DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : 00021 Premium Efficiency Three- Pr

Product code: 13230450

Phase

Catalog #: .5018OT3ERB56-S

Frame : 56 Cooling method : IC01 - ODP Insulation class : F Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line Altitude

tude : 1000 m.a.s.l. Approx. weight³ : 24.8 lb

Moment of inertia (J) : 0.0584 sq.ft.lb

			Moment of Inertia (J)	: 0.0584 Sq.it.ib
Output [HP]		0.5	0.5	0.5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		208-230/460	190/380	220/415
Rated current [A]		1.90-1.72/0.861	1.89/0.943	1.79/0.948
L. R. Amperes [A]		13.7-12.4/6.20	10.9/5.47	10.9/5.78
LRC [A]		7.2x(Code L)	5.8x(Code J)	6.1x(Code K)
No load current [A	.]	1.12-1.30/0.650	1.23/0.617	1.29/0.683
Rated speed [RPI	Л]	1765	1450	1455
Slip [%]		1.94	3.33	3.00
Rated torque [ft.lb]		1.49	1.81	1.80
Locked rotor torque [%]		240	180	200
Breakdown torque [%]		330	260	290
Service factor			1.25	1.25
Temperature rise		80 K	80 K	80 K
Locked rotor time		48s (cold) 27s (hot)	55s (cold) 31s (hot)	50s (cold) 28s (hot)
Noise level ²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	67.5	71.5	68.9
Efficiency (%)	50%	70.0	72.6	70.6
Efficiency (70)	75%	75.5	76.6	75.7
	100%	78.2	77.4	77.2
	25%	0.26	0.31	0.28
Power Factor	50%	0.47	0.55	0.51
FOWEI FACIOI	75%	0.60	0.68	0.64
	100%	0.69	0.77	0.73

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

Bearing type : 6203 ZZ 6202 ZZ Max. traction : 39 lb Sealing : Without Without Max. compression : 63 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.

(1) / 100 / 00 / 10	in load.				
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



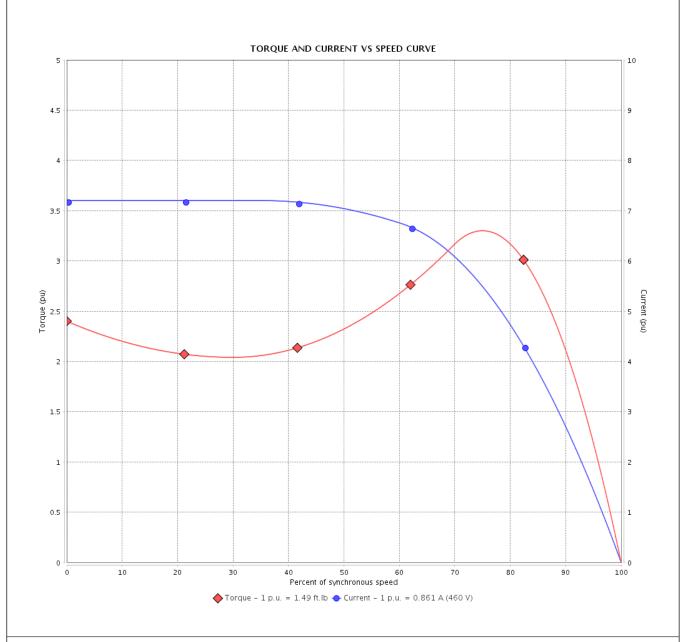
Customer :

Product line : 00021 Premium Efficiency Three-

Phase

Product code: 13230450

Catalog #: .5018OT3ERB56-S



Performance : 208-230/460 V 60 Hz 4P Rated current : 1.90-1.72/0.861 A Moment of inertia (J) : 0.0584 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 1.49 ft.lb Insulation class : F Rated torque : 240 % Service factor Locked rotor torque : 80 K Breakdown torque : 330 % Temperature rise

Locked rotor time : 48s (cold) 27s (hot)

: 1765 rpm

Rated speed

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

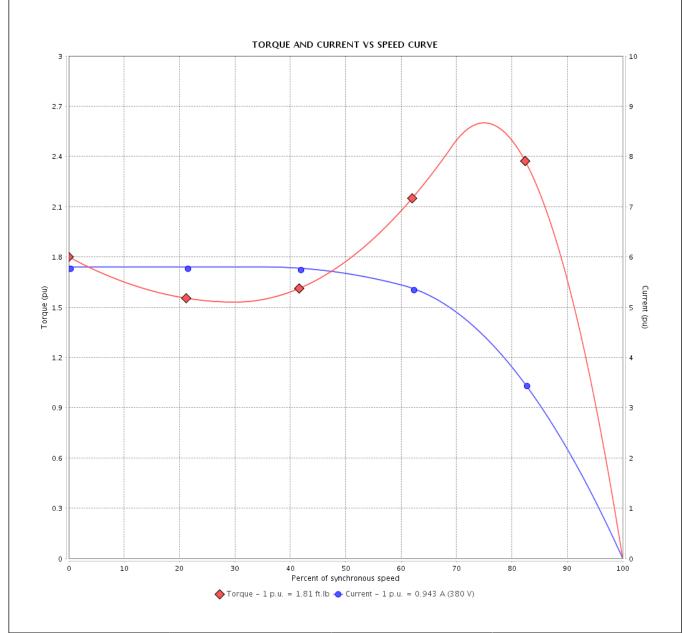


Customer :

Product line : 00021 Premium Efficiency Three- Product code : 13230450

Phase

Catalog #: .5018OT3ERB56-S



Performance : 190/380 V 50 Hz 4P Rated current : 1.89/0.943 A Moment of inertia (J) : 0.0584 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.81 ft.lb : F Locked rotor torque : 180 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1450 rpm

Locked rotor time : 55s (cold) 31s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



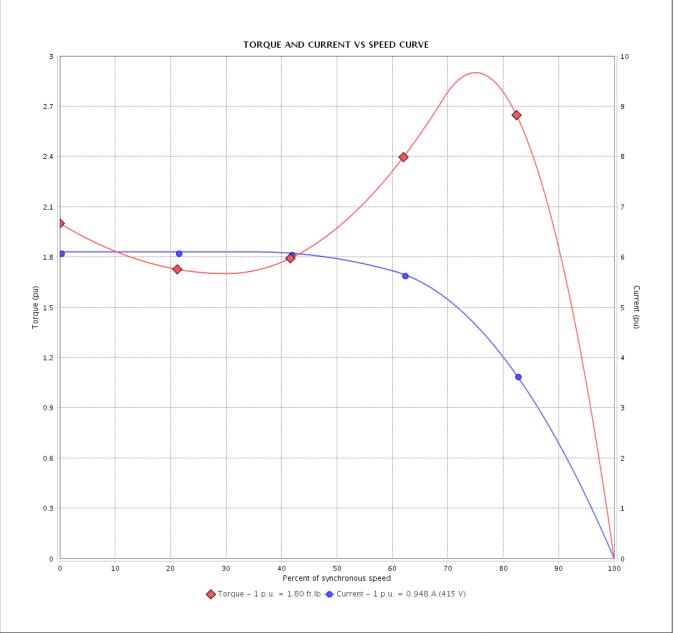
Customer :

Product line : 00021 Premium Efficiency Three-

Phase

Product code: 13230450

Catalog #: .5018OT3ERB56-S



Performance : 220/415 V 50 Hz 4P

Rated current : 1.79/0.948 A

LRC : 6.1 Rated torque : 1.80 ft.lb

Locked rotor torque : 200 %
Breakdown torque : 290 %
Rated speed : 1455 rpm

Locked rotor time : 50s (cold) 28s (hot)

Moment of inertia (J) : 0.0584 sq.ft.lb

Duty cycle : Cont.(S1)

Insulation class : F

Service factor : 1.25

Temperature rise : 80 K

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



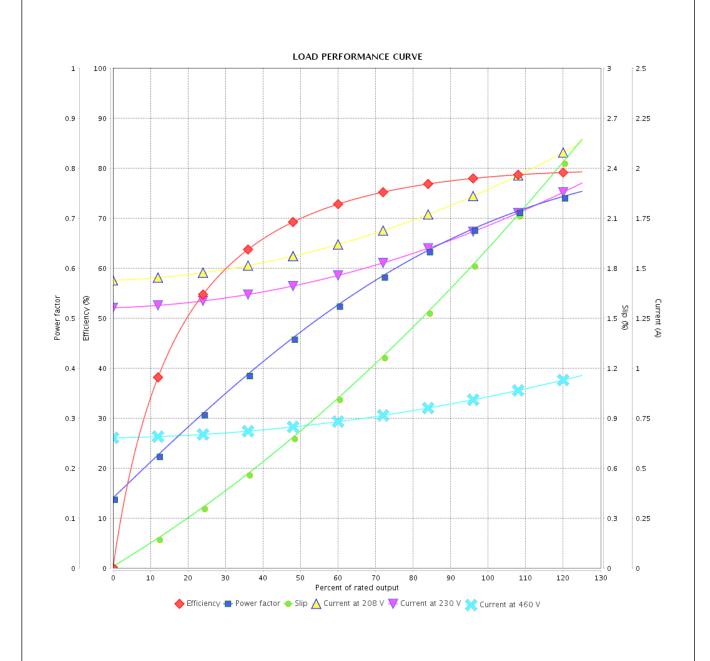
Customer

Product line : 00021 Premium Efficiency Three-

Phase

Product code: 13230450

Catalog #: .5018OT3ERB56-S



Performance	mance : 208-230/460 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 7. : 1. ue : 2 ² e : 33	90-1.72/0.861 A 2 49 ft.lb 40 % 80 % 765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0584 sq.ft : Cont.(S1) : F : : 80 K	lb
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LOAD PERFORMANCE CURVE

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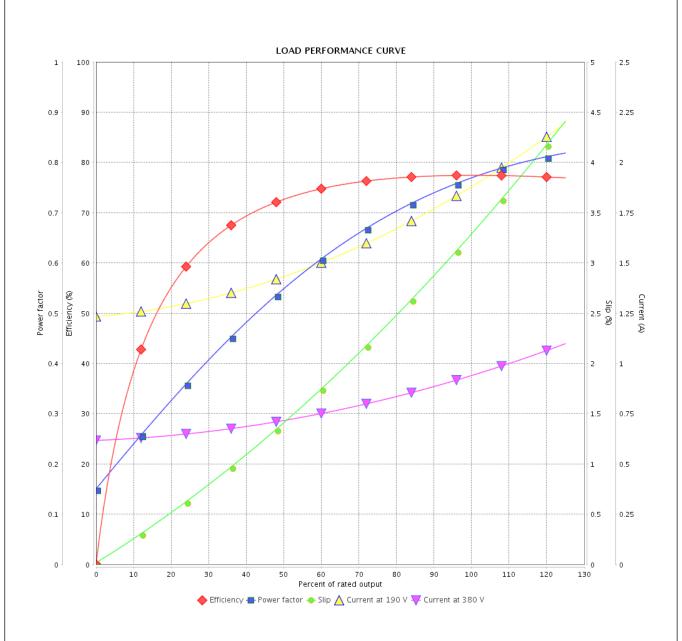
Customer :

Product line : 00021 Premium Efficiency Three-

Phase

Product code: 13230450

Catalog #: .5018OT3ERB56-S



Performance : 190/380 V 50 Hz 4P : 1.89/0.943 A Rated current Moment of inertia (J) : 0.0584 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) : 1.81 ft.lb Insulation class Rated torque : F : 180 % Locked rotor torque Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1450 rpm

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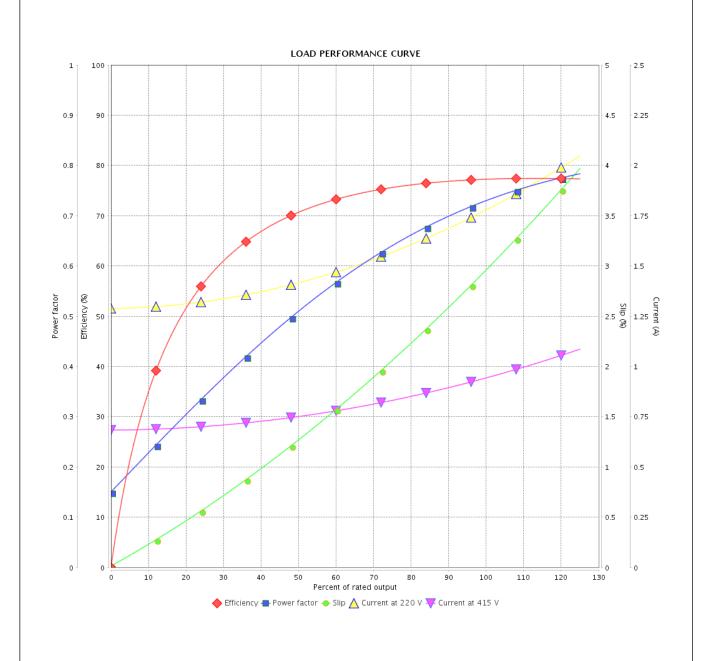
Customer

Product line : 00021 Premium Efficiency Three-

Phase

Product code: 13230450

Catalog #: .5018OT3ERB56-S



Performance	: 220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.79/0.948 A : 6.1 : 1.80 ft.lb : 200 % : 290 % : 1455 rpm	Moment of Duty cycle Insulation Service fa	class ector	: 0.0584 sq.ft. : Cont.(S1) : F : 1.25 : 80 K	lb
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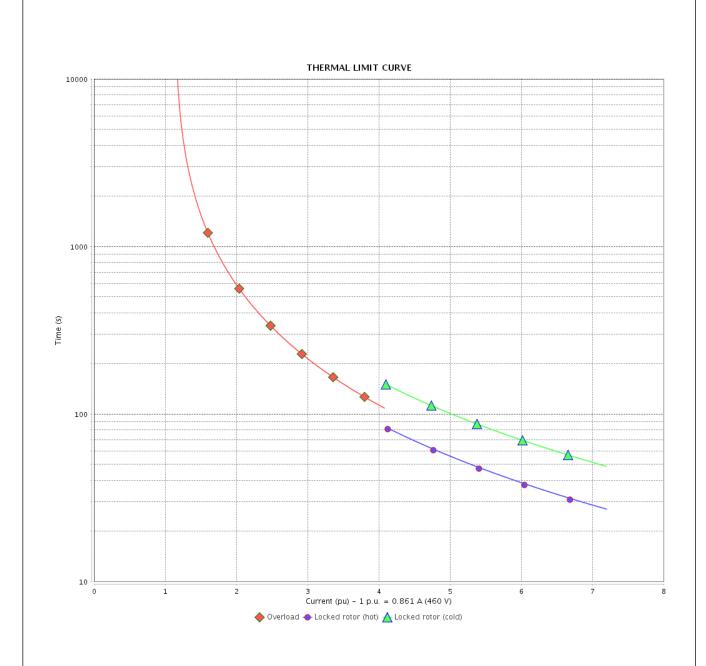


Customer	:				
Product line	: 00021 Premium Efficiency Phase		Product code : Catalog # :	13230450 .5018OT3ER	B56-S
Performance	: 208-230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque	: 1.90-1.72/0.861 A : 7.2 : 1.49 ft.lb : 240 %	Moment o Duty cycle Insulation Service fa	class	: 0.0584 sq.ft.l : Cont.(S1) : F	b
Breakdown torque Rated speed	: 330 % : 1765 rpm	Temperatu		: 80 K	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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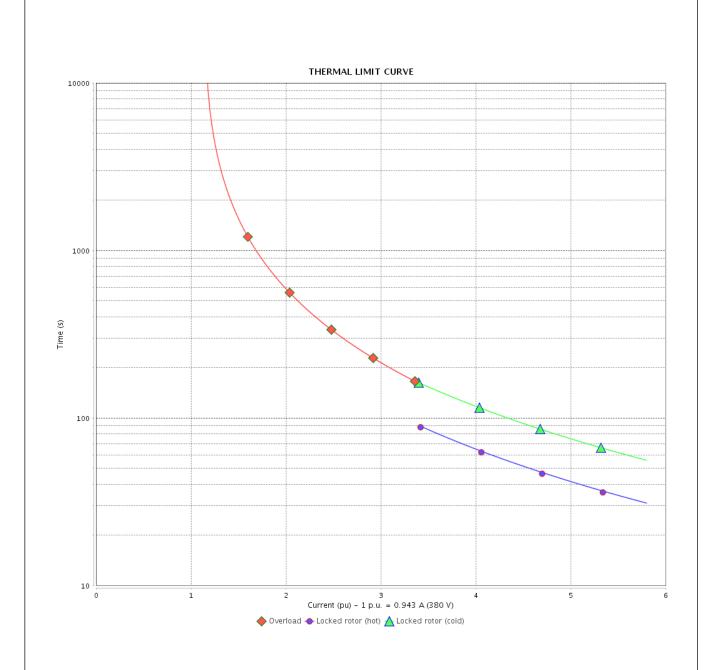


Customer	:			
Product line	: 00021 Premium Efficiency Phase	Three- Product code : Catalog #:	13230450 .5018OT3ERB	56-S
Performance	: 190/380 V 50 Hz 4P			
Rated current LRC	: 1.89/0.943 A : 5.8	Moment of inertia (J) Duty cycle	: 0.0584 sq.ft.lb : Cont.(S1)	
Rated torque	: 1.81 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 180 % : 260 %	Service factor Temperature rise	: 1.25 : 80 K	
Rated speed	: 1450 rpm	Tomporature 1136	. 50 K	
Heating constant				
Cooling constant				
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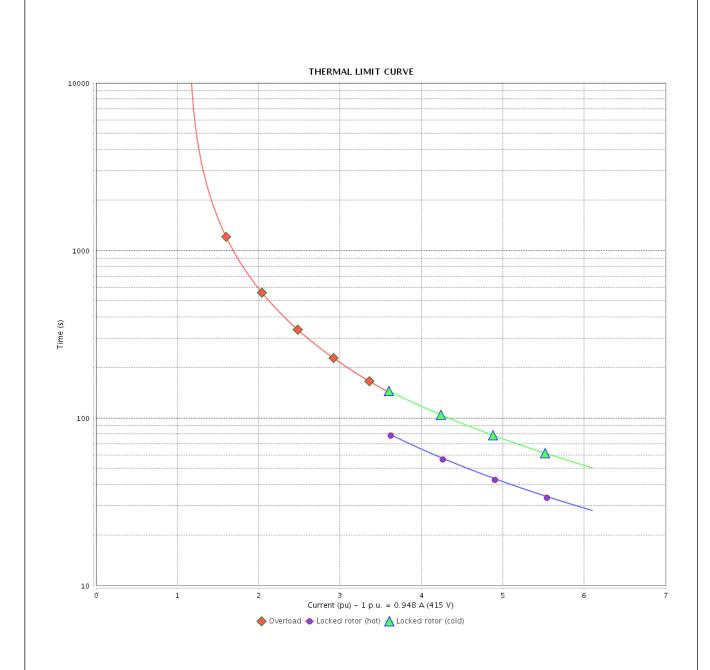


Customer	:					
Product line		00021 Premium Efficiency ∃ Phase		Product code :	13230450	
				Catalog # :	.5018OT3ER	B56-S
D		000/445 \ / 50 LI= 4D				
Performance Rated current		220/415 V 50 Hz 4P .79/0.948 A	Momento	f inertia (J)	: 0.0584 sq.ft.ll	<u> </u>
LRC	: 6	5.1	Duty cycle	;	: Cont.(S1)	5
Rated torque		.80 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		200 % 290 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		455 rpm	remperati	are rise	. 00 K	
Heating constan	 t					
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



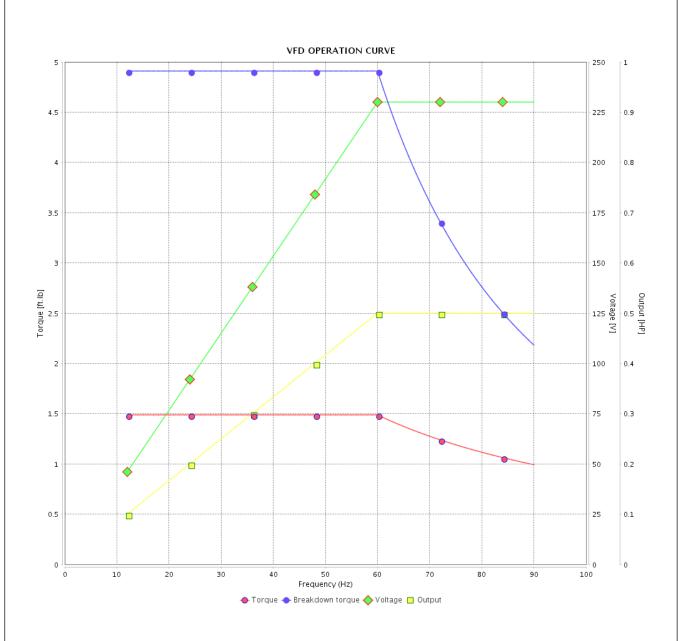
Customer :

Product line : 00021 Premium Efficiency Three-

Phase

Product code: 13230450

Catalog #: .5018OT3ERB56-S



 Performance
 : 208-230/460 V 60 Hz 4P

 Rated current
 : 1.90-1.72/0.861 A
 Moment of inertia (J)

Locked rotor torque : 240 % Service factor : Breakdown torque : 330 % Temperature rise : 80 K

Rated speed : 1765 rpm

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

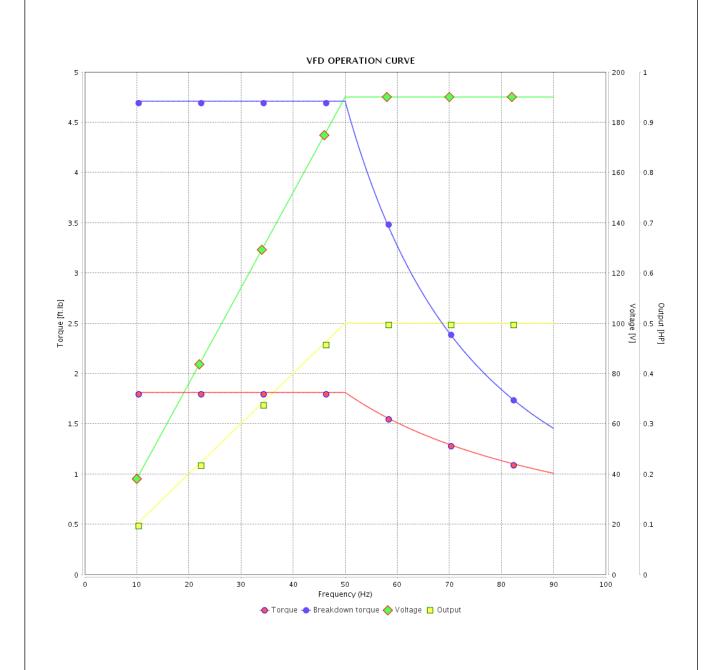


Customer

Product line : 00021 Premium Efficiency Three-

Product code: 13230450

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Performance : 190/380 V 50 Hz 4P : 1.89/0.943 A Rated current Moment of inertia (J) : 0.0584 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1)

: 1.81 ft.lb : F Rated torque Insulation class Locked rotor torque : 180 % Service factor : 1.25

Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1450 rpm

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



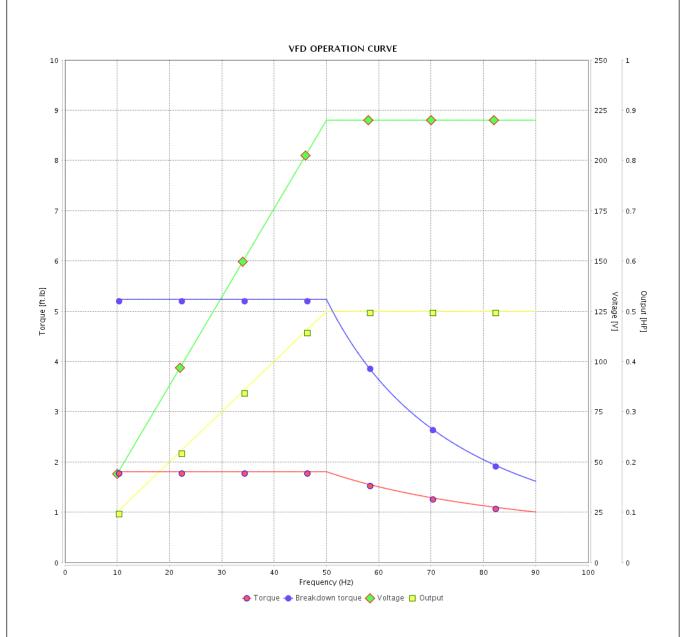
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Product line : 00021 Premium Efficiency Three-

Phase

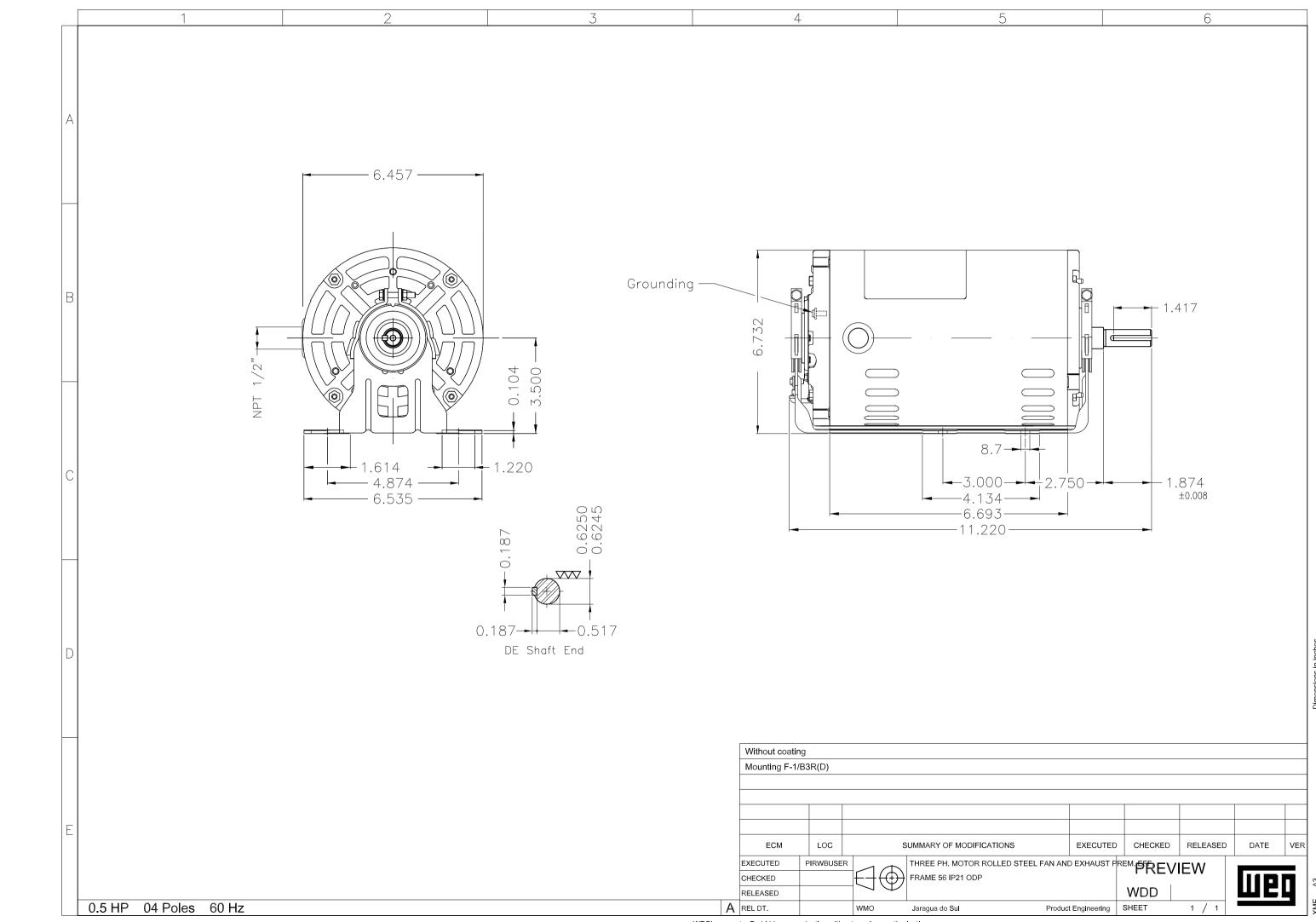
Product code: 13230450

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Performance : 220/415 V 50 Hz 4P : 1.79/0.948 A Rated current Moment of inertia (J) : 0.0584 sq.ft.lb **LRC** : Cont.(S1) : 6.1 Duty cycle : 1.80 ft.lb Rated torque Insulation class : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1455 rpm

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N01.TO0IC0X0X 13230450 MADE IN MÉXICO



9 8 B 2 4MAR2022 CONT 26

1.72/0.85 2.15/1.08

1000 m.a.s.l

NSC

1.25

230/460 0.37

> CODE DES SABLE @ 208V 1.90A F AT 80K 2°04 900

0.50HP .89-1,81/0.943-0.959A LTERNATE RATING:

SF1.00 NCL 2

IEC 60034

5:1 CT

SF1.25

190-220/380-415V

50 Hz

78.2%

WG. F.L 1450RPM H ZPM 3FA 냃 쌆

EFF 78.7%

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 8202-ZZ ODE 2

8203-ZZ

牌

9

MOBIL POLYREX EM 5

T2-WHT

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

T6-GRY

T8-RED T4-YEL

> 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

AVERTISSEMENT: Le moteur doit être mis à la terre

Energy Verifi

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(**UL)**US LISTED

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