## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12808932

Catalog # : .2518OT3E56C-S

Frame : 56C 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

Daty by o.c		. 00111.(01)	- totation	: Both (Orr and Corr)
Ambient temperature		: -20°C to +40°C	Starting method	: Direct On Line
Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 16.2 lb
			Moment of inertia (J)	: 0.0389 sq.ft.lb
Output [HP]		0.25	0.25	0.25
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		208-230/460	190/380	220/415
Rated current [A]		1.18-1.07/0.533	1.14/0.571	1.10/0.585
L. R. Amperes [A]		6.96-6.29/3.14	5.71/2.85	5.63/2.98
LRC [A]		5.9x(Code M)	5.0x(Code J)	5.1x(Code K)
No load current [A		0.862-1.00/0.500	0.910/0.455	0.956/0.507
Rated speed [RPN	<b>/</b> 1]	1765	1455	1460
Slip [%]		1.94	3.00	2.67
Rated torque [ft.lb]		0.744	0.902	0.899
Locked rotor torque [%]		229	170	190
Breakdown torque	[%]	330	270	300
Service factor			1.35	1.35
Temperature rise		80 K	80 K	80 K
Locked rotor time		68s (cold) 38s (hot)	84s (cold) 47s (hot)	75s (cold) 42s (hot)
Noise level <sup>2</sup>		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	53.6	56.6	53.6
Efficiency (%)	50%	57.5	59.2	56.6
Efficiency (%)	75%	64.0	66.3	64.5
	100%	69.5	69.4	68.3
Power Factor	25%	0.22	0.27	0.24
	50%	0.41	0.48	0.44
1 OWEL FACIOI	75%	0.52	0.59	0.55
	100%	0.61	0.69	0.65
		D: 1 N: 1:		

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

Bearing type : 6203 ZZ 6202 ZZ Max. traction : 18 lb Sealing : Without Without Max. compression : 34 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

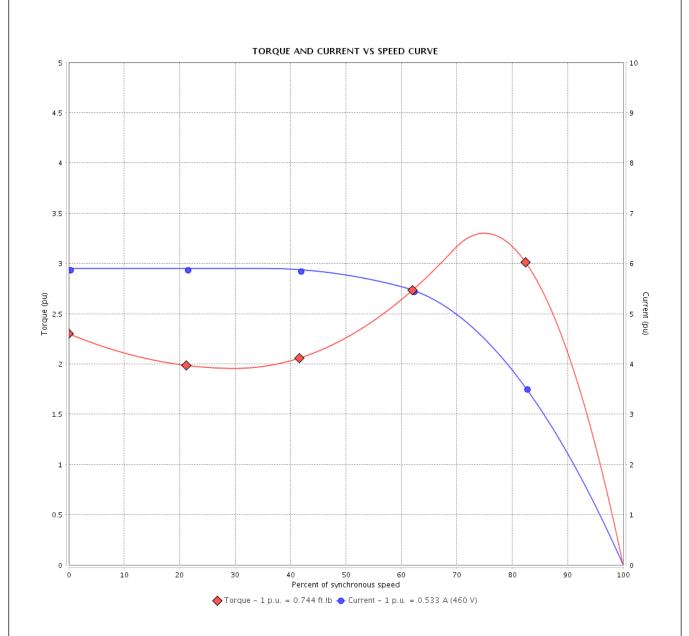
### Three Phase Induction Motor - Squirrel Cage



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Product line : Premium Efficiency Three-Phase Product code : 12808932

Catalog #: .2518OT3E56C-S



Performance : 208-230/460 V 60 Hz 4P Rated current : 1.18-1.07/0.533 A Moment of inertia (J) : 0.0389 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) : 0.744 ft.lb Insulation class : F Rated torque : 229 % Service factor Locked rotor torque : 80 K Breakdown torque : 330 % Temperature rise

Locked rotor time : 68s (cold) 38s (hot)

: 1765 rpm

Rated speed

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## TORQUE AND CURRENT VS SPEED CURVE

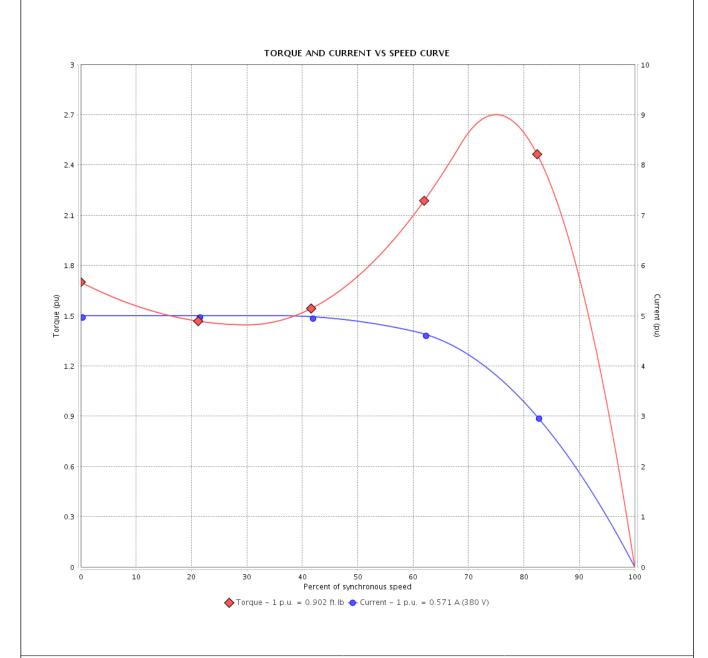
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Product line : Premium Efficiency Three-Phase Product code : 12808932

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Performance : 190/380 V 50 Hz 4P Rated current : 1.14/0.571 A Moment of inertia (J) : 0.0389 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) : 0.902 ft.lb Insulation class : F Rated torque : 170 % Locked rotor torque Service factor : 1.35 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1455 rpm

Locked rotor time : 84s (cold) 47s (hot)

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## TORQUE AND CURRENT VS SPEED CURVE

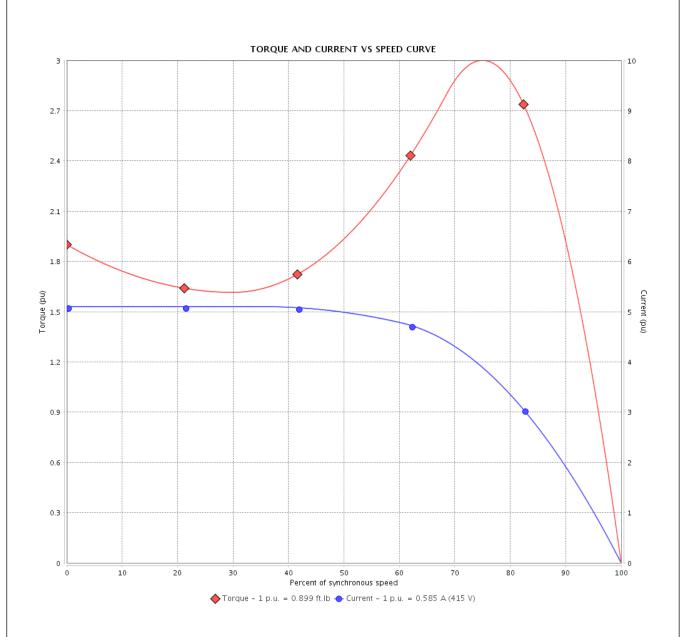
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12808932

Catalog # : .2518OT3E56C-S



 Performance
 : 220/415 V 50 Hz 4P

 Rated current
 : 1.10/0.585 A
 Moment of inertia (J)
 : 0.0389 sq.ft.lb

LRC : 5.1 | Duty cycle : Cont.(S1)

Rated torque : 0.899 ft.lb Insulation class : F
Locked rotor torque : 190 % Service factor : 1.35
Breakdown torque : 300 % Temperature rise : 80 K

Locked rotor time : 75s (cold) 42s (hot)

: 1460 rpm

Rated speed

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# LOAD PERFORMANCE CURVE

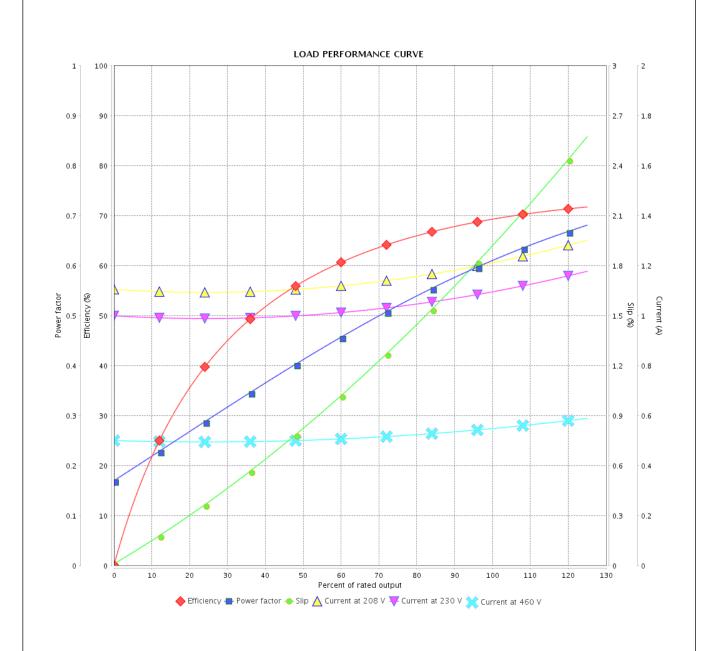
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 Performance
 : 208-230/460 V 60 Hz 4P

 Rated current
 : 1.18-1.07/0.533 A
 Moment of inertia (J)
 : 0.0389 sq.ft.lb

 LRC
 : 5.9
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 0.744 ft.lb
 Insulation class
 : F

Locked rotor torque : 229 % Service factor : Breakdown torque : 330 % Temperature rise : 80 K

Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1765 rpm

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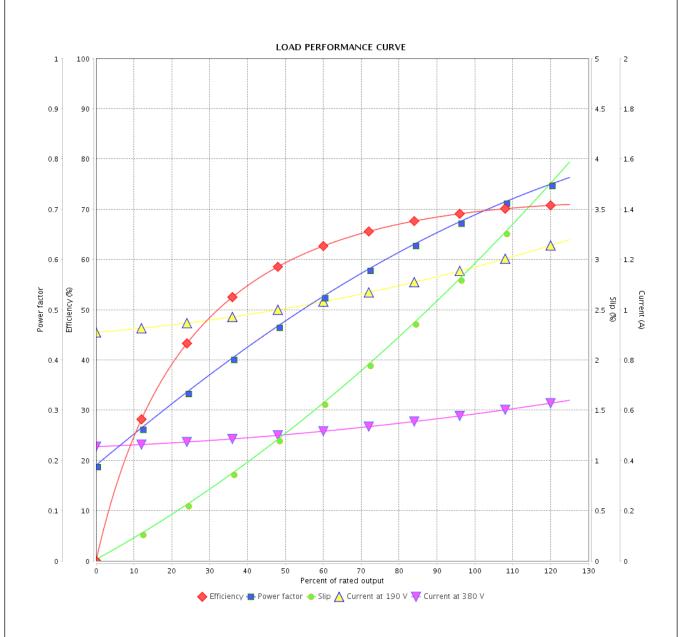
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Performance : 190/380 V 50 Hz 4P : 1.14/0.571 A Rated current Moment of inertia (J) : 0.0389 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) : 0.902 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.35 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1455 rpm

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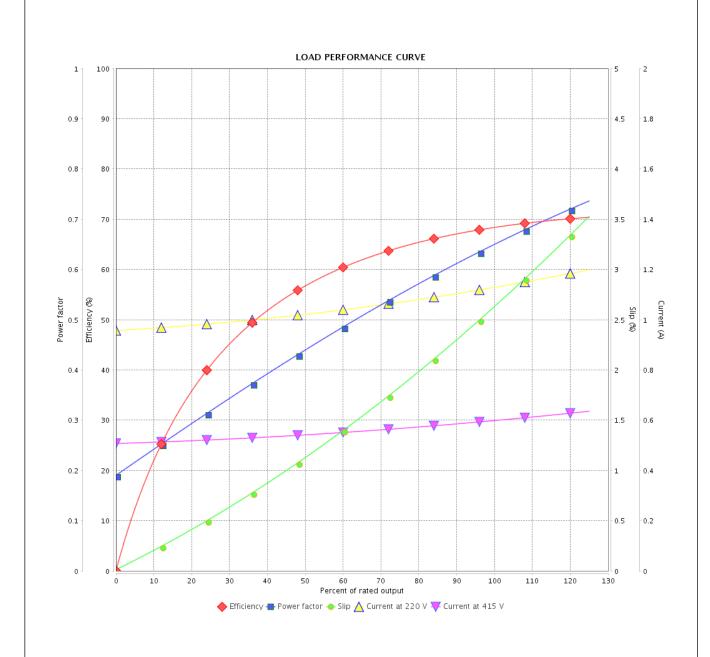
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Performance : 220/415 V 50 Hz 4P : 1.10/0.585 A Rated current Moment of inertia (J) : 0.0389 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) : 0.899 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.35 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1460 rpm

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## THERMAL LIMIT CURVE

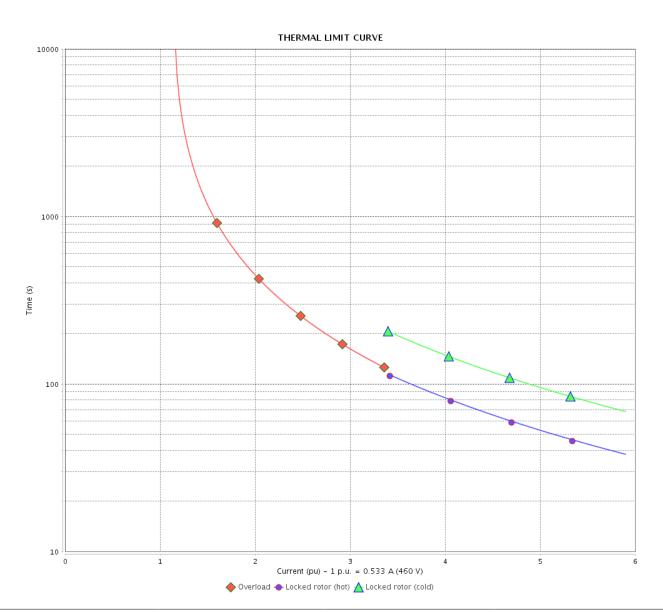
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 Rated current
 : 1.18-1.07/0.533 A
 Moment of inertia (J)
 : 0.0389 sq.ft.lb

 LRC
 : 5.9
 Duty cycle
 : Cont.(S1)

Rated torque : 0.744 ft.lb Insulation class : F Locked rotor torque : 229 % Service factor :

Breakdown torque : 330 % Temperature rise : 80 K
Rated speed : 1765 rpm

Heating constant Cooling constant

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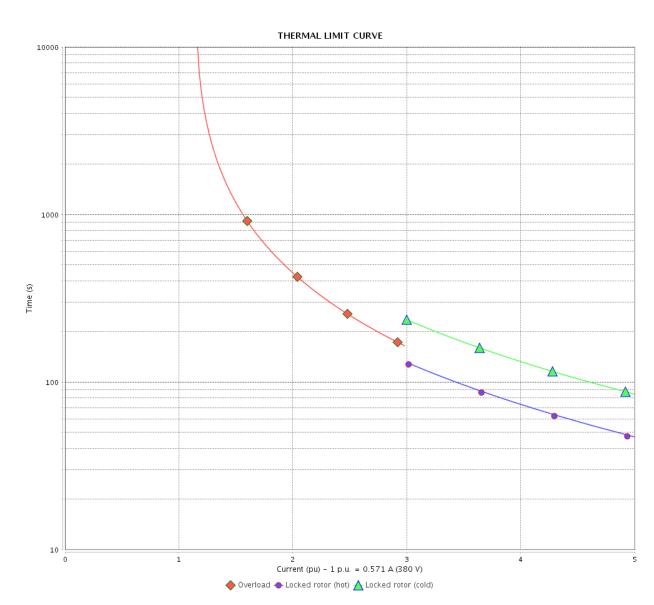
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Cooling constant

Cooling constan	L				
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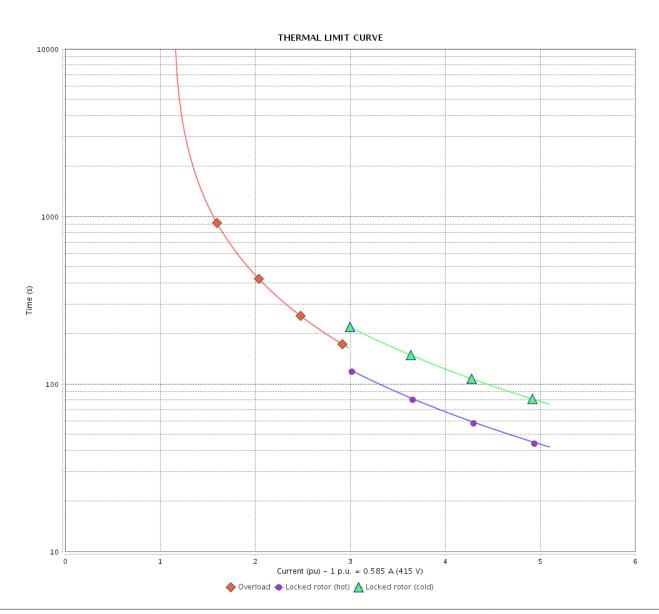
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: 1460 rpm

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Rated speed Heating constant

Cooling constant

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# VFD OPERATION CURVE

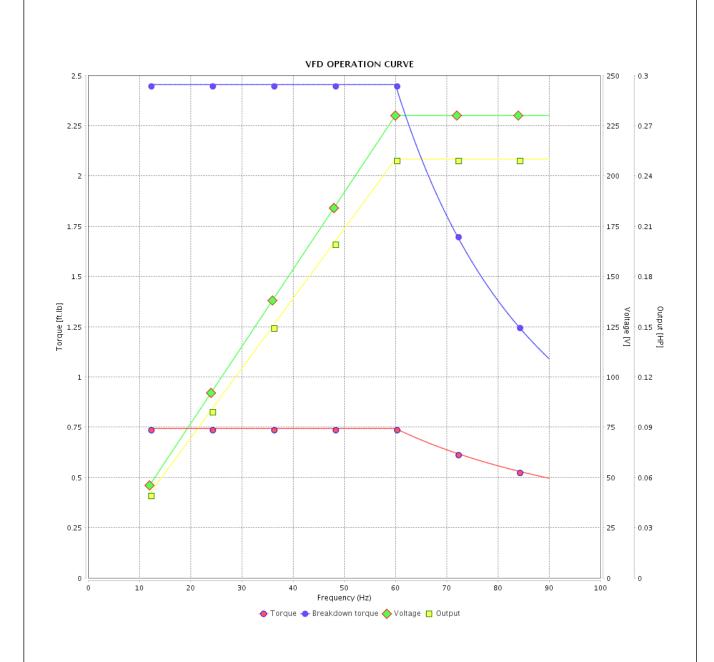
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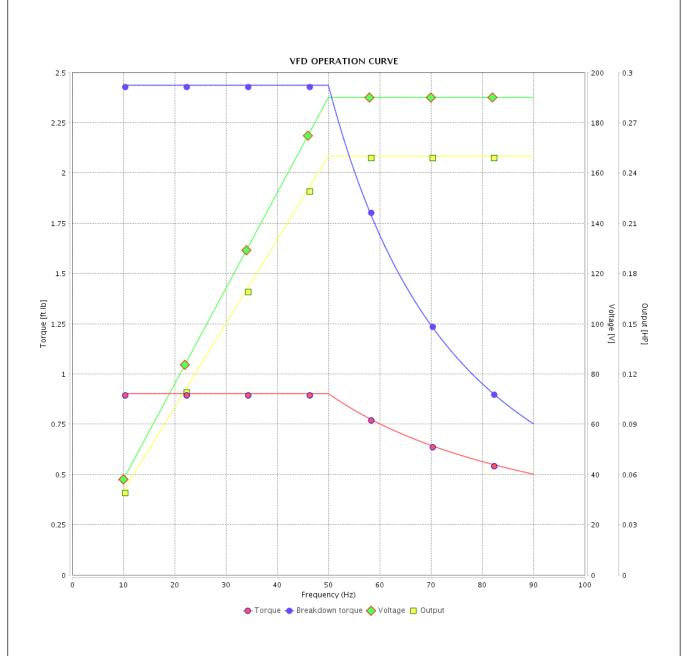
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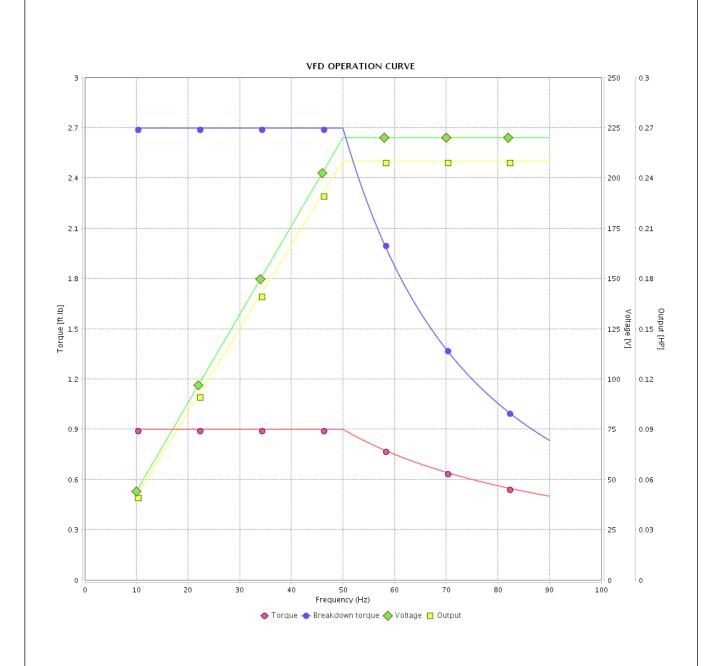
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 LRC
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 Duty cycle
 : Cont.(S1)

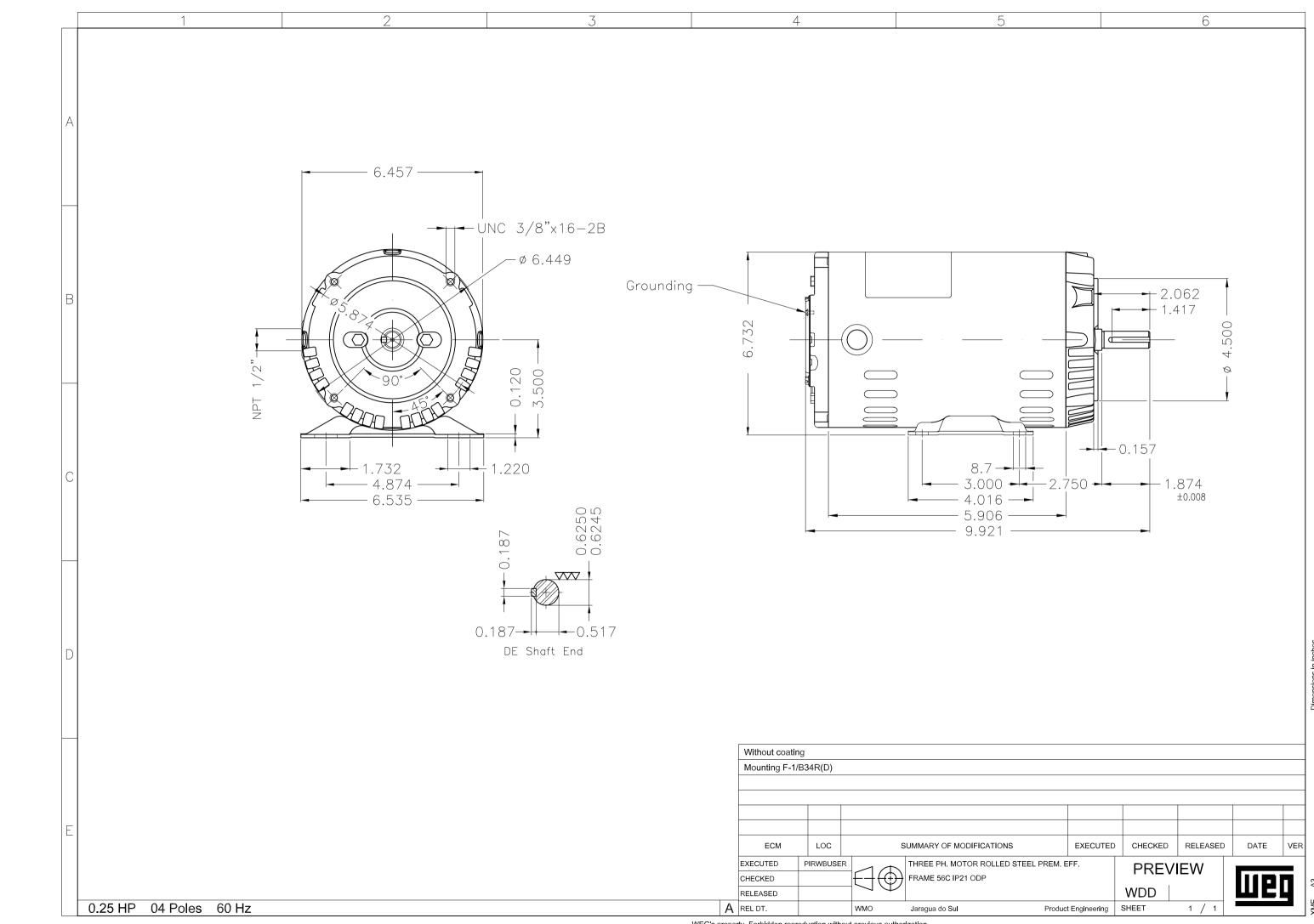
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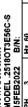
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Energy Verifi

N01.TO0IC0X0X 12808932 MADE IN MÉXICO



9 4 5FEB2022

CONT 560

1000 m.a.s.l

1.07/0.533

230/460 0.18

> CODE SABLE @ 208V 1.18A 900

DES

2°04

F AT 80K

NSC

LTERNATE RATING:

SF1.00 INC.

50 Hz 8202-ZZ 0.25HP 9

.14-1.15/0.571-0.612A

1455RPM

800

8203-ZZ

牌

2

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. MOBIL POLYREX EM **EFF 67.1%** 

IEC 60034-1

SF1.35

190-220/380-415V

69.5%

WG. F.L

H ZPM 3FA 냃 쌆

T2-WHT

13-ORG 1-BLU F5-BLK

F6-GRY T4-YEL

shocks. Disconnect power source before servicing unit. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical





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