DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13497507

Catalog # : .2518OT3E48-S

Frame : 48 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

: 1000 m.a.s.l. : 13.4 lb Altitude Approx. weight³ Moment of inertia (J) : 0.0280 sq.ft.lb 0.25 0.25 Output [HP] 0.25 Poles 4 4 4 Frequency [Hz] 60 50 50 Rated voltage [V] 208-230/460 190/380 220/415 Rated current [A] 1.06-0.964/0.482 1.03/0.514 0.987/0.523 L. R. Amperes [A] 6.04-5.49/2.75 4.73/2.36 4.74/2.51 LRC [A] 5.7x(Code K) 4.6x(Code G) 4.8x(Code H) No load current [A] 0.660-0.766/0.383 0.773/0.410 0.750/0.375 Rated speed [RPM] 1740 1430 1420 Slip [%] 3.33 5.33 4.67 Rated torque [ft.lb] 0.754 0.925 0.918 Locked rotor torque [%] 250 180 210 Breakdown torque [%] 340 240 270 Service factor 1.35 1.15 Temperature rise 80 K 80 K 80 K Locked rotor time 61s (cold) 34s (hot) 75s (cold) 42s (hot) 68s (cold) 38s (hot) Noise level² 50.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 57.5 59.4 57.4 50% 62.0 59.5 60.0 Efficiency (%) 75% 68.0 67.0 66.0 100% 70.0 70.0 69.0 25% 0.26 0.30 0.28 50% 0.46 0.53 0.50 Power Factor 75% 0.58 0.66 0.62

Drive end Non drive end Foundation loads

0.76

Bearing type : 6203 ZZ 6202 ZZ Max. traction : 21 lb Sealing : Without Without Max. compression : 34 lb

Bearing Seal Bearing Seal

0.67

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

100%

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.

0.72

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TORQUE AND CURRENT VS SPEED CURVE

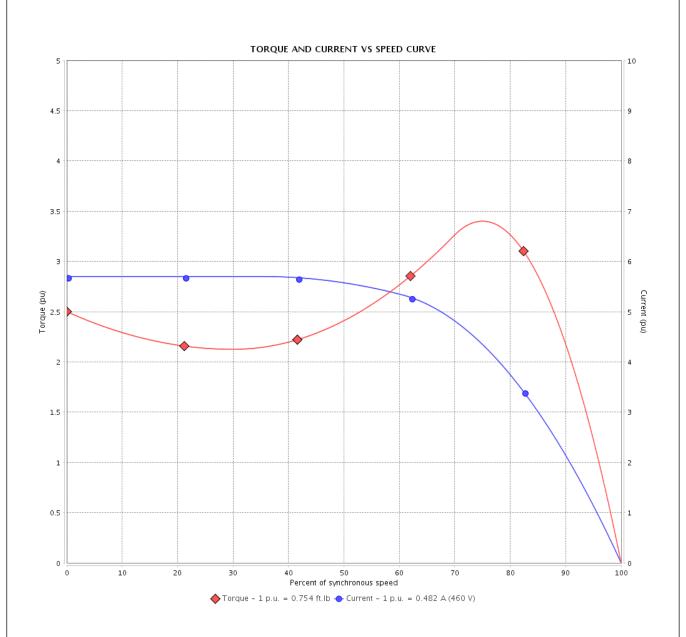
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13497507

Catalog # : .2518OT3E48-S



Performance : 208-230/460 V 60 Hz 4P Rated current : 1.06-0.964/0.482 A Moment of inertia (J) : 0.0280 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 0.754 ft.lb Insulation class : F Rated torque : 250 % Service factor Locked rotor torque

Breakdown torque : 340 % Temperature rise : 80 K
Rated speed : 1740 rpm

Locked rotor time : 61s (cold) 34s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

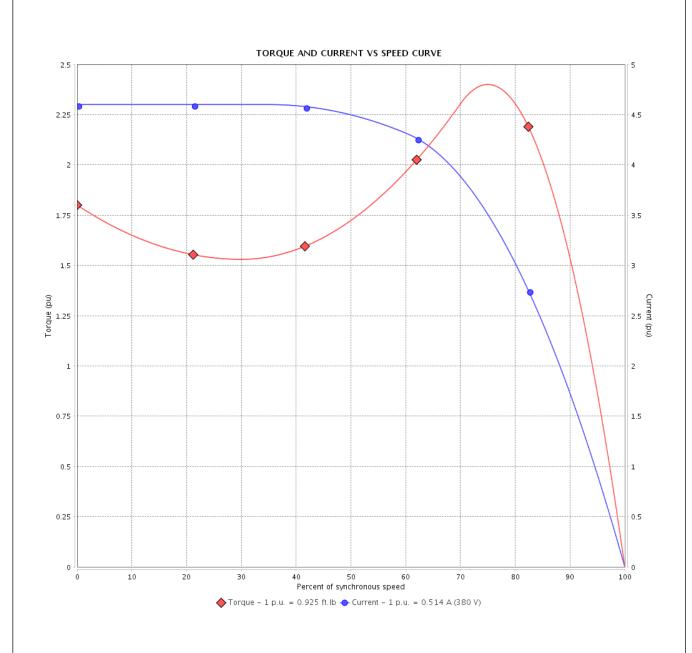
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Customer :

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Performance : 190/380 V 50 Hz 4P Rated current : 1.03/0.514 A Moment of inertia (J) : 0.0280 sq.ft.lb **LRC** : 4.6 Duty cycle : Cont.(S1) : 0.925 ft.lb Insulation class : F Rated torque : 180 % Service factor Locked rotor torque : 1.35 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1420 rpm

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

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TORQUE AND CURRENT VS SPEED CURVE

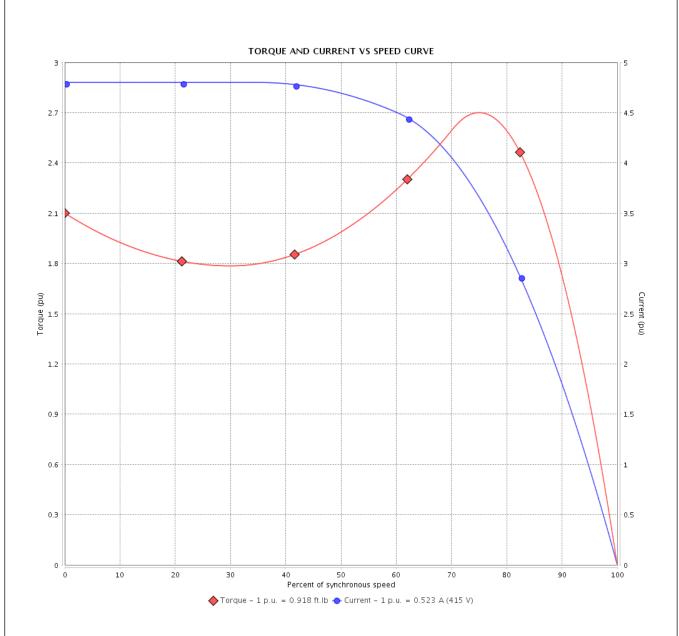
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Performance : 220/415 V 50 Hz 4P Rated current : 0.987/0.523 A Moment of inertia (J) : 0.0280 sq.ft.lb **LRC** : 4.8 Duty cycle : Cont.(S1) : F : 0.918 ft.lb Insulation class Rated torque : 1.15 Locked rotor torque : 210 % Service factor Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1430 rpm

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

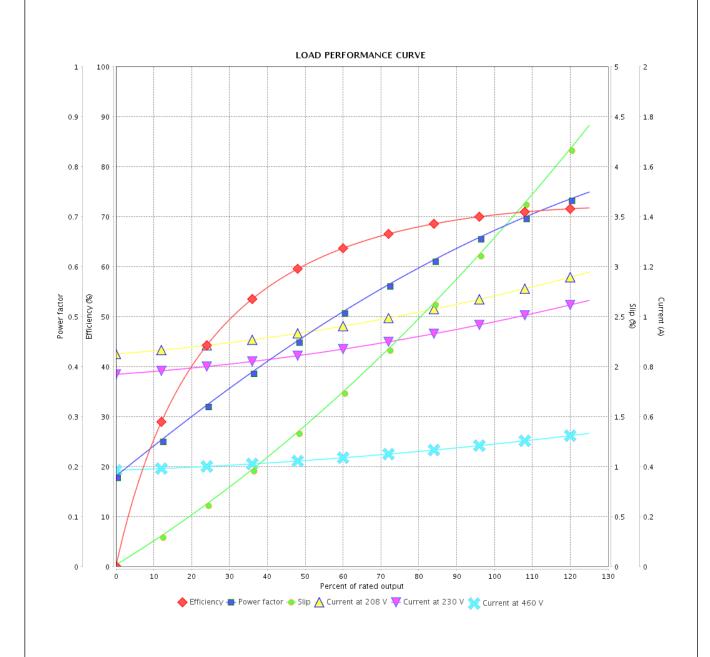


Customer

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.2518OT3E48-S Catalog #:



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Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.06-0.964/0.482 A : 5.7 : 0.754 ft.lb : 250 % : 340 % : 1740 rpm	Moment of Duty cycle Insulation Service fa	class ctor	: 0.0280 sq.ft.l : Cont.(S1) : F : : 80 K	b
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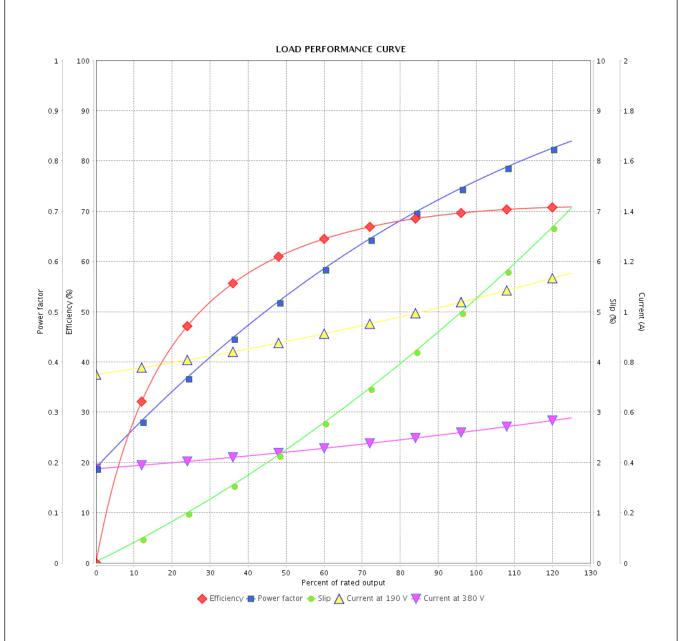
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 : 190/380 V 50 Hz 4P

 Rated current
 : 1.03/0.514 A
 Moment of inertia (J)
 : 0.0280 sq.ft.lb

 LRC
 : 4.6
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 0.925 ft.lb
 Insulation class
 : F

Rated torque : 0.925 ft.lb Insulation class : F
Locked rotor torque : 180 % Service factor : 1.35
Breakdown torque : 240 % Temperature rise : 80 K

Rated speed : 1420 rpm

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Customer

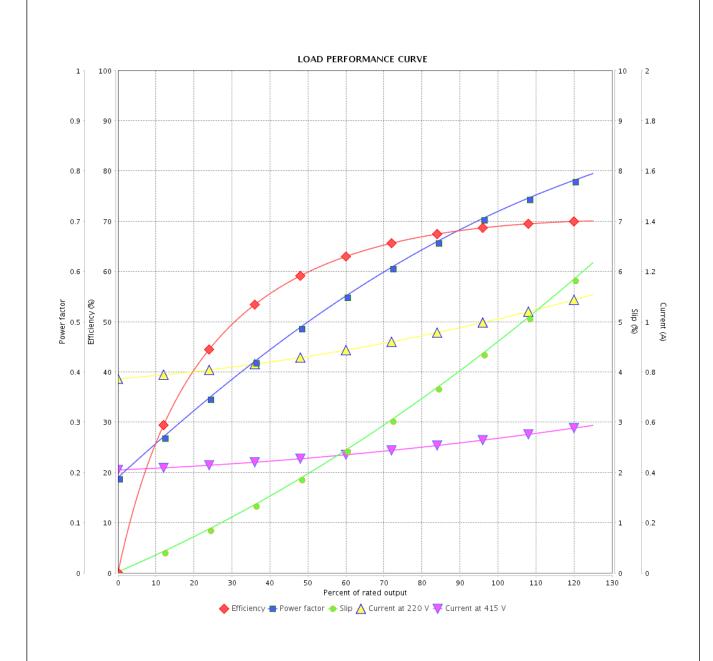
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Performance	: 220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 0.987/0.523 A : 4.8 : 0.918 ft.lb : 210 % : 270 % : 1430 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0280 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
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THERMAL LIMIT CURVE

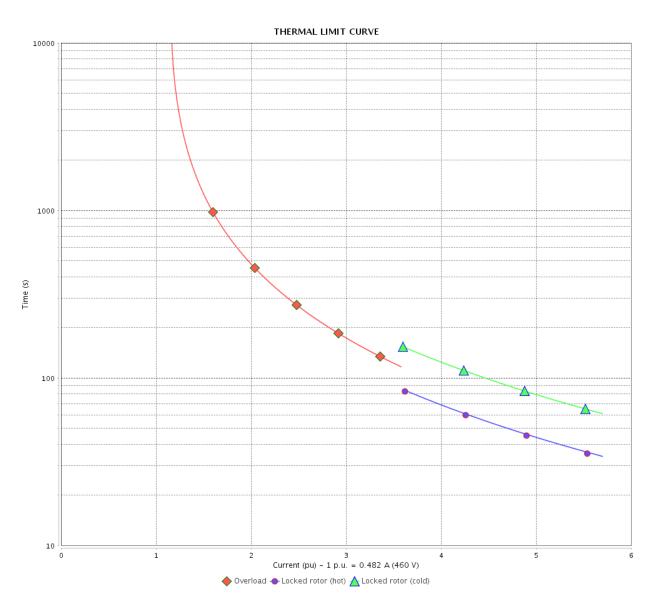
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Cooling constant	t					
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THERMAL LIMIT CURVE

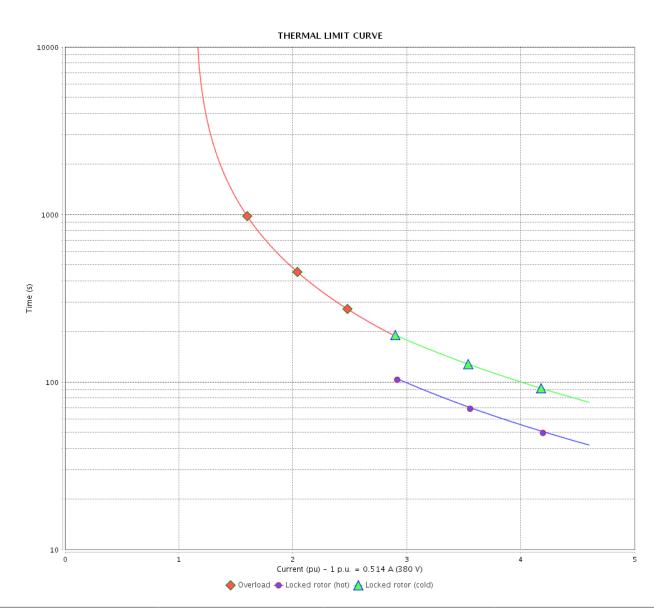
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Heating constant

Cooling Constant	ι				
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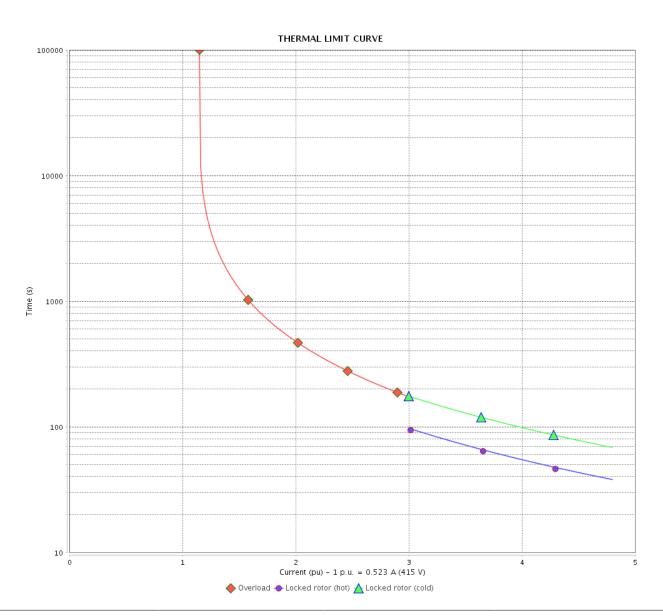
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Heating constant Cooling constant

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VFD OPERATION CURVE

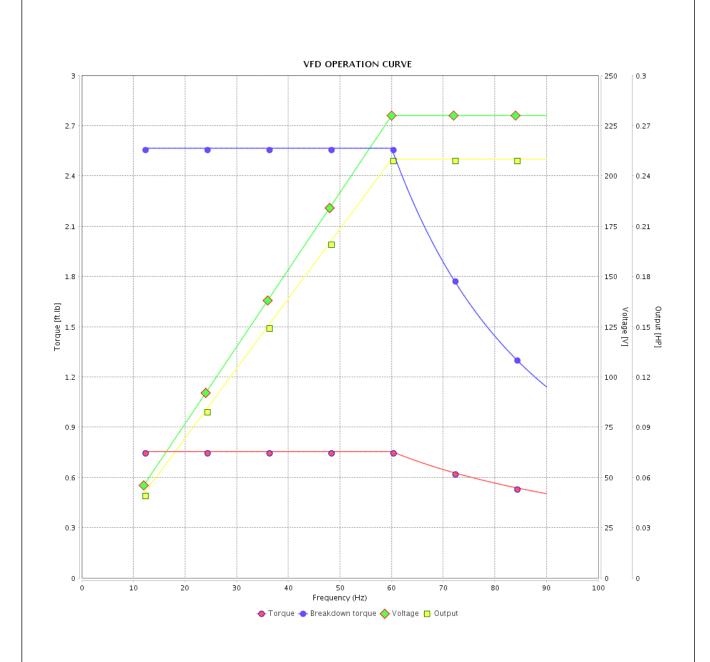
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VFD OPERATION CURVE

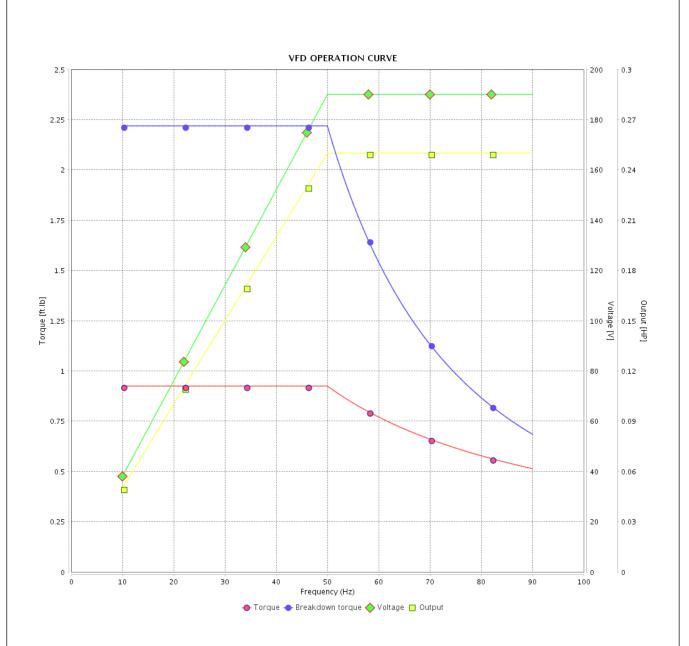
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LRC: 4.6Duty cycle: Cont.(SRated torque: 0.925 ft.lbInsulation class: FLocked rotor torque: 180 %Service factor: 1.35Breakdown torque: 240 %Temperature rise: 80 K

Rated speed : 1420 rpm

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VFD OPERATION CURVE

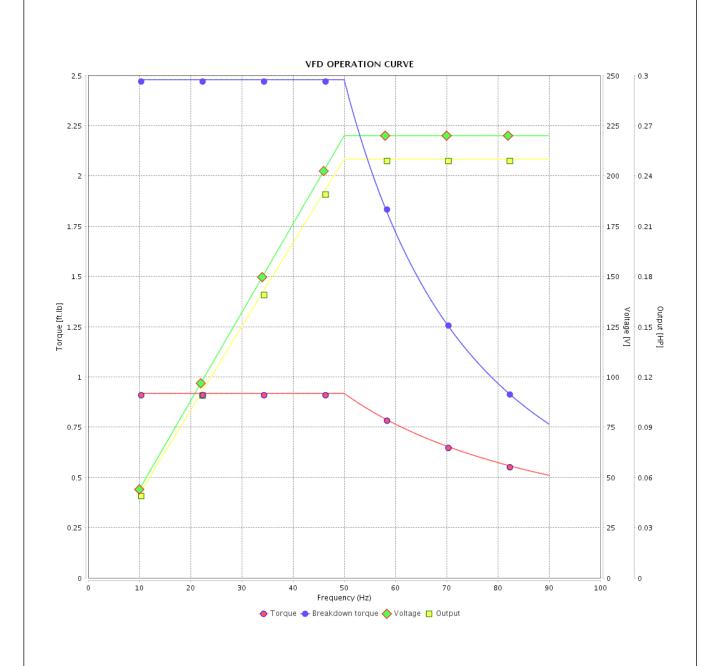
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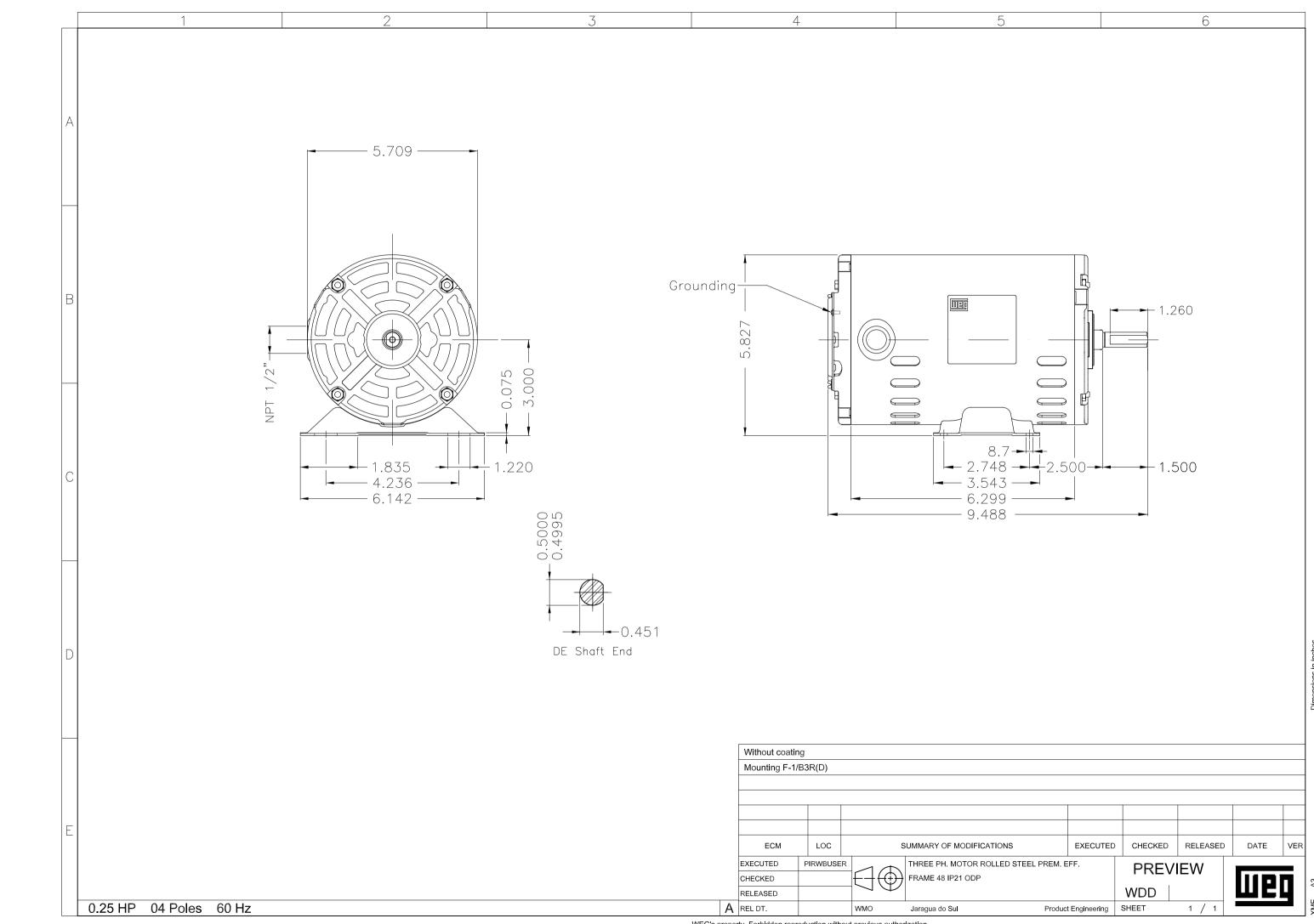
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(**UL)**US LISTED

3PT9

N01.TO0IC0X0X 13497507 MADE IN MÉXICO



MODEL

EB2022 B/N	3 Hz	48	CONT
÷	99		

1000 m.a.s.l

1.06-0.964/0.482

1.06-1

208-230/460

0.18

0.25HP CODE 1.03-1.01/0.514-0.534A SF1.00 ALTERNATE RATING: SABLE @ 208V

70.0%

ZPM 3FA 냃 쌆

DES

AS CL F AT 80K

2°04 900

NCL 2

NOM EFF 8202-ZZ

IEC 60034-1

5:1 CT

SF1.35

1420RPM 50 Hz

190-220/380-415V

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. MOBIL POLYREX EM **EFF 68.0%**

19

9

2

900

8203-ZZ

牌

T2-WHT

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

T8-RED F6-GRY T4-YEL

> 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



nentation avant l'entretien de la machine

choc électrique grave. Déconnectez l'alli

conformément aux codes électriques locaux et nationaux afin d'éviter tout shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre