#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



57.0 dB(A)

90.5

89.7

89.9

88.7

0.35

0.59

0.71

0.77

Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12705542

Phase

Catalog #: 01012OT3E256TC-S Frame : 254/6TC Cooling method : IC01 - ODP Insulation class 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. Approx. weight<sup>3</sup> : 230 lb Altitude : 2.50 sq.ft.lb Design : B Moment of inertia (J) Output [HP] 10 10 10 Poles 6 6 6 Frequency [Hz] 60 50 50 220/415 Rated voltage [V] 230/460 190/380 Rated current [A] 27.8/13.9 33.2/16.6 29.8/15.8 L. R. Amperes [A] 147/73.7 139/69.7 137/72.7 LRC [A] 5.3x(Code G) 4.2x(Code E) 4.6x(Code F) No load current [A] 14.7/7.33 14.4/7.22 14.9/7.90 Rated speed [RPM] 1180 970 970 Slip [%] 1.67 3.00 3.00 Rated torque [ft.lb] 44.5 54.1 54.1 Locked rotor torque [%] 210 150 170 Breakdown torque [%] 229 180 200 Service factor 1.15 1.15 1.15 Temperature rise 80 K 80 K 80 K 0s (cold) 0s (hot) 0s (cold) 0s (hot) Locked rotor time 61s (cold) 34s (hot)

100% 0.74 0.78

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

Bearing type : 6309 Z C3 6208 Z C3 Max. traction
Sealing : Without Without Max. compression

Bearing Seal Bearing Seal

59.0 dB(A)

90.8

91.0

91.7

91.7

0.32

0.56

0.68

Lubrication interval : 20000 h 20000 h Lubricant amount : 13 g 8 g Lubricant type : Mobil Polyrex EM

Max. traction : 404 lb Max. compression : 634 lb

57.0 dB(A)

91.5

90.1

89.7

88.0

0.38

0.63

0.74

Notes

Noise level<sup>2</sup>

Efficiency (%)

Power Factor

USABLE @208V 30.7A SF 1.00 SFA 30.7A

25%

50%

75%

100%

25%

50%

75%

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



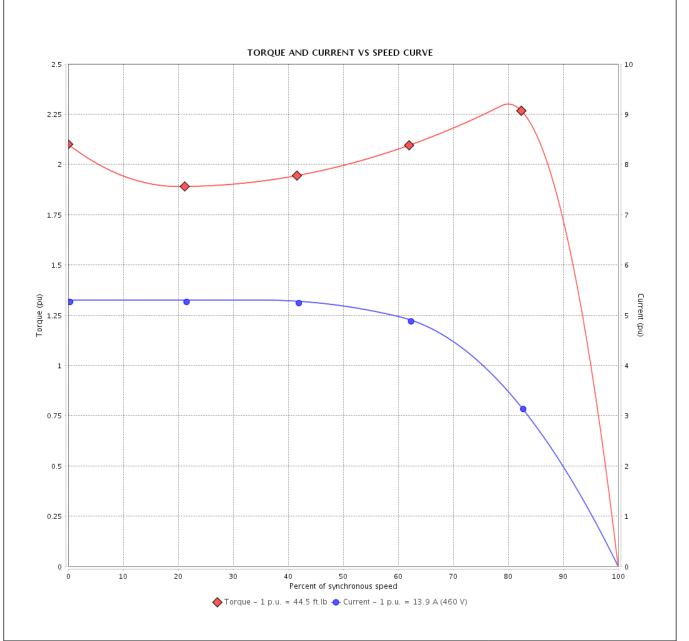
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01012OT3E256TC-S

12705542



Performance : 230/460 V 60 Hz 6P Rated current : 27.8/13.9 A Moment of inertia (J) : 2.50 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) : 44.5 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 210 % : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

Locked rotor time : 61s (cold) 34s (hot)

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage

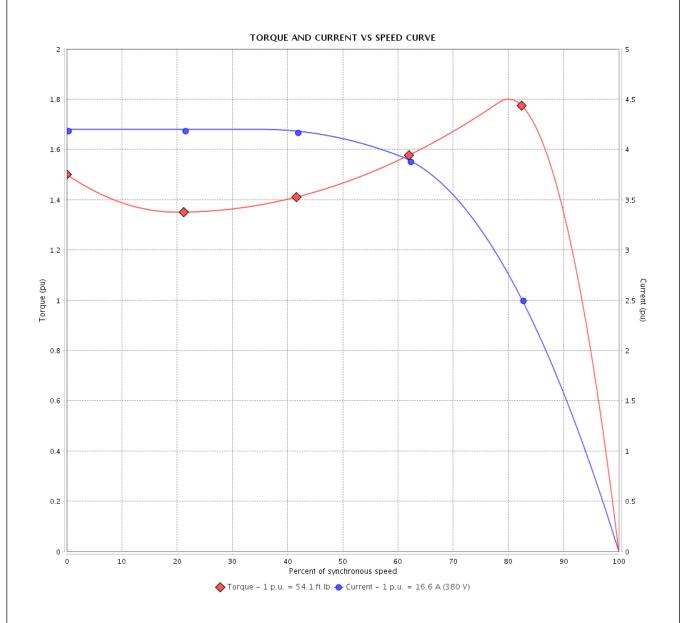


01012OT3E256TC-S

Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12705542
Phase

Catalog #:



Performance	: 190/380 V 50 Hz 6P			
Rated current	: 33.2/16.6 A	Moment of inertia (J)	: 2.50 sq.ft.lb	
LRC	: 4.2	Duty cycle	: Cont.(S1)	
Rated torque	: 54.1 ft.lb	Insulation class	: F	
Locked rotor torque	: 150 %	Service factor	: 1.15	
Breakdown torque	: 180 %	Temperature rise	: 80 K	
Rated speed	: 970 rpm	Design	: B	
Locked rotor time	: 0s (cold) 0s (hot)			

Locked rotor time : 0s (cold) 0s (hot)

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



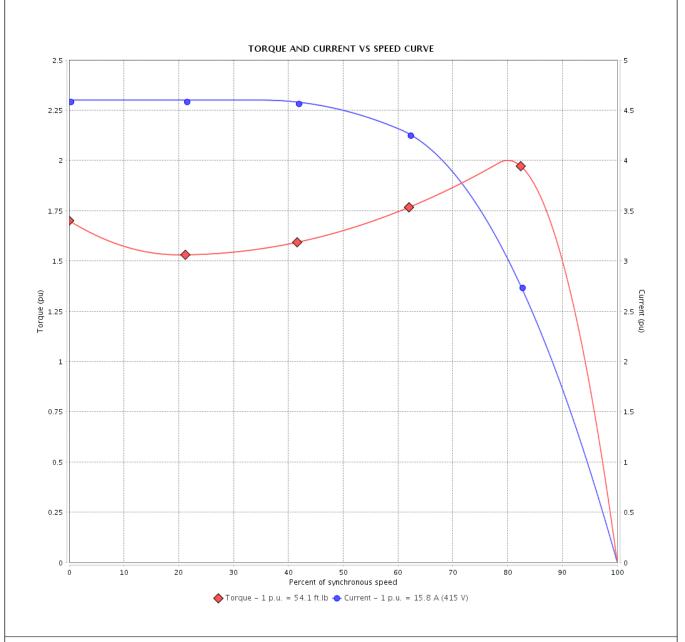
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12705542

Catalog #: 01012OT3E256TC-S



Performance : 220/415 V 50 Hz 6P Rated current : 29.8/15.8 A Moment of inertia (J) : 2.50 sq.ft.lb **LRC** : 4.6 Duty cycle : Cont.(S1) : F : 54.1 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 170 % : 1.15 Breakdown torque : 200 % Temperature rise : 80 K Rated speed : 970 rpm Design : B

Locked rotor time : 0s (cold) 0s (hot)

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### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



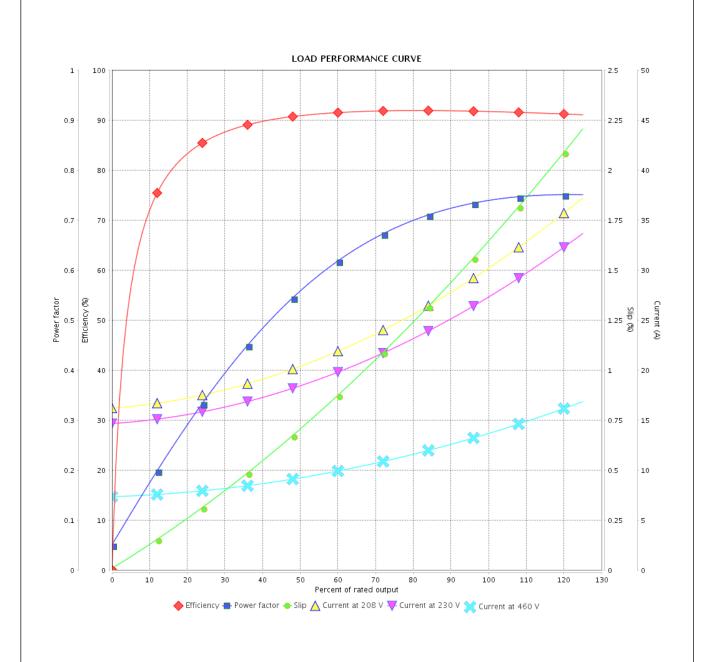
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12705542

Phase

Catalog #: 01012OT3E256TC-S

5/16



Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.8/13.9 A : 5.3 : 44.5 ft.lb : 210 % : 229 % : 1180 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 2.50 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



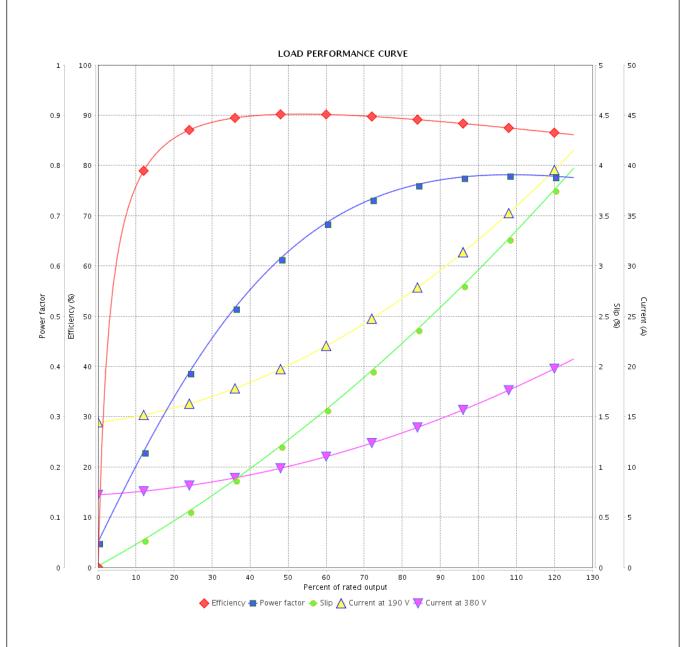
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 12705542

Catalog #: 01012OT3E256TC-S



Performance : 190/380 V 50 Hz 6P : 33.2/16.6 A Rated current Moment of inertia (J) : 2.50 sq.ft.lb **LRC** : 4.2 Duty cycle : Cont.(S1) : 54.1 ft.lb Insulation class Rated torque : F Locked rotor torque : 150 % Service factor : 1.15 Breakdown torque : 180 % Temperature rise : 80 K Rated speed : 970 rpm Design : B Rev Changes Summary Checked Performed Date

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### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage

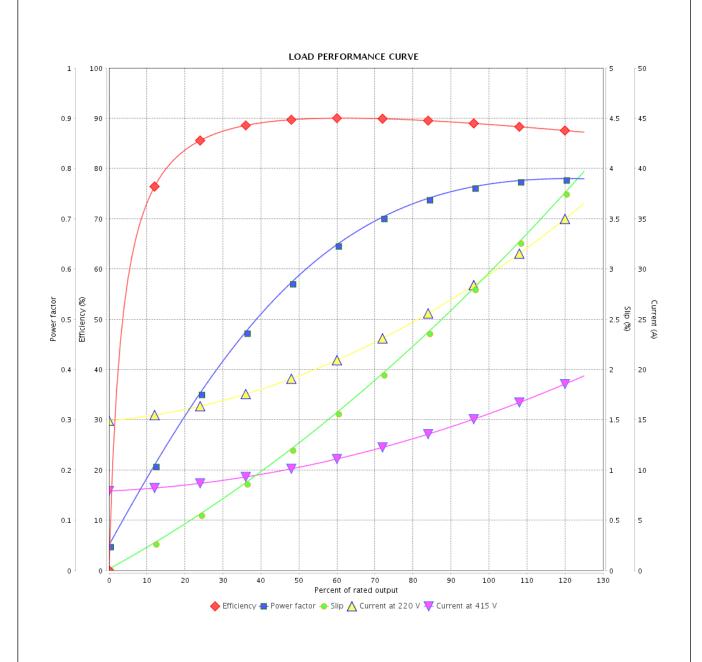


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12705542

Phase

Catalog #: 01012OT3E256TC-S



Performance	: 220/415 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 29.8/15.8 A : 4.6 : 54.1 ft.lb : 170 % : 200 % : 970 rpm	Moment of ine Duty cycle Insulation clas Service factor Temperature r Design	SS	: 2.50 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage

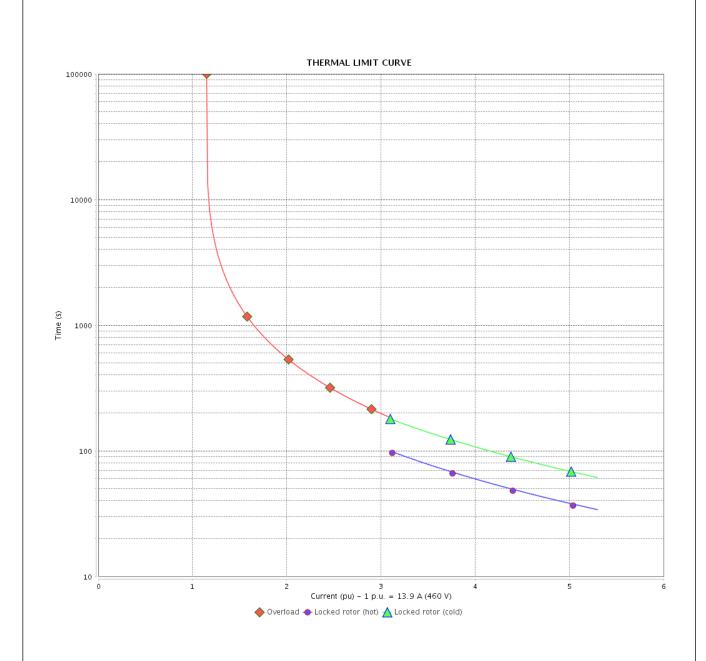


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12705542	
	P	hase		Catalog # :	01012OT3E2	56TC-S
Performance		30/460 V 60 Hz 6P	Mamanta	finantia (I)	. 2 50 50 50 16	
Rated current LRC	: 2.	7.8/13.9 A .3	Duty cycle	f inertia (J)	: 2.50 sq.ft.lb : Cont.(S1)	
Rated torque	: 44	4.5 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		10 % 29 %	Service fa Temperatu		: 1.15 : 80 K	
Rated speed		180 rpm	Design	<del></del>	: B	
Heating constant						
Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

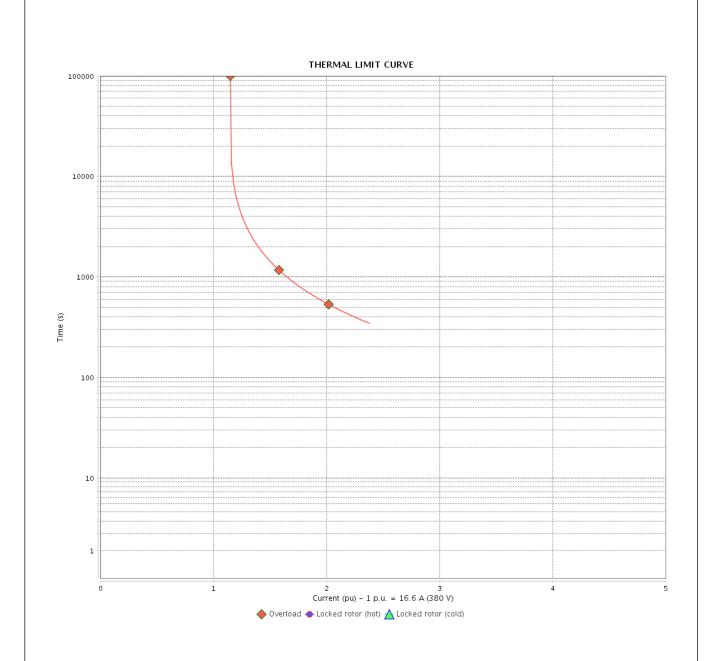


Customer	:			
Product line	: NEMA Premium Efficiency ∃ Phase	Three- Product code :  Catalog # :	12705542 01012OT3E2561	·C-S
		<u> </u>		
Performance	: 190/380 V 50 Hz 6P	Mamont of inartic (1)	· 2 E0 22 # 15	
Rated current LRC	: 33.2/16.6 A : 4.2	Moment of inertia (J) Duty cycle	: 2.50 sq.ft.lb : Cont.(S1)	
Rated torque	: 54.1 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 150 % : 180 %	Service factor Temperature rise	: 1.15 : 80 K	
Rated speed	: 970 rpm	Design	: B	
Heating constant				
Cooling constant		T _		
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

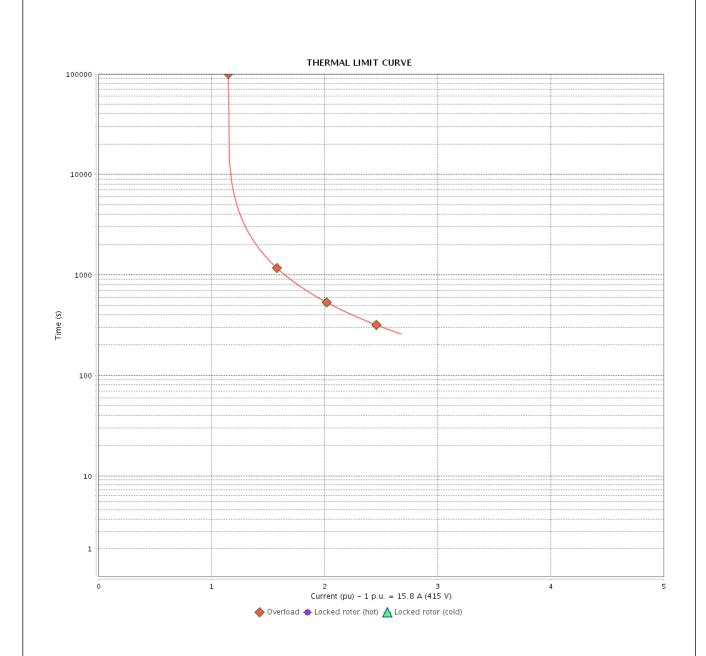


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12705542	
		Tildac		Catalog # :	01012OT3E2	56TC-S
Performance		: 220/415 V 50 Hz 6P				
Rated current		: 29.8/15.8 A	Moment o	of inertia (J)	: 2.50 sq.ft.lb	
LRC		: 4.6	Duty cycle	е	: Cont.(S1)	
Rated torque		: 54.1 ft.lb : 170 %	Insulation Service fa		: F : 1.15	
Locked rotor tord Breakdown torqu		: 200 %	Temperat		: 1.15 : 80 K	
Rated speed		: 970 rpm	Design		: B	
Heating constan	t					
Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

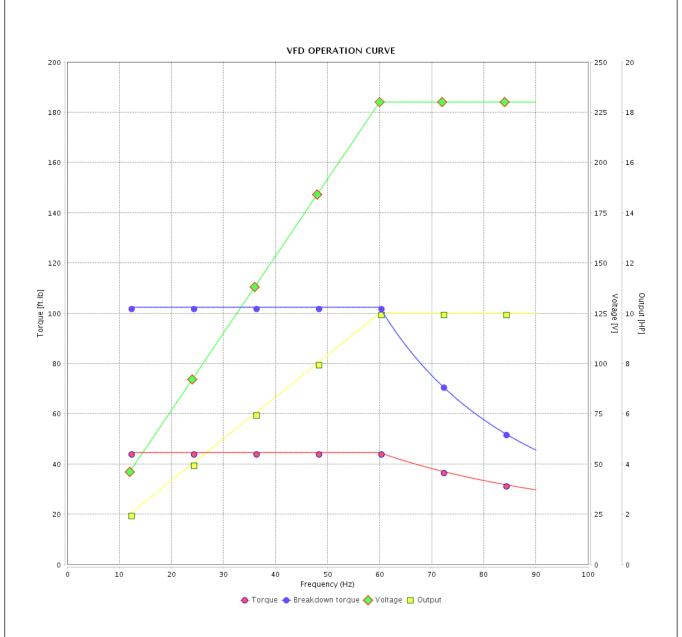
12/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12705542

Catalog #: 01012OT3E256TC-S



Performance : 230/460 V 60 Hz 6P : 27.8/13.9 A Rated current Moment of inertia (J) : 2.50 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.3 Insulation class : 44.5 ft.lb : F Rated torque Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage

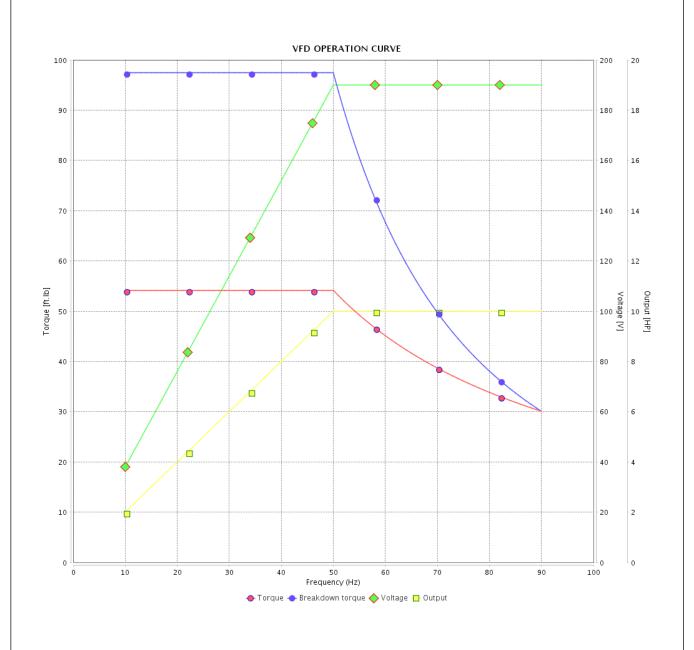


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12705542

Phase

Catalog #: 01012OT3E256TC-S



Performance	: 190/380 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.2/16.6 A : 4.2 : 54.1 ft.lb : 150 % : 180 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.50 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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### VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

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Product line : NEMA Premium Efficiency Three-

Phase

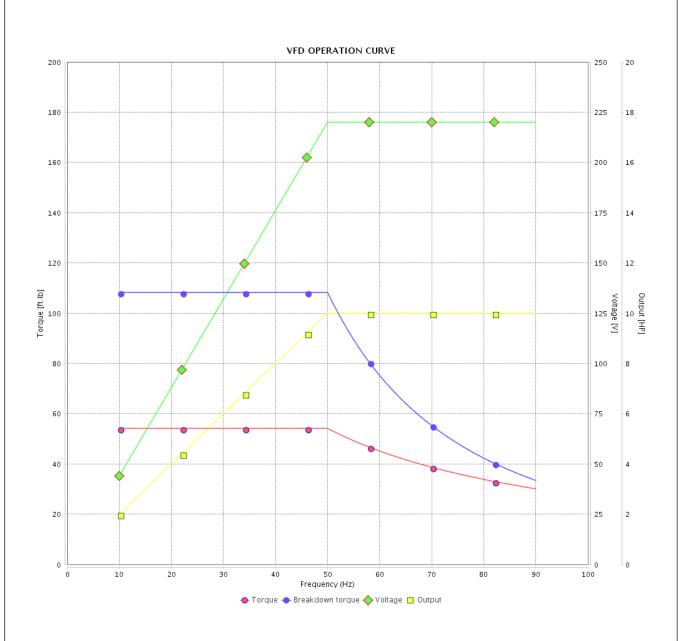
Product code: 12705542

Catalog #: 01012OT3E256TC-S

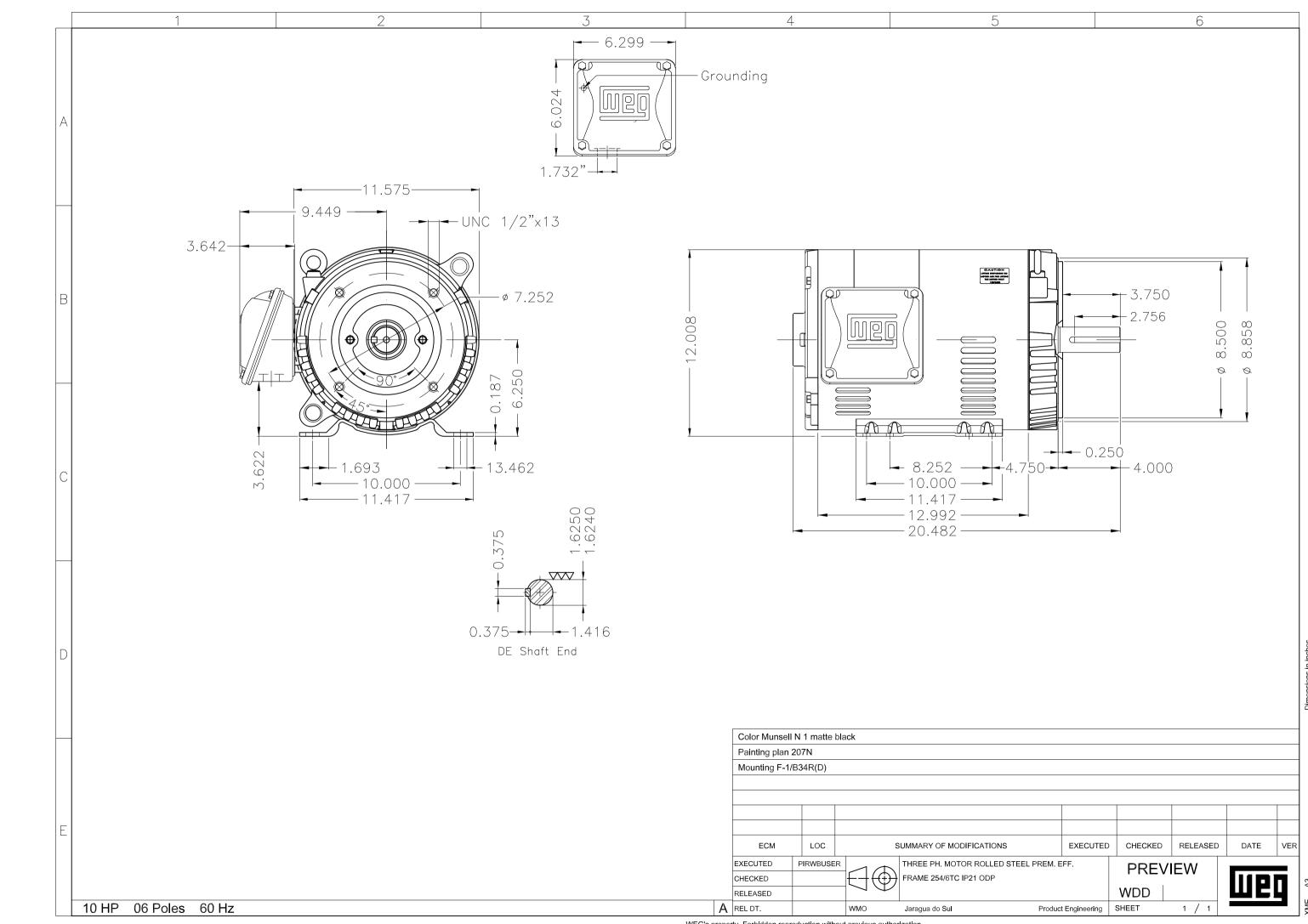
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Performance	: 220/415 V 50 Hz 6P	: 220/415 V 50 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.50 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
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ZEZ

(**UL)**US LISTED

CC029A

12705542

MADE IN MÉXICO

N01.TODICOXON

**&** Energy Verifi

3PT9

MODEL 01012OT3E256TC-S S/N 0JAN2022

9 걒 254/6TC

CONT

1000 m.a.s.l

F AT 80K

2000

20°C 900

27.8/13.9 32.0/16.0

230/460

CODE DES SABLE @ 208V 30.7A

U 33.2-29.4/16.6-15.6A LTERNATE RATING:

SF1.00 INC. 2

91.7%

NOM EFF NEMA

1180 .15

ZPM 3FA 냃 쌆

Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 5:1 CT 50 Hz 6208-Z-C3 IOHD I

ago

8309-Z-C3

牌

970RPM

190-220/380-415V **EFF 88.0%** 

IEC 60034-1 2000bh

SF1.15

MOBIL POLYREX EM

T11 OT12

T2-WHT T4-YEL T6-GRY T8-RED

71-BLU 13-ORG F5-BLK L7-PNK

нон

MOT

T10-CURRY

777



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



