DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12735312

Catalog #: 00512OT3E215T-SG Frame : 213/5T 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 : 126 lb Altitude : 1.08 sq.ft.lb Design : B Moment of inertia (J) Output [HP] 5 5 5 Poles 6 6 6 Frequency [Hz] 60 50 50 220/415 Rated voltage [V] 230/460 190/380 Rated current [A] 13.5/6.74 16.3/8.16 14.8/7.86 L. R. Amperes [A] 79.5/39.8 73.4/36.7 74.1/39.3 LRC [A] 5.9x(Code H) 4.5x(Code E) 5.0x(Code F) No load current [A] 7.10/3.55 7.00/3.50 7.21/3.82 Rated speed [RPM] 1175 960 965 Slip [%] 2.08 4.00 3.50 Rated torque [ft.lb] 22.3 27.4 27.2 Locked rotor torque [%] 220 160 190 Breakdown torque [%] 250 190 210 Service factor 1.15 1.15 1.15 80 K 80 K 80 K Temperature rise 0s (cold) 0s (hot) 0s (cold) 0s (hot) Locked rotor time 52s (cold) 29s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 88.3 89.2 88.0 50% 88.5 87.5 87.0 Efficiency (%) 75% 89.5 87.2 87.4 100% 89.5 85.1 86.0 25% 0.34 0.40 0.36 50% 0.61 0.58 0.66 Power Factor 75% 0.70 0.76 0.73 100% 0.77 0.79 0.81

Non drive end Foundation loads Drive end

Bearing type 6208 ZZ 6206 ZZ : 259 lb Max. traction Sealing Without Without Max. compression : 385 lb

> Bearing Seal Bearing Seal

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 14.9A SF 1.00 SFA 14.9A

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



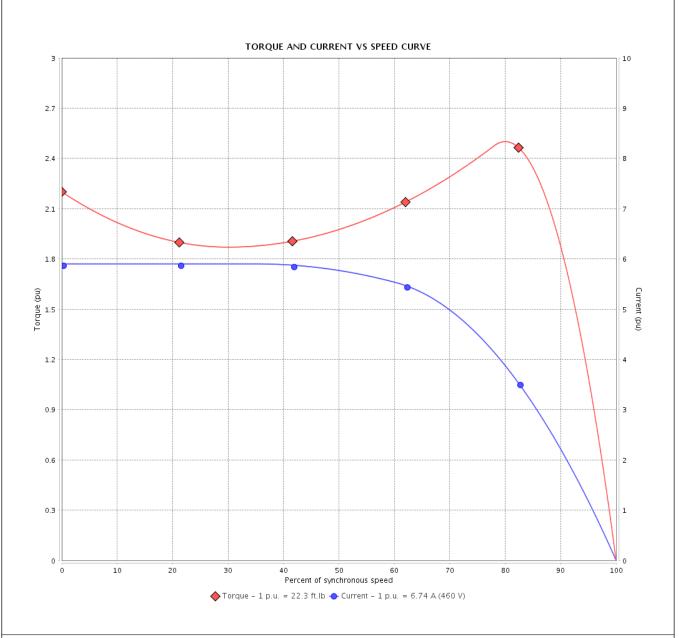
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12735312

Catalog #: 00512OT3E215T-SG



Performance : 230/460 V 60 Hz 6P Rated current : 13.5/6.74 A Moment of inertia (J) : 1.08 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 22.3 ft.lb : F Service factor Locked rotor torque : 220 % : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

Locked rotor time : 52s (cold) 29s (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: 12735312 Catalog #: 00512OT3E215T-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 40 50 60 Percent of synchronous speed ◆Torque - 1 p.u. = 27.4 ft.lb ◆ Current - 1 p.u. = 8.16 A (380 V)

Rated current : 16.3/8.16 A LRC : 4.5				Moment of inertia (J)		
Rated torque	ed torque : 27.4 ft.lb Insulation class		: Cont.(S1) : F : 1.15			
Locked rotor torq Breakdown torqu		60 % 90 %		Service factor Temperature rise		
Rated speed	Rated speed : 96		Design		: B	
Locked rotor time	: 0	s (cold) 0s (hot)				
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: 190/380 V 50 Hz 6P

Performance

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



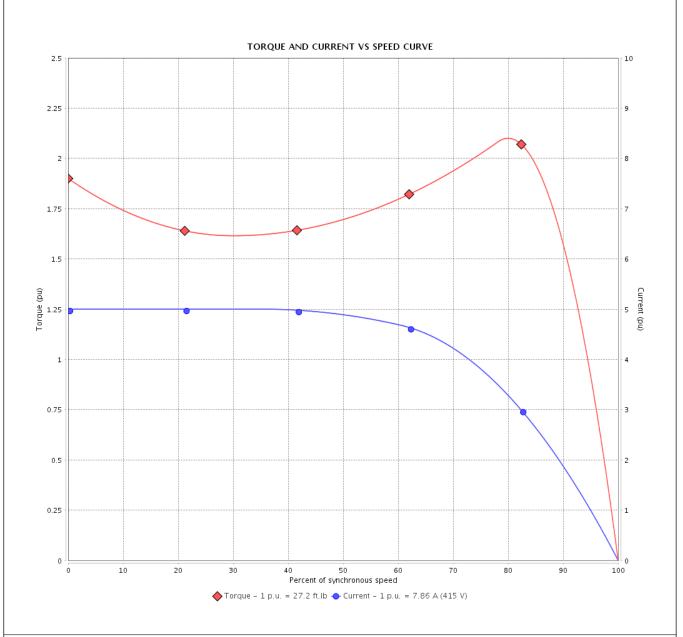
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12735312

Catalog #: 00512OT3E215T-SG



Performance : 220/415 V 50 Hz 6P Rated current : 14.8/7.86 A Moment of inertia (J) : 1.08 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) : 27.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 965 rpm Design : B

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

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LOAD PERFORMANCE CURVE

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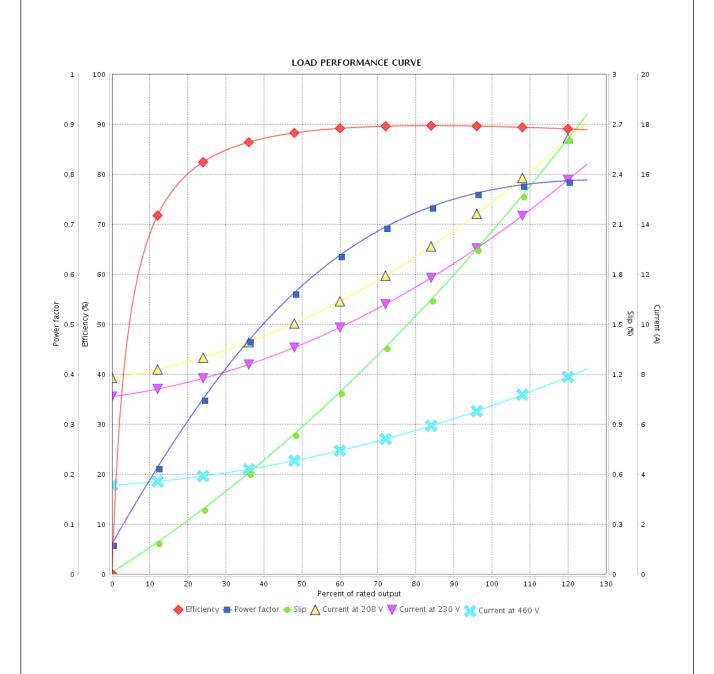


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12735312

Phase

Catalog #: 00512OT3E215T-SG



Performance	: 2	30/460 V 60 Hz 6P				
Rated current	: 1	3.5/6.74 A Moment of		f inertia (J)	: 1.08 sq.ft.lb	
LRC	: 5	.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	2.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	20 %	Service factor		: 1.15	
Breakdown torque			ıre rise	: 80 K		
Rated speed	: 1	175 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

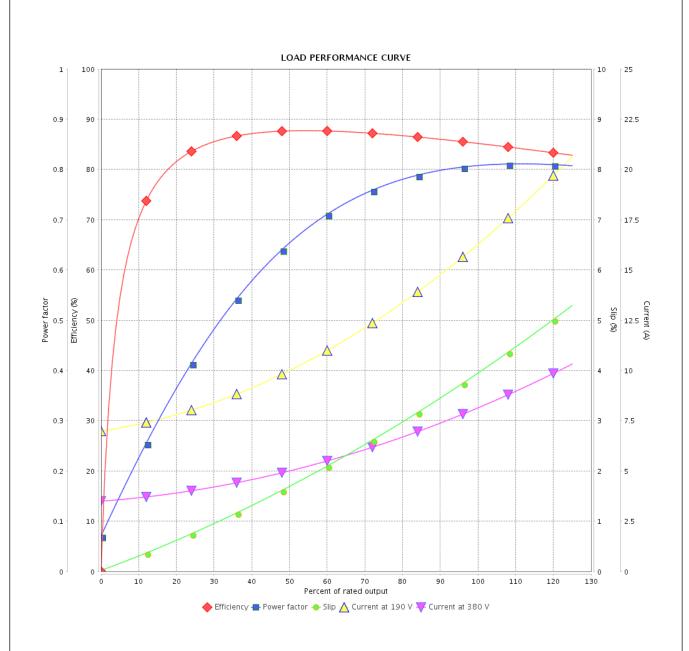
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00512OT3E215T-SG

12735312

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Performance		: 190/380 V 50 Hz 6F	•			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 16.3/8.16 A : 4.5 : 27.4 ft.lb : 160 % : 190 % : 960 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 1.08 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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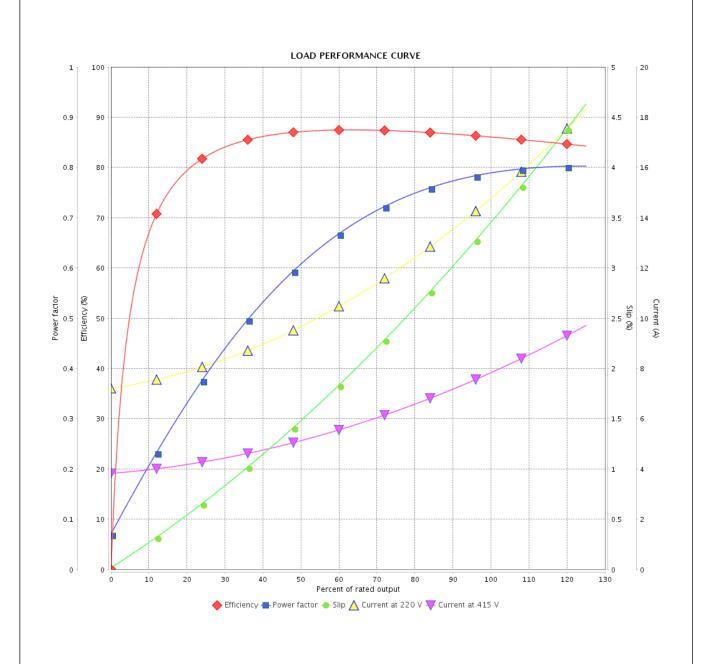
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12735312

Catalog #: 00512OT3E215T-SG



Performance	: 2	20/415 V 50 Hz 6P				
Rated current	: 1	4.8/7.86 A	.8/7.86 A Moment of inertia (J)		: 1.08 sq.ft.lb	
LRC	: 5	.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	7.2 ft.lb	Insulation	class	: F	
Locked rotor torque : 1		90 %	Service fa	ctor	: 1.15	
Breakdown torque		10 %	Temperati	Temperature rise		
Rated speed	: 9	65 rpm	Design		: B	
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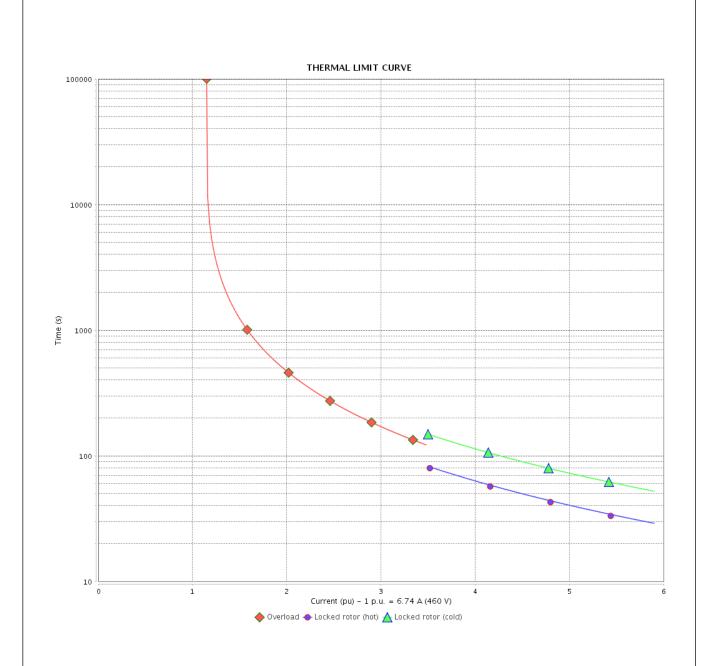


Customer	:					
Product line	: i Pi	NEMA Premium Efficiency l		Product code :	12735312	00
			(Catalog # :	00512OT3E2	151-SG
Performance	: 23	30/460 V 60 Hz 6P				
Rated current		3.5/6.74 A	Moment of	f inertia (J)	: 1.08 sq.ft.lb	
LRC Rated torque	: 5. : 22	.9 2.3 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord	que : 22	20 %	Service fac	ctor	: 1.15	
Breakdown torqu Rated speed		50 % 175 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constan		·				
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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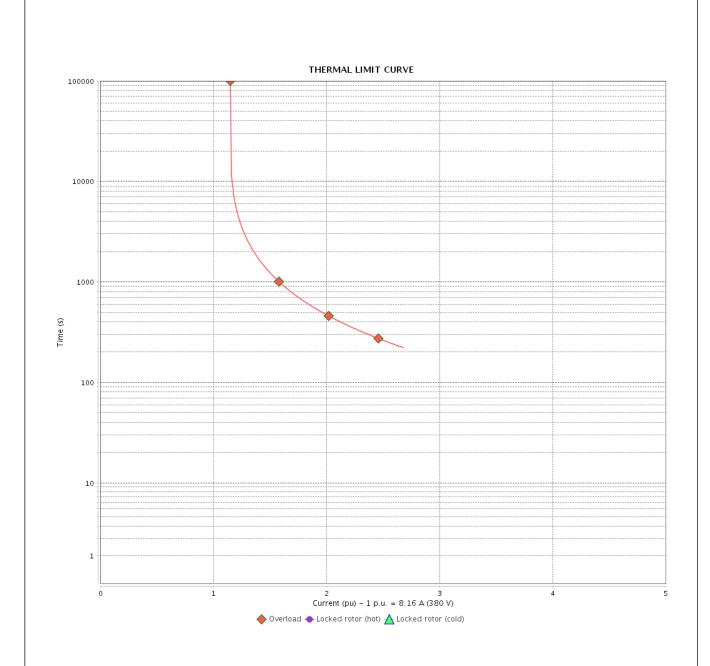


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code :	12735312	457.00
			Catalog # :	00512OT3E2	15T-SG
Performance	: 190/380 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 16.3/8.16 A : 4.5 : 27.4 ft.lb : 160 % : 190 % : 960 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 1.08 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



Customer



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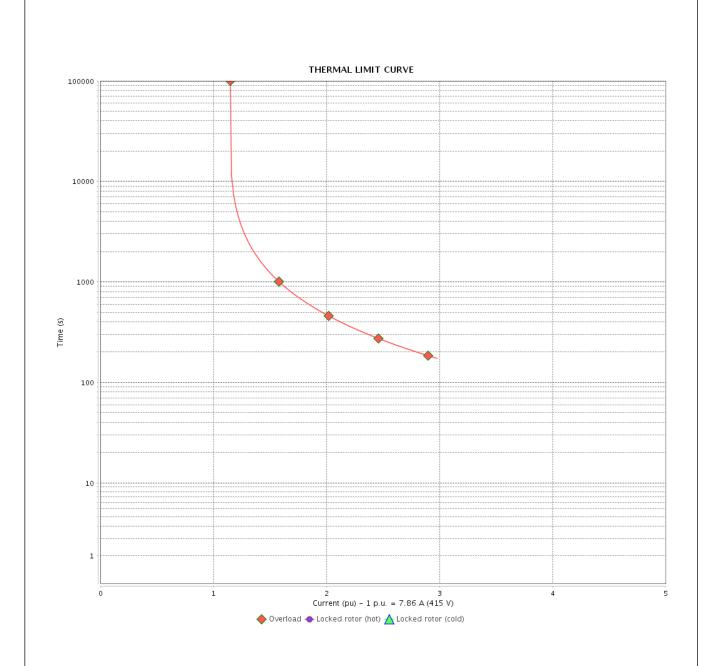


Customer	:					
Product line		NEMA Premium Efficiency l nase		Product code :	12735312 00512OT3E2	15T-SG
Performance Rated current	: 14	20/415 V 50 Hz 6P 4.8/7.86 A	Moment of	f inertia (J)	: 1.08 sq.ft.lb	
LRC Rated torque Locked rotor torque Breakdown torque Rated speed	e : 19 : 2 ²	0 7.2 ft.lb 90 % 10 % 65 rpm	Duty cycle Insulation Service fac Temperatu Design	class ctor	: Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
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 :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12735312

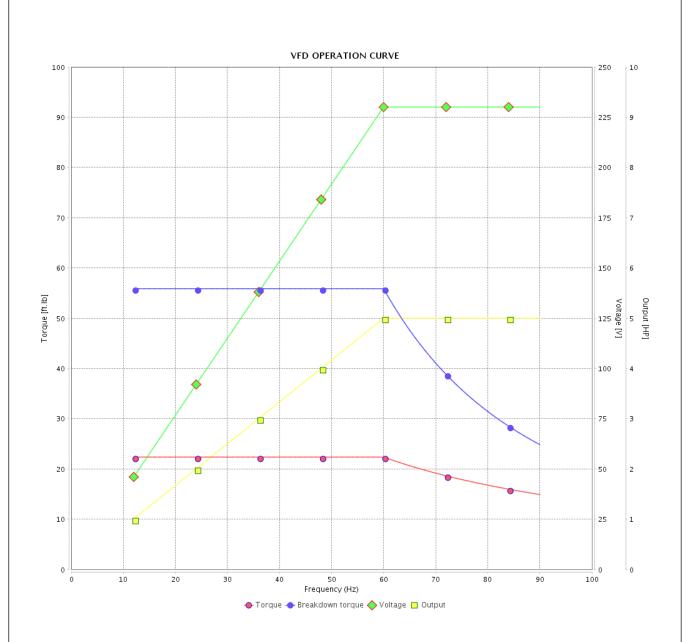
Phase

Catalog #: 00512OT3E215T-SG

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Revision



Performance : 230/460 V 60 Hz 6P : 13.5/6.74 A Rated current Moment of inertia (J) : 1.08 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 22.3 ft.lb : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

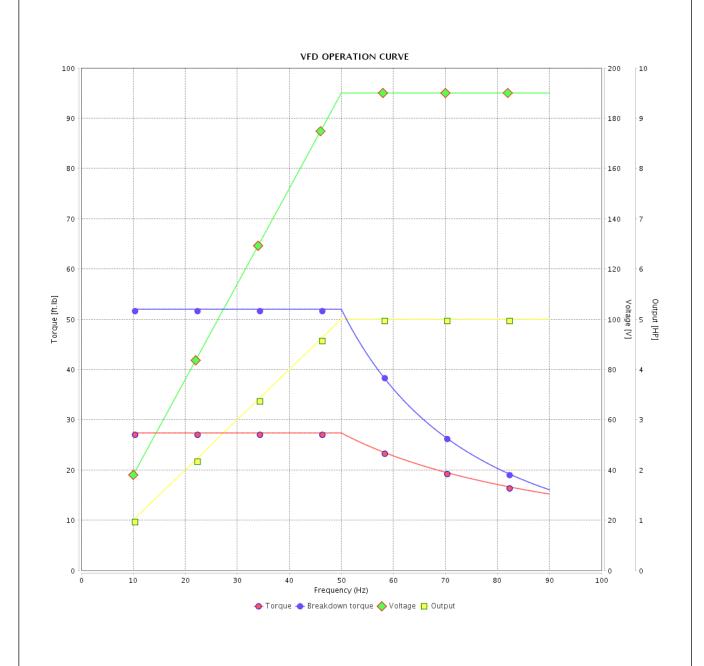


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12735312

Phase

Catalog #: 00512OT3E215T-SG



Performance	:	: 190/380 V 50 Hz 6P						
Rated current		16.3/8.16 A	Moment of inertia (J)		: 1.08 sq.ft.lb			
LRC	:	4.5	Duty cycle		: Cont.(S1)			
Rated torque	:	27.4 ft.lb	Insulation class		:F			
Locked rotor torque	:	160 %	Service factor		: 1.15			
Breakdown torque	:	190 %	Temperati	ıre rise	: 80 K			
Rated speed	:	960 rpm	Design		: B			
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

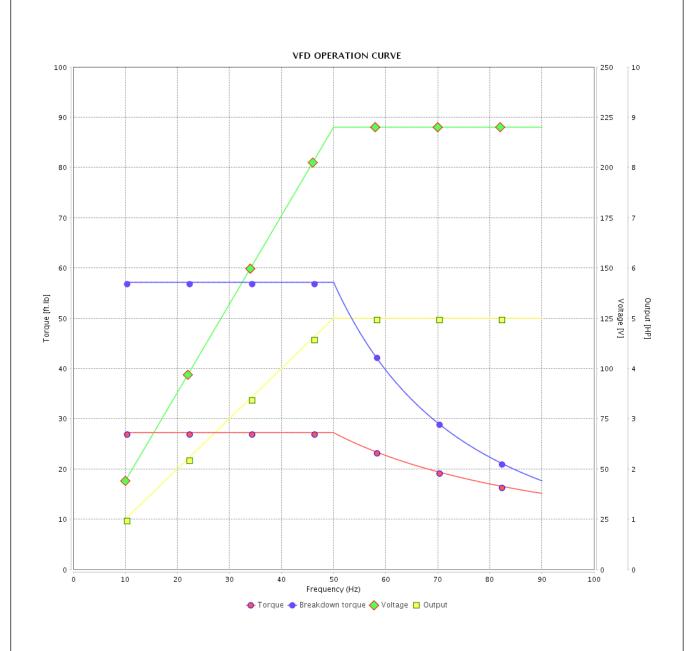


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12735312

Phase

Catalog #: 00512OT3E215T-SG

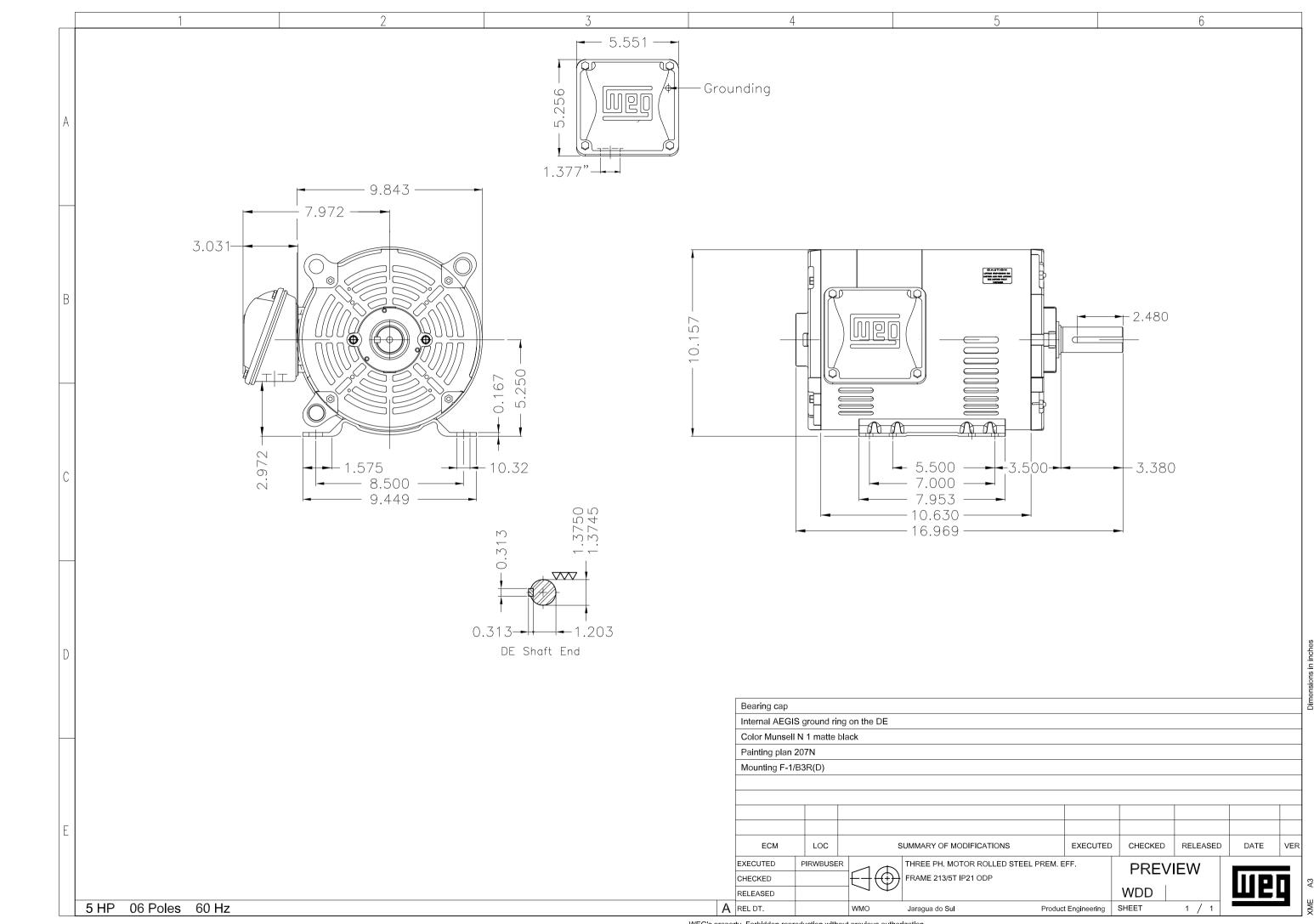


Performance	: 22	20/415 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 27 que : 19 ie : 21	4.8/7.86 A 0 7.2 ft.lb 90 % 10 % 65 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.08 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Date



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Energy Verifi

N01.TODICOXON

12735312

MADE IN MÉXICO

MODEL 005120T3E215T-SG 9 S/N 4 213/51 21FEB2022

DES 1000 m.a.s.l F AT 80K CONT 2°04 900

NS CL

13.5/6.74 15.5/7.75

3FA

230/460 1.15

> 5.0HP CODE SABLE @ 208V 14.9A ALTERNATE RATING:

SF1.00 INC. 2

냃 쌆

NOM EFF NEMA 960RPM ZPM 50 Hz

89.5%

IEC 60034-1

SF1.15 5:1 CT

190-220/380-415V

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. **EFF 85.1%**

8206-ZZ

ODE

8208-ZZ

牌

18.3-14.6/8.16-7.74A

T6

MOBIL POLYREX EM

T2-WHT T6-GRY

T4-YEL

r3-org T7-PNK T9-BRK T5-BLK 1-BLU

T8-RED RED



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