DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : 00021 Premium Efficiency Three- Pro

Efficiency Three- Product code :

Catalog # : .7518OT3ERB56-S

13226522

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 27.9 lb

 Moment of inertia (J)
 : 0.0712 sq.ft.lb

 Output [HP]
 0.75
 0.75
 0.75

Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		208-230/460	190/380	220/415
Rated current [A]		2.54-2.30/1.15	2.62/1.31	2.43/1.29
L. R. Amperes [A]		18.5-16.8/8.40	14.9/7.47	15.1/8.00
LRC [A]		7.3x(Code K)	5.7x(Code H)	6.2x(Code J)
No load current [A	.]	1.38-1.60/0.800	1.53/0.763	1.59/0.844
Rated speed [RPN	Л]	1760	1445	1450
Slip [%]		2.22	3.67	3.33
Rated torque [ft.lb]]	2.24	2.73	2.72
Locked rotor torqu	ıe [%]	250	170	190
Breakdown torque	: [%]	300	240	270
Service factor			1.25	1.25
Temperature rise		80 K	80 K	80 K
Locked rotor time		37s (cold) 21s (hot)	43s (cold) 24s (hot)	37s (cold) 21s (hot)
Noise level ²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	71.6	76.5	74.1
Efficiency (%)	50%	74.0	76.6	75.0
Linciency (70)	75%	78.5	79.2	78.6
	100%	81.1	78.8	79.1
	25%	0.29	0.34	0.31
Power Factor	50%	0.52	0.60	0.55
i Owei i acioi	75%	0.65	0.73	0.69
	100%	0.74	0.81	0.78

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

Bearing type : 6203 ZZ 6202 ZZ Max. traction : 58 lb Sealing : Without Without Max. compression : 86 lb

Bearing Seal Bearing Seal

Lubrication interval : - - Lubricant amount : - -

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



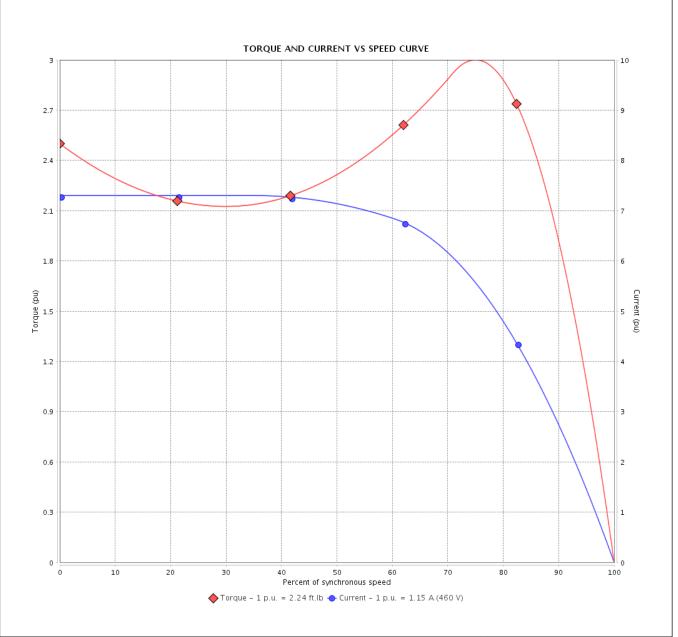
Customer :

Product line : 00021 Premium Efficiency Three-

Phase

Product code: 13226522

Catalog #: .7518OT3ERB56-S



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

Rated current : 2.54-2.30/1.15 A

LRC : 7.3
Rated torque : 2.24 ft.lb
Locked rotor torque : 250 %
Breakdown torque : 300 %
Rated speed : 1760 rpm

Moment of inertia (J)
Duty cycle

: 0.0712 sq.ft.lb : Cont.(S1)

Insulation class : F Service factor :

Temperature rise : 80 K

Locked rotor time : 37s (cold) 21s (hot)

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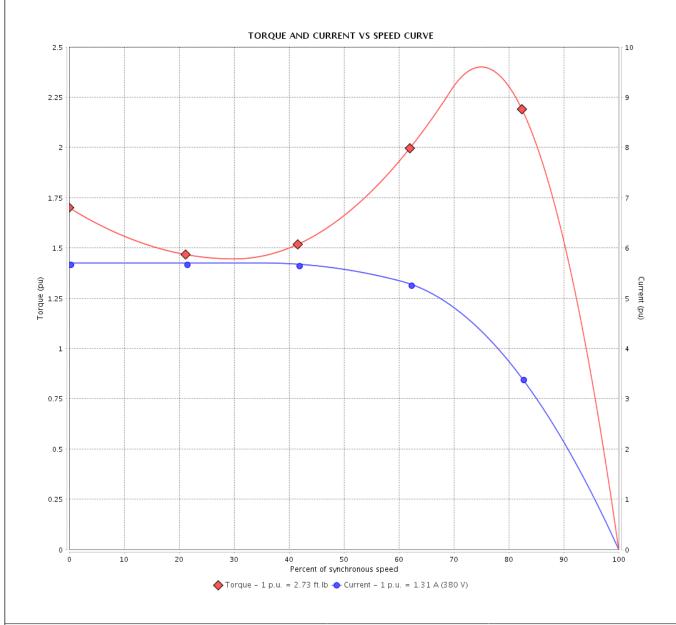
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Product code: 13226522

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Performance : 190/380 V 50 Hz 4P Rated current : 2.62/1.31 A Moment of inertia (J) : 0.0712 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 2.73 ft.lb Insulation class : F Rated torque Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1445 rpm

Locked rotor time : 43s (cold) 24s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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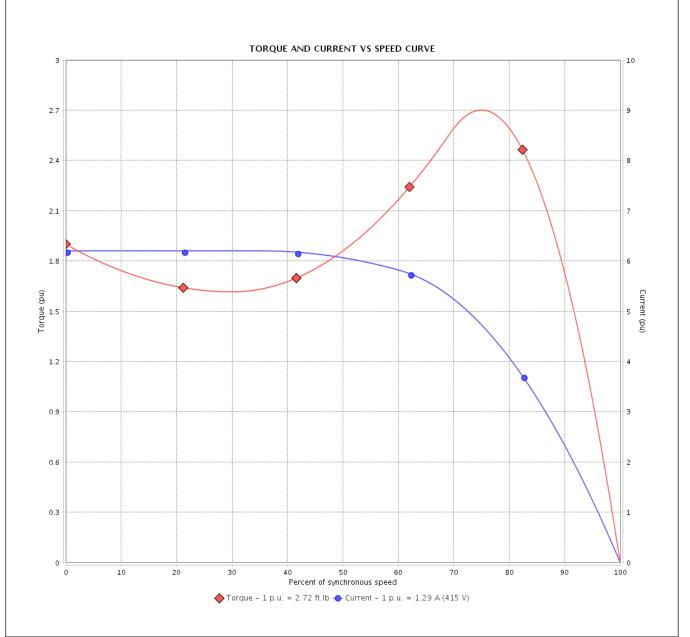
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Product code: 13226522

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Performance : 220/415 V 50 Hz 4P Rated current : 2.43/1.29 A Moment of inertia (J) : 0.0712 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 2.72 ft.lb : F Service factor Locked rotor torque : 190 % : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1450 rpm

Locked rotor time : 37s (cold) 21s (hot)

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LOAD PERFORMANCE CURVE

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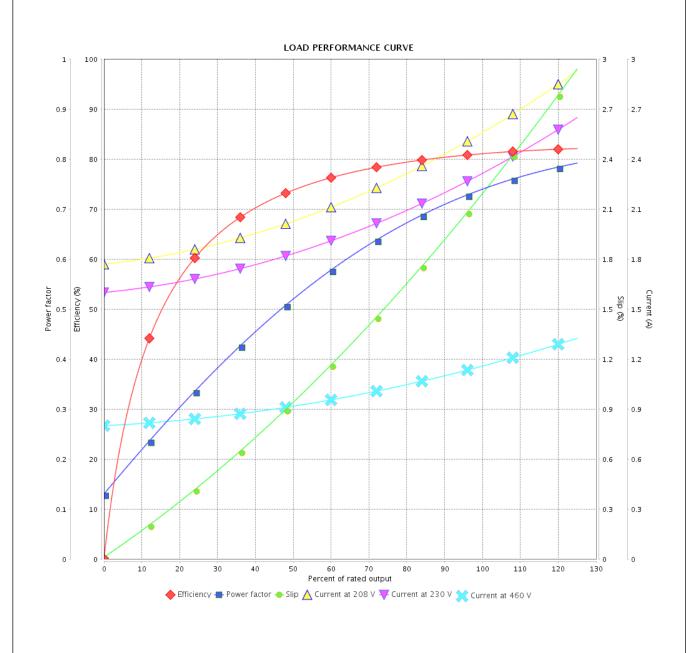
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Performance : 208-230/460 V 60 Hz 4P : 2.54-2.30/1.15 A Rated current Moment of inertia (J) : 0.0712 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : 2.24 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1760 rpm

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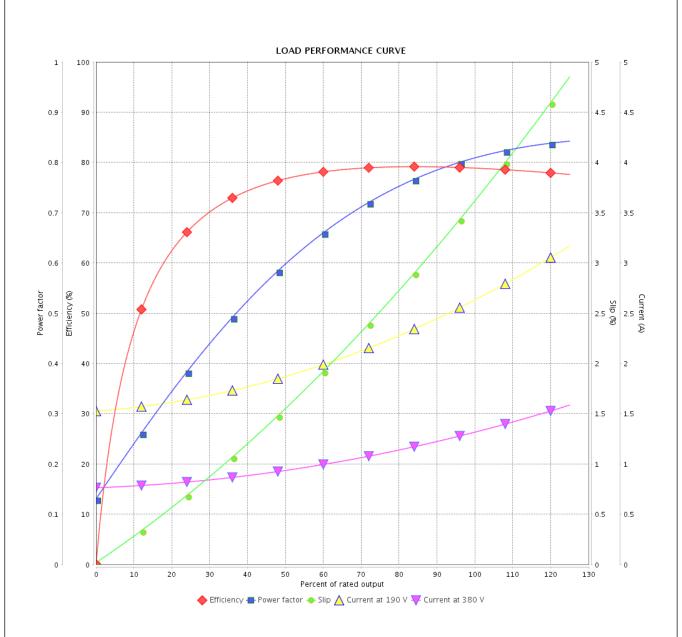
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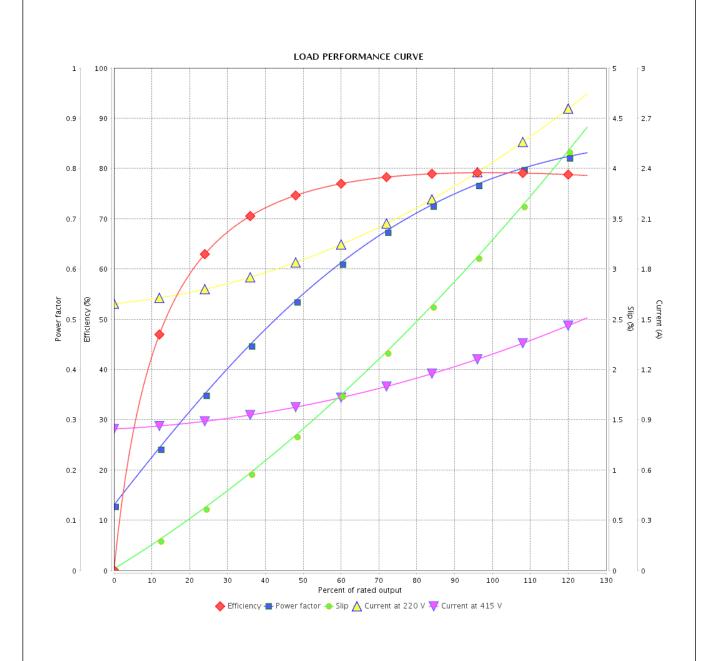
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Performance	: 220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.43/1.29 A : 6.2 : 2.72 ft.lb : 190 % : 270 % : 1450 rpm	Moment of Duty cycle Insulation Service fa Temperate	class ector	: 0.0712 sq.ft : Cont.(S1) : F : 1.25 : 80 K	lb
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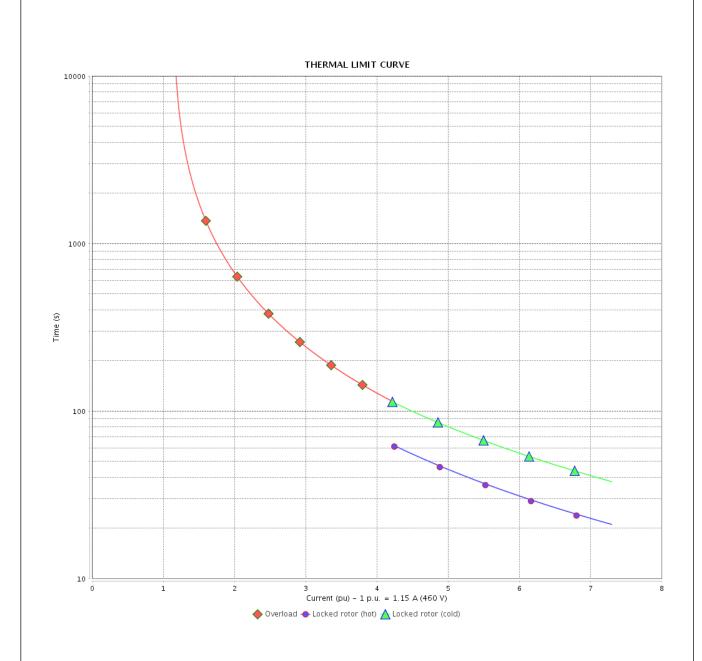


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					.701001021	.500 0
Performance	:	208-230/460 V 60 Hz 4P				
Rated current LRC		2.54-2.30/1.15 A 7.3	Moment of Duty cycle	of inertia (J)	: 0.0712 sq.ft.l : Cont.(S1)	b
Rated torque	:	2.24 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		250 % 300 %	Service fa Temperat		: : 80 K	
Rated speed		1760 rpm	romporat	a. 0 1.00	. 00 11	
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Three Phase Induction Motor - Squirrel Cage



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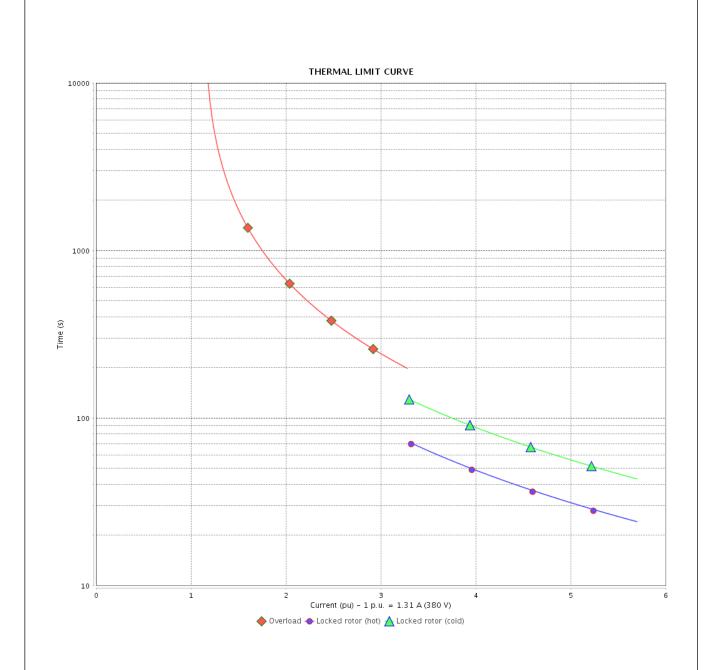


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Performance	: 1	90/380 V 50 Hz 4P				
Rated current LRC	: 5		Duty cycle		: 0.0712 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor torc		2.73 ft.lb 70 %	Insulation Service fa		: F : 1.25	
Breakdown torqu Rated speed	ie : 2	40 % 445 rpm	Temperatu		: 80 K	
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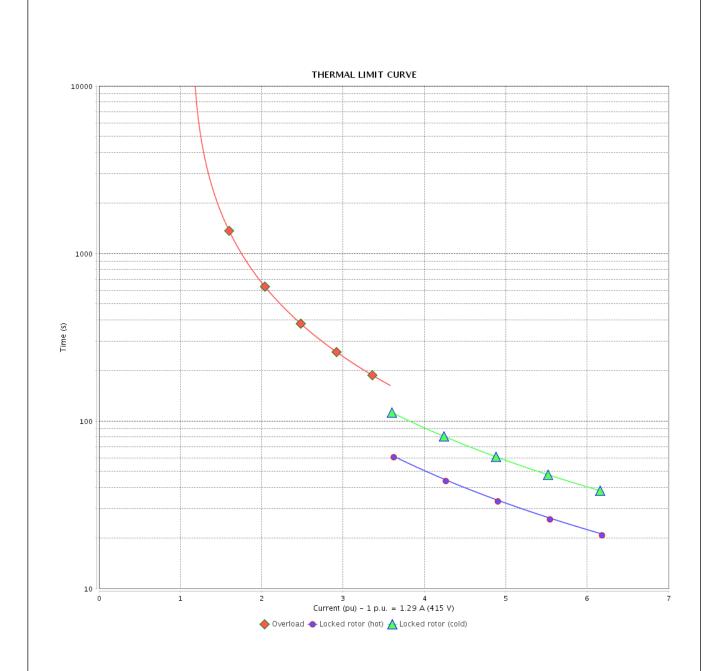


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Customer	:					
Product line		00021 Premium Efficiency ⁻ hase	Three- I	Product code :	13226522	
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Performance		20/415 V 50 Hz 4P			0.0740	
Rated current LRC	: 2. : 6.	.43/1.29 A .2	Moment of Duty cycle	nertia (J)	: 0.0712 sq.ft.l : Cont.(S1)	D
Rated torque	: 2.	.72 ft.lb	Insulation	class	: F	
Locked rotor torque		90 %	Service fac		: 1.25	
Breakdown torque Rated speed		70 % 450 rpm	Temperatu	ile lise	: 80 K	
Heating constant						
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



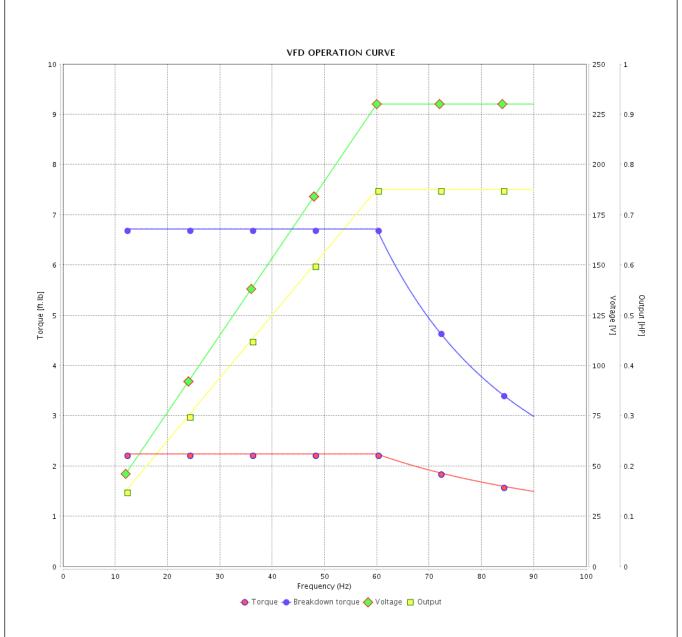
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Performance : 208-230/460 V 60 Hz 4P : 2.54-2.30/1.15 A Rated current Moment of inertia (J) : 0.0712 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : 2.24 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1760 rpm

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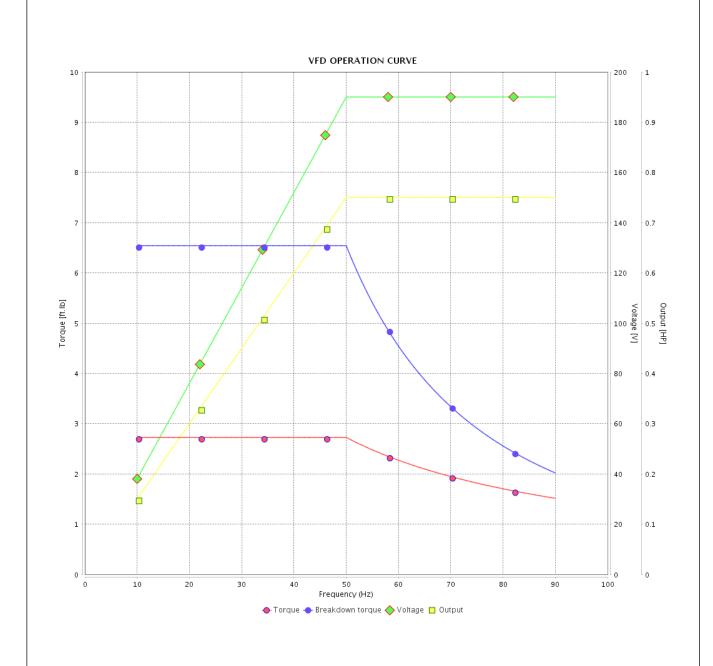
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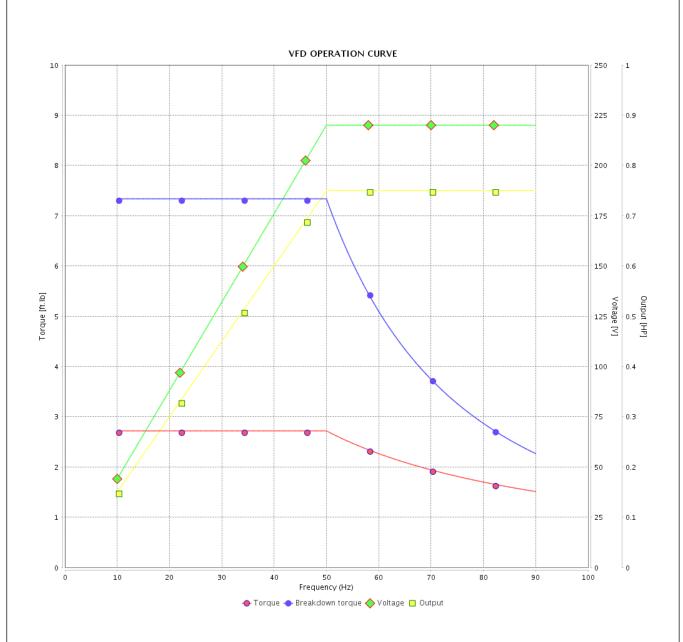
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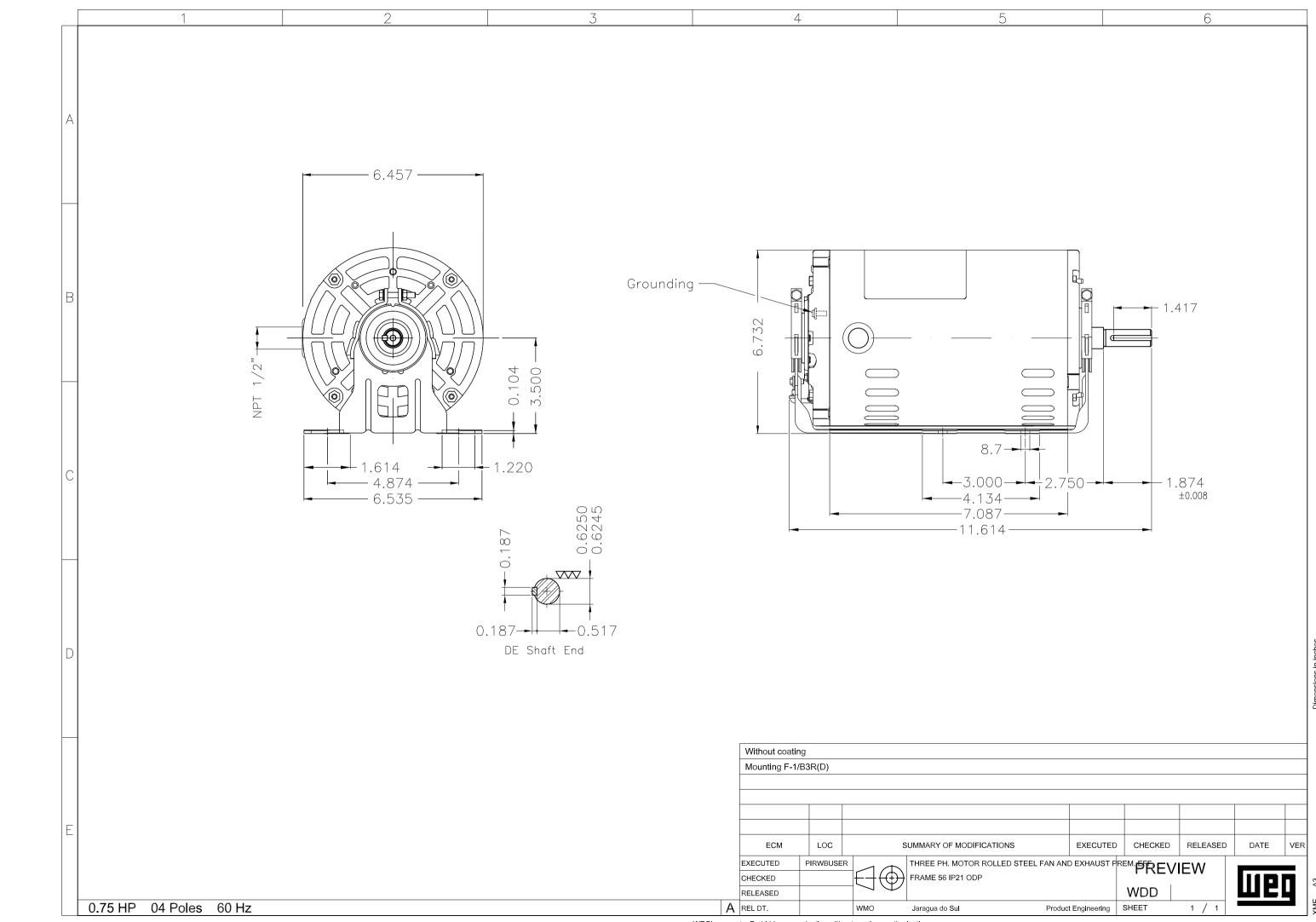
Performance : 220/415 V 50 Hz 4P

Rated current : 2.43/1.29 A Moment of inertia (J) : 0.0712 sq.ft.lb LRC : 6.2 Duty cycle : Cont.(S1)

Rated torque : 2.72 ft.lb Insulation class : F
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Breakdown torque : 270 % Temperature rise : 80 K

Rated speed : 1450 rpm

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3PT9

Energy Verifi

MODEL .75180T3ERB56-S N01.TO0IC0X0X 13226522 MADE IN MÉXICO

1000 m.a.s.l CONT

F AT 80K

NSC

2°04 900

2.30/1.15

1.25

230/460 2.88/1

0.55

CODE DES SABLE @ 208V 2.54A

0.75HP 2.82-2.43/1.31-1.29A LTERNATE RATING:

SF1.00 INC. 2

81.1%

WG. F.L

H ZPM 3FA 냃 쌆

50 Hz 8202-ZZ

1445RPM

ODE

8203-ZZ

IEC 6003 SF1.25

5:1 CT

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 190-220/380-415V MOBIL POLYREX EM **EFF 78.8%**

5

9

2

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

T6-GRY T2-WHT

T8-RED 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

AVERTISSEMENT: Le moteur doit être mis à la terre