DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13089807

Catalog #: 00318OT3E56Z-S

Frame : 56HZ 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 : 10		: 1000 m.a.s.l.	Approx. weight ³	: 43.0 lb
Design		: A	Moment of inertia (J)	
Output [HP]		3	2	2
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		208-230/460	190/380	220/415
Rated current [A]		8.79-7.94/3.97	6.96/3.48	6.75/3.58
L. R. Amperes [A]		66.8-60.3/30.2	55.0/27.5	58.0/30.8
LRC [A]		7.6x(Code K)	7.9x(Code L)	8.6x(Code M)
No load current [A]		3.62-4.20/2.10	4.19/2.10	4.88/2.59
Rated speed [RPM	1]	1735	1445	1455
Slip [%]		3.61	3.67	3.00
Rated torque [ft.lb]		9.08	7.27	7.22
Locked rotor torque	e [%]	270	320	400
Breakdown torque	[%]	300	370	450
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		21s (cold) 12s (hot)	30s (cold) 17s (hot)	25s (cold) 14s (hot)
Noise level ²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	0.000	0.000	0.000
Efficiency (%)	50%	86.5	85.1	82.0
Elliciency (70)	75%	86.5	86.6	85.0
	100%	86.9	86.2	85.8
	25%	0.00	0.00	0.00
Power Factor	50%	0.59	0.54	0.45
I OWELL ACIOL	75%	0.72	0.68	0.58
	100%	0.80	0.76	0.68

Drive end Non drive end Foundation loads

Bearing type : 6205 ZZ 6202 ZZ Max. traction : 298 lb Sealing : Without Without Max. compression : 341 lb

Bearing Seal Bearing Seal

Lubrication interval:0 h0 hLubricant amount:0 g0 gLubricant type:Mobil Polyrex EM

Notes

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

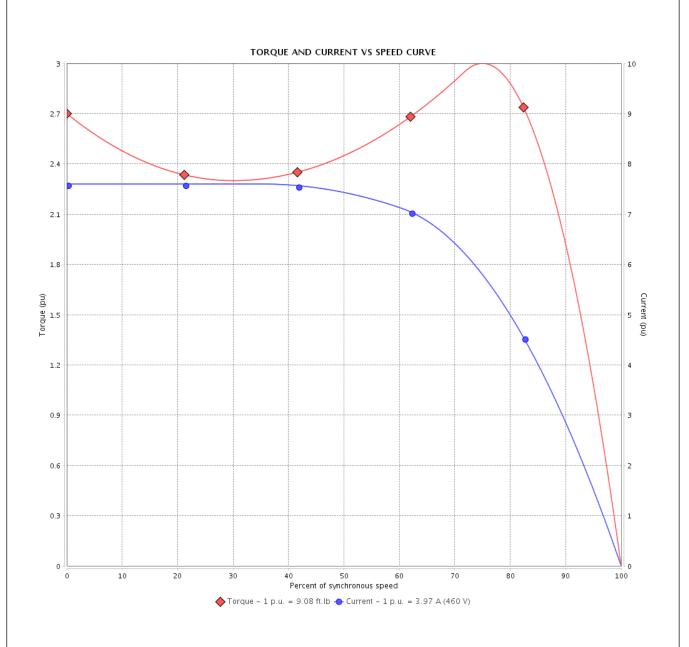
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13089807

Catalog #: 00318OT3E56Z-S



Performance : 208-230/460 V 60 Hz 4P Rated current : 8.79-7.94/3.97 A Moment of inertia (J) : Cont.(S1) **LRC** : 7.6 Duty cycle : F : 9.08 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 270 % : 1.15 : 80 K Breakdown torque : 300 % Temperature rise

Design

: A

Locked rotor time : 21s (cold) 12s (hot)

: 1735 rpm

Rated speed

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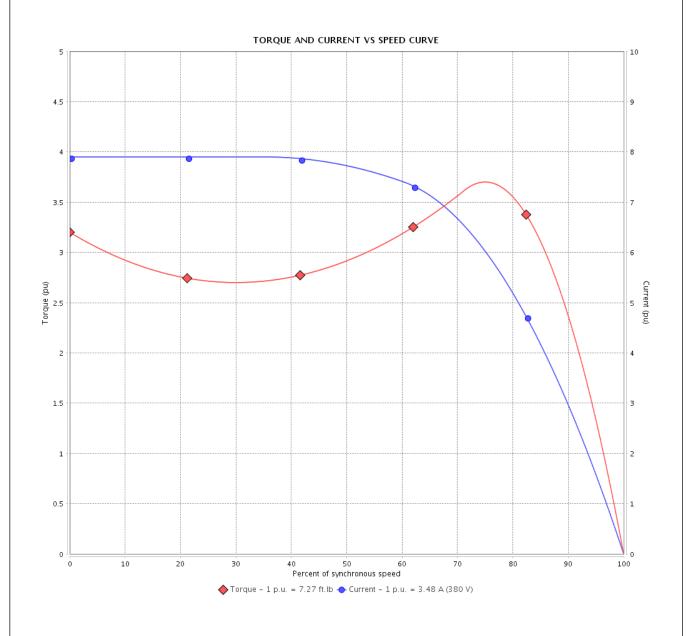
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13089807

Catalog #: 00318OT3E56Z-S



Performance : 190/380 V 50 Hz 4P Rated current : 6.96/3.48 A Moment of inertia (J) **LRC** : 7.9 Duty cycle : Cont.(S1) : 7.27 ft.lb Insulation class : F Rated torque : 320 % Locked rotor torque Service factor : 1.15 : 80 K Breakdown torque : 370 % Temperature rise Rated speed : 1445 rpm Design : A

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

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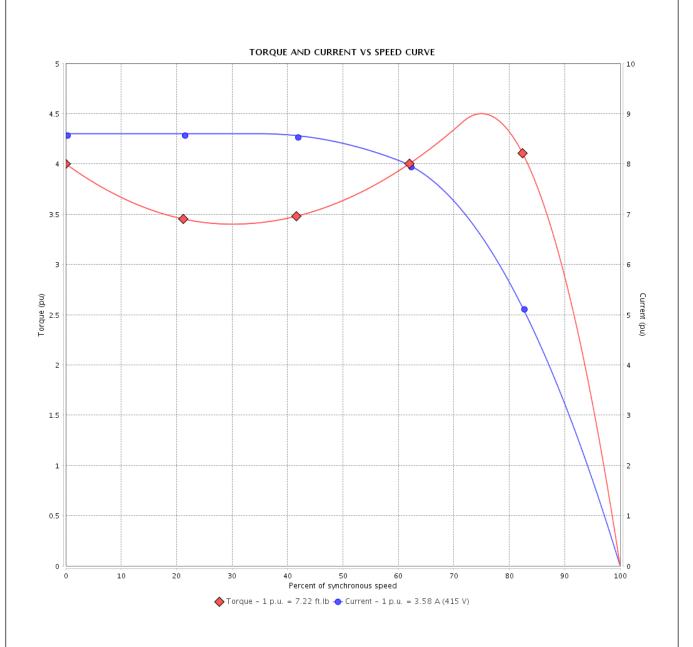
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13089807

Catalog #: 00318OT3E56Z-S



 Performance
 : 220/415 V 50 Hz 4P

 Rated current
 : 6.75/3.58 A
 Moment of inertia (J)

LRC: 8.6Duty cycle: Cont.(S1)Rated torque: 7.22 ft.lbInsulation class: FLocked rotor torque: 400 %Service factor: 1.15

Breakdown torque : 450 % Temperature rise : 80 K Rated speed : 1455 rpm Design : A

Locked rotor time : 25s (cold) 14s (hot)

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LOAD PERFORMANCE CURVE

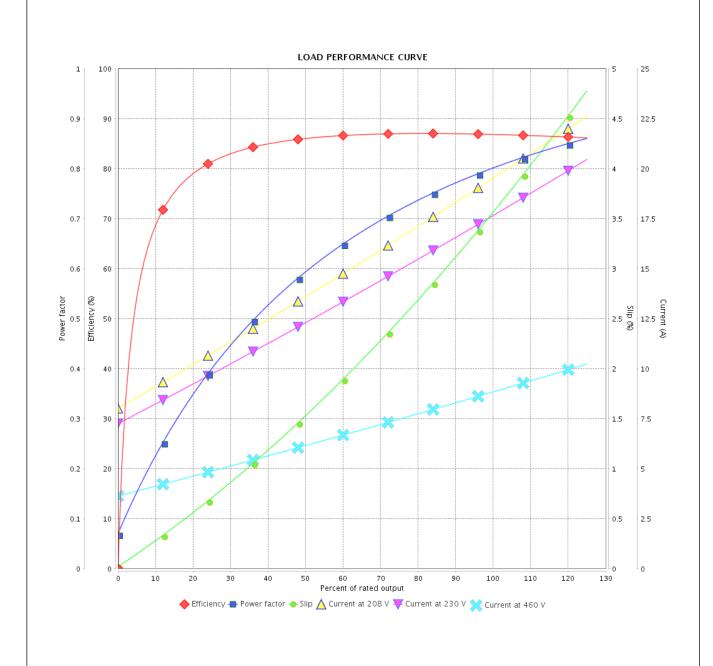
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code : 13089807

Catalog #: 00318OT3E56Z-S



Performance	: 2	208-230/460 V 60 Hz 4	·P			
Rated current	: 8	3.79-7.94/3.97 A	Moment o	f inertia (J)		
LRC	: 7	7.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 9	9.08 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	270 %	Service fa	ctor	: 1.15	
Breakdown torque	e :3	300 %	Temperature rise		: 80 K	
Rated speed	: 1	1735 rpm	Design		: A	
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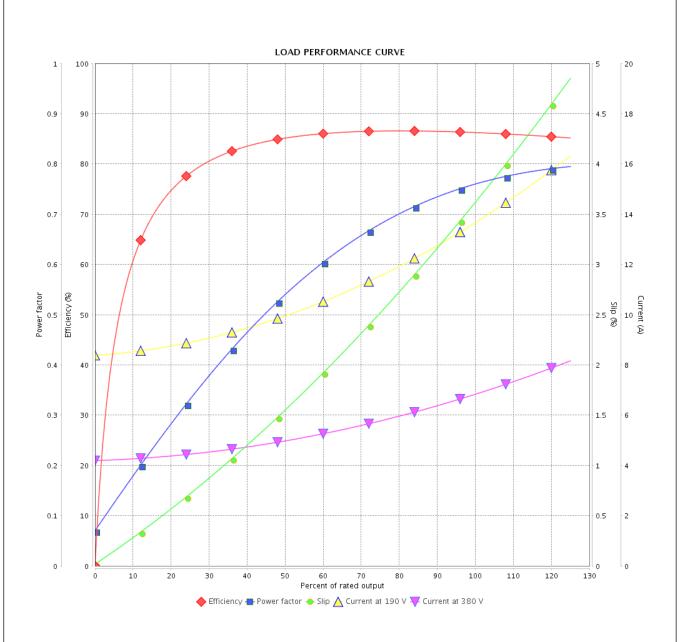
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Customer :

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Performance	: 190/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.96/3.48 A : 7.9 : 7.27 ft.lb : 320 % : 370 % : 1445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: Cont.(S1) : F : 1.15 : 80 K : A	
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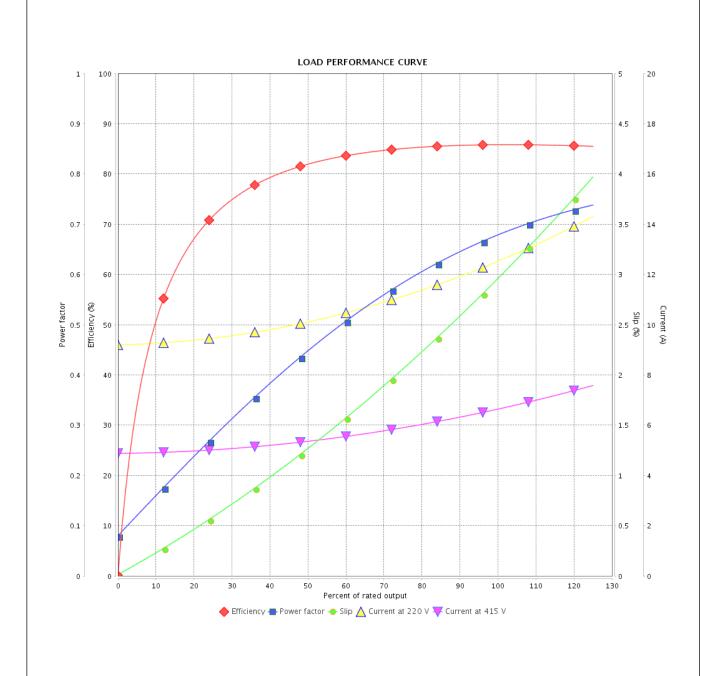
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code : 13089807

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Performance	: 2	220/415 V 50 Hz 4P				
Rated current	: 6	6.75/3.58 A	Moment o	f inertia (J)		
LRC	: 8	3.6	Duty cycle	}	: Cont.(S1)	
Rated torque	: 7	7.22 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 4	100 %	Service fa	ctor	: 1.15	
Breakdown torque		! 50 %	Temperature rise		: 80 K	
Rated speed	: 1	455 rpm	Design		: A	
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THERMAL LIMIT CURVE

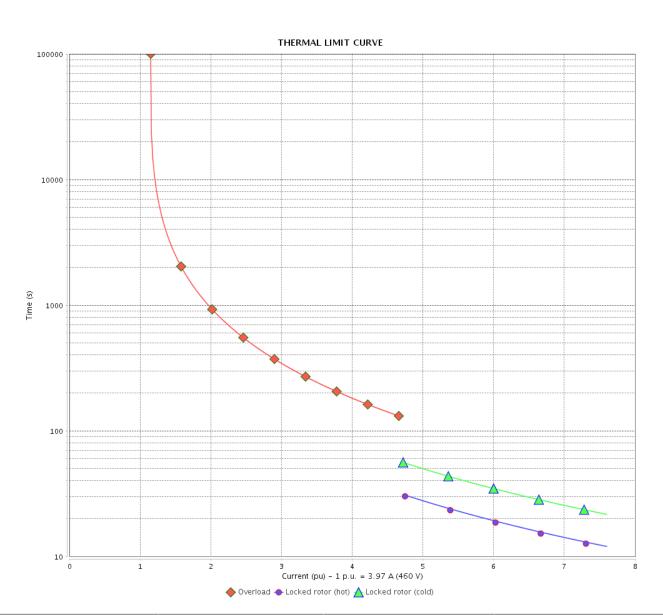
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Performance : 208-230/460 V 60 Hz 4P Rated current : 8.79-7.94/3.97 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 7.6 Insulation class : F : 9.08 ft.lb Rated torque : 1.15 Locked rotor torque : 270 % Service factor Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1735 rpm Design Heating constant Cooling constant

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THERMAL LIMIT CURVE

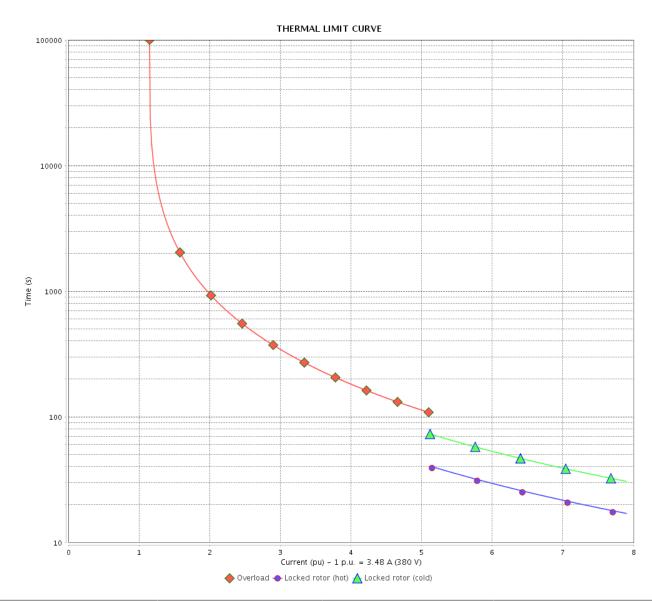
Three Phase Induction Motor - Squirrel Cage



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Performance : 190/380 V 50 Hz 4P : 6.96/3.48 A Moment of inertia (J) Rated current **LRC** Duty cycle : Cont.(S1) : 7.9 Insulation class Rated torque : 7.27 ft.lb : F Locked rotor torque : 320 % Service factor : 1.15 : 370 % : 80 K Breakdown torque Temperature rise Rated speed : 1445 rpm Design : A Heating constant Cooling constant

 Cooling constant
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Three Phase Induction Motor - Squirrel Cage

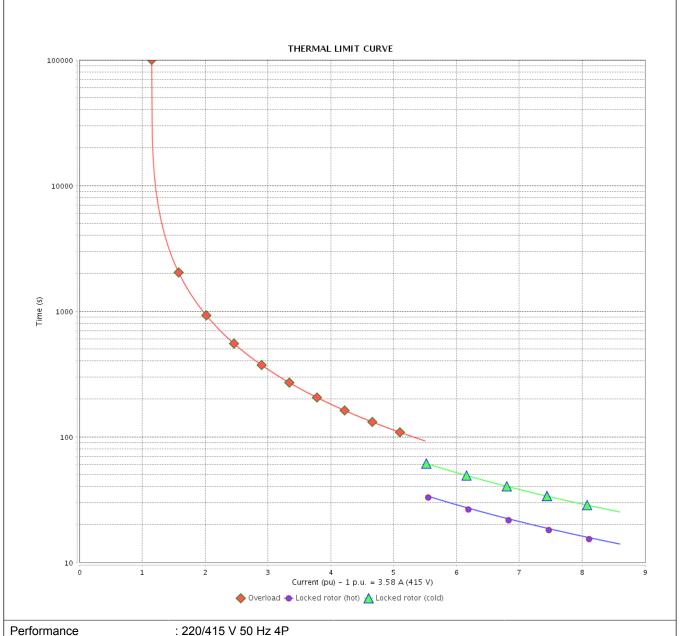


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Product line : Premium Efficiency Three-Phase Product code :

Catalog #: 00318OT3E56Z-S

13089807



Rated current : 6.75/3.58 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 8.6 Insulation class : 7.22 ft.lb : F Rated torque : 1.15 Locked rotor torque : 400 % Service factor : 450 % : 80 K Breakdown torque Temperature rise Rated speed Design : 1455 rpm : A

Heating constant

Cooling constant

Cooling Constant	L .					
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VFD OPERATION CURVE

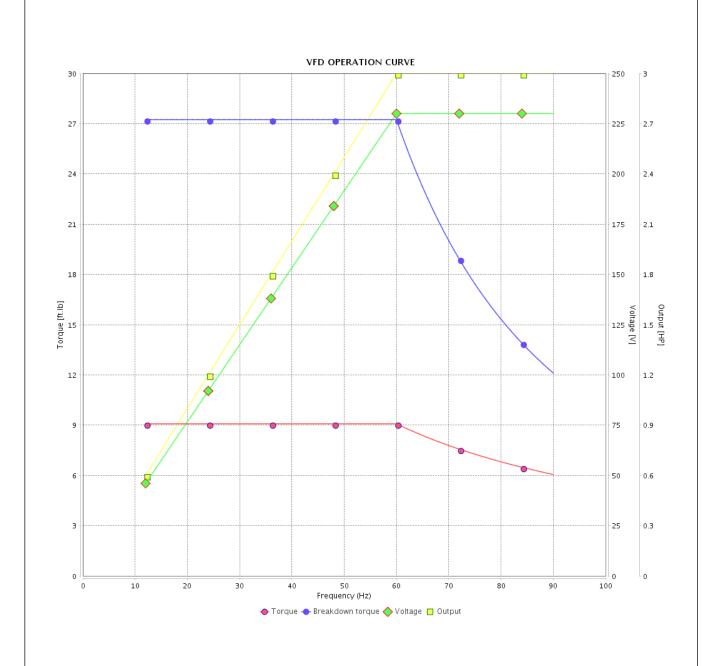
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Performance	: 208-230/460 V 60 Hz 4P					
Rated current	: 8.79-7.94/3.97 A	Moment of inertia (J)		0 1 (04)		
LRC	: 7.6	Duty cycle		: Cont.(S1)		
Rated torque	: 9.08 ft.lb	Insulation class		: F		
Locked rotor torque	orque : 270 %		ctor	: 1.15		
Breakdown torque	: 300 %	Temperature rise		: 80 K		
Rated speed	: 1735 rpm Design			: A		
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VFD OPERATION CURVE

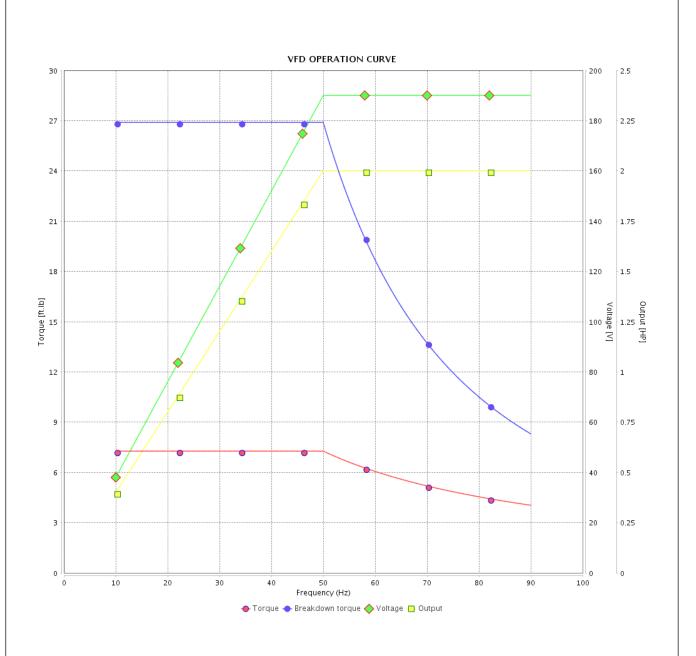
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Performance	: 190/380 V 50 Hz 4P				
Rated current	: 6.96/3.48 A	Moment of	Moment of inertia (J)		
LRC	: 7.9	Duty cycle Insulation class Service factor Temperature rise Design		: Cont.(S1)	
Rated torque	: 7.27 ft.lb			: F : 1.15 : 80 K	
Locked rotor torque	: 320 %				
Breakdown torque	: 370 %				
Rated speed	: 1445 rpm			: A	
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VFD OPERATION CURVE

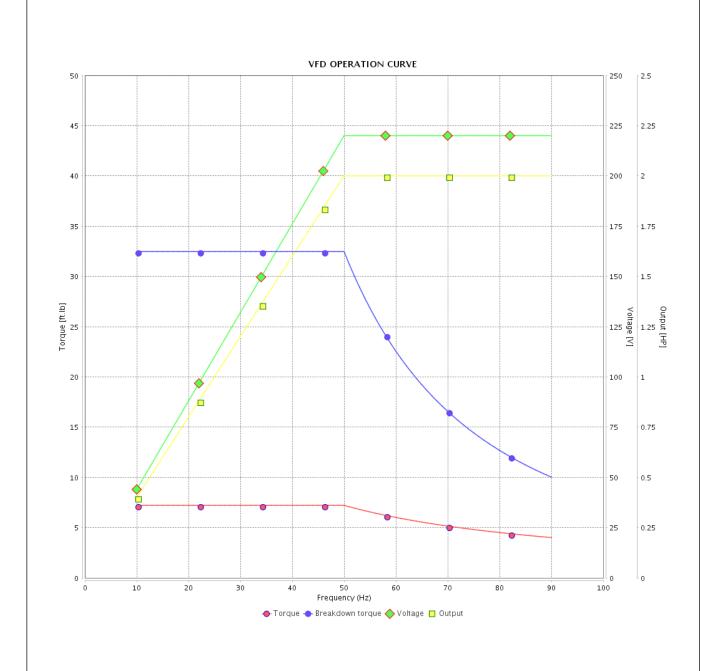
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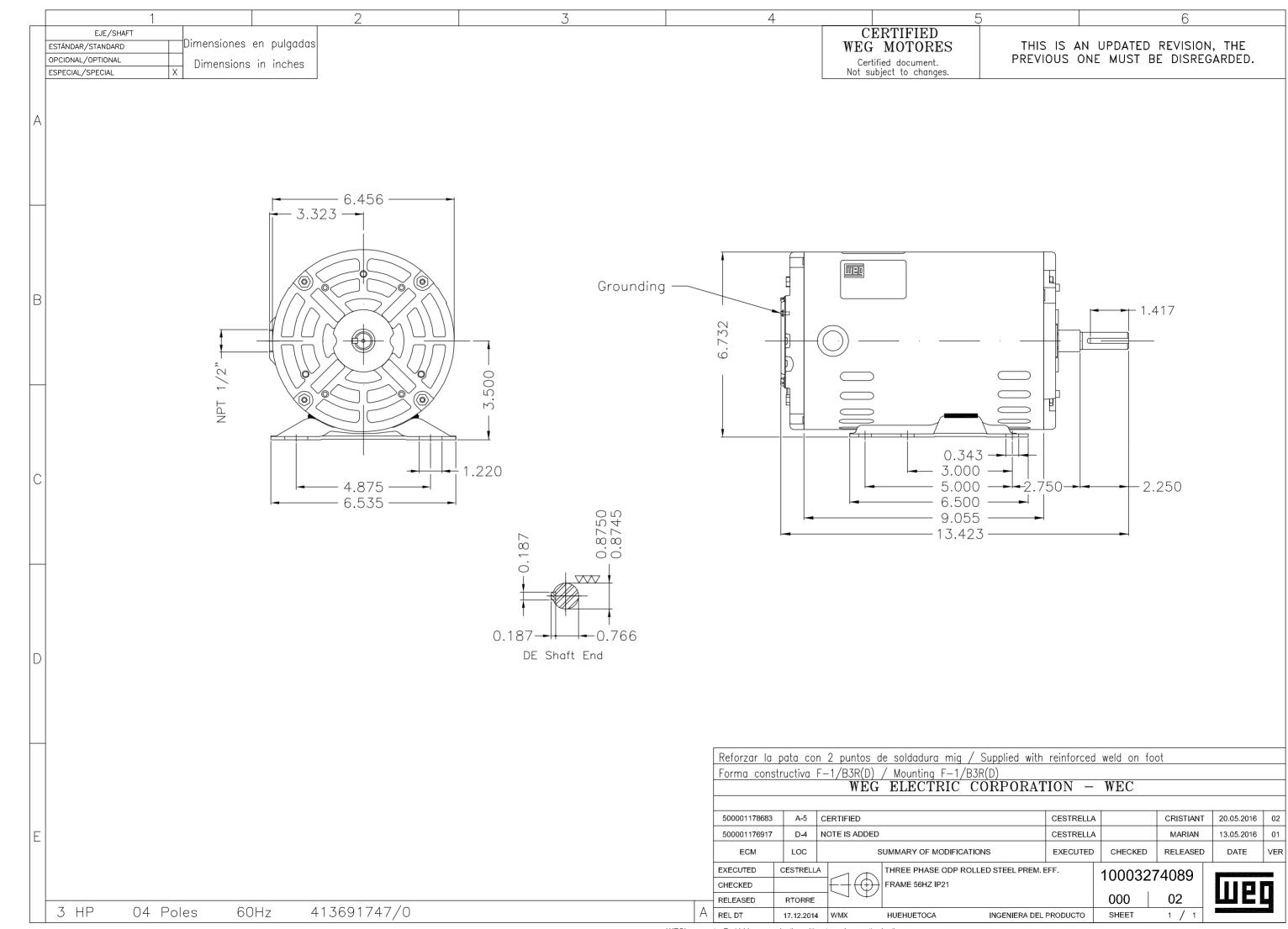


Performance	formance : 220/415 V 50 Hz 4P					
Rated current	: 6.75/3.58 A	Moment of inertia (J)				
LRC	: 8.6	Duty cycle Insulation class Service factor Temperature rise Design		: Cont.(S1)		
Rated torque	: 7.22 ft.lb			: F		
Locked rotor torque	: 400 %			: 1.15 : 80 K		
Breakdown torque	: 450 %					
Rated speed	: 1455 rpm			: A		
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3PT9

Energy Verifi

N01.TO0IC0X0X 13089807 MADE IN MÉXICO

MODEL 003180T3E56Z-S 8 B/N 4 8MAR2022 56HZ

CONT

1000 m.a.s.

7.94/3.97

230/460 15

F AT 80K

CODE DES SABLE @ 208V 8.79A

2°04 900

NSC

2.0HP 3.96-6.75/3.48-3.58A LTERNATE RATING:

SF1.00 INC. 문

86.9%

WG. F.L

H Md. 3FA 냃 监

1445RPM 50 Hz 8202-ZZ

IEC 60034

5:1 CT

SF1.15

190-220/380-415V

EFF 85.8%

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

5

9

2

ODE

8205-ZZ

T2-WHT

13-ORG 1-BLU F5-BLK

F6-GRY r4-YEL





nentation avant l'entretien de la machine

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

choc électrique grave. Déconnectez l'alli