### **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809256

Catalog #: .7536OT3E56CFL-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

Ambient temperature		: -20°C to +40°C	Starting method	: Direct On Line
Altitude		: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 18.8 lb
			Moment of inertia (J)	: 0.0453 sq.ft.lb
Output [HP]		0.75	0.75	0.75
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		208-230/460	190/380	220/415
Rated current [A]		2.52-2.28/1.14	2.64/1.32	2.49/1.32
L. R. Amperes [A]		16.4-14.8/7.41	13.2/6.60	13.4/7.13
LRC [A]		6.5x(Code J)	5.0x(Code G)	5.4x(Code H)
No load current [A	]	1.12-1.30/0.650	1.20/0.600	1.64/0.871
Rated speed [RPN	<b>/</b> 1]	3485	2840	2860
Slip [%]		3.19	5.33	4.67
Rated torque [ft.lb]		1.13	1.39	1.38
Locked rotor torqu	e [%]	240	180	200
Breakdown torque	[%]	280	210	240
Service factor			1.25	1.25
Temperature rise		80 K	80 K	80 K
Locked rotor time		59s (cold) 33s (hot)	64s (cold) 36s (hot)	57s (cold) 32s (hot)
Noise level <sup>2</sup>		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
	25%	65.5	70.8	67.5
Efficiency (%)	50%	68.0	70.9	68.5
Efficiency (70)	75%	74.0	74.2	73.0
	100%	76.8	73.6	73.6
	25%	0.35	0.41	0.34
Power Factor	50%	0.57	0.66	0.60
FOWEI FACIOI	75%	0.70	0.79	0.74
	100%	0.79	0.86	0.82

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

Bearing type : 6203 ZZ 6202 ZZ Max. traction : 23 lb Sealing : Without Without Max. compression : 41 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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2022			1 / 13	

### TORQUE AND CURRENT VS SPEED CURVE

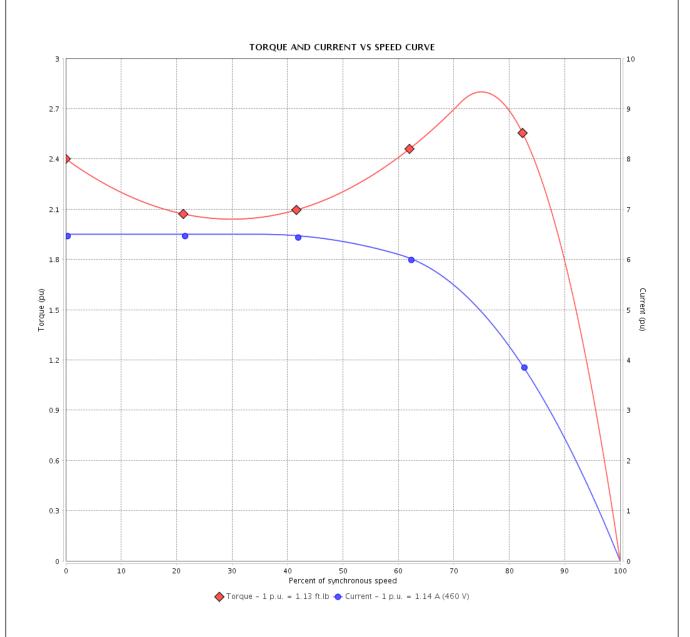
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809256

Catalog #: .7536OT3E56CFL-S



Performance : 208-230/460 V 60 Hz 2P

Rated current : 2.52-2.28/1.14 A Moment of inertia (J) : 0.0453 sq.ft.lb

LRC : 6.5 Duty cycle : Cont.(S1)
Rated torque : 1.13 ft.lb Insulation class : F

Locked rotor torque : 240 % Service factor :

Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3485 rpm

Locked rotor time : 59s (cold) 33s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2022			2 / 13	

### TORQUE AND CURRENT VS SPEED CURVE

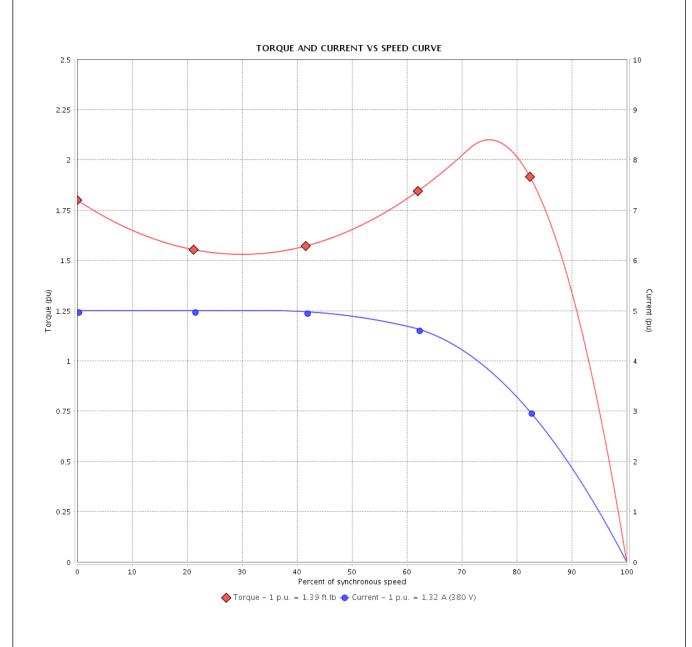
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code : 12809256

Catalog # : .7536OT3E56CFL-S



Performance : 190/380 V 50 Hz 2P Rated current : 2.64/1.32 A Moment of inertia (J) : 0.0453 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) Rated torque : 1.39 ft.lb Insulation class : F : 180 % Service factor : 1.25 Locked rotor torque Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 2840 rpm

Locked rotor time : 64s (cold) 36s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2022			3 / 13	

### TORQUE AND CURRENT VS SPEED CURVE

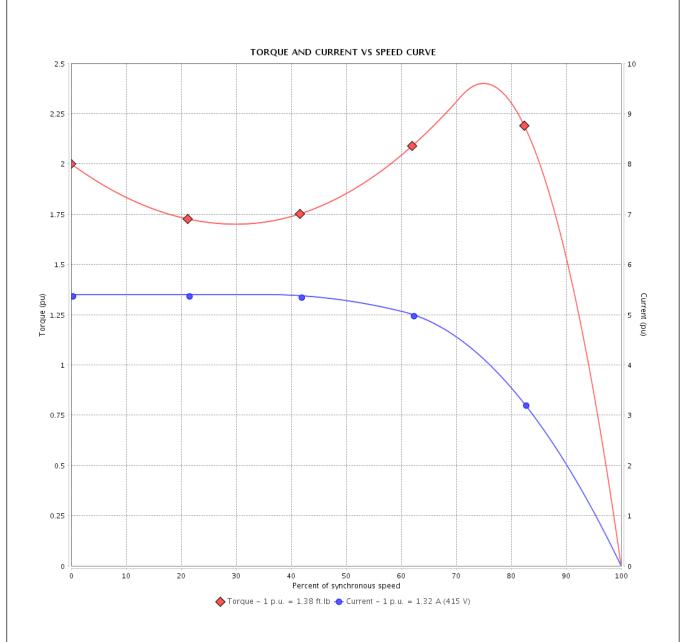
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809256

Catalog #: .7536OT3E56CFL-S



Performance : 220/415 V 50 Hz 2P Rated current : 2.49/1.32 A Moment of inertia (J) : 0.0453 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) : F Rated torque : 1.38 ft.lb Insulation class Service factor Locked rotor torque : 200 % : 1.25

Breakdown torque : 240 % Service factor : 1.25

Rated speed : 2860 rpm

Locked rotor time : 57s (cold) 32s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2022			4 / 13	

## LOAD PERFORMANCE CURVE

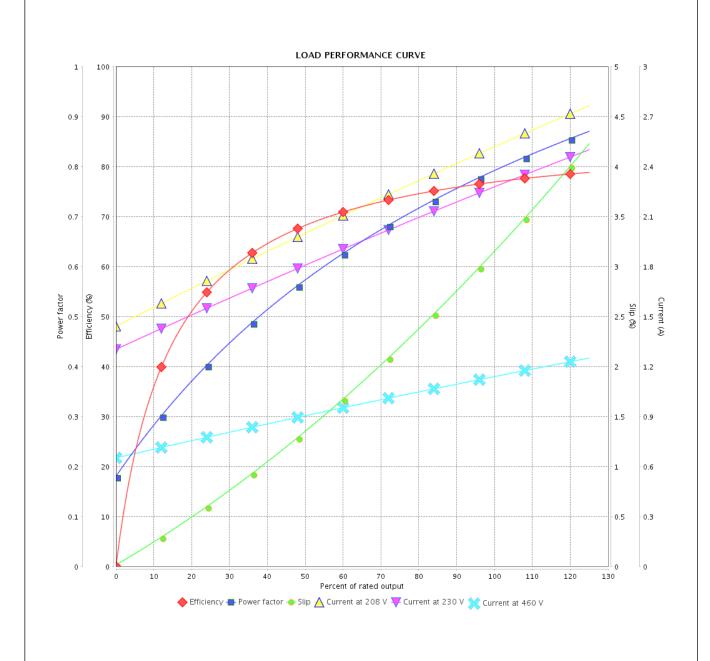
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Performance : 208-230/460 V 60 Hz 2P : 2.52-2.28/1.14 A Rated current Moment of inertia (J) : 0.0453 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 : 1.13 ft.lb Rated torque Insulation class : F Locked rotor torque : 240 % Service factor Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3485 rpm

Rev.		Changes Summary	Perfo	ormed	Checked	Date
Performed by			•			
Checked by					Page	Revision
Date	11/04/2022				5 / 13	

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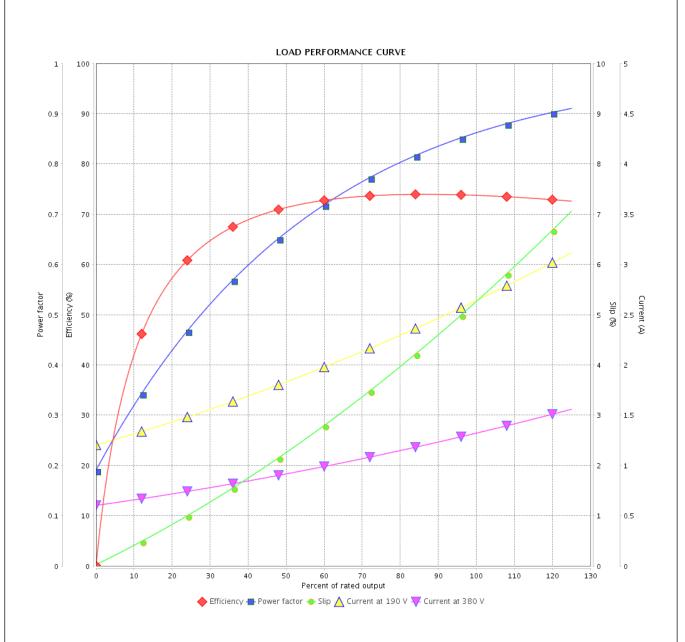
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 Performance
 : 190/380 V 50 Hz 2P

 Rated current
 : 2.64/1.32 A
 Moment of inertia (J)
 : 0.0453 sq.ft.lb

 LRC
 : 5.0
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 1.39 ft.lb
 Insulation class
 : F

Locked rotor torque : 180 % Service factor : 1.25
Breakdown torque : 210 % Temperature rise : 80 K
Rated speed : 2840 rpm

 Rev.
 Changes Summary
 Performed
 Checked
 Date

 Performed by
 Page
 Revision

 Date
 11/04/2022
 6 / 13

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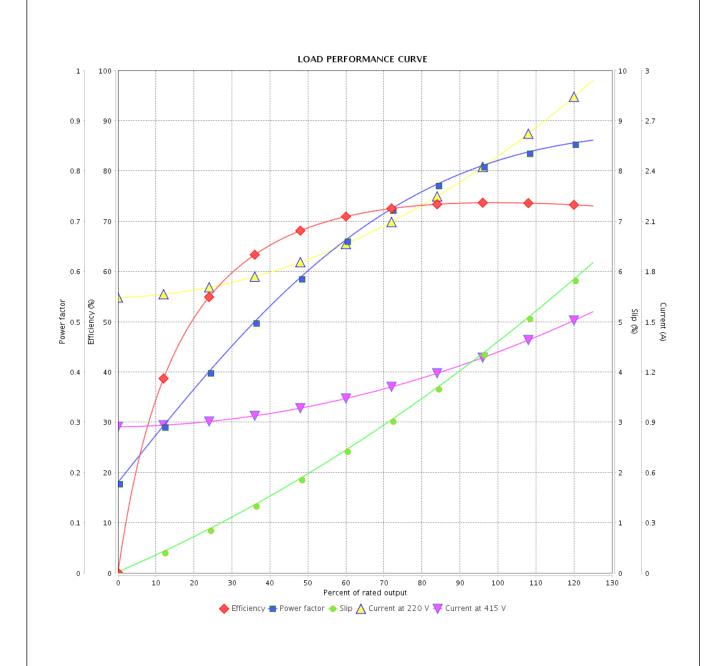
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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2022			7 / 13	

## THERMAL LIMIT CURVE

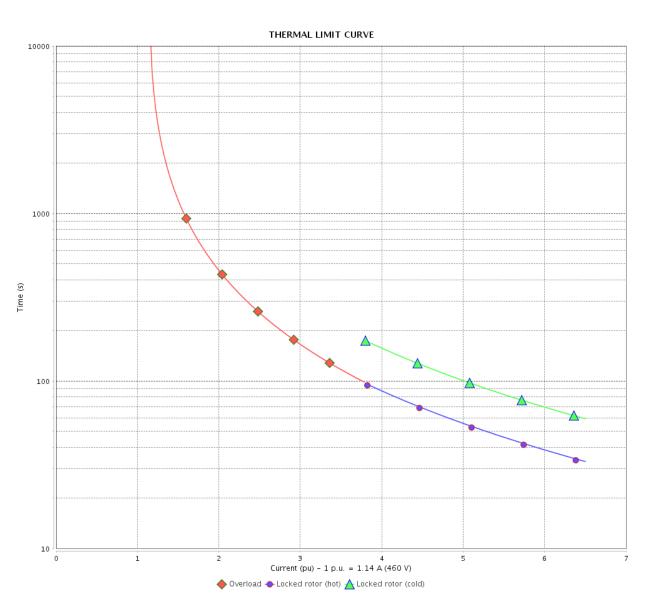
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Performance : 208-230/460 V 60 Hz 2P Rated current : 2.52-2.28/1.14 A Moment of inertia (J) : 0.0453 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class Rated torque : 1.13 ft.lb : F Locked rotor torque : 240 % Service factor : 280 % : 80 K Breakdown torque Temperature rise Rated speed : 3485 rpm Heating constant Cooling constant

Cooling constant	•				
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2022			8 / 13	

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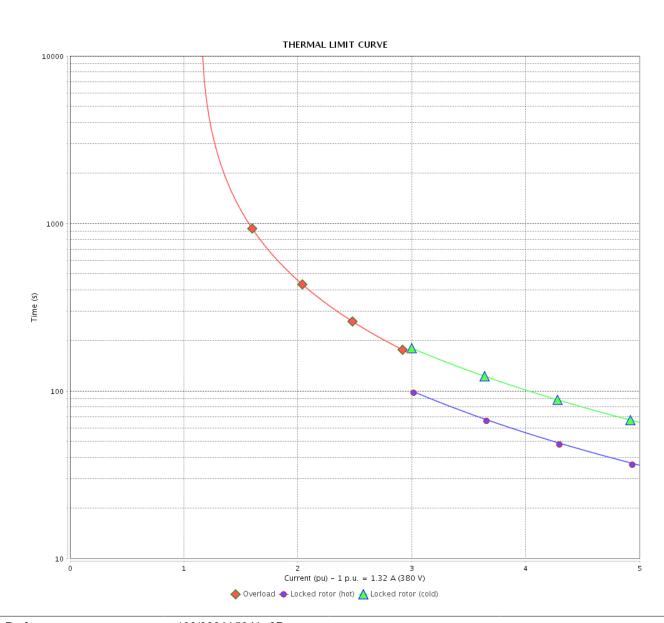
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Heating constant

Cooling constant	ι					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2022				9 / 13	

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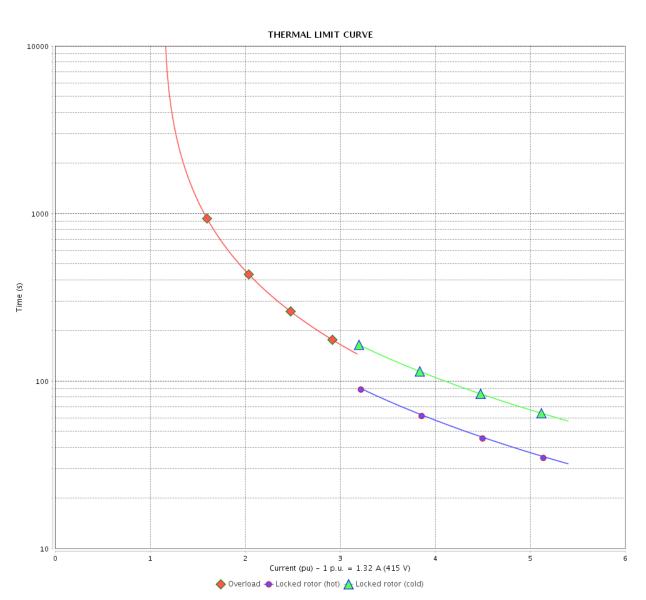
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Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2022				10 / 13	

# VFD OPERATION CURVE

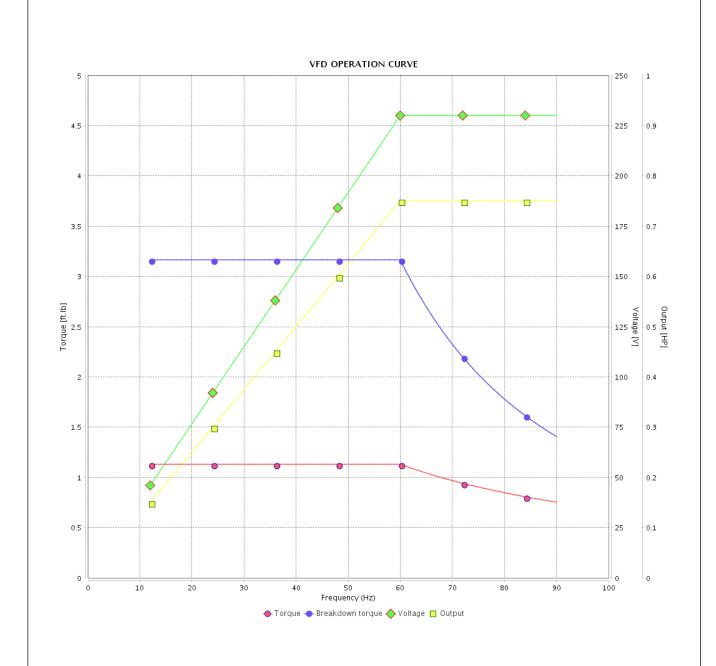
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Performance	: 208-230/460 V 60 Hz 2P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.52-2.28/1.14 A : 6.5 : 1.13 ft.lb : 240 % : 280 % : 3485 rpm	Moment of Duty cycle Insulation Service fa	class ctor	: 0.0453 sq.ft. : Cont.(S1) : F : : 80 K	lb	
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Rev.	Changes Summary		Performed		Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2022				11 / 13	

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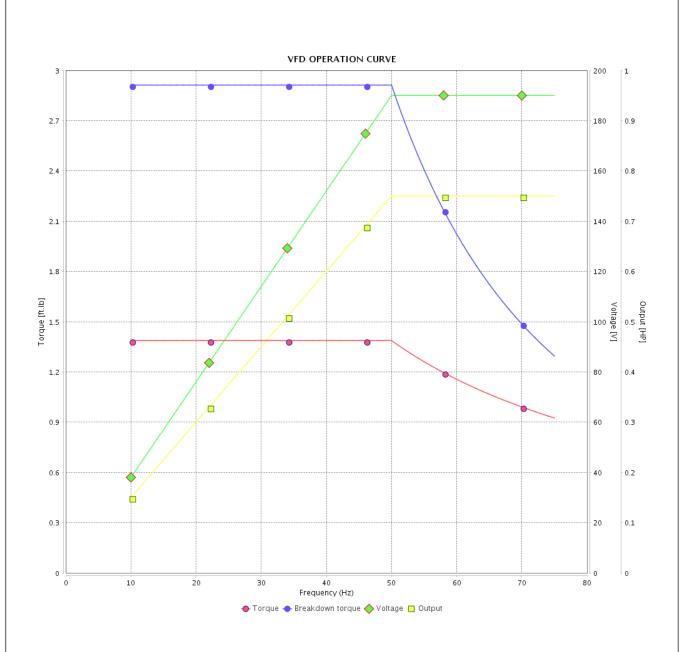
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 Performance
 : 190/380 V 50 Hz 2P

 Rated current
 : 2.64/1.32 A
 Moment of inertia (J)
 : 0.0453 sq.ft.lb

 LRC
 : 5.0
 Duty cycle
 : Cont.(S1)

Rated torque : 1.39 ft.lb Insulation class : F
Locked rotor torque : 180 % Service factor : 1.25
Breakdown torque : 210 % Temperature rise : 80 K

Rated speed : 2840 rpm

Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2022				12 / 13	

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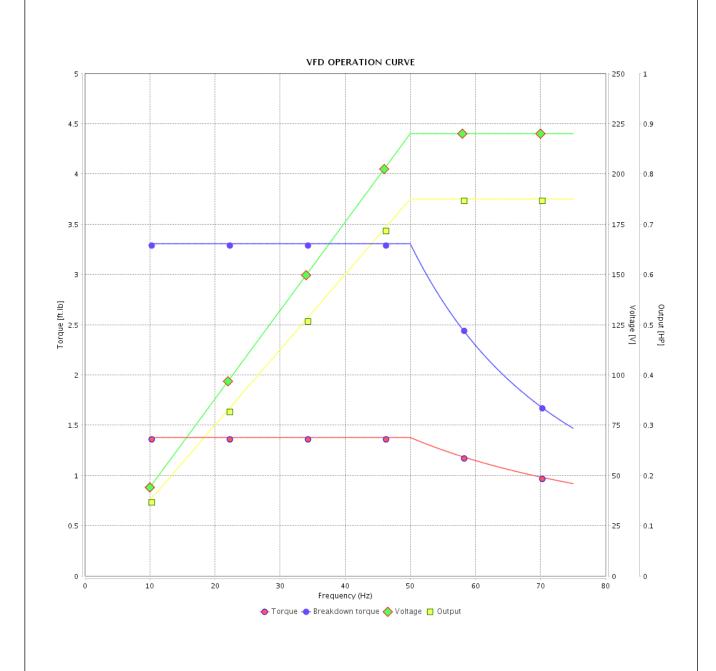
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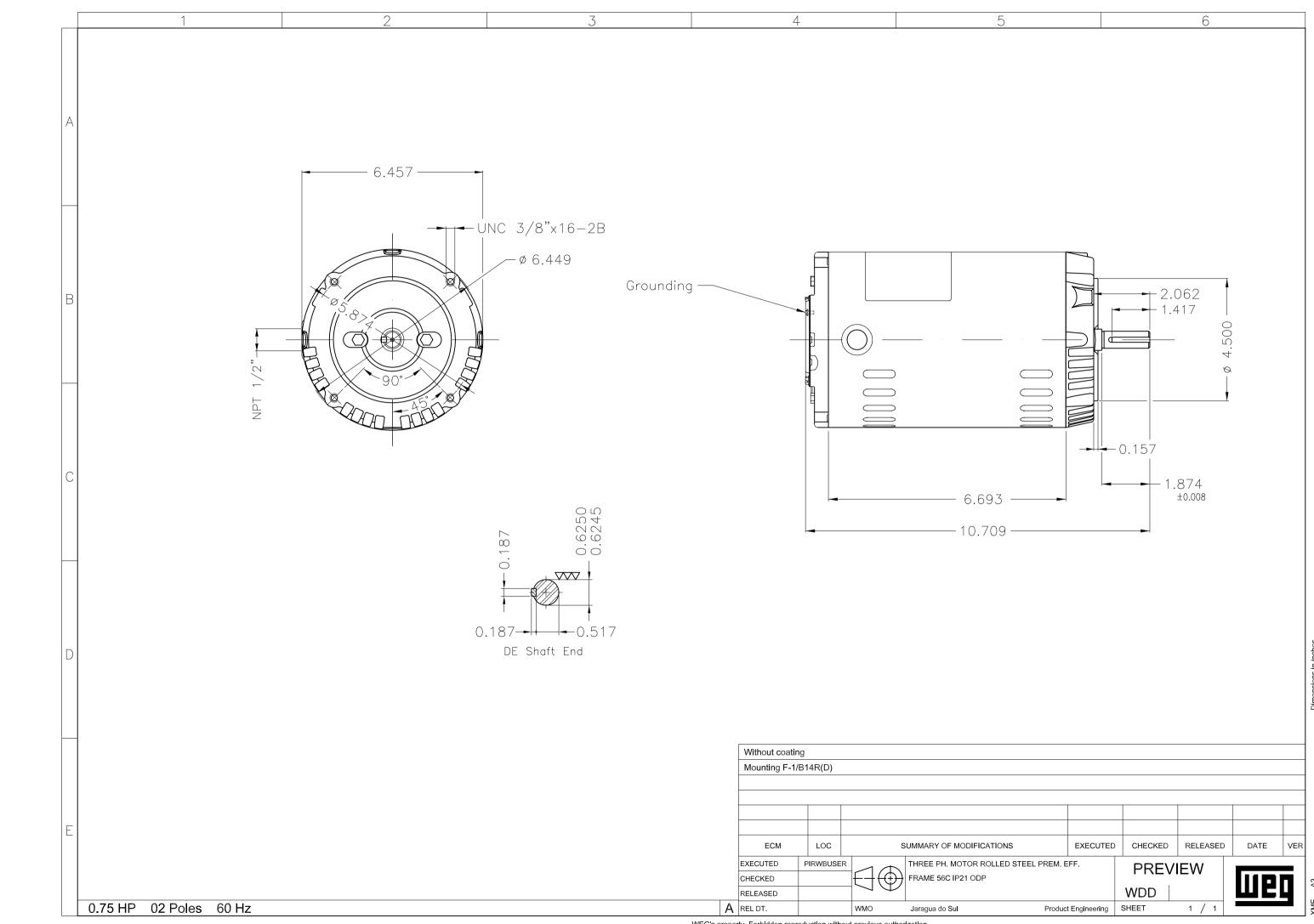
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Rev.		Changes Summary	,	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2022				13 / 13	





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**&** Energy Verifi 3PT9

> MODEL .75360T3E56CFL-S ä V01.TO0IC0X0X **38APR2022**

12809256

MADE IN BRAZIL

9 4 CONT 56C

1000 m.a.s. F AT 80K

230/460 2.28/1.1 2.85/1 1.25

> CODE DES SABLE @ 208V 2.52A

2°04 900

NSC

WG. F.L

H ZPM 3FA 냃 쌆

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 0.75HP 2.84-2.49/1.32-1.32A LTERNATE RATING:

SF1.00 NCL

50 Hz

IEC 6003 SF1.25

190-220/380-415V

**EFF 73.2% %8.9**2

> 2830RPM 8202-ZZ 9

> > ODE

8203-ZZ

MOBIL POLYREX EM

2

T2-WHT

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

T8-RED F6-GRY T4-YEL





nentation 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 choc électrique grave. Déconnectez l'alli