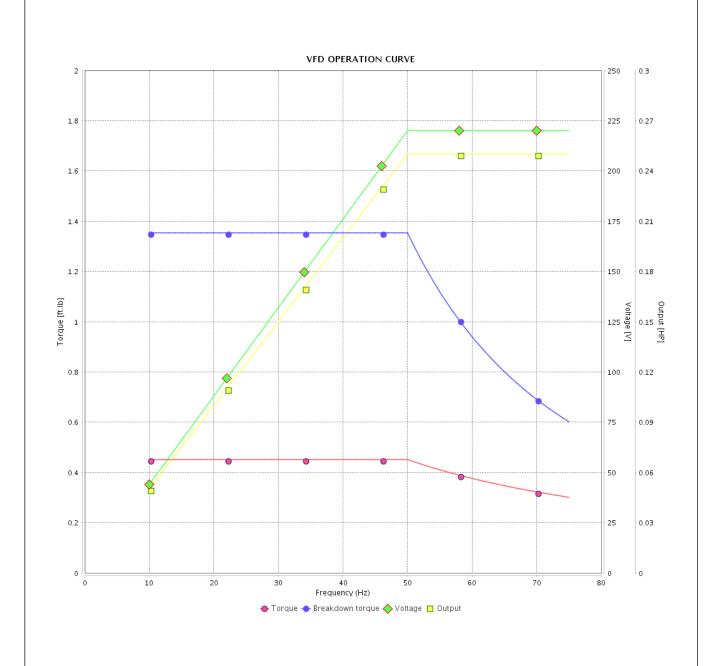
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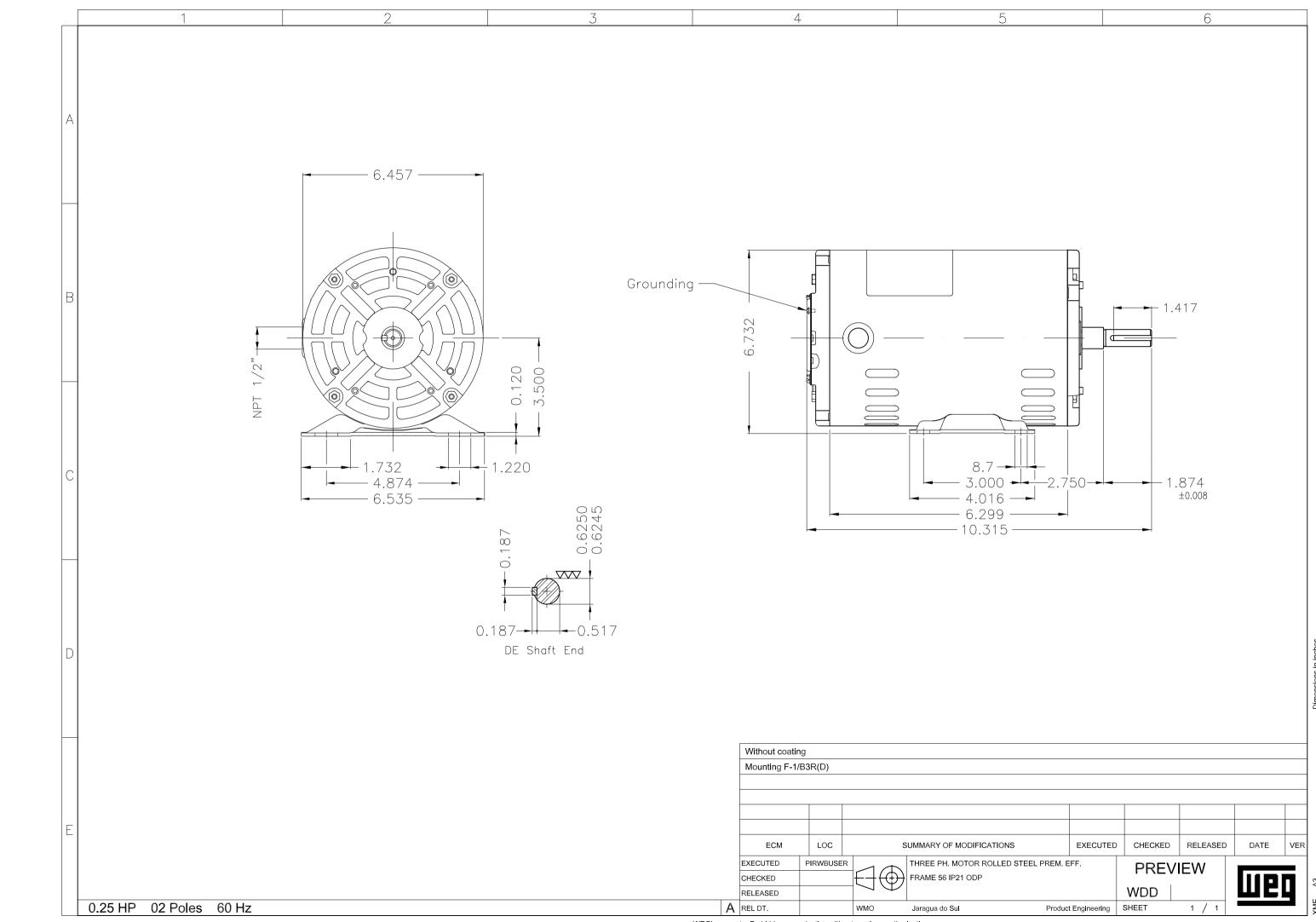
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Energy Verifi

N01.TO0IC0X0X 12808937 MADE IN MÉXICO



2MAR2022

3	99	CONT.	1000 m.a.s.
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99			

0.918/0.4591.24/0.620

1.35

230/460 0.18

> CODE DES SABLE @ 208V 1.02A

F AT 80K

SCL

2°04 900

0.25HP 3.988-0.938/0.494-0.497A LTERNATE RATING:

SF1.00 NCL 문

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 2900RPM 8202-ZZ 9 900

8203-ZZ

牌

2

MOBIL POLYREX EM

T2-WHT

IEC 6003 SF1.35

190-220/380-415V

65.6%

WG. F.L

H ZPM 냃 쌆

50 Hz

EFF 67.2%

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

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION





shocks. Disconnect power source before servicing unit. WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical