DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 14799274

Catalog #: 00336ET3E56-S

Frame : 56H Cooling method : IC411 - TEFC 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 : 49.1 lb

Protection degree : IP55 Moment of inertia (J) : 0.1663 sq.ft.lb

Design : IP55 | Moment of Inertia (J) : 0.1663 sq.rt.ik

Output [HP]		3	3	3
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		7.02/3.51	8.50/4.25	7.62/4.04
L. R. Amperes [A]		66.7/33.3	62.9/31.5	63.3/33.5
LRC [A]		9.5x(Code L)	7.4x(Code J)	8.3x(Code K)
No load current [A		2.56/1.28	2.52/1.26	2.57/1.36
Rated speed [RPI	Л]	3500	2870	2885
Slip [%]		2.78	4.33	3.83
Rated torque [ft.lb]		4.49	5.49	5.46
Locked rotor torqu		300	229	270
Breakdown torque	: [%]	380	280	310
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		18s (cold) 10s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)
Noise level ²		68.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%	83.6	87.9	87.4
Efficiency (%)	50%	84.0	86.6	86.5
Liliciency (70)	75%	86.5	86.4	86.8
100%		86.5	84.6	85.5
	25%	0.51	0.57	0.53
Power Factor	50%	0.78	0.83	0.80
I OWELL ACIOI	75%	0.87	0.90	0.89
	100%	0.91	0.93	0.92

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

Bearing type : 6204 ZZ 6202 ZZ Max. traction : 142 lb Sealing : V'Ring Without Max. compression : 191 lb

Bearing Seal

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

Notes

USABLE @208V 7.76A SF 1.00 SFA 7.76A

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

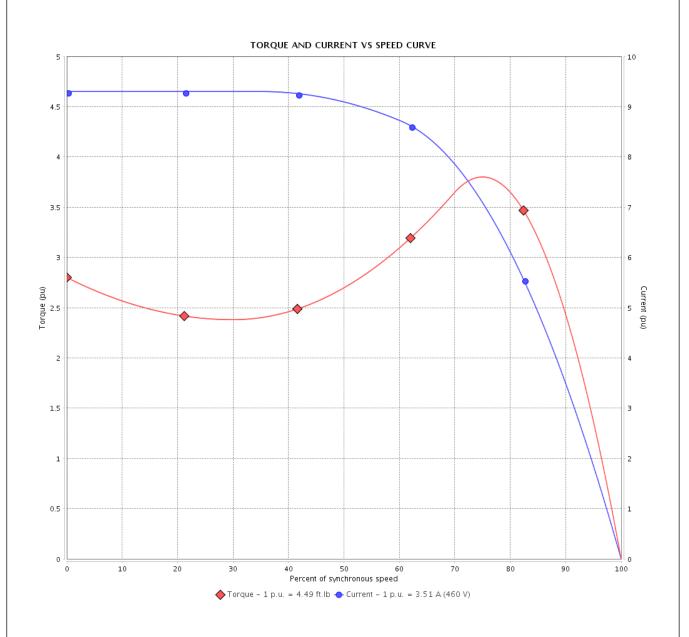
Three Phase Induction Motor - Squirrel Cage



Customer	•	
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Product line : Premium Efficiency Three-Phase Product code : 14799274

Catalog #: 00336ET3E56-S



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 7.02/3.51 A	Moment of inertia (J)	: 0.1663 sq.ft.lb
LRC	: 9.5	Duty cycle	: Cont.(S1)
Rated torque	: 4.49 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	:
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3500 rpm	Design	: B

Locked rotor time : 18s (cold) 10s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

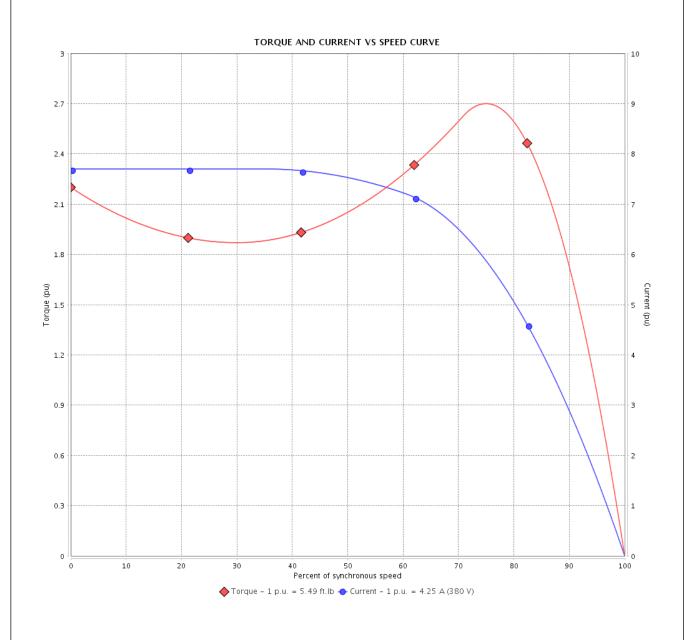
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 14799274

Catalog # : 00336ET3E56-S



Performance	: 190/380 V 50 Hz 2P			
Rated current	: 8.50/4.25 A	Moment of inertia (J)	: 0.1663 sq.ft.lb	
LRC	: 7.4	Duty cycle	: Cont.(S1)	
Rated torque	: 5.49 ft.lb	Insulation class	:F	
Locked rotor torque	: 229 %	Service factor	: 1.15	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 2870 rpm	Design	: B	

Locked rotor time : 16s (cold) 9s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

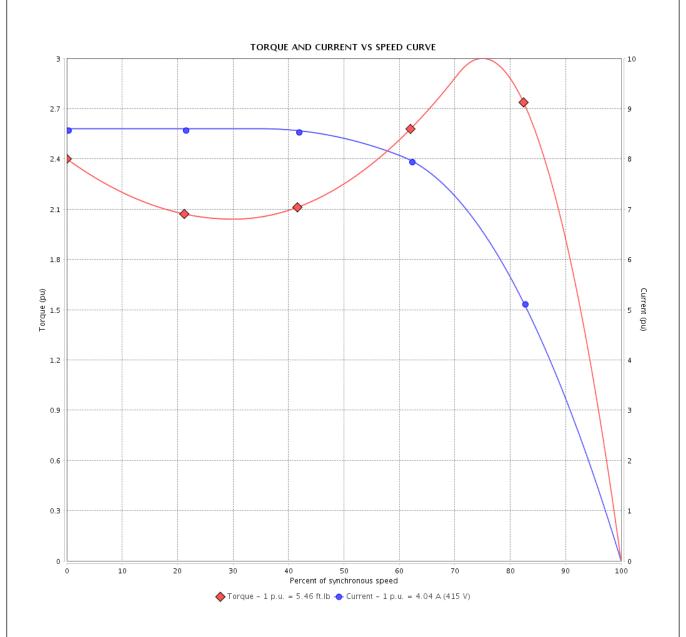
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 14799274

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Performance : 220/415 V 50 Hz 2P Rated current : 7.62/4.04 A Moment of inertia (J) : 0.1663 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 5.46 ft.lb Service factor Locked rotor torque : 270 % : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2885 rpm Design : B

Locked rotor time : 16s (cold) 9s (hot)

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LOAD PERFORMANCE CURVE

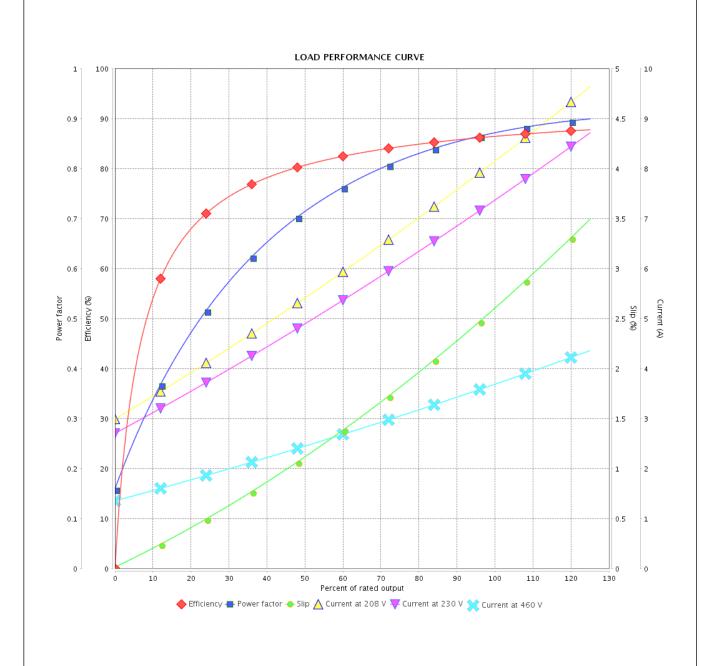
Three Phase Induction Motor - Squirrel Cage



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Product line : Premium Efficiency Three-Phase Product code : 14799274

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Performance	: 23	30/460 V 60 Hz 2P				
Rated current	: 7.	.02/3.51 A	02/3.51 A Moment of inertia (J)		: 0.1663 sq.ft.lb	
LRC	: 9.	.5	Duty cycle	9	: Cont.(S1)	
Rated torque	: 4.	49 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 30	00 %	Service fa	ictor	:	
Breakdown torqu	ie : 38	80 %	% Temperature rise		: 80 K	
Rated speed	: 38	500 rpm	Design		: B	
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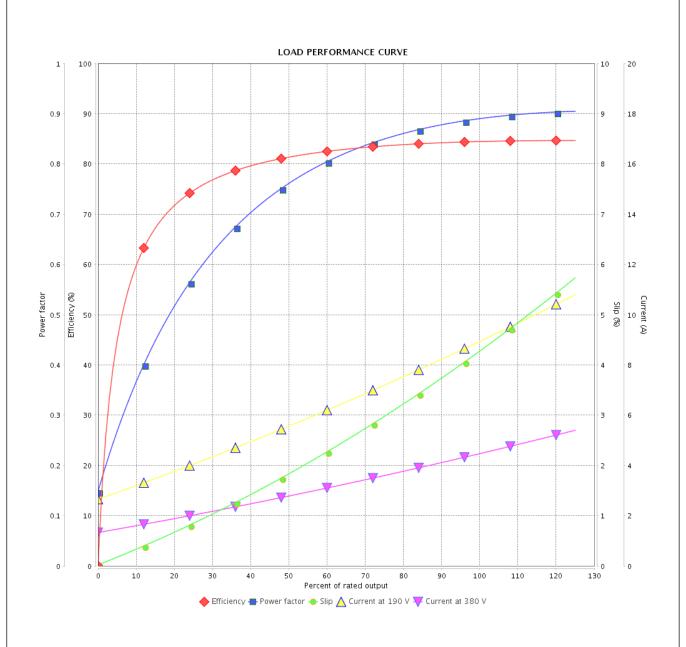
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Product line : Premium Efficiency Three-Phase Product code : 14799274

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Performance : 190/380 V 50 Hz 2P : 8.50/4.25 A Rated current Moment of inertia (J) : 0.1663 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 5.49 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2870 rpm Design

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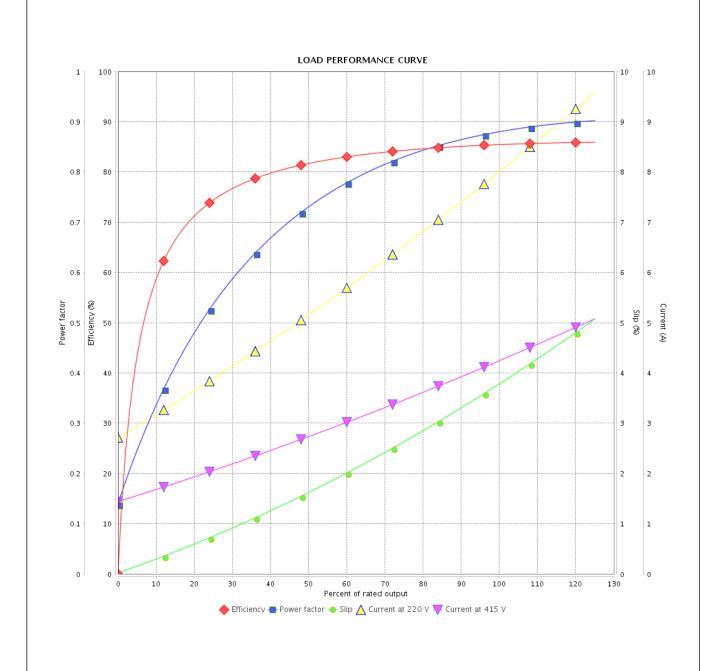
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Performance	: 220/415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.62/4.04 A : 8.3 : 5.46 ft.lb : 270 % : 310 % : 2885 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1663 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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THERMAL LIMIT CURVE

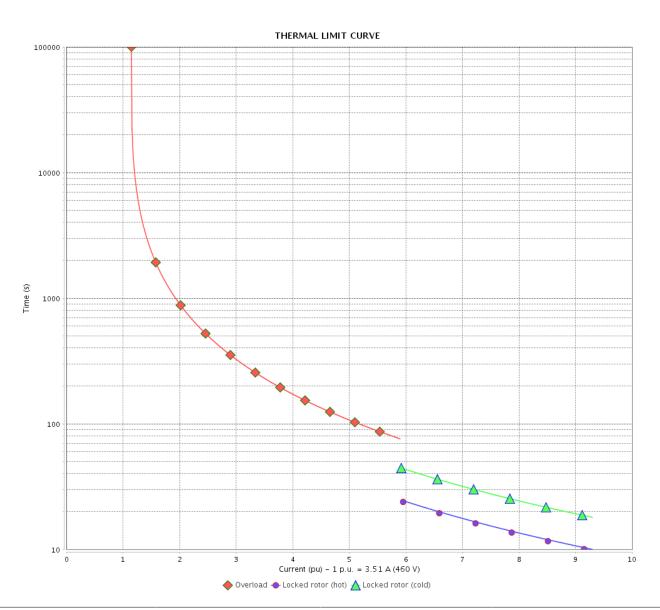
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Performance : 230/460 V 60 Hz 2P Rated current : 7.02/3.51 A Moment of inertia (J) : 0.1663 sq.ft.lb **LRC** : 9.5 Duty cycle : Cont.(S1) Insulation class : 4.49 ft.lb : F Rated torque Locked rotor torque : 300 % Service factor : 380 % Temperature rise : 80 K Breakdown torque Rated speed : 3500 rpm Design Heating constant Cooling constant

Cooling constant					
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THERMAL LIMIT CURVE

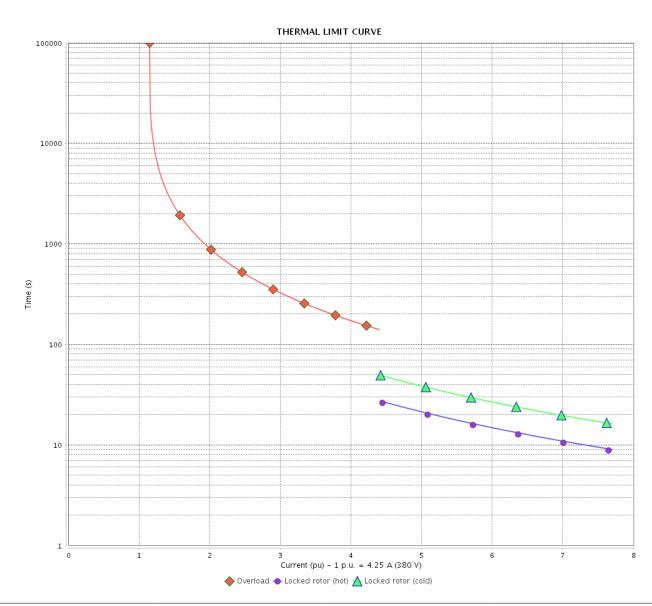
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Cooling constan	L				
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THERMAL LIMIT CURVE

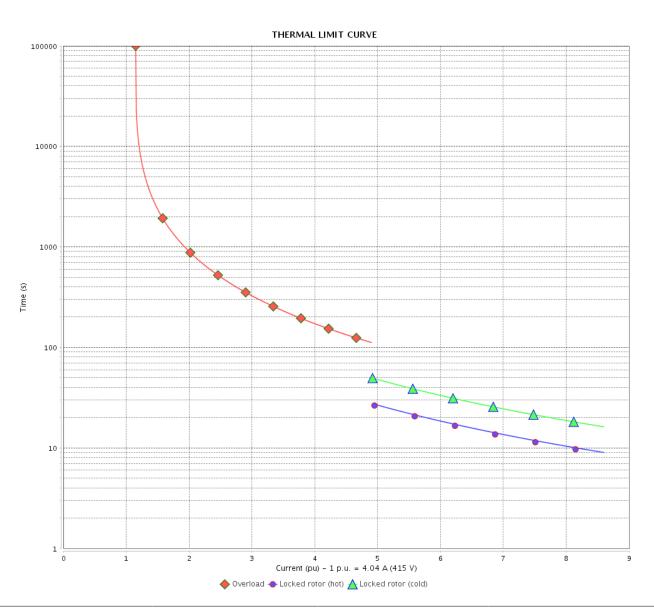
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Cooling constant

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

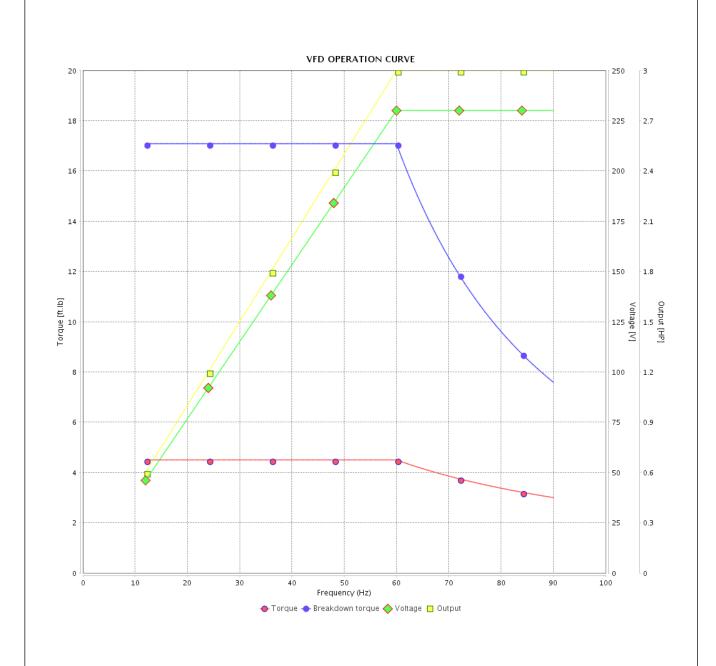


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Product line : Premium Efficiency Three-Phase Product code : 14799274

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Performance	: 230/460 V 60 Hz 2P				
Rated current	: 7.02/3.51 A	Moment of inertia (J)		: 0.1663 sq.ft.lb	
LRC	: 9.5	Duty cycle		: Cont.(S1)	
Rated torque	: 4.49 ft.lb	Insulation class		: F	
Locked rotor torque	: 300 %	Service factor		:	
Breakdown torque	: 380 %	Temperature rise		: 80 K	
Rated speed	: 3500 rpm	Design		: B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



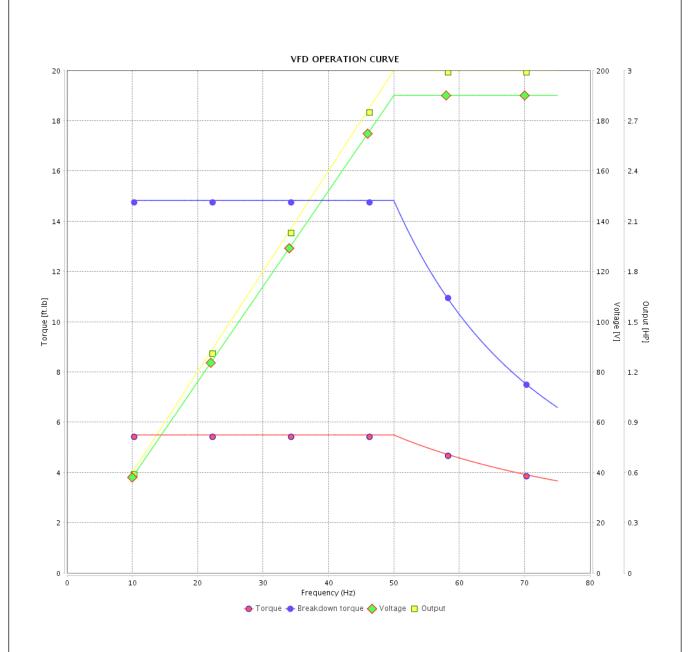
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Three Phase Induction Motor - Squirrel Cage



Customer :

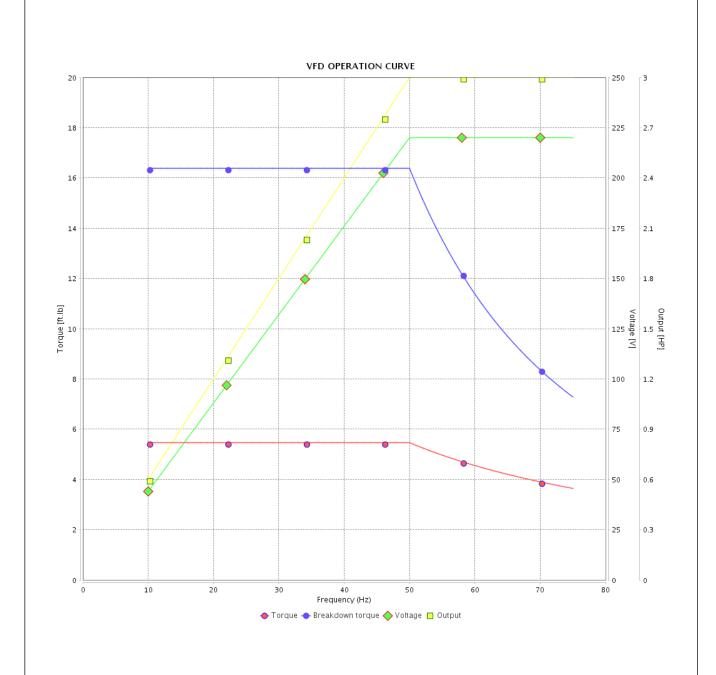
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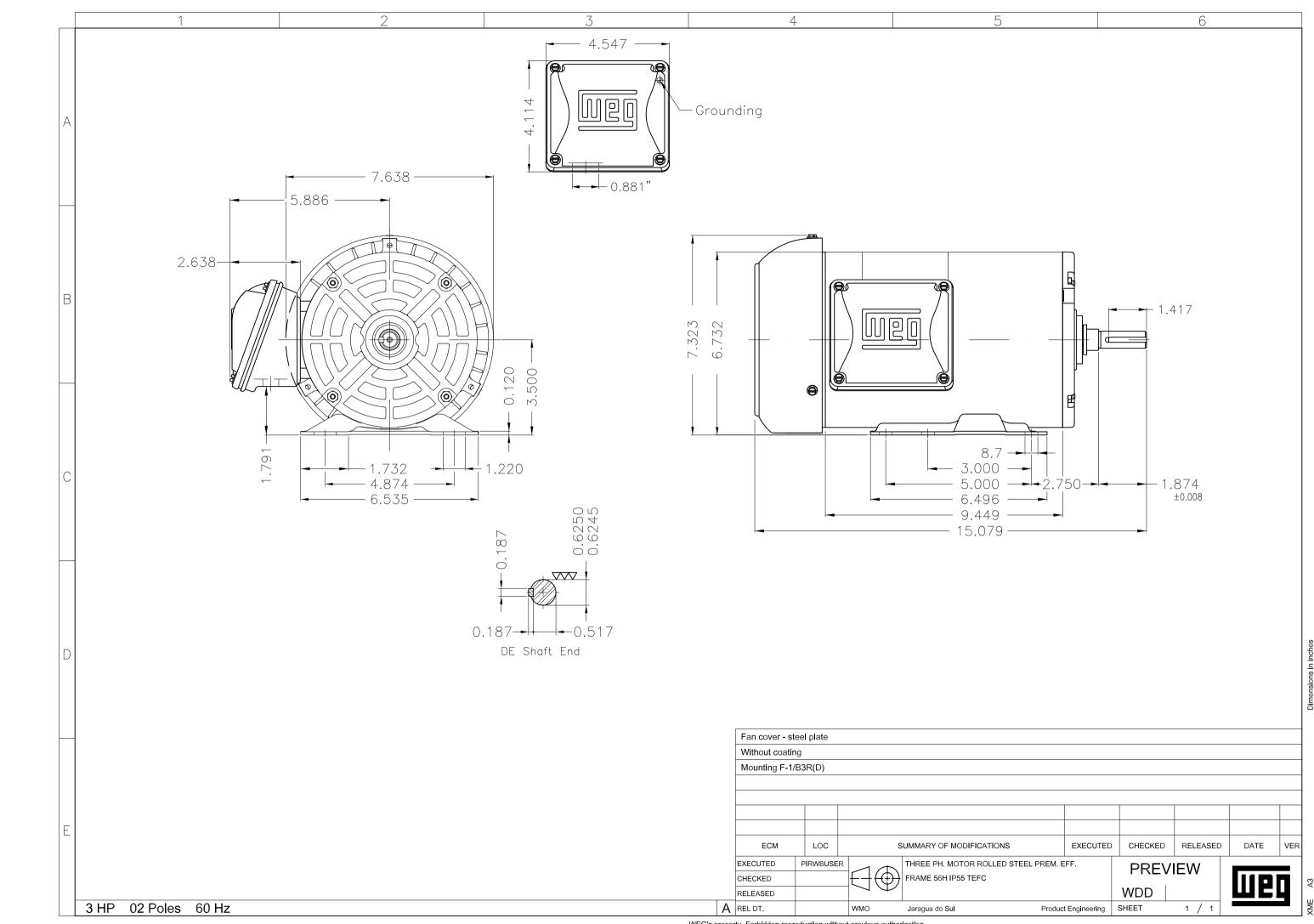


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(**UL)**US LISTED

3PT9

XEX 14799274 MADE IN MÉXICO

NO1.TEOICOXOX

MODEL 00336ET3E56-S

Hz 60

9NOV2021

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1 **&** Energy Verifi FOR SAFE AREA

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 5:1 CT 190-220/380-415V MOBIL POLYREX EM **EFF 84.6%** 86.5% 7.34/3.67 230/460 .15 NOM EFF NEMA 2870RPM SPM 3FA 냃 쌆 50 Hz

P55

1000 m.a.s.l

CONT

26H

F AT 80K

NSC

CODE SH

TEFC 2°04

SABLE @ 208V 7.76A

SF1.00 INC. W

3.0HP

3.88-7.72/4.44-4.09A

8204-ZZ

ALTERNATE RATING:

IEC 60034-1

SF1.15

ODE 6202-22 9 2

T2-WHT

r4-YEL

13-ORG 1-810



conformément aux codes électriques locaux et nationaux afin d'éviter tout 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 and national electrical codes to prevent serious electrical

AVERTISSEMENT: Le moteur doit être mis à la terre

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