DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809603

Catalog # : .7536OT3E56C-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

Baty by old		. 6611(61)	i 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 ³	: 19.0 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	<i>/</i> 1]	3485	2840	2860
Slip [%]		3.19	5.33	4.67
Rated torque [ft.lb]		1.13	1.39	1.38
Locked rotor torque [%]		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 ²		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
Elliciency (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
FUWEI FACIOI	75%	0.70	0.79	0.74
	100%	0.79	0.86	0.82
		B: 1 N 1:		

<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 : 42 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

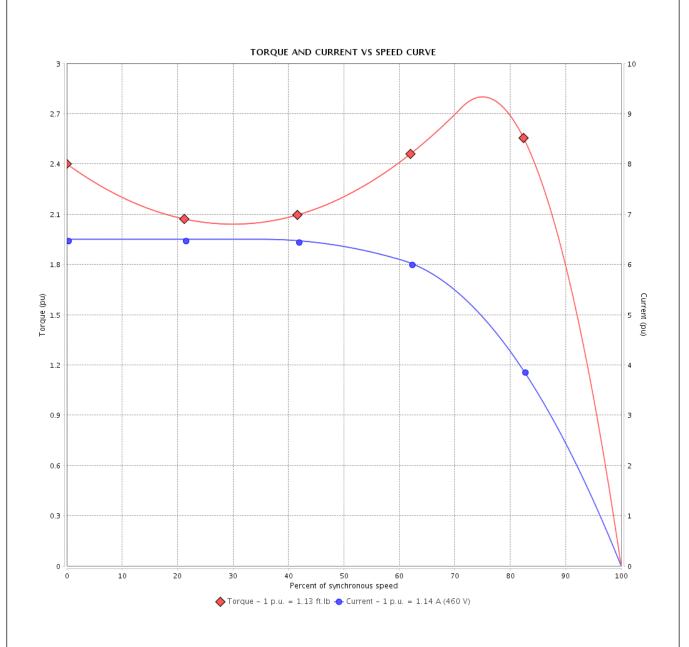
Three Phase Induction Motor - Squirrel Cage



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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

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)

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TORQUE AND CURRENT VS SPEED CURVE

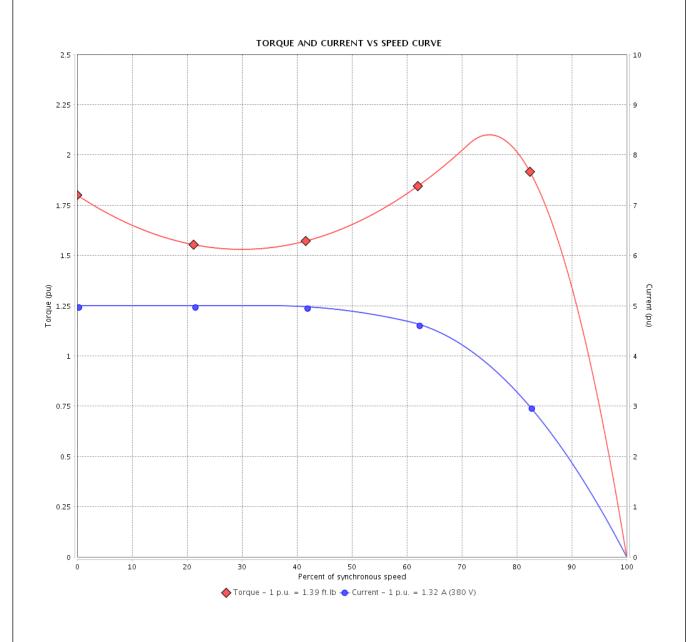
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Performance	: 190/380 V 50 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.64/1.32 A : 5.0 : 1.39 ft.lb : 180 % : 210 % : 2840 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature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

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

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TORQUE AND CURRENT VS SPEED CURVE

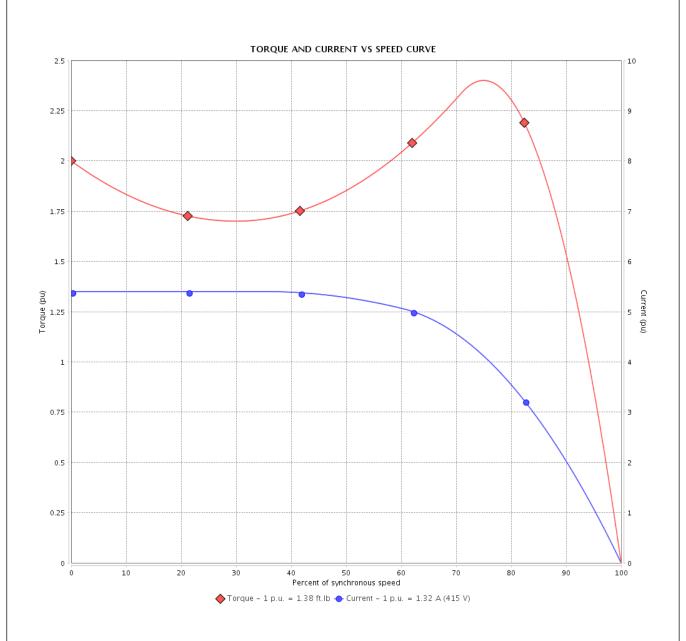
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Customer :

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 Performance
 : 220/415 V 50 Hz 2P

 Rated current
 : 2.49/1.32 A
 Moment of inertia (J)
 : 0.0453 sq.ft.lb

 LRC
 : 5.4
 Duty cycle
 : Cont.(S1)

Rated torque : 1.38 ft.lb Insulation class : F
Locked rotor torque : 200 % Service factor : 1.25
Breakdown torque : 240 % Temperature rise : 80 K

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

: 2860 rpm

Rated speed

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LOAD PERFORMANCE CURVE

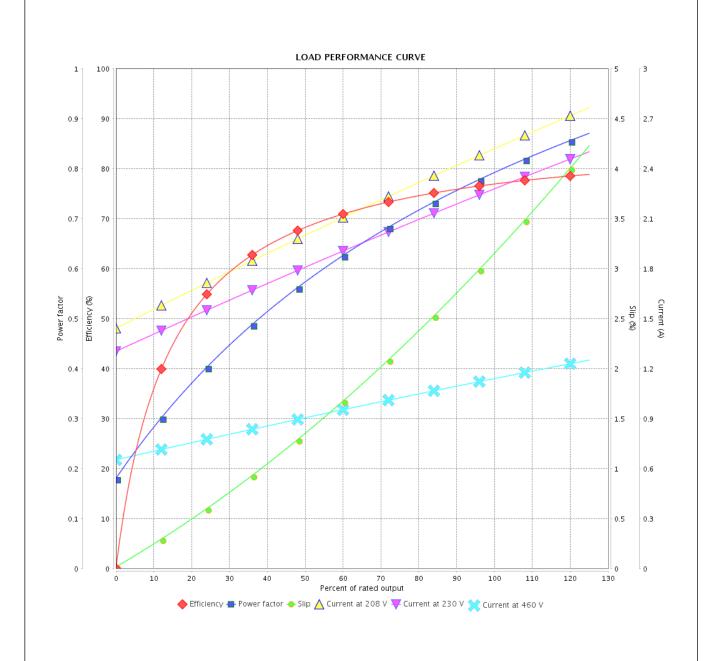
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Performance : 208-230/460 V 60 Hz 2P : 2.52-2.28/1.14 A Rated current Moment of inertia (J) : 0.0453 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 : 1.13 ft.lb Rated torque Insulation class : F Locked rotor torque : 240 % Service factor Breakdown torque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

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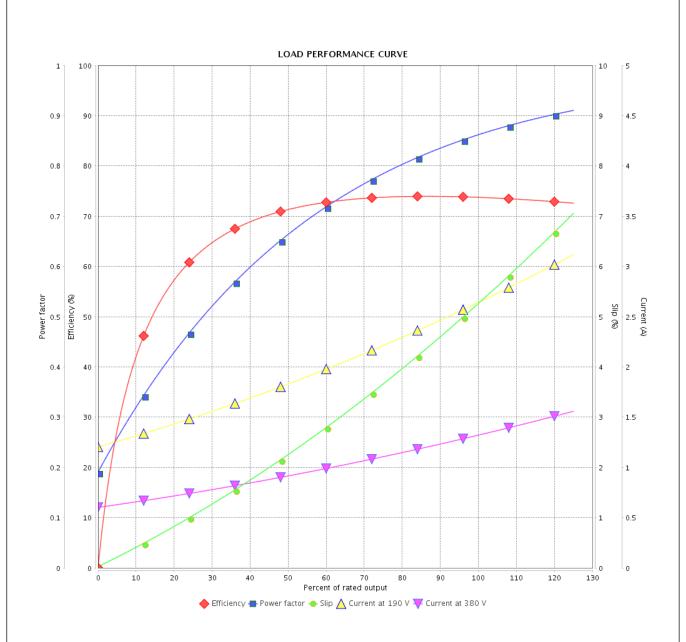
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 Performance
 : 190/380 V 50 Hz 2P

 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

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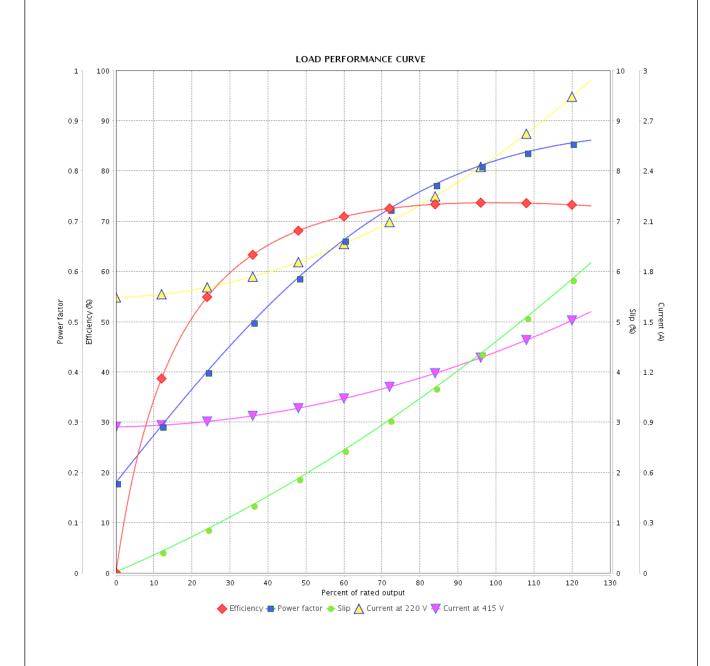
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Performance : 220/415 V 50 Hz 2P : 2.49/1.32 A Rated current Moment of inertia (J) : 0.0453 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) : 1.38 ft.lb : F Rated torque Insulation class Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 2860 rpm

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THERMAL LIMIT CURVE

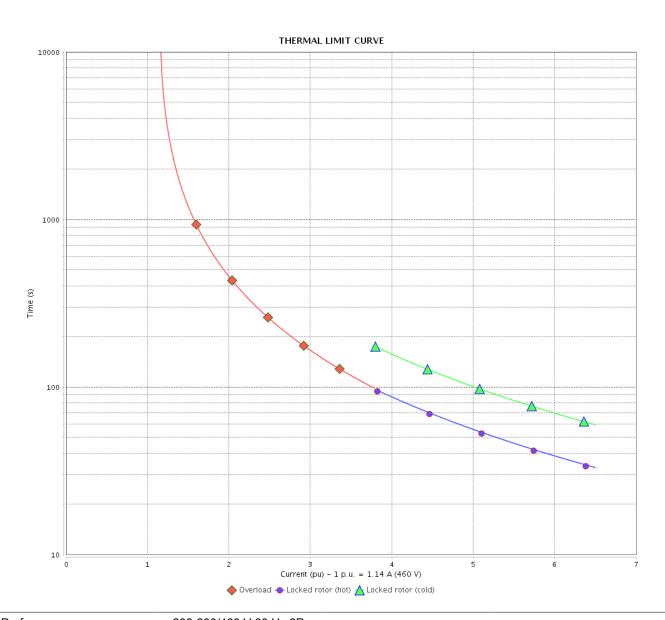
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Heating constant

Cooling constant

Cooling Constant					
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THERMAL LIMIT CURVE

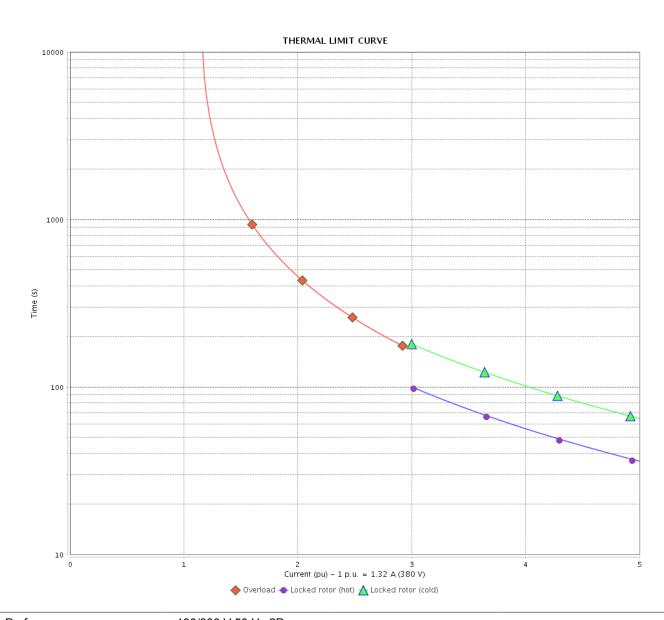
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 : 5.0
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 1.39 ft.lb
 Insulation class
 : F

 Locked return torque
 : 180 %
 Soprior factor
 : 1.35 ft.lb

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

Heating constant

 Cooling constant

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THERMAL LIMIT CURVE

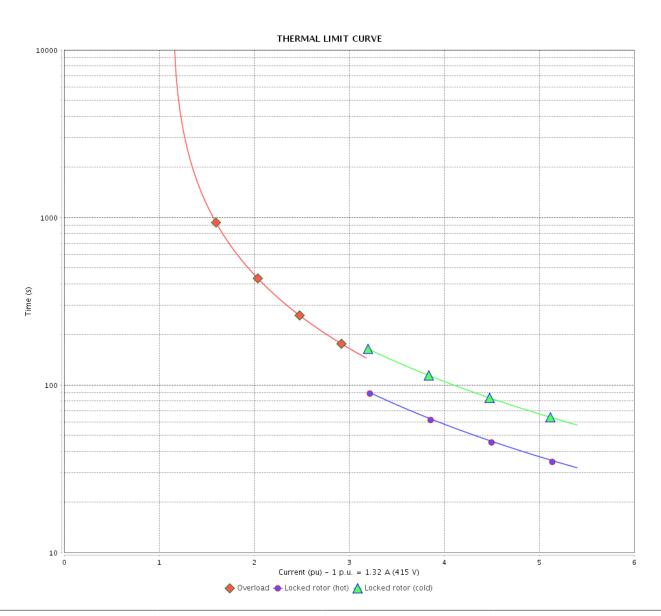
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LRC: 5.4Duty cycle: Cont.(S1)Rated torque: 1.38 ft.lbInsulation class: FLocked rotor torque: 200 %Service factor: 1.25Breakdown torque: 240 %Temperature rise: 80 K

Rated speed : 2860 rpm

Heating constant

Cooling constant	İ				
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VFD OPERATION CURVE

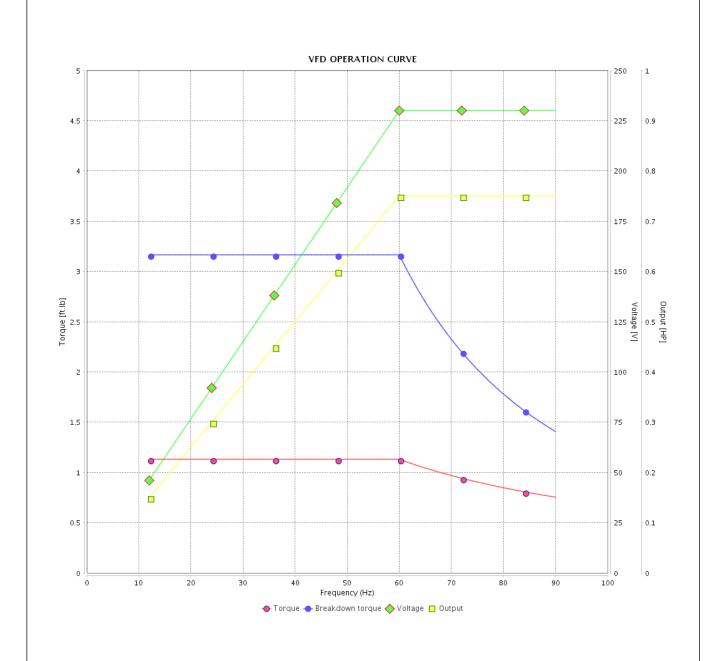
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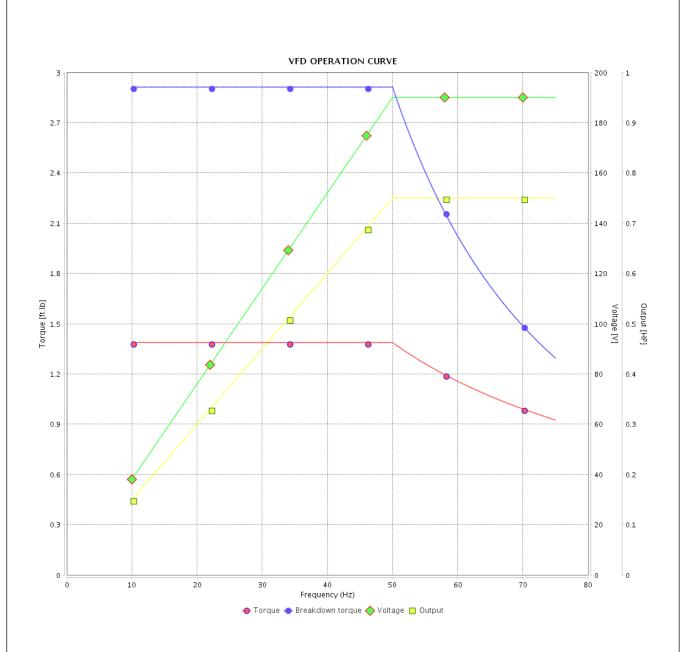
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Rated current : 2.64/1.32 A Moment of inertia (J) : 0.0453 sq.ft.lb LRC : 5.0 Duty cycle : Cont.(S1)

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

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VFD OPERATION CURVE

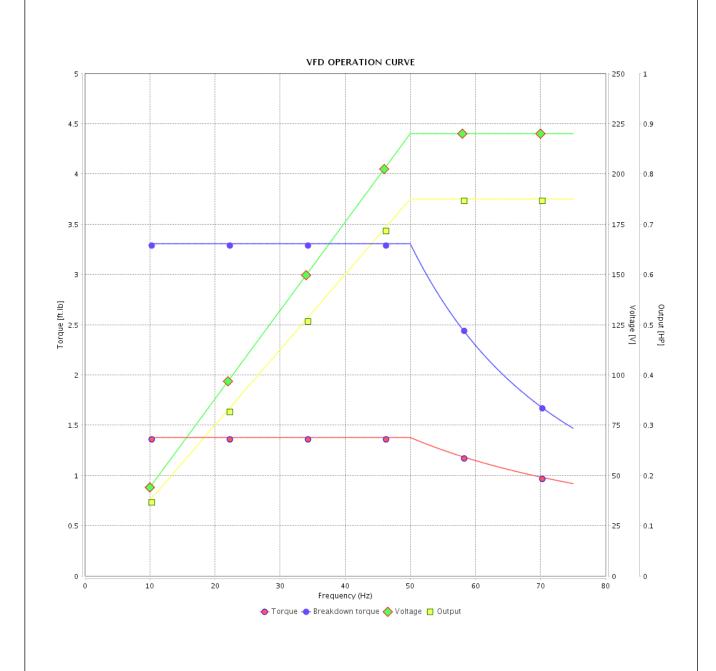
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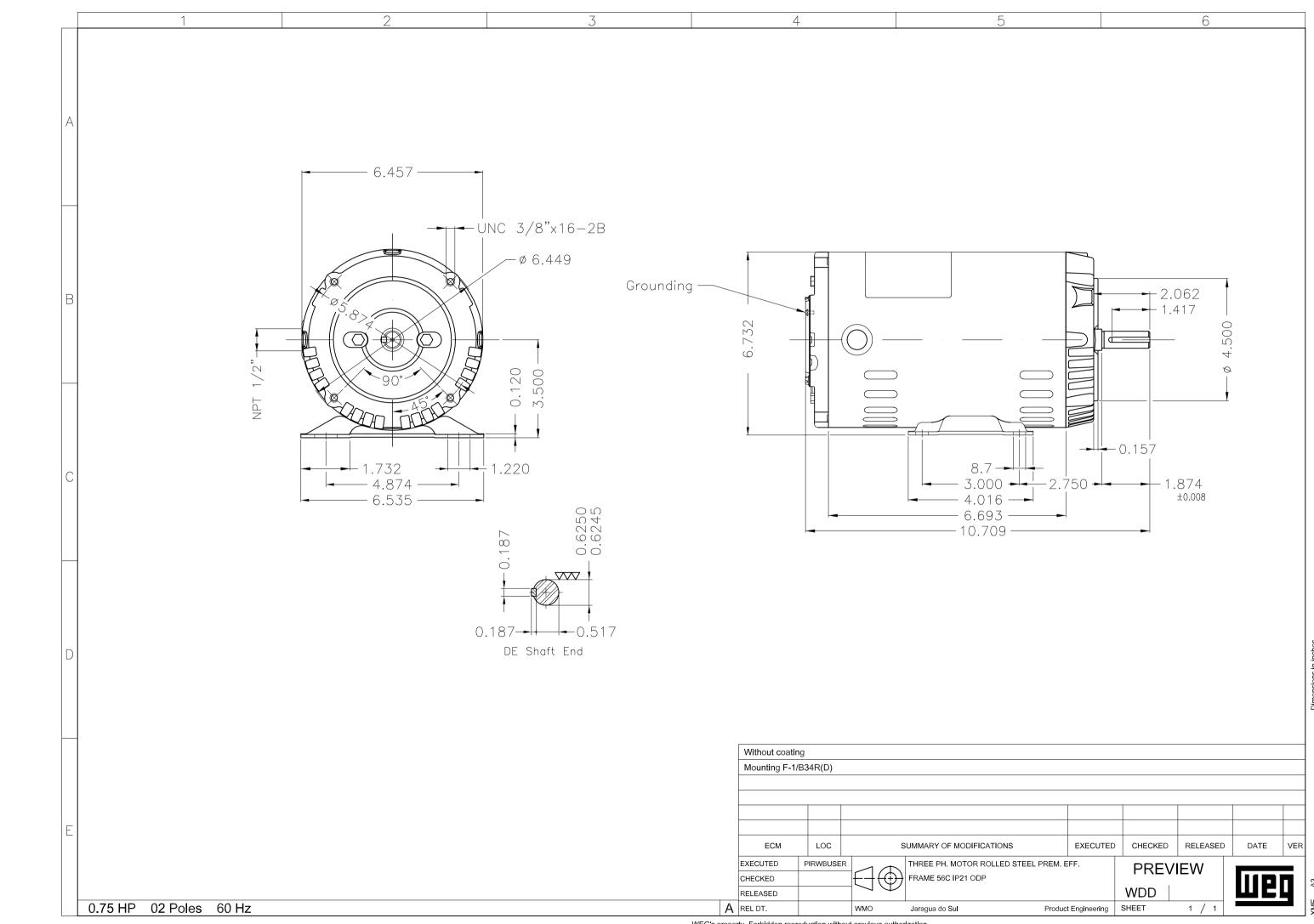
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Rated speed : 2860 rpm

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Energy Verifi

(**UL)**US LISTED

MODEL .75360T3E56C-S V01.TO0IC0X0X

12809603

MADE IN MÉXICO

ä 01FEB2022

9 4 CONT 56C

1000 m.a.s.

230/460 2.28/1.1 2.85/1 1.25

F AT 80K

CODE DES SABLE @ 208V 2.52A

2°04 900

NSC

LTERNATE RATING:

SF1.00 INC.

WG. F.L 2840RPM 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 ODE

IEC 6003 SF1.25

190-220/380-415V

50 Hz

EFF 73.2% %8.92

> 8202-ZZ 9

> > 8203-ZZ

2

MOBIL POLYREX EM

T2-WHT

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

T8-RED F6-GRY r4-YEL

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

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