DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12735314

Catalog #: 01012OT3E256T-SG Frame : 254/6T Cooling method : IC01 - ODP Insulation class 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 : 216 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) Noise level² 59.0 dB(A) 57.0 dB(A) 57.0 dB(A) 25% 90.8 91.5 90.5 50% 91.0 90.1 89.7 Efficiency (%) 75% 91.7 89.7 89.9 100% 91.7 88.0 88.7 25% 0.32 0.35 0.38 50% 0.56 0.59 0.63 Power Factor 75% 0.68 0.74 0.71 100% 0.74 0.78 0.77

Non drive end Foundation loads Drive end

Bearing type 6309 Z C3 6208 Z C3 : 411 lb Max. traction Sealing Without Without Max. compression : 627 lb

> Bearing Seal Bearing Seal

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

Notes

USABLE @208V 30.7A SF 1.00 SFA 30.7A

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



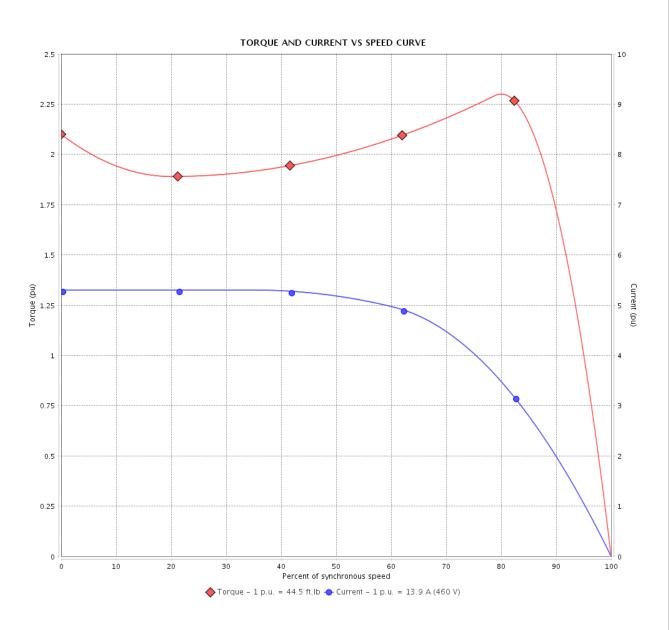
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12735314

Catalog #: 01012OT3E256T-SG



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 Customer Product line : NEMA Premium Efficiency Three-Product code: 12735314 Catalog #: 01012OT3E256T-SG TORQUE AND CURRENT VS SPEED CURVE 4.5 1.8 3.5 1.4 1.2 Torque (pu) 0.8 0.4 0.2 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 54.1 ft.lb ◆ Current - 1 p.u. = 16.6 A (380 V) 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) : 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 Locked rotor time : 0s (cold) 0s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



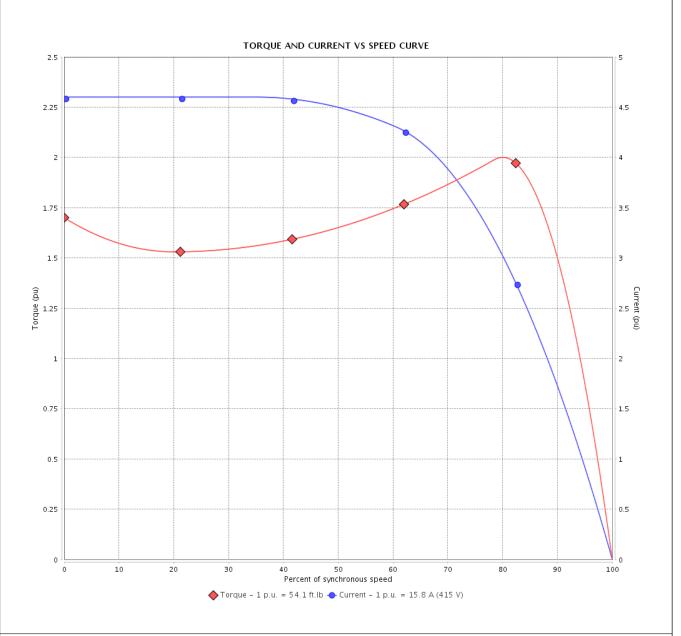
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01012OT3E256T-SG

12735314



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

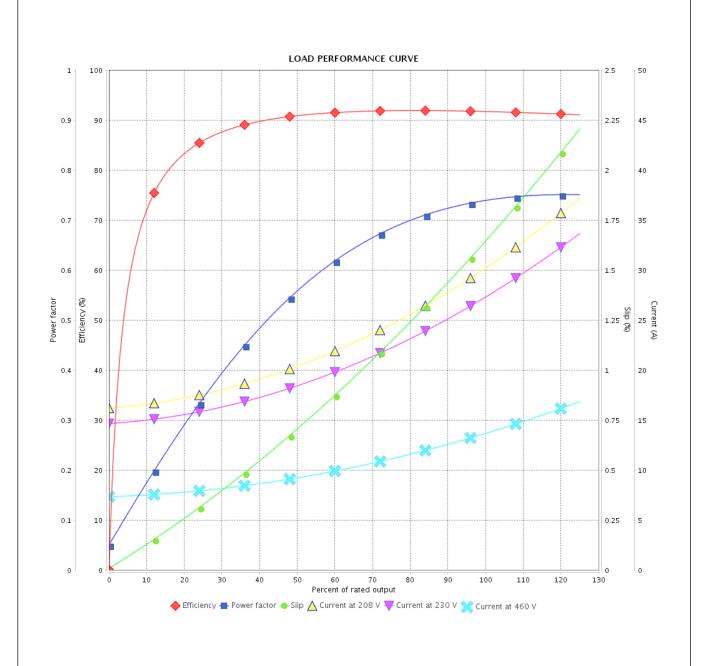
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12735314

Catalog #: 01012OT3E256T-SG



Performance		230/460 V 60 Hz 6P				
Rated current	: 2	27.8/13.9 A	Moment o	f inertia (J)	: 2.50 sq.ft.lb	
LRC	: 5	5.3	Duty cycle	;	: Cont.(S1)	
Rated torque	: 4	14.5 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	210 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	229 %	Temperature rise		: 80 K	
Rated speed	: 1	1180 rpm	Design		: B	
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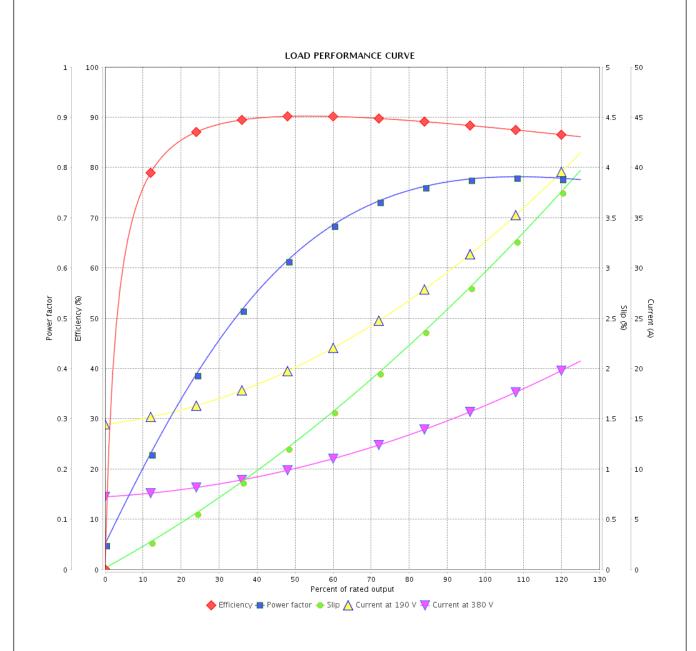


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12735314

Phase

Catalog #: 01012OT3E256T-SG



Danfarmana	. 10	20/200 V E0 II- 6F				
Performance	. 18	90/380 V 50 Hz 6F	,			
Rated current	: 33	3.2/16.6 A	Moment o	f inertia (J)	: 2.50 sq.ft.lb	
LRC	: 4.	2	Duty cycle	Duty cycle		
Rated torque	: 54	4.1 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 15	50 %	Service fa	Service factor		
Breakdown torqu	e : 18	30 %	Temperati	Temperature rise		
Rated speed	: 97	70 rpm	Design		: B	
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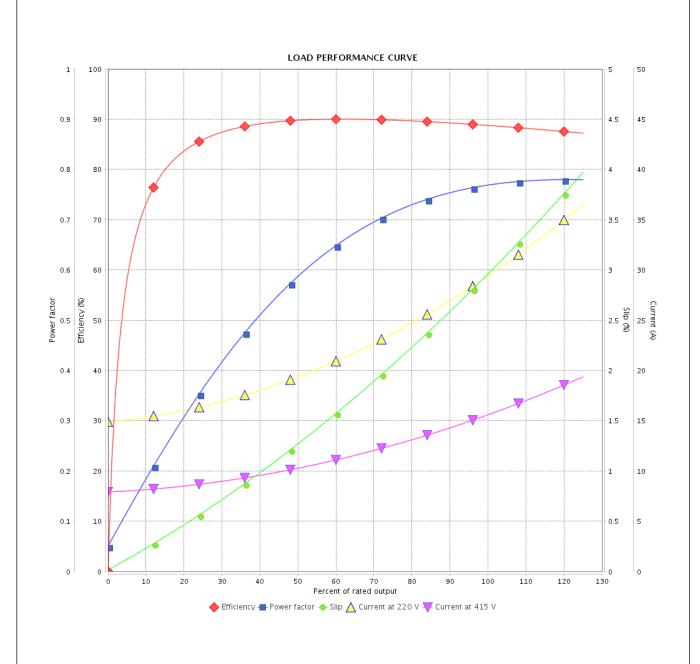


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12735314

Phase

Catalog #: 01012OT3E256T-SG



Performance	::	220/415 V 50 Hz 6P				
Rated current	::	29.8/15.8 A	Moment o	f inertia (J)	: 2.50 sq.ft.lb	
LRC	: -	4.6	Duty cycle	;	: Cont.(S1)	
Rated torque	::	54.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	170 %	Service fa	ctor	: 1.15	
Breakdown torque	::	200 %	00 % Temperature rise		: 80 K	
Rated speed	: !	P70 rpm Design		: B		
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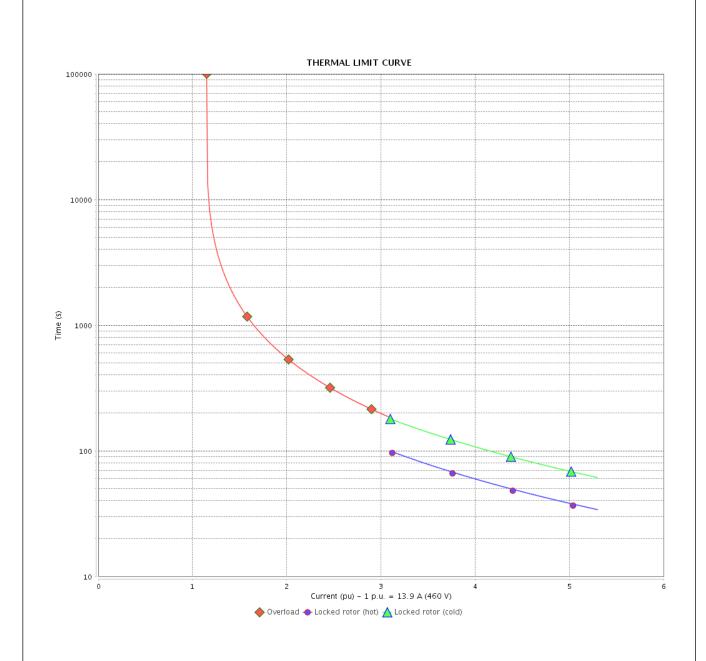


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	12735314	
	Phase		Catalog # :	01012OT3E2	56T-SG
				0.0.20.022	
Performance	: 230/460 V 60 Hz 6P				
	: 27.8/13.9 A : 5.3	Moment o	f inertia (J)	: 2.50 sq.ft.lb	
Rated torque	: 44.5 ft.lb	Duty cycle Insulation	: class	: Cont.(S1) : F	
Locked rotor torque	: 210 %	Service fa	ctor	: 1.15	
	: 229 % : 1180 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant	•				
Cooling constant					
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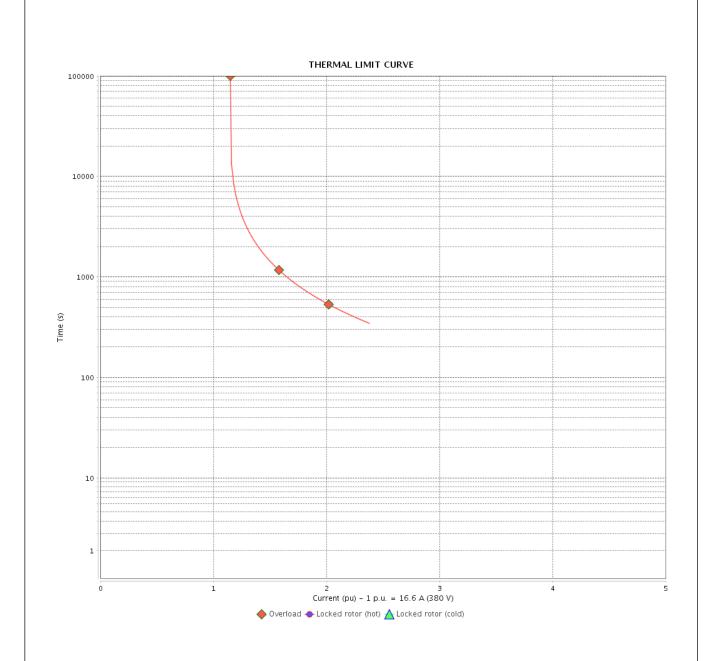


Customer		:				
Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	12735314 01012OT3E25	56T-SG
Performance		190/380 V 50 Hz 6P				
Rated current		33.2/16.6 A	Moment o	f inertia (J)	: 2.50 sq.ft.lb	
Rated current LRC		4.2	Duty cycle) ווסונומ (ט)	: 2.50 sq.it.ib : Cont.(S1)	
Rated torque	:	54.1 ft.lb	Insulation	class	: F	
Locked rotor toro		150 %	Service fa		: 1.15	
Breakdown torqu Rated speed		180 % 970 rpm	Temperatu Design	ure rise	: 80 K : B	
Heating constant						
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Three Phase Induction Motor - Squirrel Cage



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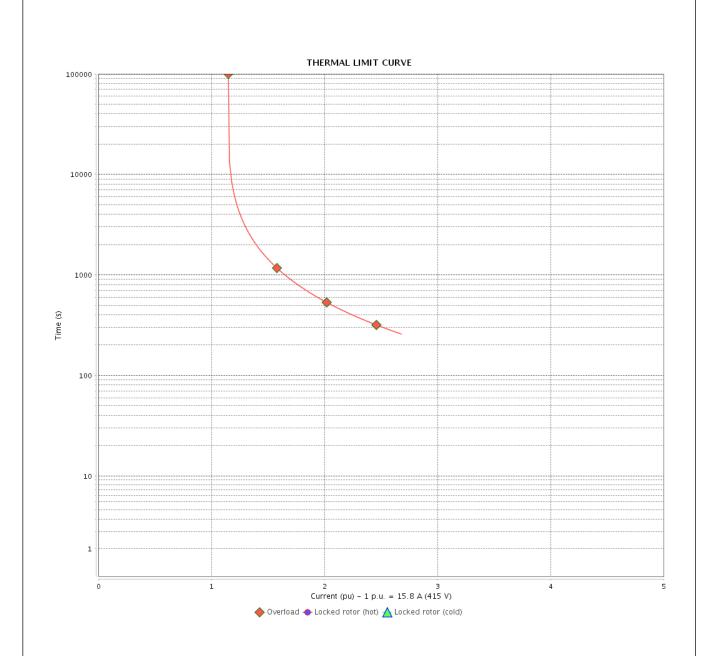


Customer	:			
Product line	: NEMA Premium Efficiency Phase		12735314	_
		Catalog # :	01012OT3E256T-S0	3
Performance	: 220/415 V 50 Hz 6P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 29.8/15.8 A : 4.6 : 54.1 ft.lb : 170 % : 200 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.50 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant				
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



01012OT3E256T-SG

Customer :

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Date

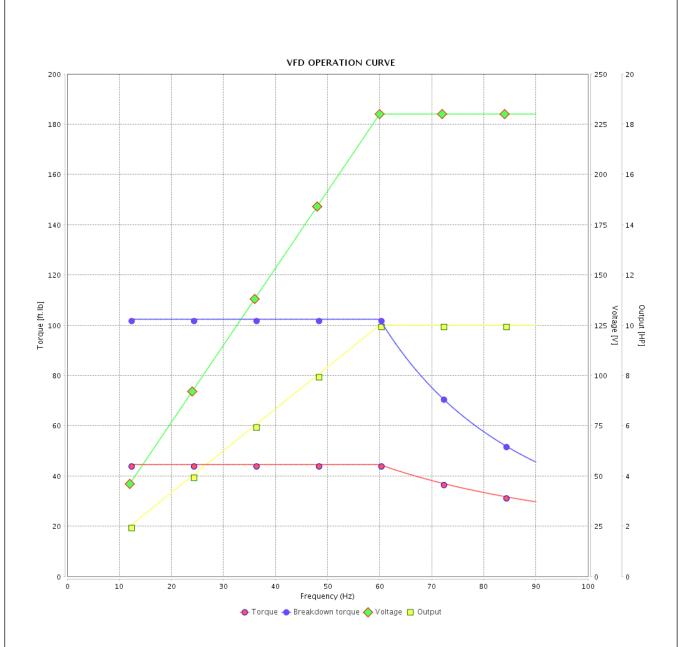
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12735314

Catalog #:



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

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



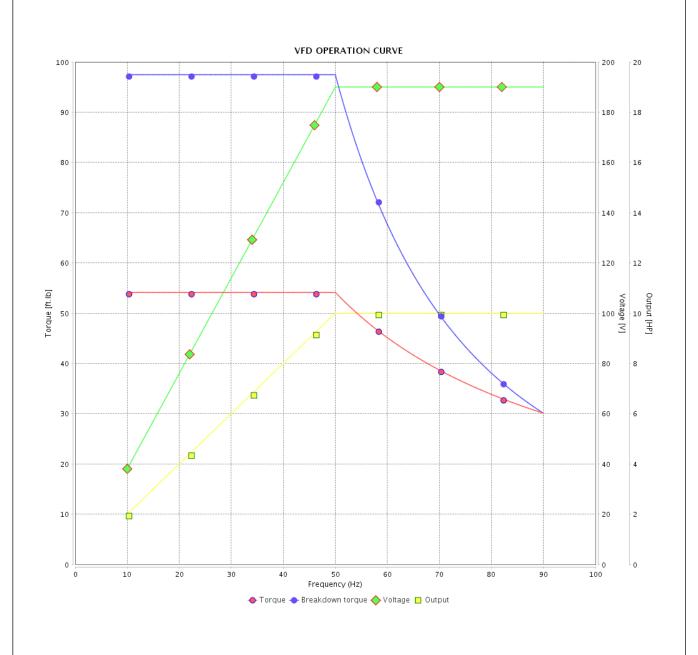
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12735314

Phase

Catalog #: 01012OT3E256T-SG

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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 :

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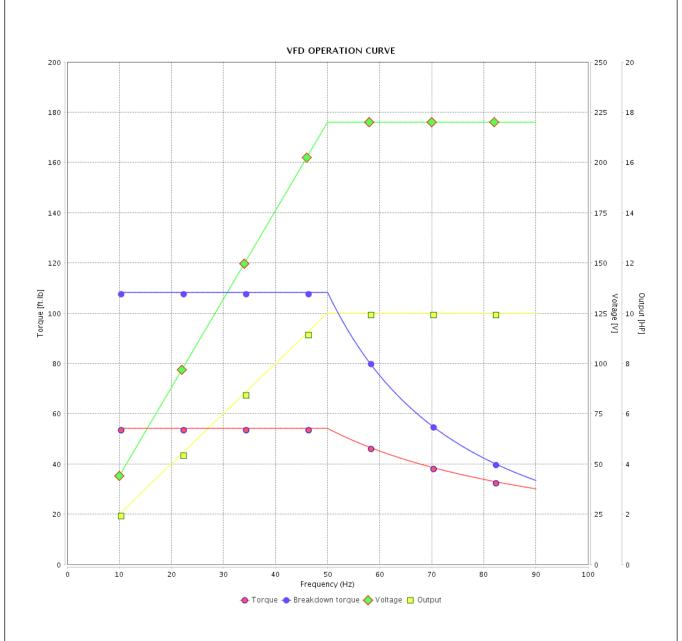
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Product line : NEMA Premium Efficiency Three- Produc

Phase

Product code: 12735314

Catalog #: 01012OT3E256T-SG

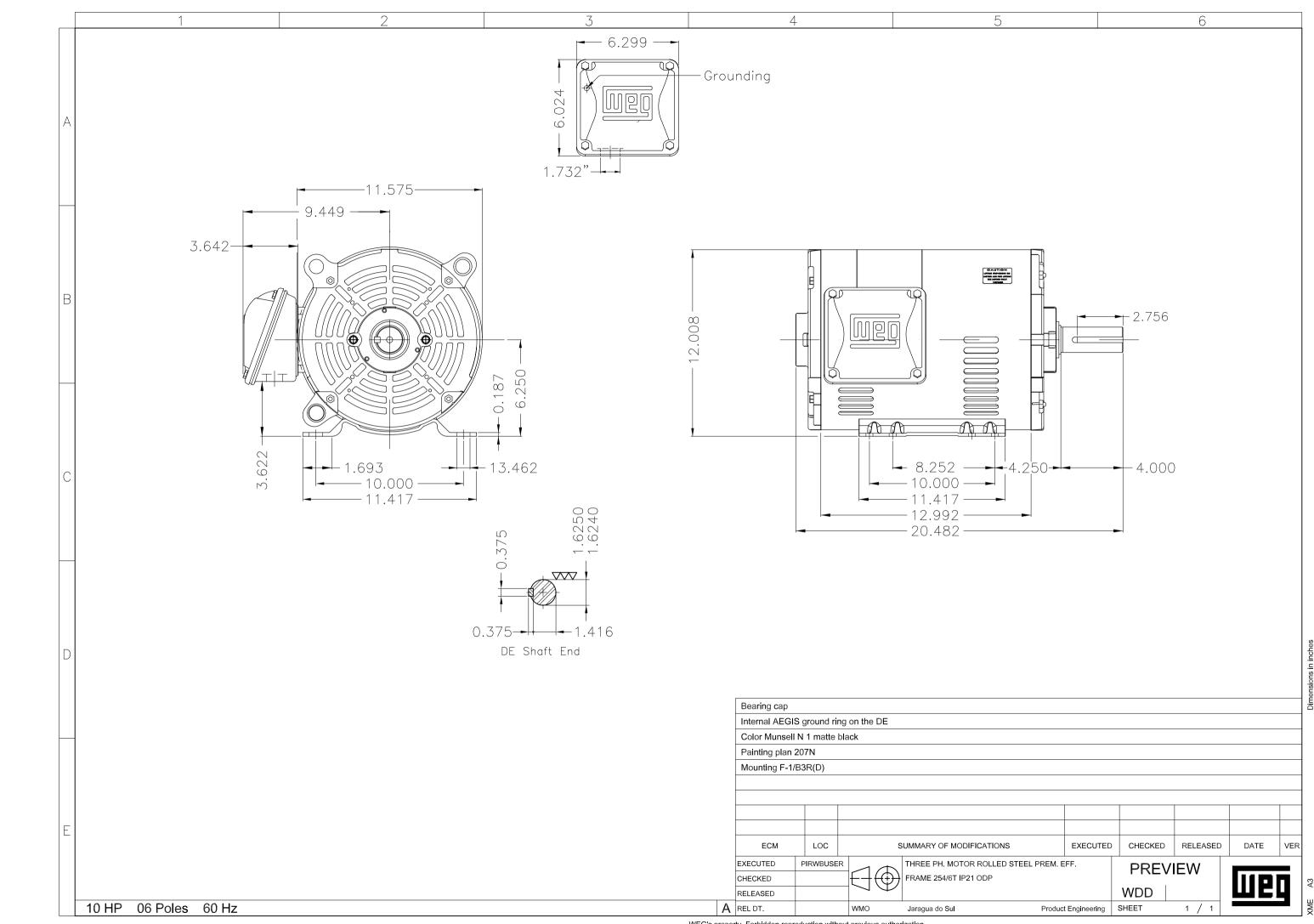


Performance	: 220/415 V 50 Hz 6P	: 220/415 V 50 Hz 6P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.50 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
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(**UL)**US LISTED 3PT9

S Su Energy Verifi

> MODEL 010120T3E256T-SG S/N 3SEP2021

N01.TODICOXON

CC029A

12735314

MADE IN MÉXICO

9 4 254/6T CONT

1000 m.a.s.l

F AT 80K

NSC

20°C 900

27.8/13.9 32.0/16.0

230/460

CODE DES SABLE @ 208V 30.7A

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

SF1.00 INC. 2

IEC 60034-1 2000bh

SF1.15

190-220/380-415V

91.7%

NOM EFF NEMA 970RPM

50 Hz

1180 .15

ZPM 3FA 냃 쌆

EFF 88.0%

MOBIL POLYREX EM

8309-Z-C3

牌

T11 OT12

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

нон

MOT

777

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

T2-WHT T4-YEL T6-GRY T8-RED T9-BRK RED 71-BLU 13-ORG F5-BLK L7-PNK

F11-GRN T12-VLT T10-CURRY

conformément aux codes électriques locaux et nationaux afin d'éviter tout shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre ind national electrical codes to prevent serious electrical

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