DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12674950

Phase

Catalog #: 00736ET3E213T-SG

Frame : 213/5T Cooling method : IC411 - TEFC

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 133 lb

Altitude		: 1000 m.a.s.i.	Approx. weight	: 133 ID
Protection degre	е	: IP55	Moment of inertia (J)	: 0.5496 sq.ft.lb
Design		: B		
Output [HP]		7.5	7.5	7.5
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		17.3/8.67	21.2/10.6	19.1/10.1
L. R. Amperes [A]		132/65.9	134/66.8	133/70.7
LRC [A]		7.6x(Code H)	6.3x(Code G)	7.0x(Code H)
No load current [A	.]	6.63/3.32	6.54/3.27	6.64/3.52
Rated speed [RPN	Л]	3530	2905	2915
Slip [%]		1.94	3.17	2.83
Rated torque [ft.lb]		11.2	13.6	13.5
Locked rotor torqu	ie [%]	260	190	220
Breakdown torque	: [%]	300	240	270
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	80 K
Locked rotor time		27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		70.0 dB(A)	67.0 dB(A)	67.0 dB(A)
	25%	86.4	89.8	89.4
Efficiency (%)	50%	87.5	88.6	88.6
Efficiency (%)	75%	88.5	88.4	88.8
	100%	89.5	86.9	87.7
	25%	0.49	0.54	0.51
Power Factor	50%	0.76	0.81	0.78
1 OWEI Facior	75%	0.85	0.88	0.87
	100%	0.89	0.91	0.90

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

Bearing type : 6208 ZZ 6206 ZZ Max. traction : 139 lb Sealing : V'Ring Without Max. compression : 272 lb

Bearing Seal

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

Notes

USABLE @208V 19.2A SF 1.00 SFA 19.2A

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



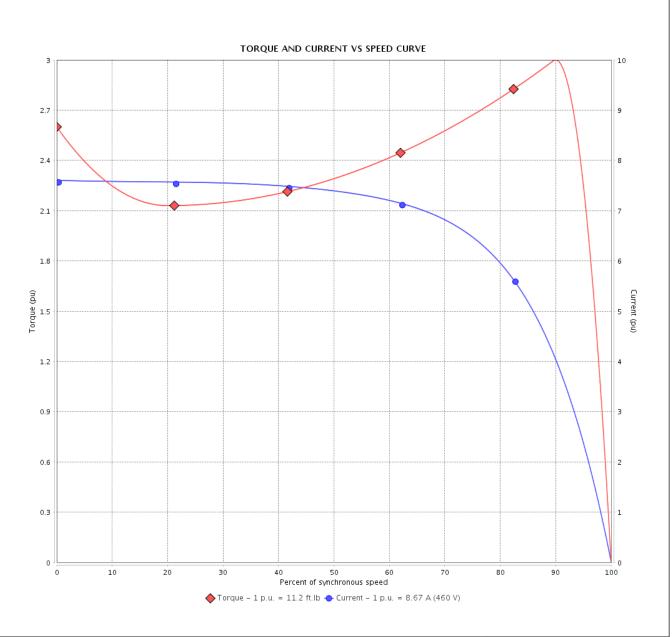
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12674950

Catalog #: 00736ET3E213T-SG



Performance : 230/460 V 60 Hz 2P Rated current : 17.3/8.67 A Moment of inertia (J) : 0.5496 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : F : 11.2 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 260 % : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3530 rpm Design : B

Locked rotor time : 27s (cold) 15s (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: 12674950 Catalog #: 00736ET3E213T-SG TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 13.6 ft.lb ◆ Current - 1 p.u. = 10.6 A (380 V)

Performance : 190/380 V 50 Hz 2P Rated current : 21.2/10.6 A Moment of inertia (J) : 0.5496 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 13.6 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 : 105 K Breakdown torque : 240 % Temperature rise Rated speed : 2905 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



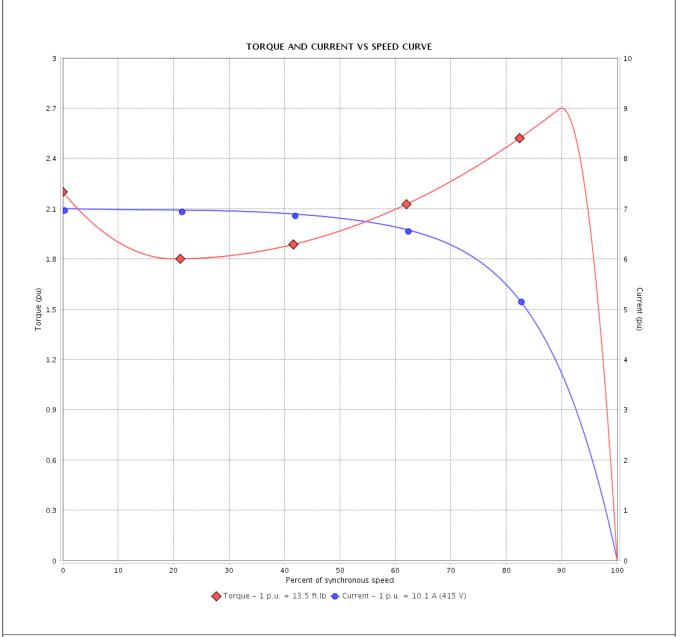
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12674950

Catalog #: 00736ET3E213T-SG



Performance : 220/415 V 50 Hz 2P Rated current : 19.1/10.1 A Moment of inertia (J) : 0.5496 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : F : 13.5 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2915 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



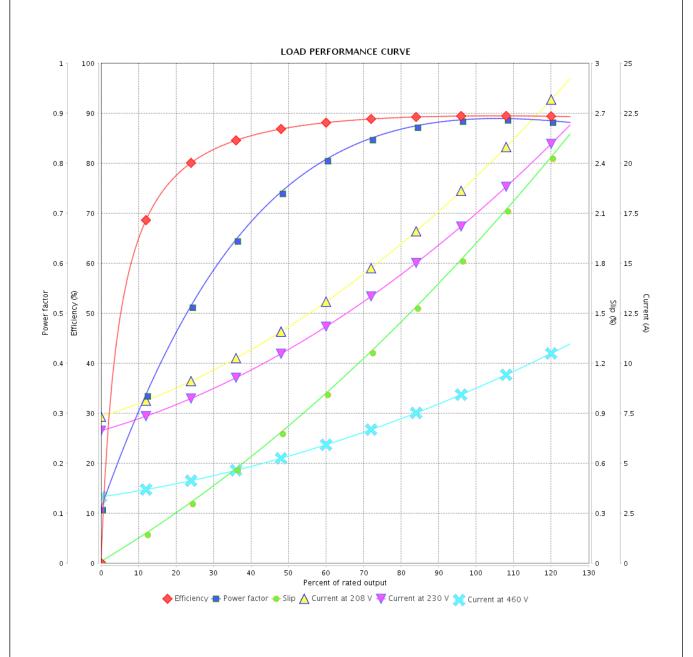
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736ET3E213T-SG

12674950



Performance	:	230/460 V 60 Hz 2P				
Rated current	:	17.3/8.67 A	Moment o	f inertia (J)	: 0.5496 sq.ft.	lb
LRC	:	7.6	Duty cycle	:	: Cont.(S1)	
Rated torque	:	11.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :	260 %	Service fa	ctor	: 1.15	
Breakdown torque		300 %	Temperature rise		: 80 K	
Rated speed	:	3530 rpm	Design		: B	
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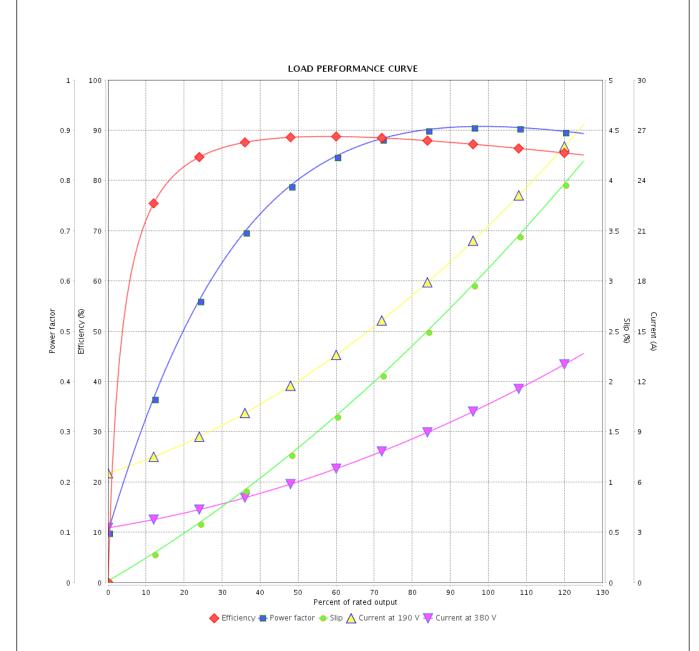
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 00736ET3E213T-SG

12674950



Performance	: 19	90/380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 13 que : 19 ie : 24	1.2/10.6 A 3 3.6 ft.lb 90 % 90 5 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.5496 sq.ft : Cont.(S1) : F : 1.00 : 105 K : B	.lb
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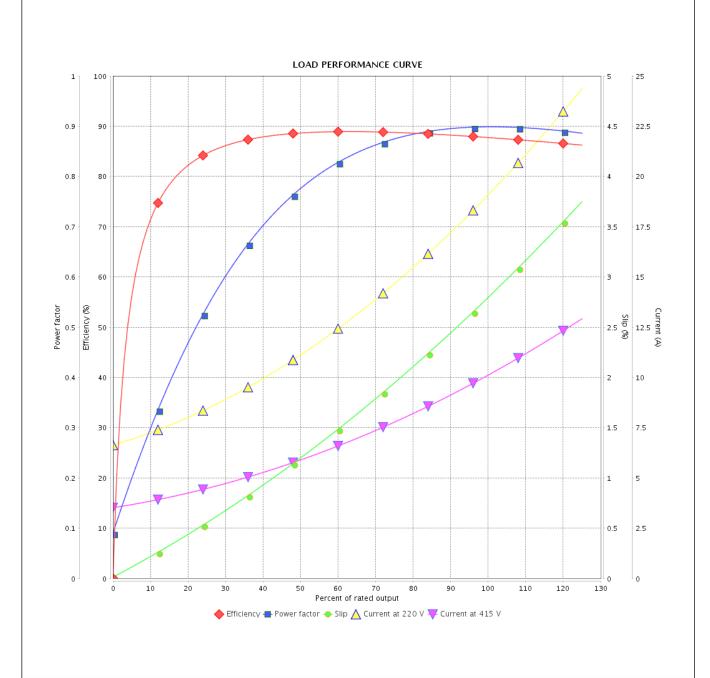
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736ET3E213T-SG

12674950



Performance	: 2	20/415 V 50 Hz 2P				
Rated current	: 1	9.1/10.1 A	Moment o	f inertia (J)	: 0.5496 sq.ft.	lb
LRC	: 7	.0	Duty cycle	` '	: Cont.(S1)	
Rated torque	: 1	3.5 ft.lb	Insulation	Insulation class		
Locked rotor torq	ue : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	70 %	Temperatu	ure rise	: 80 K	
Rated speed	: 2	915 rpm	Design		: B	
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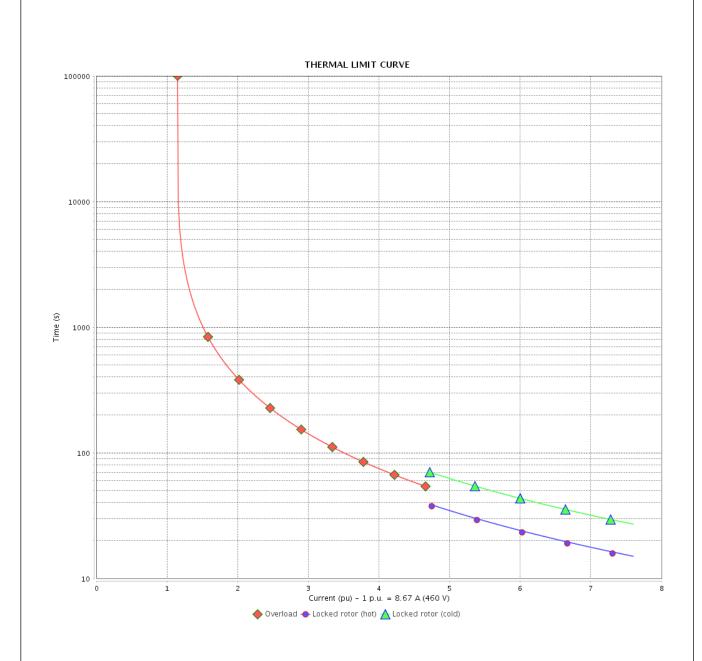


Customer	:	:			·	
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code :	12674950 00736ET3E2	213T-SG
				Catalog # :	00736E13E2	2131-56
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torqu	que :	230/460 V 60 Hz 2P 17.3/8.67 A 7.6 11.2 ft.lb 260 % 300 %	Duty cycle Insulation Service fa Temperatu	class ctor	: 0.5496 sq.ft. : Cont.(S1) : F : 1.15 : 80 K	lb
Rated speed Heating constant Cooling constant Rev.	t	3530 rpm Changes Summary	Design	Performed	: B	Date
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Three Phase Induction Motor - Squirrel Cage



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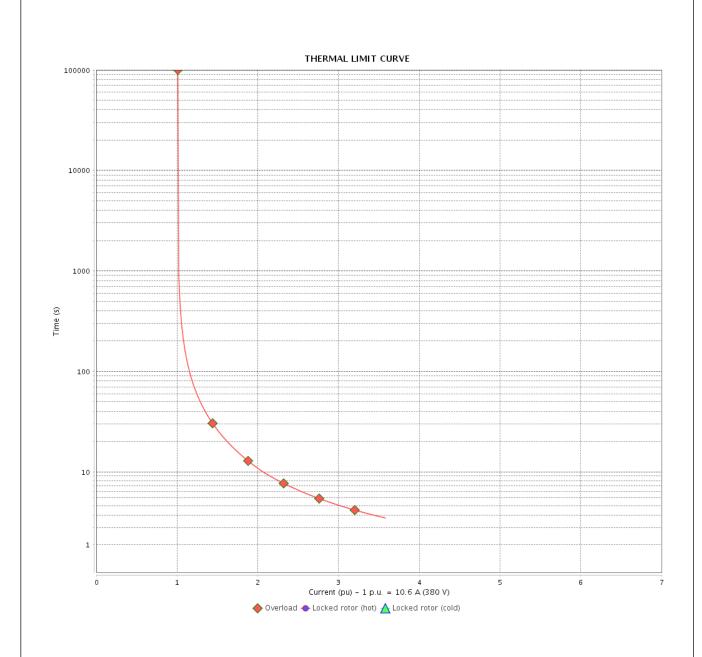


Customer	:			
Product line	: NEMA Premium Efficiency T Phase	Three- Product code : Catalog # :	12674950 00736ET3E213T-	SG
			0070021022101	
Performance Rated current	: 190/380 V 50 Hz 2P : 21.2/10.6 A	Moment of inertia (J)	: 0.5496 sq.ft.lb	
LRC	: 6.3	Duty cycle	: Cont.(S1)	
Rated torque	: 13.6 ft.lb : 190 %	Insulation class Service factor	: F : 1.00	
Locked rotor torque Breakdown torque	: 190 %	Temperature rise	: 1.00 : 105 K	
Rated speed	: 2905 rpm	Design	: B	
Heating constant				
Cooling constant				
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Three Phase Induction Motor - Squirrel Cage



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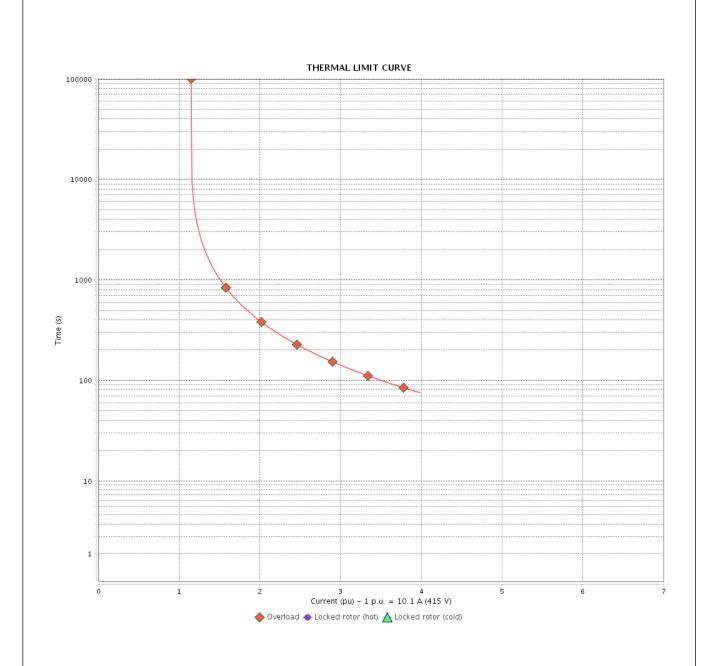


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12674950	407.00
				Catalog # :	00736ET3E2	131-36
Performance		· 220/445 V 50 H= 2D				
Rated current		: 220/415 V 50 Hz 2P : 19.1/10.1 A	Moment o	of inertia (J)	: 0.5496 sq.ft.l	b
LRC		: 7.0	Duty cycle	е	: Cont.(S1)	-
Rated torque Locked rotor tord		: 13.5 ft.lb : 220 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie :	: 270 %	Temperat		: 80 K	
Rated speed		: 2915 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Commercial		Dowforms	Charles	Data
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



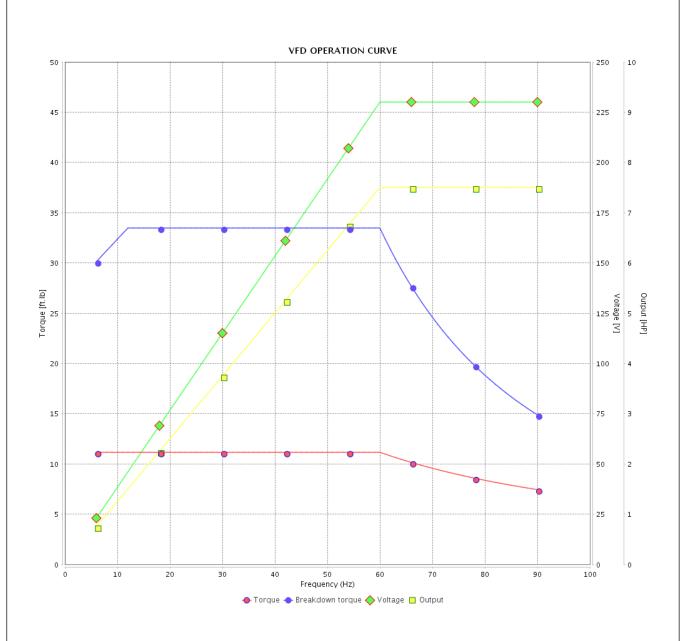
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12674950

Catalog #: 00736ET3E213T-SG



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 17.3/8.67 A : 7.6 : 11.2 ft.lb : 260 % : 300 % : 3530 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.5496 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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Product line : NEMA Premium Efficiency Three- Product code :

Phase

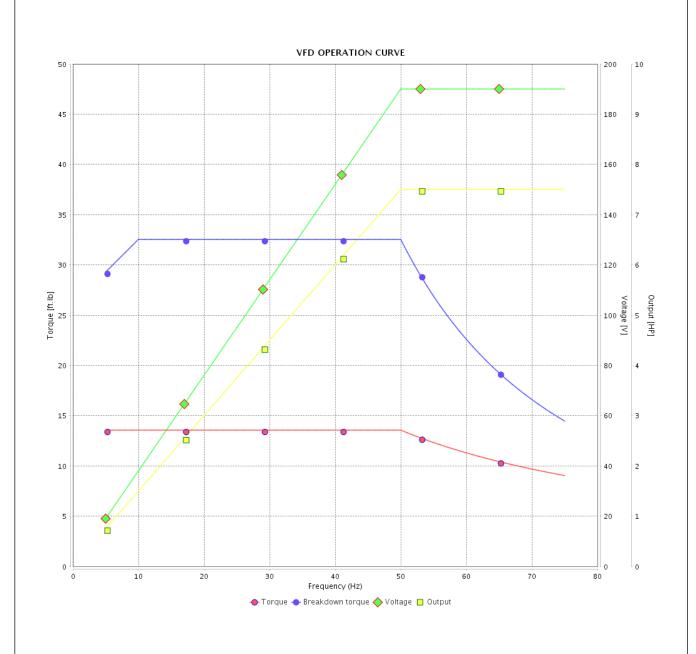
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Revision



Performance	: 190/380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.2/10.6 A : 6.3 : 13.6 ft.lb : 190 % : 240 % : 2905 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.5496 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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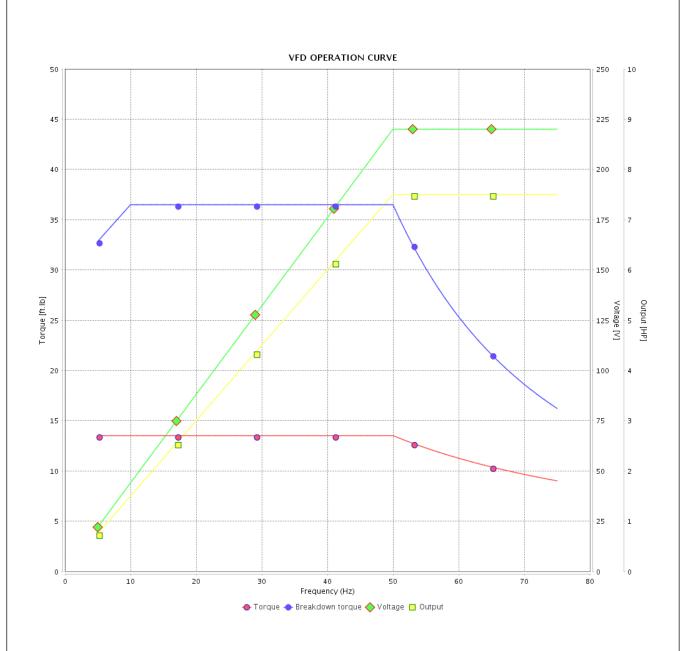
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Product line : NEMA Premium Efficiency Three-

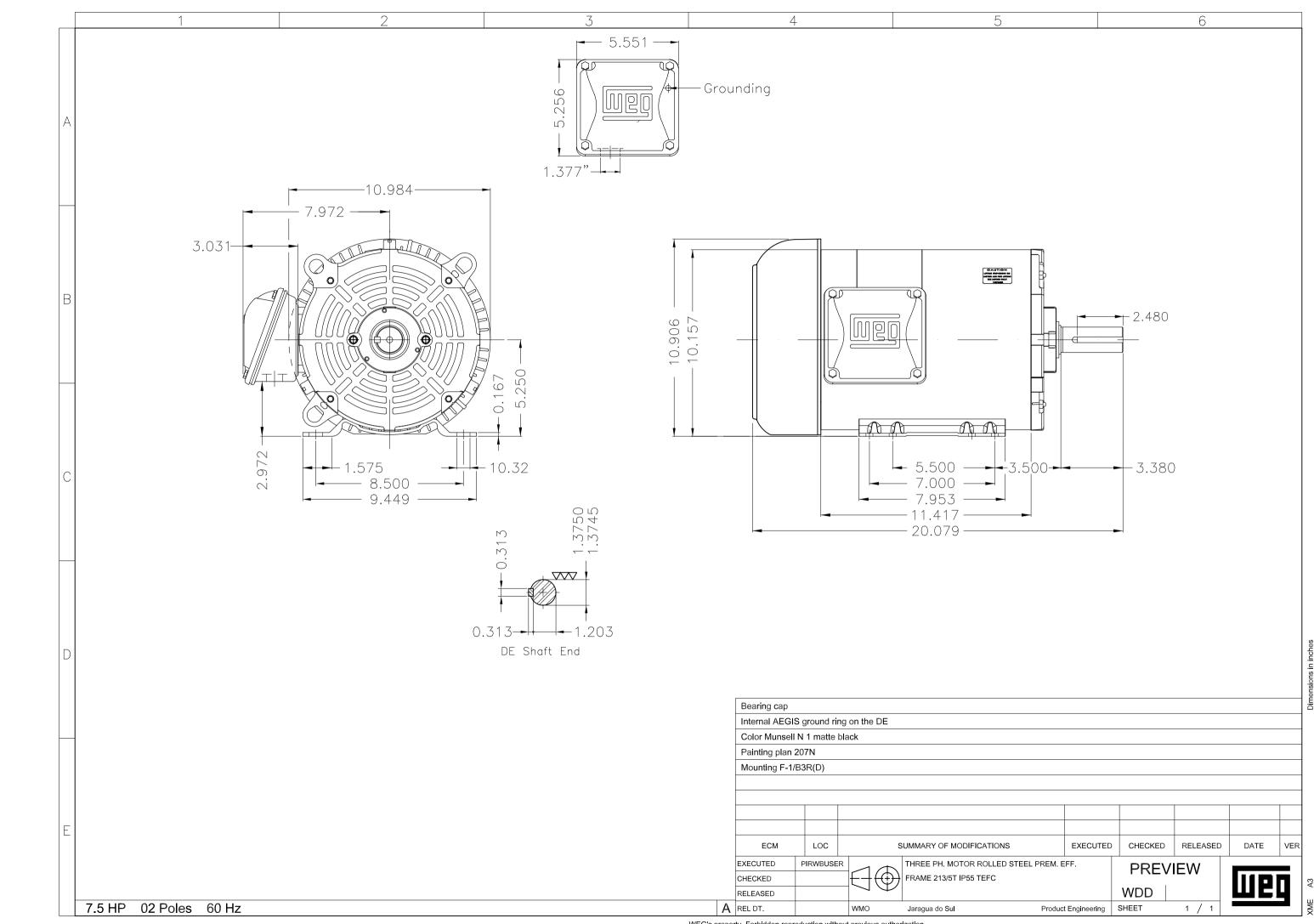
Phase

Product code: 12674950

Catalog #: 00736ET3E213T-SG



Performance : 220/415 V 50 Hz 2P : 19.1/10.1 A Rated current Moment of inertia (J) : 0.5496 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 13.5 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2915 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by







3PT9



& Energy Verifi

> Hz 60 S/N 5MAR2022 213/5T

MODEL 00736ET3E213T-SG

N01.TE0IC0X0N

12674950

MADE IN MÉXICO

P55 CODE SH 1000 m.a.s.l F AT 80K TEFC 0

2000

17.3/8.67 19.9/9.97

230/460 15

CONT

SABLE @ 208V 19.2A ALTERNATE RATING:

SF1.00 INC.

Inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT **2905RPM** ODE 6206-2Z 7.5HP JT6 21.2-18.4/10.6-9.75A

8208-ZZ

MOBIL POLYREX EM

IEC 60034-1

SF1.00

190-220/380-415V

89.5%

NOM EFF

50 Hz

ZPM 3FA 냃 쌆

EFF 88.9%

T2-WHT T6-GRY

11-BLU

T4-YEL

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

T8-RED RED

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

conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical