DATA SHEET

Three Phase Induction Motor - Squirrel Cage



30s (cold) 17s (hot)

49.0 dB(A)

77.3

77.8

80.7

80.8 0.29

0.53

0.67

0.76

Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809660

Catalog #: 00118OT3E56-S : 56 Cooling method : IC01 - ODP Frame 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 : 1000 m.a.s.l. Approx. weight³ Altitude : 26.9 lb Design Moment of inertia (J) : 0.0842 sq.ft.lb : A Output [HP] Poles 4 4 4 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 190/380 220/415 Rated current [A] 3.14/1.57 3.54/1.77 3.32/1.76 L. R. Amperes [A] 23.9/11.9 20.9/10.4 20.9/11.1 LRC [A] 6.3x(Code J) 7.6x(Code L) 5.9x(Code H) No load current [A] 2.20/1.10 2.09/1.05 2.19/1.16 Rated speed [RPM] 1440 1445 1760 Slip [%] 2.22 4.00 3.67 Rated torque [ft.lb] 2.98 3.65 3.63 Locked rotor torque [%] 280 180 210 Breakdown torque [%] 320 250 280 Service factor 1.15 1.15 Temperature rise 80 K 80 K 80 K

32s (cold) 18s (hot)

49.0 dB(A)

79.9

79.6

81.4

80.6

0.33

0.58

0.72

0.80

Drive end Non drive end Foundation loads

Bearing type : 6204 ZZ 6202 ZZ Max. traction : 86 lb Sealing : Without Without Max. compression : 113 lb

30s (cold) 17s (hot)

52.0 dB(A)

77.3

78.5

82.5

83.5

0.27

0.49

0.63

0.72

Bearing Seal Bearing Seal

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

Notes

Locked rotor time

Efficiency (%)

Power Factor

Noise level²

USABLE @208V 3.47A SF 1.00 SFA 3.47A

25%

50%

75%

100%

25%

50%

75%

100%

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

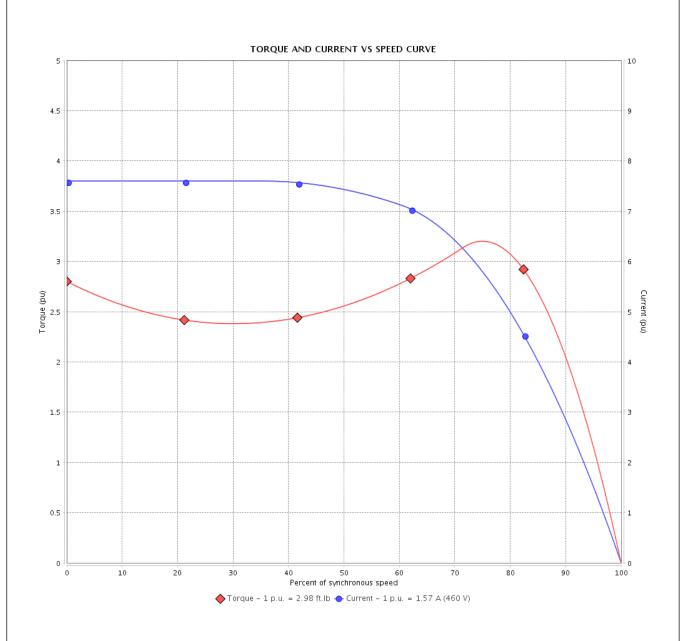
Three Phase Induction Motor - Squirrel Cage



Customer	:	

Product line : Premium Efficiency Three-Phase Product code : 12809660

Catalog #: 00118OT3E56-S



Performance	: 230/460 V 60 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.14/1.57 A : 7.6 : 2.98 ft.lb : 280 % : 320 % : 1760 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0842 sq.ft.lb : Cont.(S1) : F : : 80 K : A

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

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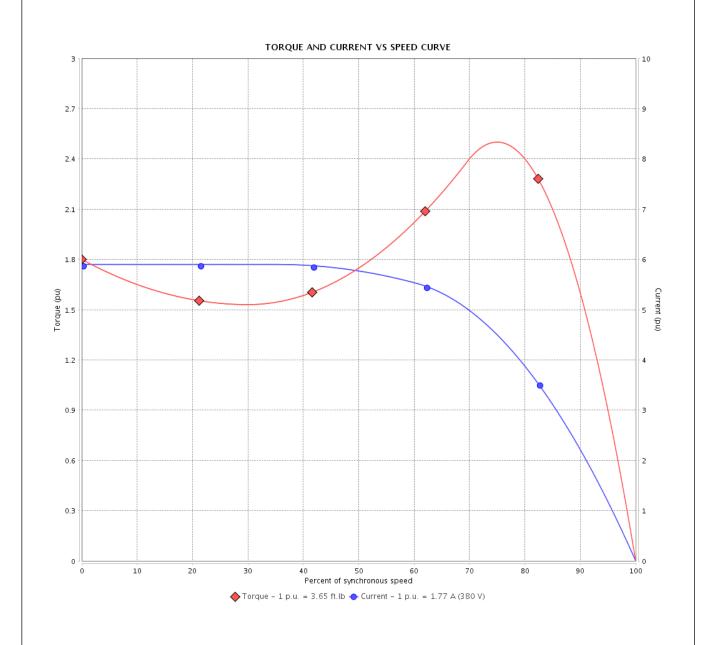
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809660 Catalog # : 00118OT3E56-S



Performance : 190/380 V 50 Hz 4P Rated current : 3.54/1.77 A Moment of inertia (J) : 0.0842 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) : 3.65 ft.lb Insulation class : F Rated torque Locked rotor torque : 180 % Service factor : 1.15 : 80 K Breakdown torque : 250 % Temperature rise Rated speed : 1440 rpm Design : A Locked rotor time : 32s (cold) 18s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

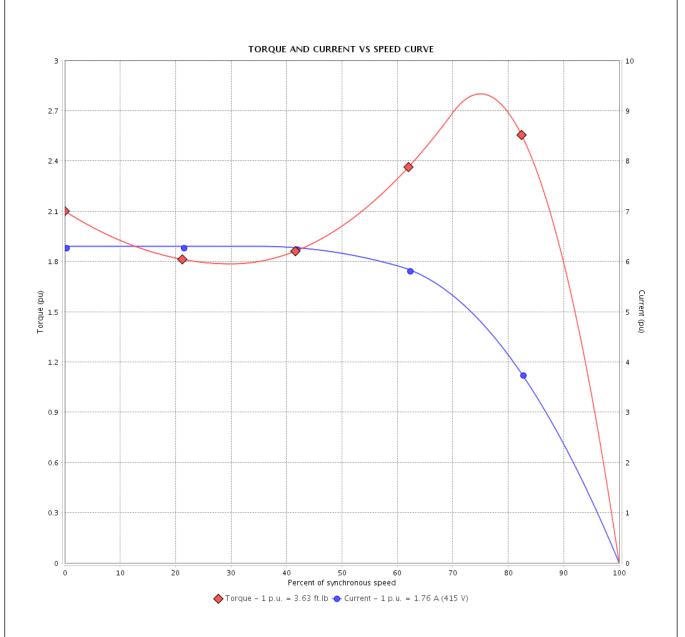
Three Phase Induction Motor - Squirrel Cage



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Customer		

Product line : Premium Efficiency Three-Phase Product code : 12809660

Catalog #: 00118OT3E56-S



Performance	: 220/415 V 50 Hz 4P		
Rated current	: 3.32/1.76 A	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0842 sq.ft.lb
LRC	: 6.3		: Cont.(S1)
Rated torque	: 3.63 ft.lb		: F
Locked rotor torque	: 210 %		: 1.15
Breakdown torque	: 280 %		: 80 K
Rated speed	: 1445 rpm		: A
Rated torque	: 3.63 ft.lb	Insulation class Service factor Temperature rise	: F
Locked rotor torque	: 210 %		: 1.15
Breakdown torque	: 280 %		: 80 K

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

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LOAD PERFORMANCE CURVE

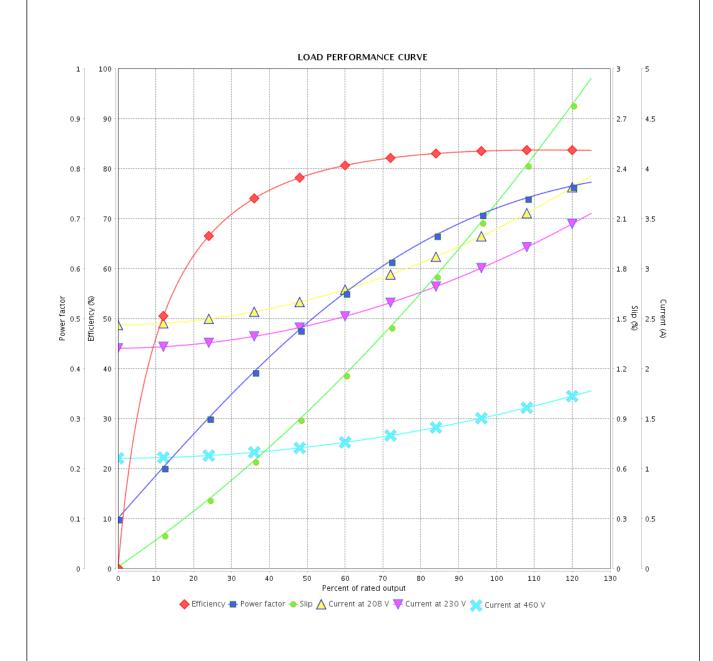
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code : 12809660

Catalog # : 00118OT3E56-S



Performance : 230/46		30/460 V 60 Hz 4P				
Rated current		.14/1.57 A	Moment o	f inertia (J)	: 0.0842 sq.ft.lb	
_RC	: 7	.6	Duty cycle	}	: Cont.(S1)	
Rated torque	: 2	.98 ft.lb	Insulation	Insulation class		
Locked rotor torque : 280 %		80 %	Service factor :			
Breakdown torque	: : 3	20 %	Temperatu	Temperature rise		
Rated speed	: 1	1760 rpm Design		: A		
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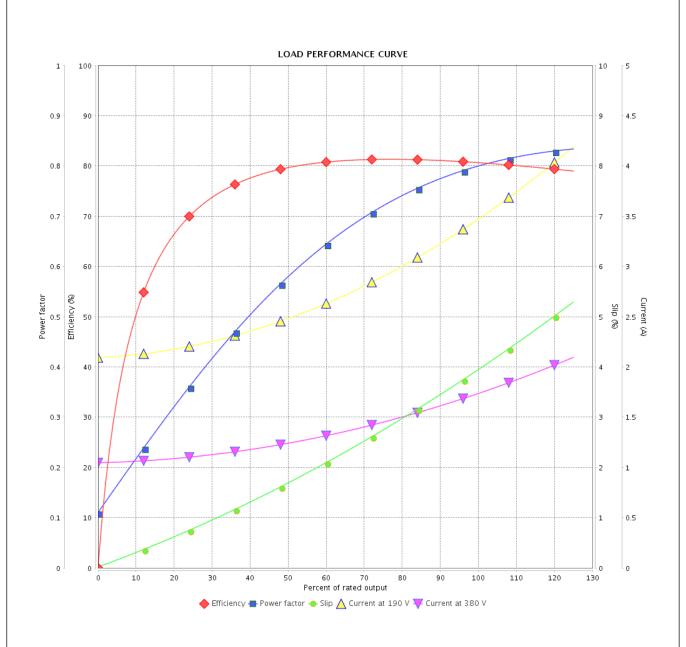
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809660

Catalog #: 00118OT3E56-S



Performance : 190/380 V 50 Hz 4P : 3.54/1.77 A Rated current Moment of inertia (J) : 0.0842 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.9 Insulation class Rated torque : 3.65 ft.lb : F Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1440 rpm Design : A

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LOAD PERFORMANCE CURVE

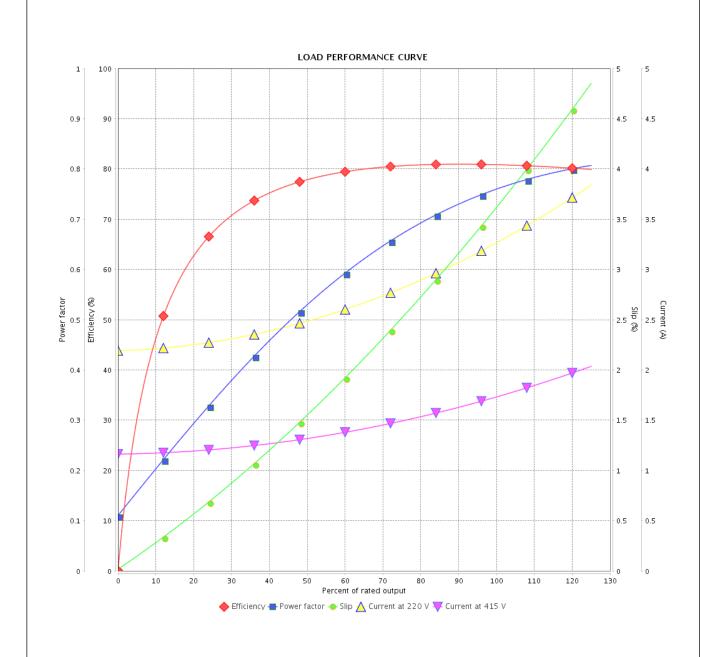
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code : 12809660

Catalog #: 00118OT3E56-S



Performance	: 220/415 V 50 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.32/1.76 A : 6.3 : 3.63 ft.lb : 210 % : 280 % : 1445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0842 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : A	lb
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THERMAL LIMIT CURVE

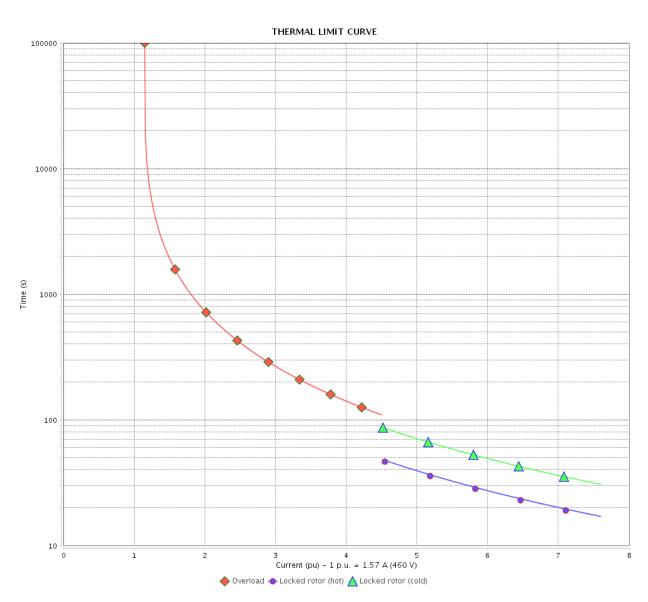
Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : Premium Efficiency Three-Phase Product code : 12809660

Catalog # : 00118OT3E56-S



Performance : 230/460 V 60 Hz 4P Rated current : 3.14/1.57 A Moment of inertia (J) : 0.0842 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) Insulation class : 2.98 ft.lb : F Rated torque : 280 % Locked rotor torque Service factor Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1760 rpm Design : A Heating constant Cooling constant

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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



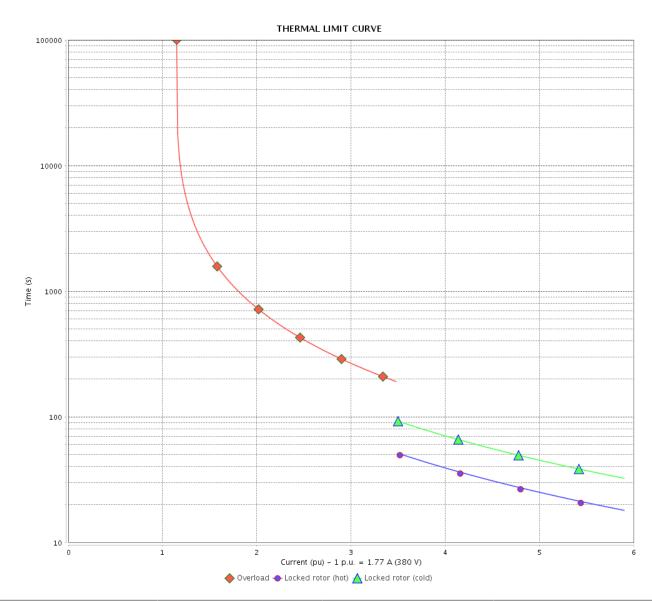
Customer :

Date

14/04/2022

Product line : Premium Efficiency Three-Phase Product code : 12809660

Catalog #: 00118OT3E56-S



: 190/380 V 50 Hz 4P Performance Moment of inertia (J) : 0.0842 sq.ft.lb Rated current : 3.54/1.77 A **LRC** Duty cycle : Cont.(S1) : 5.9 Insulation class Rated torque : 3.65 ft.lb : F Locked rotor torque : 180 % Service factor : 1.15 : 250 % : 80 K Breakdown torque Temperature rise Rated speed : 1440 rpm Design : A Heating constant Cooling constant

Cooling constant

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THERMAL LIMIT CURVE

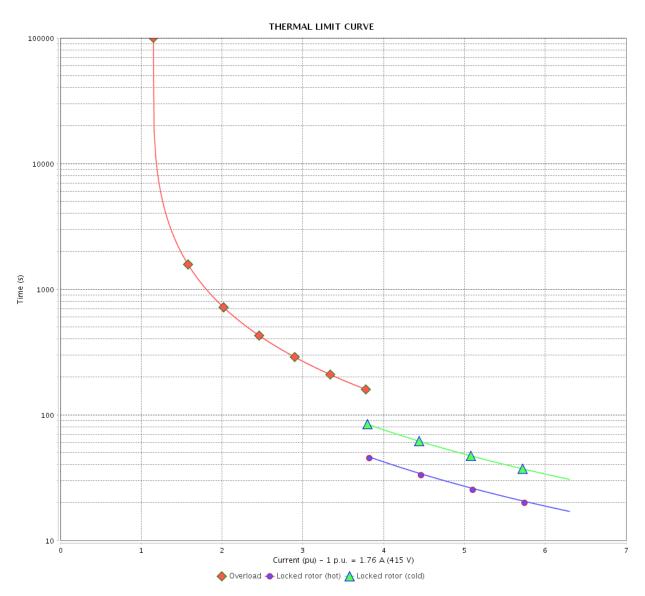
Three Phase Induction Motor - Squirrel Cage



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Customer	•	

Product line : Premium Efficiency Three-Phase Product code : 12809660

Catalog #: 00118OT3E56-S



Performance : 220/415 V 50 Hz 4P Rated current : 3.32/1.76 A Moment of inertia (J) : 0.0842 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 Insulation class Rated torque : 3.63 ft.lb : F : 210 % : 1.15 Locked rotor torque Service factor Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1445 rpm Design : A Heating constant

Cooling constant	t					
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VFD OPERATION CURVE

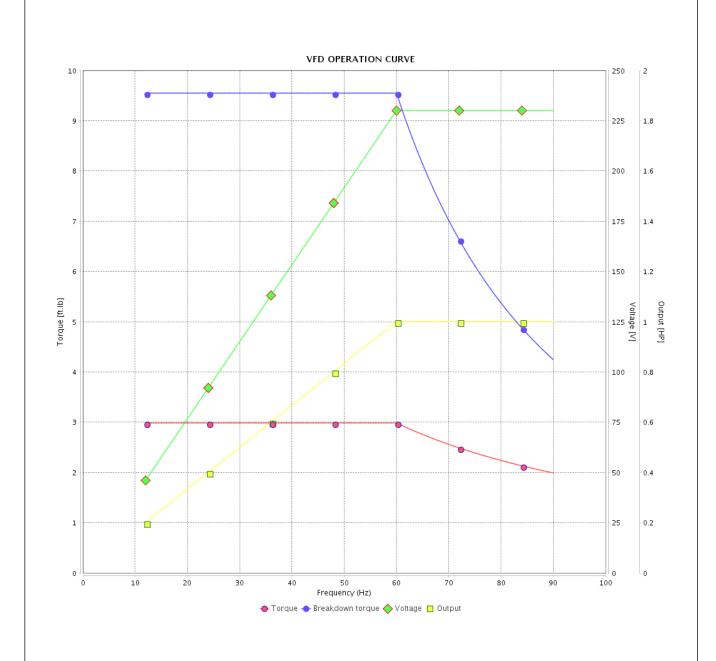
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 12809660

Catalog #: 00118OT3E56-S



Performance	: 2	30/460 V 60 Hz 4P					
Rated current		.14/1.57 A	Moment o	Moment of inertia (J)		: 0.0842 sq.ft.lb	
LRC :		.6	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		.98 ft.lb	Insulation	Insulation class		: F	
Locked rotor torque		80 %	Service fa	Service factor		:	
Breakdown torque	e : 3	20 %	Temperati	Temperature rise		: 80 K	
Rated speed		760 rpm Design		: A			
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

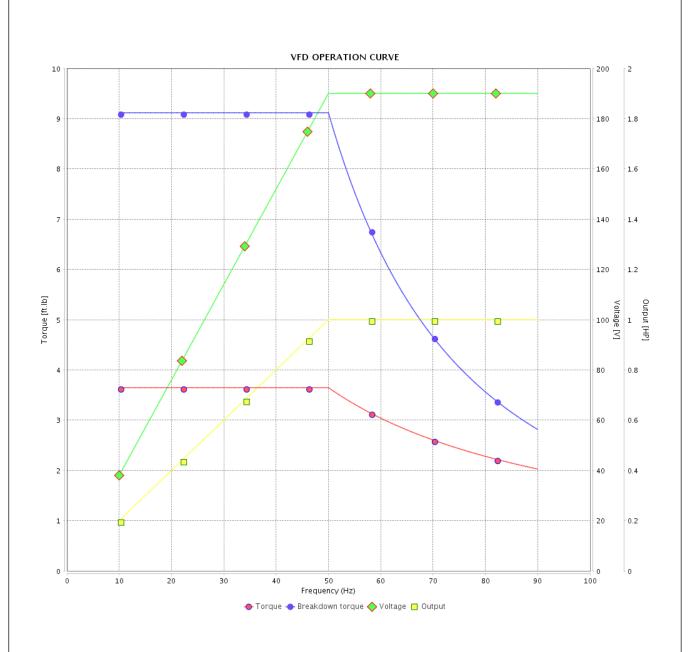
Checked by

Date

14/04/2022

Product line : Premium Efficiency Three-Phase Product code : 12809660

Catalog #: 00118OT3E56-S



Performance : 190/380 V 50 Hz 4P Rated current : 3.54/1.77 A Moment of inertia (J) : 0.0842 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 3.65 ft.lb : F Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1440 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by

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VFD OPERATION CURVE

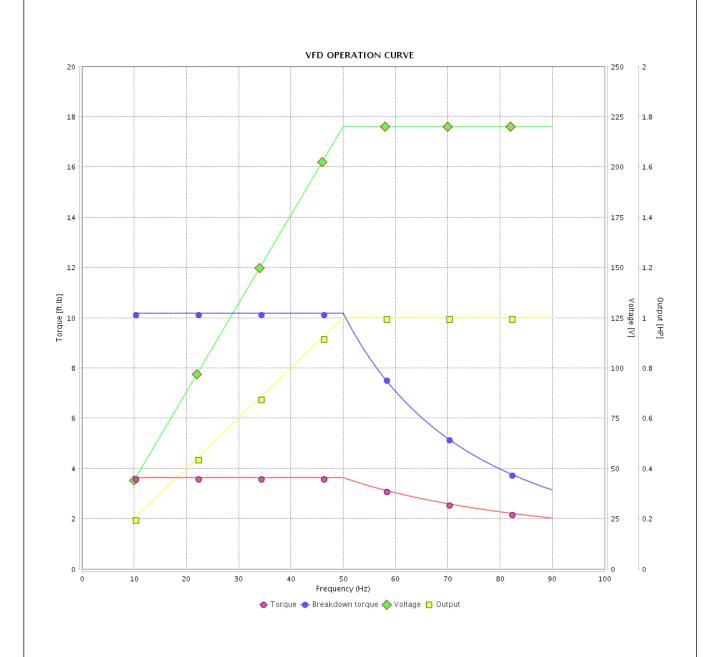
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code : 12809660

Catalog #: 00118OT3E56-S

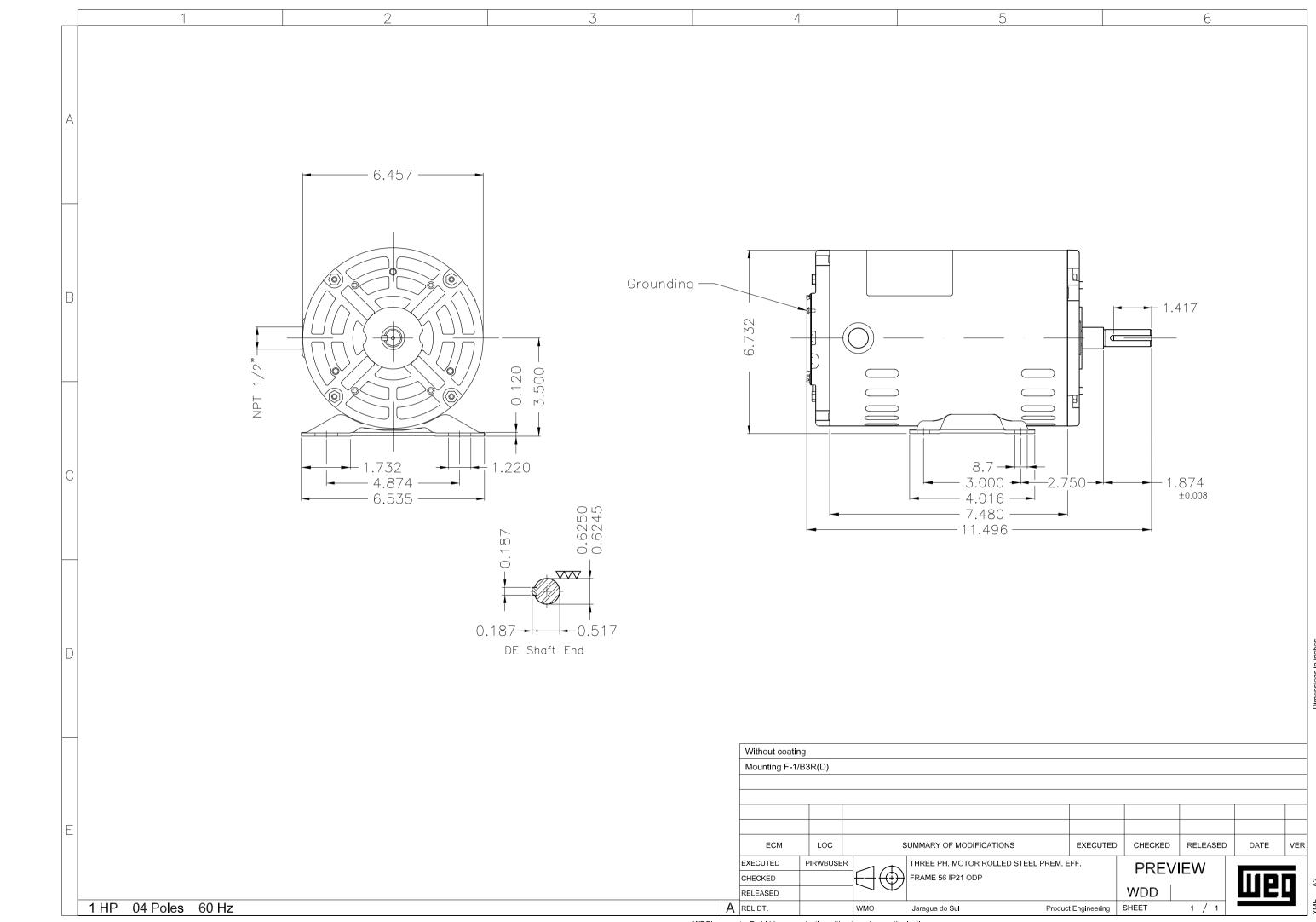


Performance	: 220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.32/1.76 A : 6.3 : 3.63 ft.lb : 210 % : 280 % : 1445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0842 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A	
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3PT9

Energy Verifi

12809660 MADE IN MÉXICO

MODEL 001180T3E56-S

N01.TO0IC0X0X

8 B/N 4 0APR2022

26

CONT

1000 m.a.s. F AT 80K

3.14/1.57 230/460 3.61/1. 1.15

> CODE 47A SABLE @ 208V 3. 900

DES

2°04

NSC

AVG. F.L. 1.0HP

190-220/380-415V

83.5%

H ZPM 3FA 냃 쌆

1440RPM 50 Hz 8202-ZZ

3.54-3.34/1.77-1.77A

LTERNATE RATING:

SF1.00 NCL 문

IEC 6003 SF1.15

5:1 CT

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. **EFF 80.6%**

MOBIL POLYREX EM 19

9

2

ë

8204-ZZ

13-ORG F5-BLK

T9-BRK RED I7-PNK

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





nentation avant l'entretien de la machine

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

choc électrique grave. Déconnectez l'alli