DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code: 12759194

Catalog #: 00218OT3E56-S

: 56H Frame 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. weight ³	: 37.8 lb
Design		: A	Moment of inertia (J)	: 0.1168 sq.ft.lb
Output [HP]		2	2	2
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		5.38/2.69	6.52/3.26	5.90/3.13
L. R. Amperes [A]		41.4/20.7	36.5/18.3	36.6/19.4
LRC [A]		7.7x(Code K)	5.6x(Code G)	6.2x(Code H)
No load current [A	.]	2.75/1.38	2.70/1.35	2.82/1.49
Rated speed [RPI	Л]	1740	1410	1420
Slip [%]		3.33	6.00	5.33
Rated torque [ft.lb]		6.04	7.45	7.40
Locked rotor torqu	ie [%]	260	200	220
Breakdown torque	: [%]	320	229	260
Service factor			1.00	1.00
Temperature rise		80 K	105 K	80 K
Locked rotor time		30s (cold) 17s (hot)	28s (cold) 16s (hot)	27s (cold) 15s (hot)
Noise level ²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	85.2	88.2	86.4
Efficiency (%)	50%	85.5	85.9	85.2
Lilicierity (70)	75%	86.5	85.0	85.2
	100%	86.5	82.2	83.4
	25%	0.36	0.42	0.38
Power Factor	50%	0.61	0.69	0.64
I OWEI FACIOI	75%	0.74	0.80	0.77
	100%	0.81	0.85	0.83

Drive end Non drive end Foundation loads

6204 ZZ Bearing type 6202 ZZ Max. traction : 170 lb Sealing Without Without Max. compression : 208 lb

Bearing Seal Bearing Seal

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 5.95A SF 1.00 SFA 5.95A

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

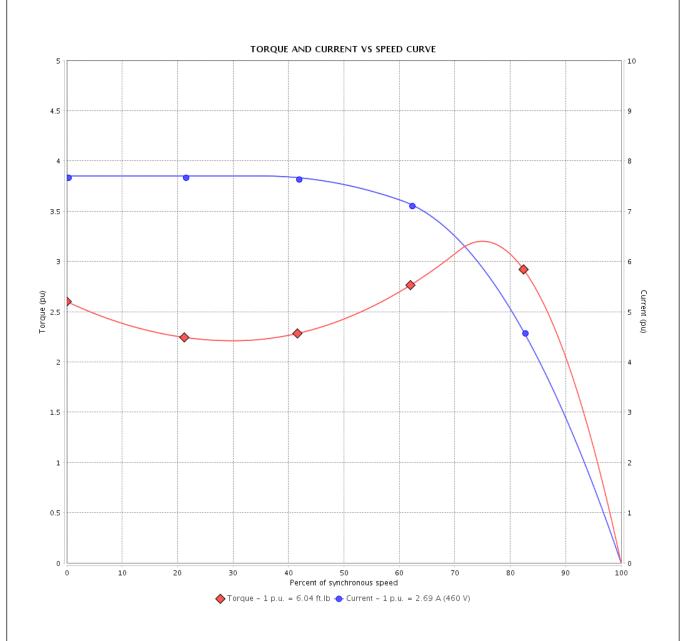
Three Phase Induction Motor - Squirrel Cage



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Product line : Premium Efficiency Three-Phase Product code : 12759194

Catalog #: 00218OT3E56-S



Performance : 230/460 V 60 Hz 4P Rated current : 5.38/2.69 A Moment of inertia (J) : 0.1168 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : F Rated torque : 6.04 ft.lb Insulation class : 260 % Service factor Locked rotor torque : 80 K Breakdown torque : 320 % Temperature rise Rated speed : 1740 rpm Design : A

Locked rotor time : 30s (cold) 17s (hot)

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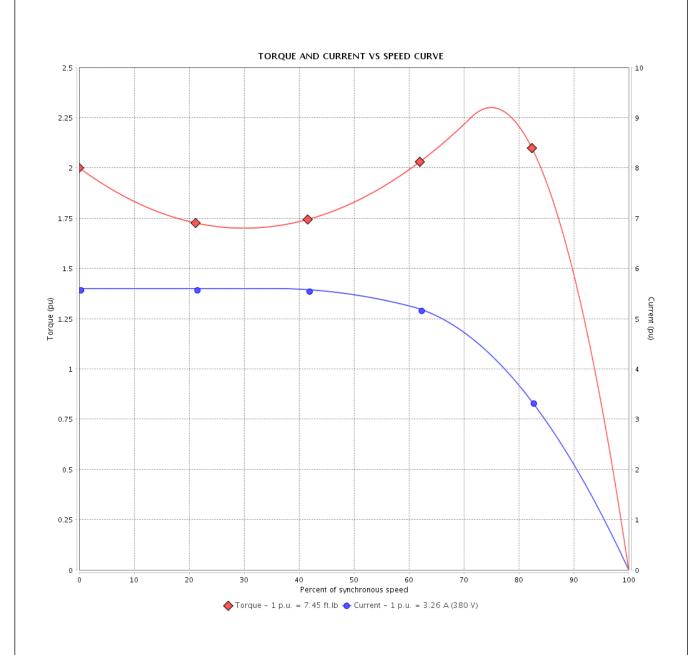
Three Phase Induction Motor - Squirrel Cage



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Product line : Premium Efficiency Three-Phase Product code : 12759194

Catalog #: 00218OT3E56-S



Performance	: 190/380 V 50 Hz 4P		
Rated current	: 6.52/3.26 A	Moment of inertia (J)	: 0.1168 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 7.45 ft.lb	Insulation class	:F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 1410 rpm	Design	: A

Locked rotor time : 28s (cold) 16s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

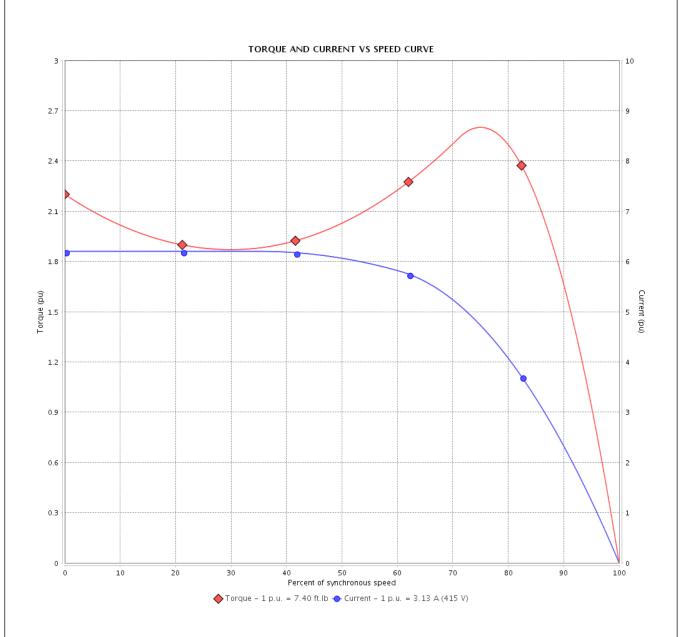
Three Phase Induction Motor - Squirrel Cage



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Performance	: 220/415 V 50 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.90/3.13 A : 6.2 : 7.40 ft.lb : 220 % : 260 % : 1420 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1168 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : A
Rated speed	: 1420 rpm	Design	: A

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

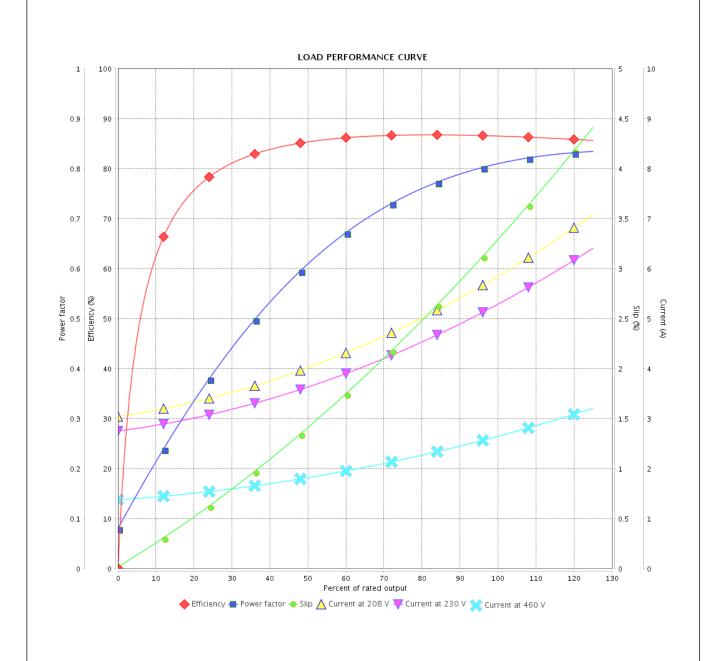
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Product line : Premium Efficiency Three-Phase Product code : 12759194

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Performance	: 2	: 230/460 V 60 Hz 4P				
Rated current	ated current : 5.38/2.69 A Mome		Moment o	Moment of inertia (J)		lb
LRC	: 7	7.7	Duty cycle	}	: Cont.(S1)	
Rated torque	: 6	6.04 ft.lb	Insulation	class	: F ` ´	
Locked rotor torq	jue : 2	: 260 % Service factor :		Service factor		
Breakdown torqu	ie :3	320 %	Temperature rise		: 80 K	
Rated speed	: 1	: 1740 rpm		Design		
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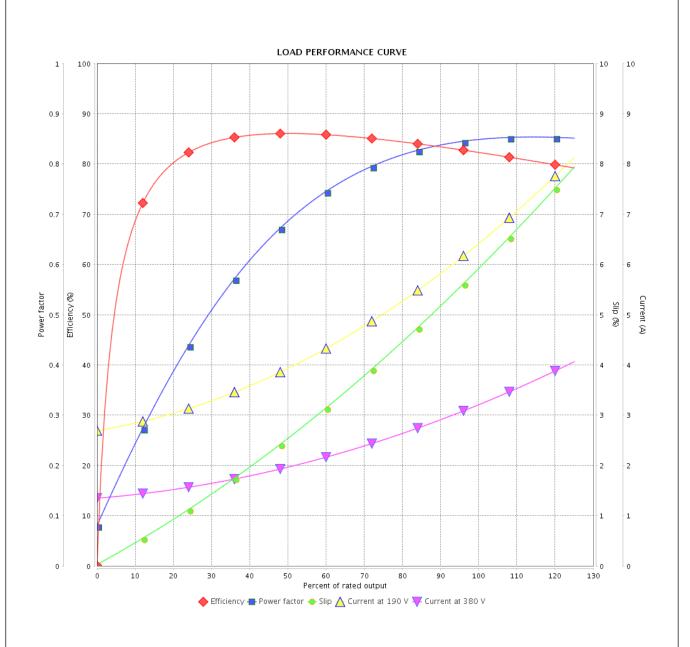
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Performance : 190/380 V 50 Hz 4P : 6.52/3.26 A Moment of inertia (J) : 0.1168 sq.ft.lb Rated current **LRC** : Cont.(S1) : 5.6 Duty cycle : 7.45 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Design Rated speed : 1410 rpm : A D ----Changes Summan Ol- - - I - - - I

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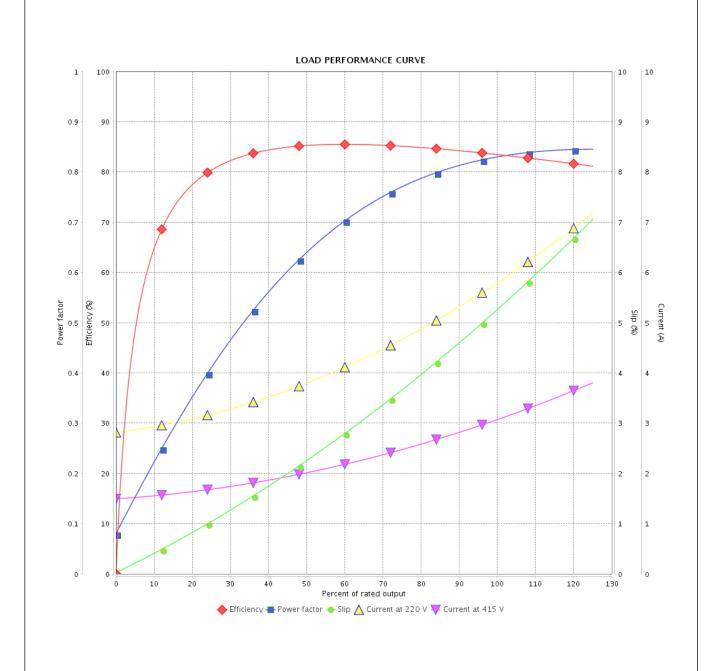
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Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 5.90/3.13 A : 6.2 : 7.40 ft.lb : 220 % : 260 % : 1420 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 0.1168 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : A	lb
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THERMAL LIMIT CURVE

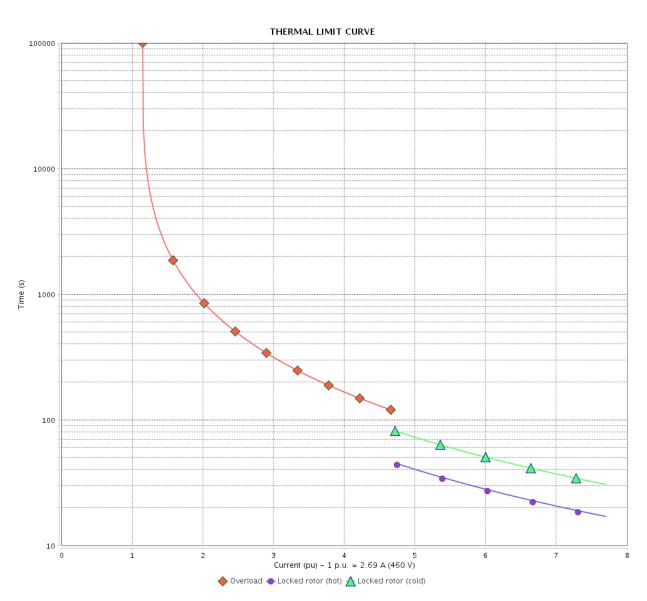
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Performance : 230/460 V 60 Hz 4P Rated current : 5.38/2.69 A Moment of inertia (J) : 0.1168 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) Insulation class : 6.04 ft.lb : F Rated torque : 260 % Locked rotor torque Service factor Breakdown torque : 320 % : 80 K Temperature rise Rated speed : 1740 rpm Design Heating constant

Cooling constant

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THERMAL LIMIT CURVE

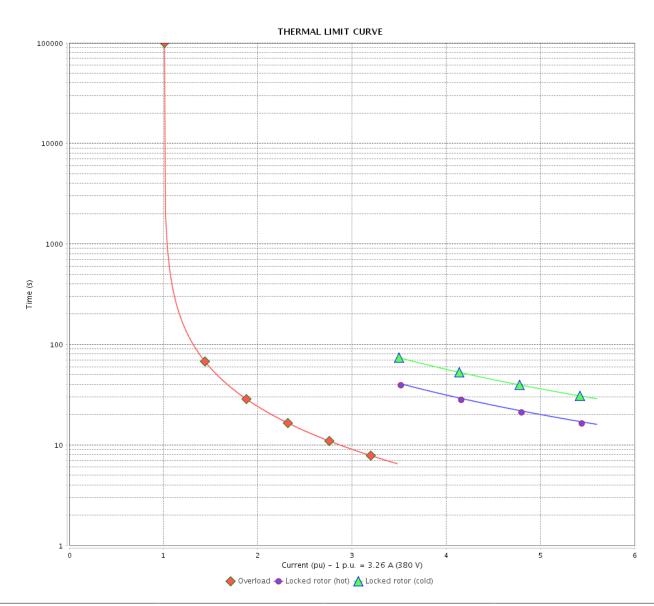
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: 190/380 V 50 Hz 4P Performance : 6.52/3.26 A Moment of inertia (J) : 0.1168 sq.ft.lb Rated current **LRC** Duty cycle : Cont.(S1) : 5.6 : 7.45 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 : 229 % : 105 K Breakdown torque Temperature rise Rated speed : 1410 rpm Design : A Heating constant

Cooling constan	ι				
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THERMAL LIMIT CURVE

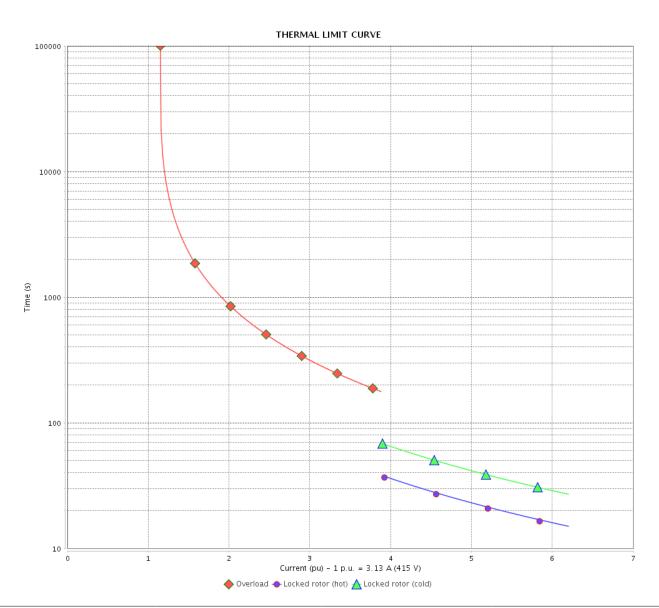
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Performance : 220/415 V 50 Hz 4P Rated current : 5.90/3.13 A Moment of inertia (J) : 0.1168 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class : 7.40 ft.lb Rated torque : F : 220 % : 1.00 Locked rotor torque Service factor Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1420 rpm Design : A Heating constant

Cooling constant

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VFD OPERATION CURVE

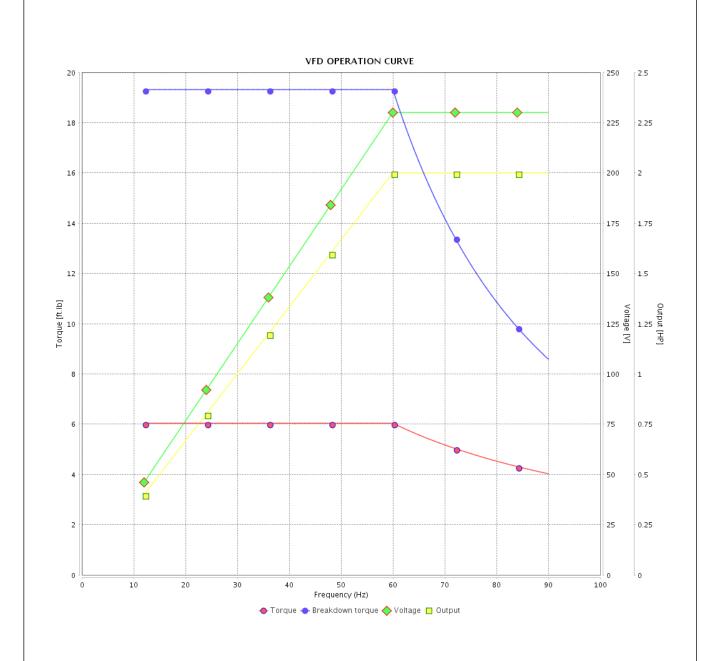
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Performance	:	230/460 V 60 Hz 4P				
Rated current	:	5.38/2.69 A	Moment of inertia (J)		: 0.1168 sq.ft.lb	
LRC	: 7.7 Duty cycle		: Cont.(S1)			
Rated torque : 6.04 ft.lb		6.04 ft.lb	Insulation class		: F	
Locked rotor torque : 260 %		260 %	Service factor		:	
Breakdown torque	:	320 %	Temperature rise		: 80 K	
Rated speed	:	1740 rpm	Design		: A	
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VFD OPERATION CURVE

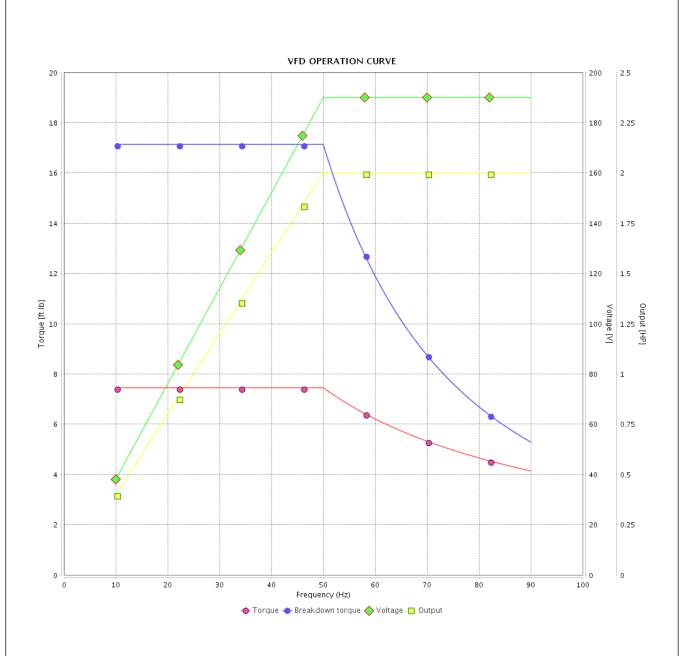
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Performance	: 190/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.52/3.26 A : 5.6 : 7.45 ft.lb : 200 % : 229 % : 1410 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1168 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : A	
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VFD OPERATION CURVE

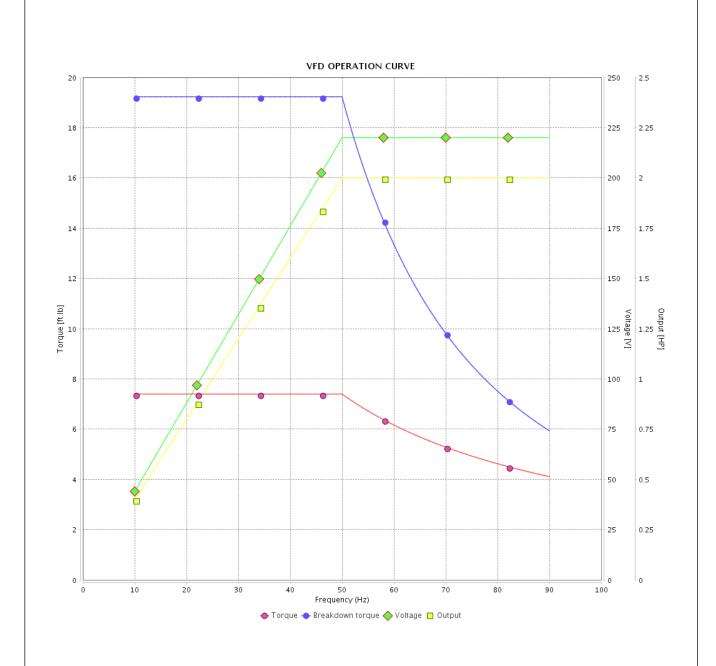
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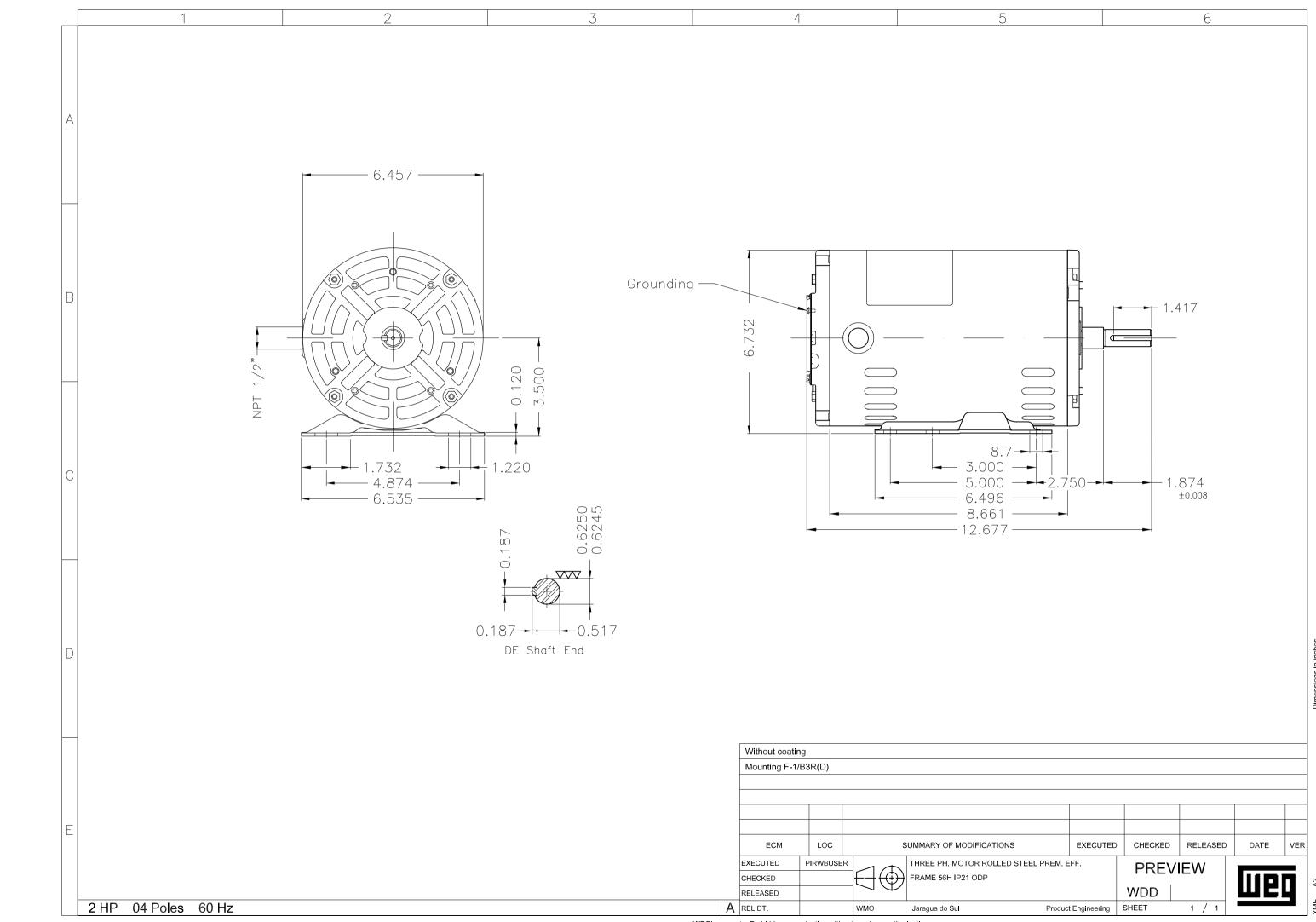
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Rated current	: 5.90/3.13 A Moment of inertia (J) : 0.1168 sq.ft.lb		Moment of inertia (J)		.lb
LRC	: 6.2	Duty cycle		: Cont.(S1)	
Rated torque	: 7.40 ft.lb	Insulation	class	: F	
Locked rotor torque	: 220 % Service factor		ictor	: 1.00	
Breakdown torque	: 260 % Tempera		emperature rise : 80 K		
Rated speed	: 1420 rpm	Design		: A	
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12759194 MADE IN MÉXICO

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Energy Verifi

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3PT9

MODEL 002180T3E56-S N01.TO0IC0X0X

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CONT 26H

1000 m.a.s. F AT 80K

230/460

CODE DES SABLE @ 208V 5.95A

2°04 900

NSC

ZPM 3FA 냃 뿝

.15

2.0HP LTERNATE RATING:

SF1.00 INC.

86.5%

NOM EFF

3.52-5.79/3.26-3.07A

1410RPM 50 Hz

8202-ZZ

ODE

8204-ZZ

9

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190-220/380-415V

IEC 60034-1

SF1.00

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. MOBIL POLYREX EM **EFF 82.2%**

T2-WHT

13-ORG 1-BLU I7-PNK F5-BLK

F6-GRY T4-YEL

T9-BRK RED

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



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

conformément aux codes électriques locaux et nationaux afin d'éviter tout

