### **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code: 12809014

Catalog #: .3336OT3E56CFL-S

: 56C Cooling method Frame : IC01 - ODP Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

: 1000 m.a.s.l. Altitude Approx. weight3 : 16.8 lb

Ailitude		. 1000 111.0.3.1.	Approx. weight	. 10.0 10
			Moment of inertia (J)	: 0.0389 sq.ft.lb
Output [HP]		0.33	0.33	0.33
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		208-230/460	190/380	220/415
Rated current [A]		1.35-1.22/0.610	1.32/0.660	1.27/0.674
L. R. Amperes [A]		9.05-8.17/4.09	7.13/3.56	7.12/3.77
LRC [A]		6.7x(Code L)	5.4x(Code J)	5.6x(Code J)
No load current [A	]	0.776-0.900/0.450	0.866/0.433	0.934/0.495
Rated speed [RPN	<b>/</b> 1]	3520	2890	2905
Slip [%]		2.22	3.67	3.17
Rated torque [ft.lb]		0.492	0.600	0.597
Locked rotor torque [%]		250	180	200
Breakdown torque [%]		320	250	280
Service factor			1.35	1.35
Temperature rise		80 K	80 K	80 K
Locked rotor time		68s (cold) 38s (hot)	82s (cold) 46s (hot)	75s (cold) 42s (hot)
Noise level <sup>2</sup>		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)
	25%	54.7	59.8	57.0
Efficiency (%)	50%	57.5	61.9	59.5
Lincicity (70)	75%	66.0	68.0	66.6
100%		69.5	70.2	69.5
	25%	0.30	0.35	0.31
Power Factor	50%	0.54	0.61	0.56
1 OWCI I doloi	75%	0.65	0.74	0.69
	100%	0.74	0.82	0.77

Non drive end Drive end Foundation loads

Bearing type 6203 ZZ 6202 ZZ Max. traction : 8 lb Sealing Without Without Max. compression : 24 lb

Bearing Seal Bearing Seal Lubrication interval Lubricant amount

Mobil Polyrex EM Lubricant type

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

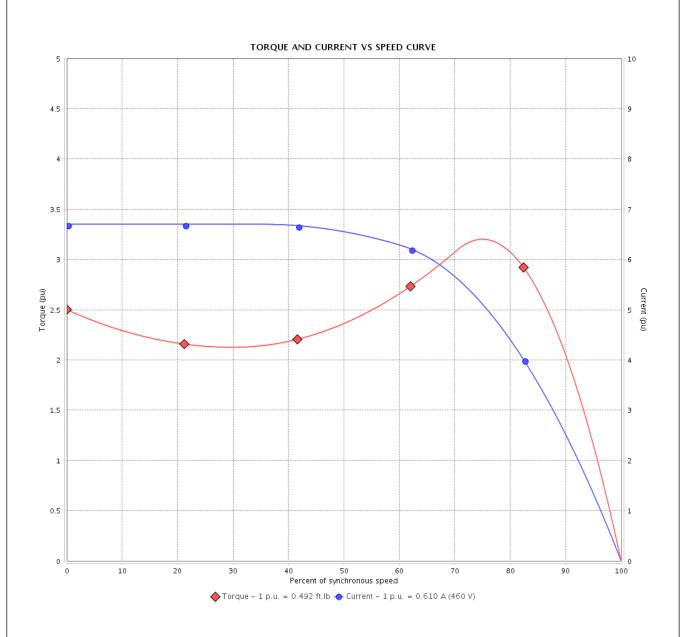
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809014

Catalog #: .3336OT3E56CFL-S



 Performance
 : 208-230/460 V 60 Hz 2P

 Rated current
 : 1.35-1.22/0.610 A
 Moment of inertia (J)
 : 0.0389 sq.ft.lb

 LRC
 : 6.7
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 0.492 ft.lb
 Insulation class
 : F

Locked rotor torque : 250 % Service factor : Breakdown torque : 320 % Temperature rise : 80 K

Locked rotor time : 68s (cold) 38s (hot)

: 3520 rpm

Rated speed

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### TORQUE AND CURRENT VS SPEED CURVE

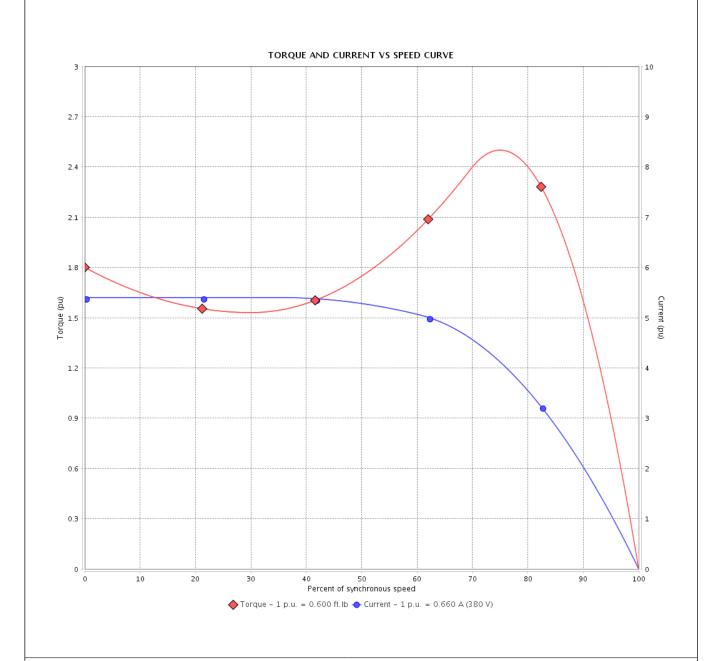
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809014

Catalog #: .3336OT3E56CFL-S



 Performance
 : 190/380 V 50 Hz 2P

 Rated current
 : 1.32/0.660 A
 Moment of inertia (J)
 : 0.0389 sq.ft.lb

 LRC
 : 5.4
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 0.600 ft.lb
 Insulation class
 : F

Locked rotrorque : 0.600 ft.lb | Insulation class : F |
Locked rotor torque : 180 % | Service factor : 1.35 |
Breakdown torque : 250 % | Temperature rise : 80 K |
Rated speed : 2890 rpm

Locked rotor time : 82s (cold) 46s (hot)

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### TORQUE AND CURRENT VS SPEED CURVE

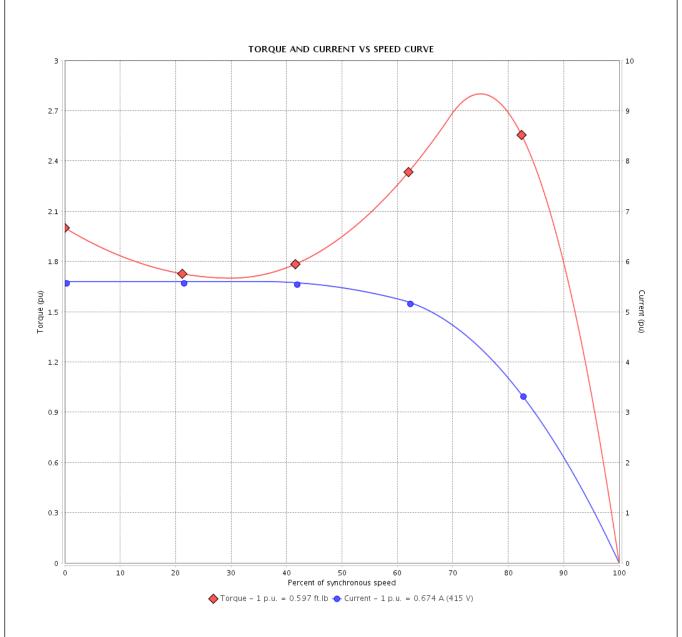
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809014

Catalog #: .3336OT3E56CFL-S



 Performance
 : 220/415 V 50 Hz 2P

 Rated current
 : 1.27/0.674 A
 Moment of inertia (J)
 : 0.0389 sq.ft.lb

 LRC
 : 5.6
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 0.597 ft.lb
 Insulation class
 : F

Locked rotor torque : 200 % Service factor : 1.35
Breakdown torque : 280 % Temperature rise : 80 K
Rated speed : 2905 rpm

Locked rotor time : 75s (cold) 42s (hot)

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# LOAD PERFORMANCE CURVE

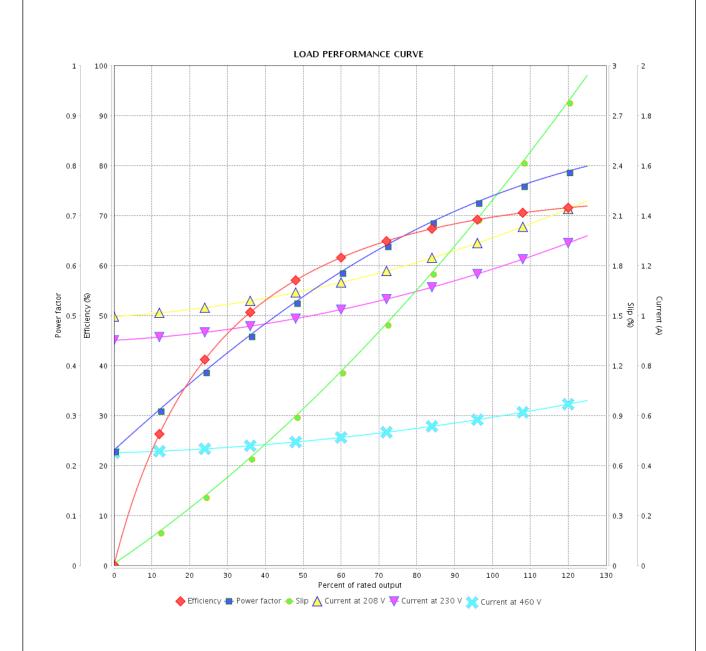
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809014

Catalog #: .3336OT3E56CFL-S



Performance : 208-230/460 V 60 Hz 2P Rated current : 1.35-1.22/0.610 A Moment of inertia (J) : 0.0389 sq.ft.lb **LRC** : 6.7 : Cont.(S1) Duty cycle : 0.492 ft.lb Rated torque Insulation class : F Locked rotor torque : 250 % Service factor Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 3520 rpm

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# LOAD PERFORMANCE CURVE

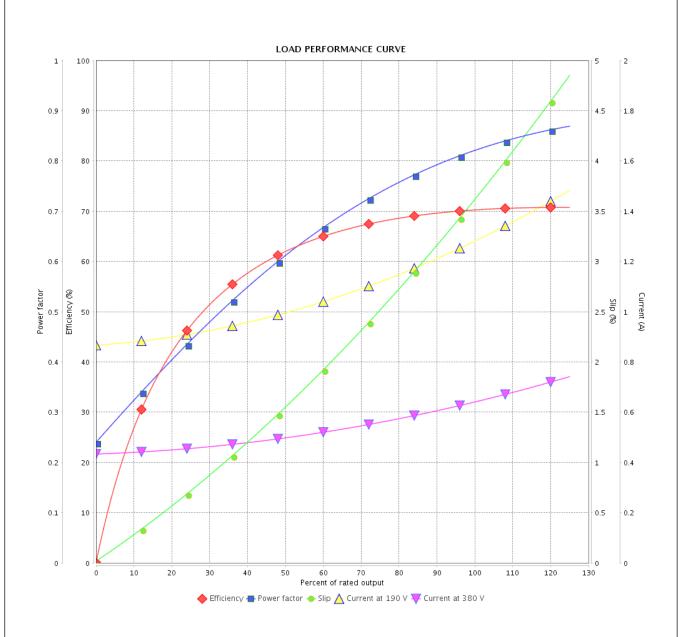
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Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809014

Catalog #: .3336OT3E56CFL-S



 Performance
 : 190/380 V 50 Hz 2P

 Rated current
 : 1.32/0.660 A
 Moment of inertia (J)
 : 0.0389 sq.ft.lb

 LRC
 : 5.4
 Duty cycle
 : Cont.(S1)

 Rated torque
 : 0.600 ft.lb
 Insulation class
 : F

Rated torque: 0.600 π.ibInsulation class: FLocked rotor torque: 180 %Service factor: 1.35Breakdown torque: 250 %Temperature rise: 80 K

Rated speed : 2890 rpm

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# LOAD PERFORMANCE CURVE

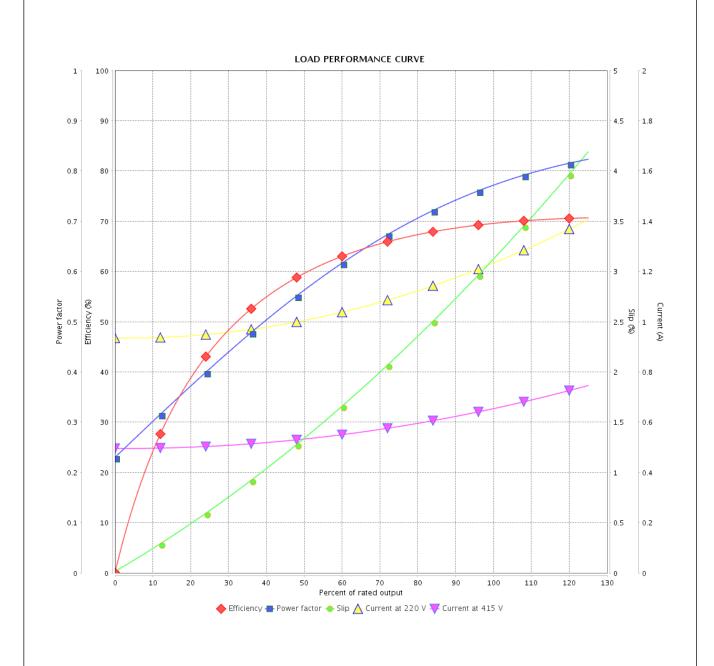
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809014

Catalog #: .3336OT3E56CFL-S



Performance : 220/415 V 50 Hz 2P : 1.27/0.674 A Rated current Moment of inertia (J) : 0.0389 sq.ft.lb **LRC** Duty cycle : 5.6 : Cont.(S1) : 0.597 ft.lb : F Rated torque Insulation class Locked rotor torque : 200 % Service factor : 1.35 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2905 rpm

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# THERMAL LIMIT CURVE

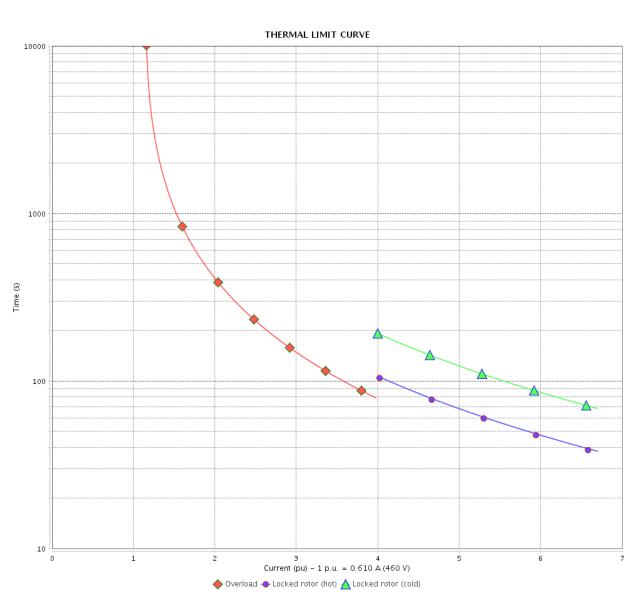
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Catalog #: .3336OT3E56CFL-S



Performance : 208-230/460 V 60 Hz 2P : 1.35-1.22/0.610 A Moment of inertia (J) : 0.0389 sq.ft.lb Rated current **LRC** Duty cycle : Cont.(S1) : 6.7 : 0.492 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 320 % : 80 K Breakdown torque Temperature rise Rated speed : 3520 rpm Heating constant Cooling constant

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# THERMAL LIMIT CURVE

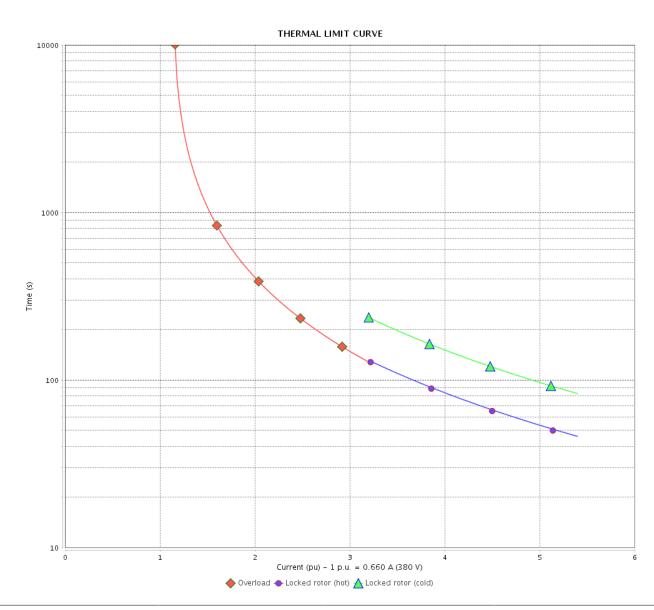
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Product line : Premium Efficiency Three-Phase Product code : 12809014

Catalog #: .3336OT3E56CFL-S



Performance : 190/380 V 50 Hz 2P : 1.32/0.660 A Moment of inertia (J) : 0.0389 sq.ft.lb Rated current **LRC** : 5.4 Duty cycle : Cont.(S1) : 0.600 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.35 : 250 % Breakdown torque Temperature rise : 80 K Rated speed : 2890 rpm Heating constant

Cooling constant

Cooling constan	L					
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# THERMAL LIMIT CURVE

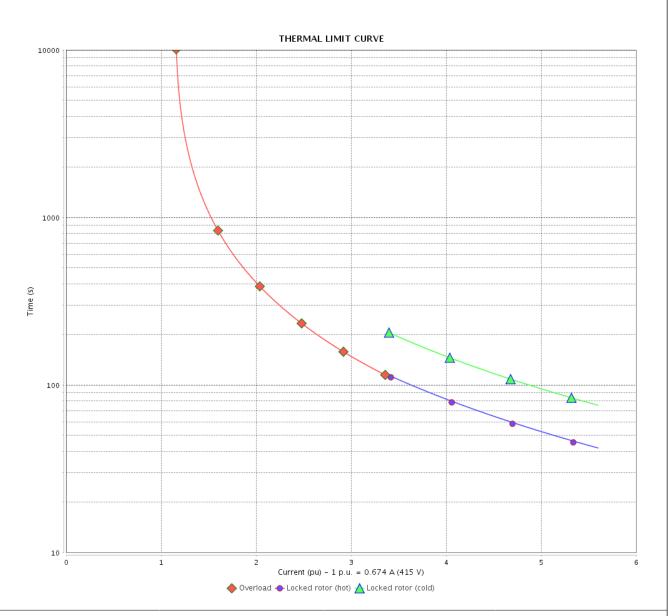
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Customer		
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 Performance
 : 220/415 V 50 Hz 2P

 Rated current
 : 1.27/0.674 A
 Moment of inertia (J)
 : 0.0389 sq.ft.lb

 LRC
 : 5.6
 Duty cycle
 : Cont.(S1)

Rated torque : 0.597 ft.lb Insulation class : F
Locked rotor torque : 200 % Service factor : 1.35
Breakdown torque : 280 % Temperature rise : 80 K

Rated speed : 2905 rpm

Heating constant

Cooling constant	t					
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# VFD OPERATION CURVE

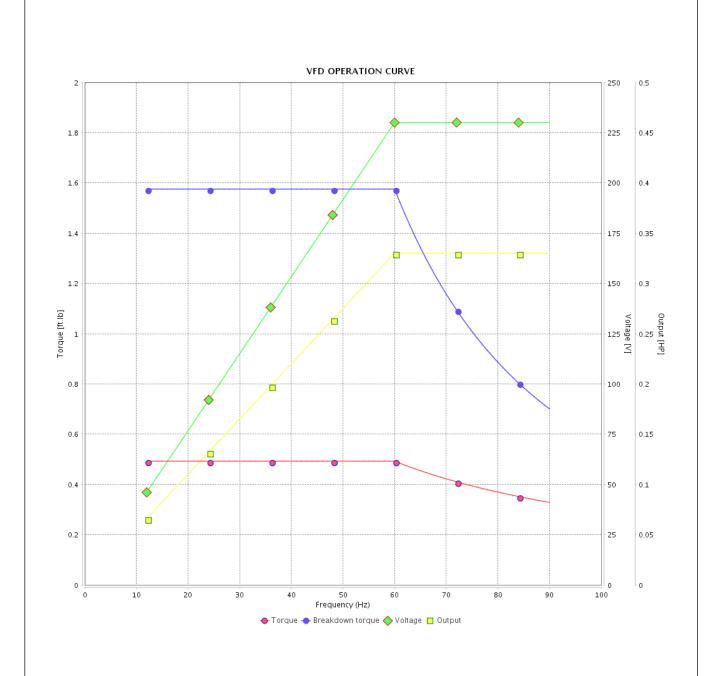
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Performance : 208-230/460 V 60 Hz 2P : 1.35-1.22/0.610 A Rated current Moment of inertia (J) : 0.0389 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 0.492 ft.lb Insulation class : F Rated torque Locked rotor torque : 250 % Service factor Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 3520 rpm

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# VFD OPERATION CURVE

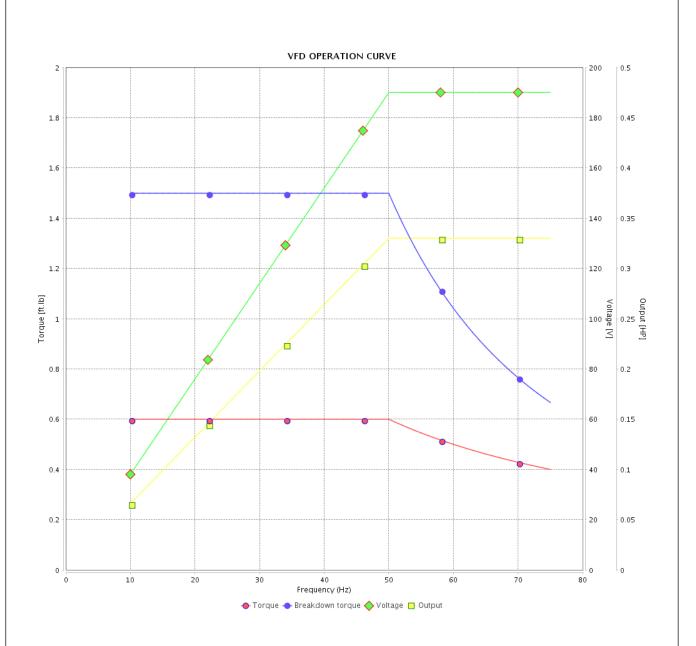
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809014

Catalog #: .3336OT3E56CFL-S



Performance : 190/380 V 50 Hz 2P

Rated current : 1.32/0.660 A Moment of inertia (J) : 0.0389 sq.ft.lb LRC : 5.4 Duty cycle : Cont.(S1)

Rated torque : 0.600 ft.lb Insulation class : F
Locked rotor torque : 180 % Service factor : 1.35
Breakdown torque : 250 % Temperature rise : 80 K

Rated speed : 2890 rpm

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# VFD OPERATION CURVE

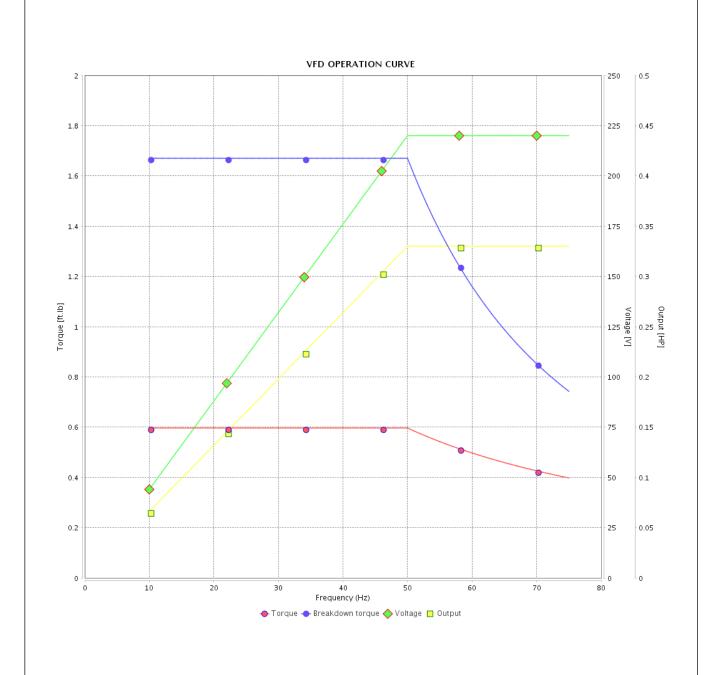
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Catalog #: .3336OT3E56CFL-S



 Performance
 : 220/415 V 50 Hz 2P

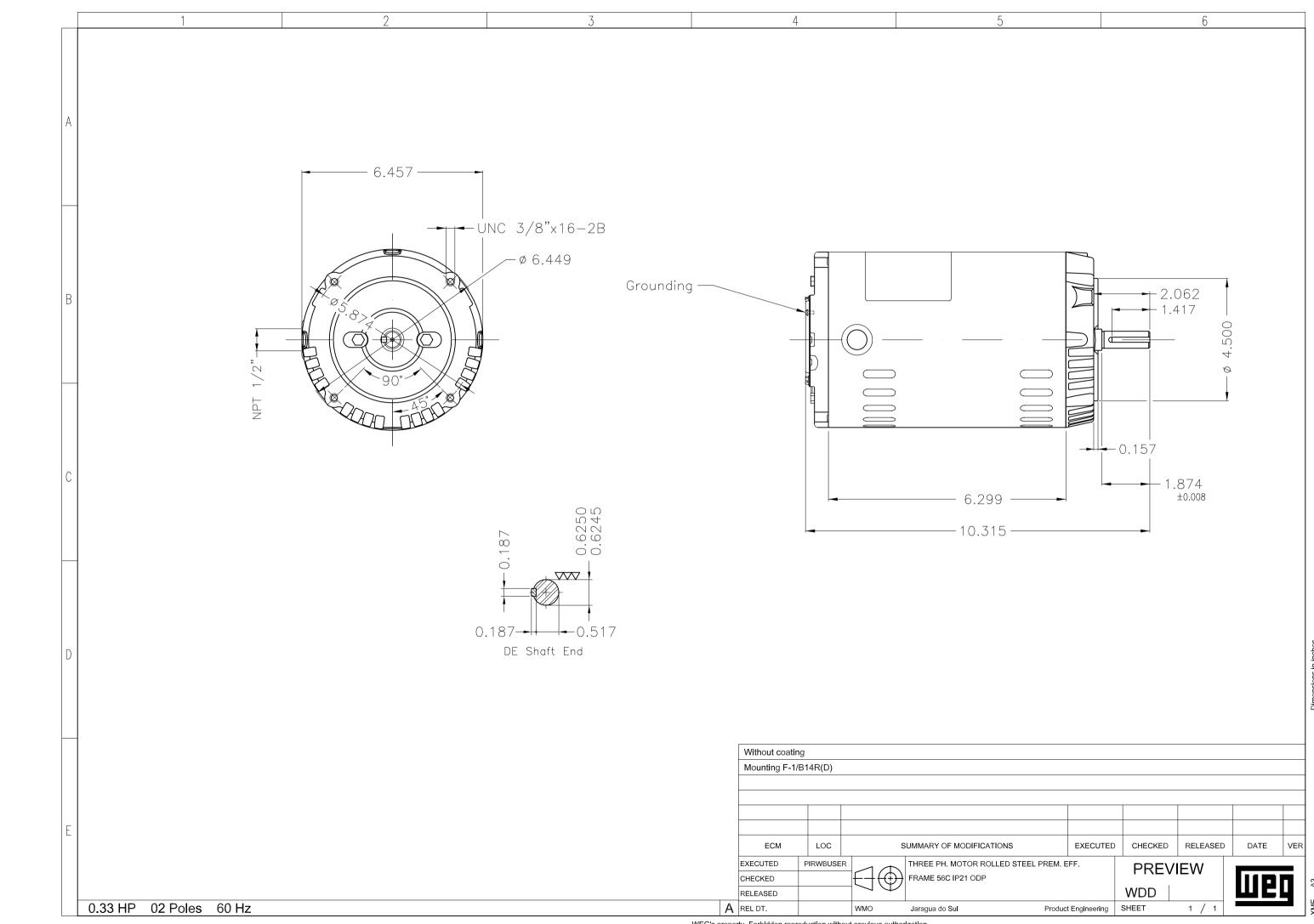
 Rated current
 : 1.27/0.674 A
 Moment of inertia (J)
 : 0.0389 sq.ft.lb

 LRC
 : 5.6
 Duty cycle
 : Cont.(S1)

Rated torque : 0.597 ft.lb Insulation class : F
Locked rotor torque : 200 % Service factor : 1.35
Breakdown torque : 280 % Temperature rise : 80 K

Rated speed : 2905 rpm

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3PT9

(**UL)**US LISTED



MODEL .33360T3E56CFL-S

N01.TO0IC0X0X

12809014

MADE IN MÉXICO

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B/N

2MAR2022

1.22/0.610 1.65/0.824

1000 m.a.s.l

CONT

56C

F AT 80K

NSC

2°04 900

1.35

230/460

Energy Verifi

T8-RED F6-GRY T4-YEL T9-BRK RED

I7-PNK F5-BLK

T2-WHT

13-ORG 1-BLU

IEC 60034

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

MOBIL POLYREX EM

8202-ZZ

ODE

8203-ZZ

牌

9

2

SF1.35

190-220/380-415V

50 Hz

0.33HP

32-1,29/0,660-0,684A

LTERNATE RATING:

69.5%

WG. F.L ZSOORPIM H 2PM 3FA 냃 쌆

SABLE @ 208V 1.35A

SF1.00 NCL

CODE DES

**EFF 68.7%** 

shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre 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

choc électrique grave. Déconnectez l'alli

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local