DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12677338

Phase

Catalog #: 00736ET3ER213TC-S

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

Insulation class : F Mounting : W-6

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 : 144 lb

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Protection degree		: 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 (0/)	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
rower racion	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 : 134 lb Sealing : V'Ring Without Max. compression : 277 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



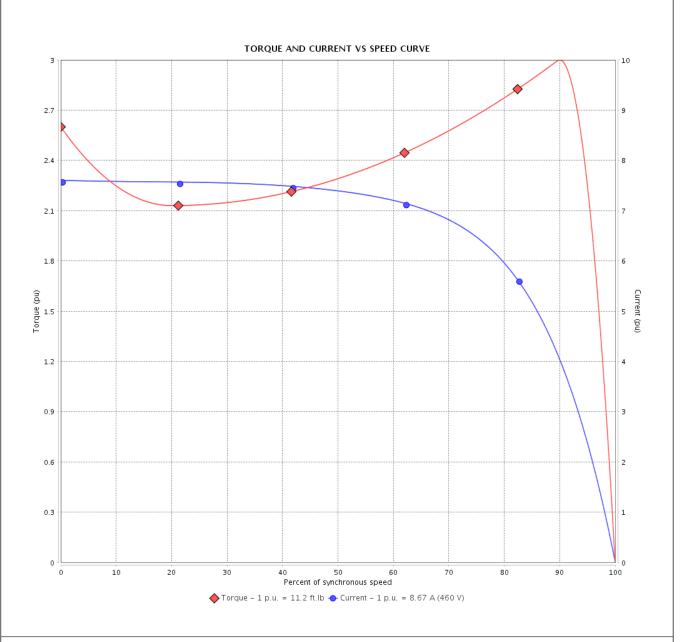
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12677338

Catalog #: 00736ET3ER213TC-S



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) Insulation class Rated torque : 11.2 ft.lb : F Locked rotor torque : 260 % Service factor : 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

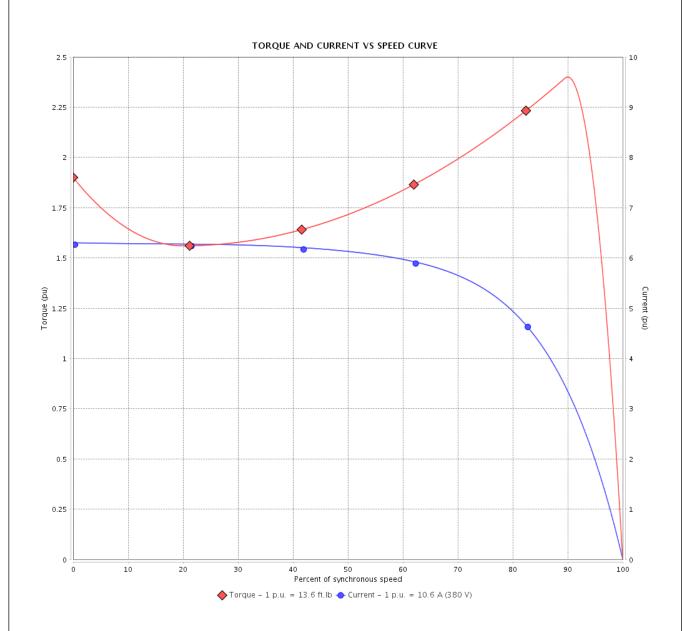
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12677338

Catalog #: 00736ET3ER213TC-S



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 : F Rated torque : 13.6 ft.lb Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K 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



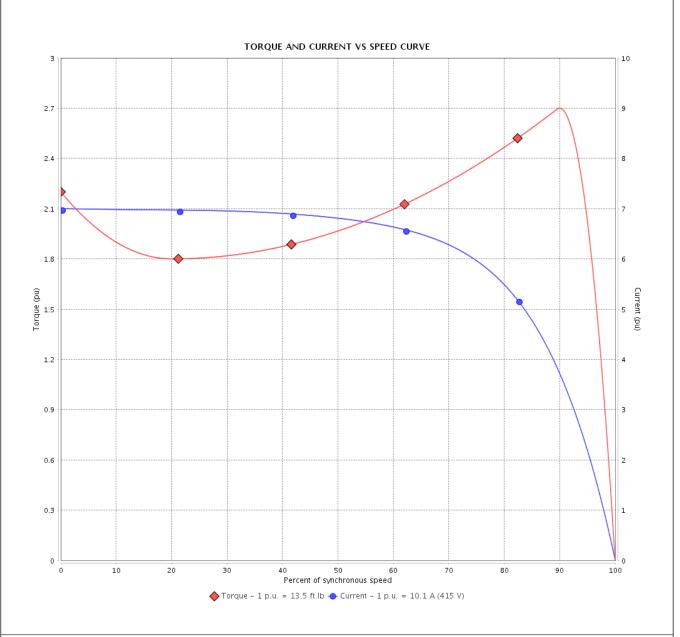
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12677338

Catalog #: 00736ET3ER213TC-S



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 Insulation class Rated torque : 13.5 ft.lb Locked rotor torque : 220 % Service factor : 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

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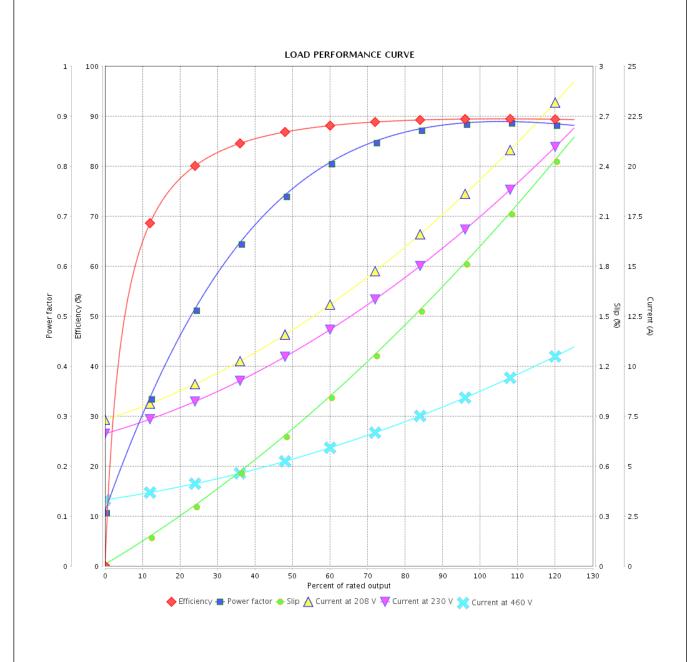


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12677338

Phase

Catalog #: 00736ET3ER213TC-S



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 torque	e :	260 %	Service fa	ctor	: 1.15	
Breakdown torque	:	300 %	Temperature rise		: 80 K	
Rated speed	:	: 3530 rpm		Design		
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LOAD PERFORMANCE CURVE

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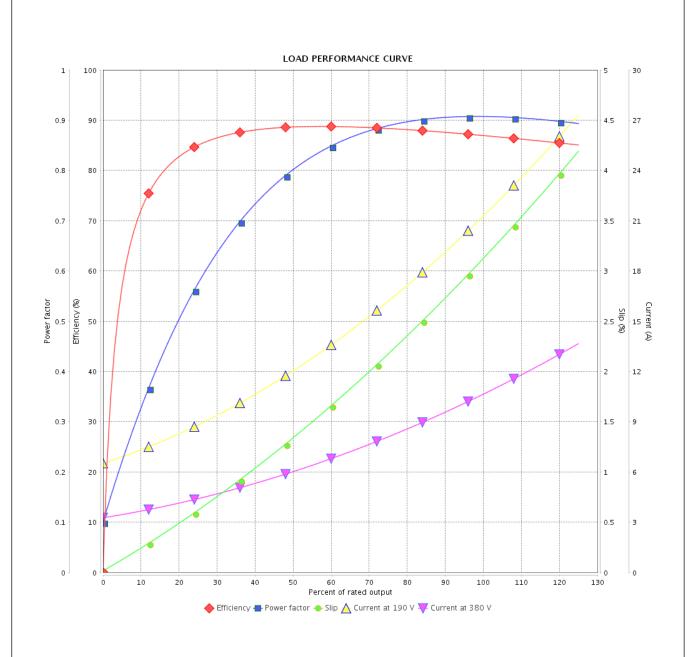


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12677338

Phase

Catalog #: 00736ET3ER213TC-S



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 Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.5496 sq.ft. : Cont.(S1) : F : 1.00 : 105 K : B	lb
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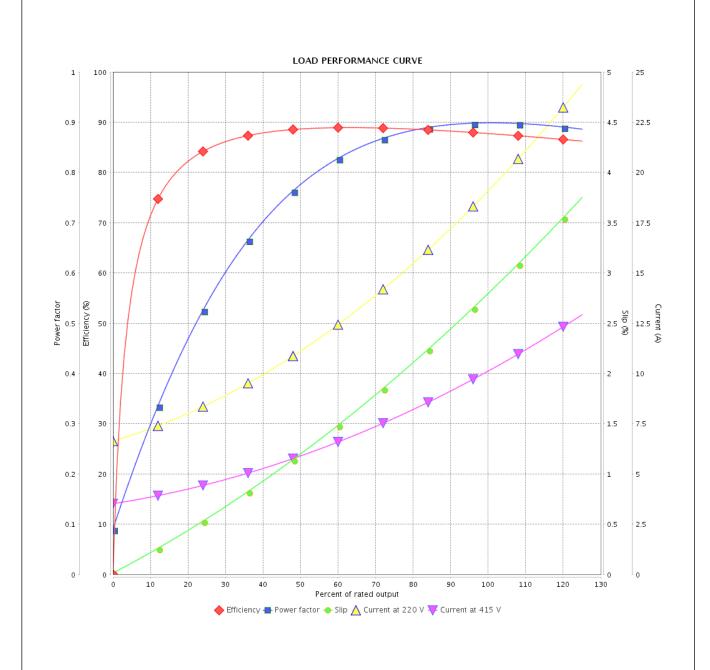


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12677338

Phase

Catalog #: 00736ET3ER213TC-S



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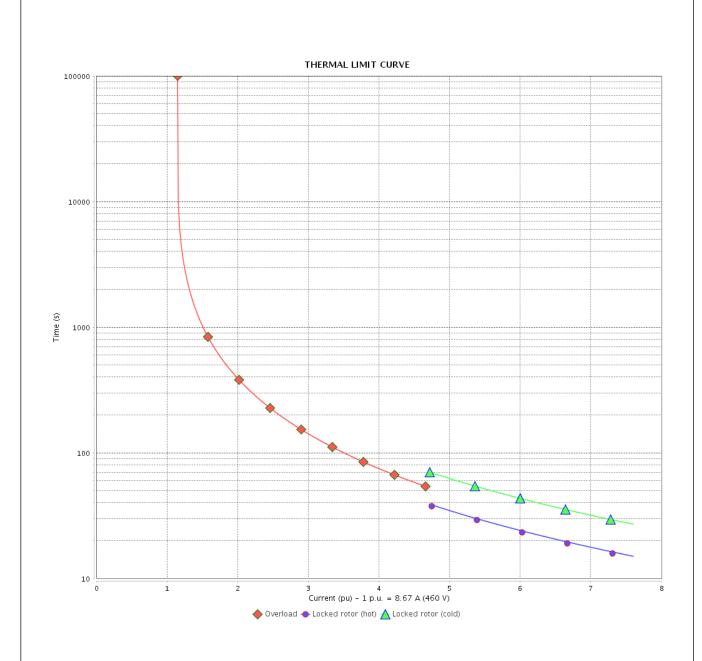


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	12677338 00736ET3EF	3213TC-S
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11 : 7. : 11 : 20 : 30	30/460 V 60 Hz 2P 7.3/8.67 A .6 1.2 ft.lb 60 % 00 % 530 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.5496 sq.ft.l : Cont.(S1) : F : 1.15 : 80 K : B	b
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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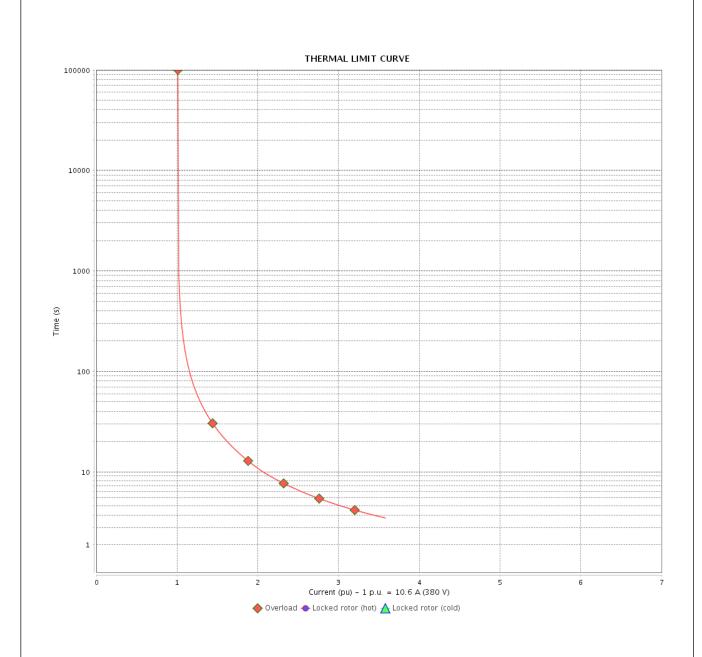


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	12677338 00736ET3ER213TC-S	
Performance	: 190/380 V 50 Hz 2P			
Rated current	: 21.2/10.6 A	Moment of inertia (J)	: 0.5496 sq.ft.lb	
LRC Rated torque	: 6.3 : 13.6 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 240 % : 2905 rpm	Temperature rise Design	: 105 K : B	
Heating constant				
Cooling constant	01			
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Three Phase Induction Motor - Squirrel Cage



Customer



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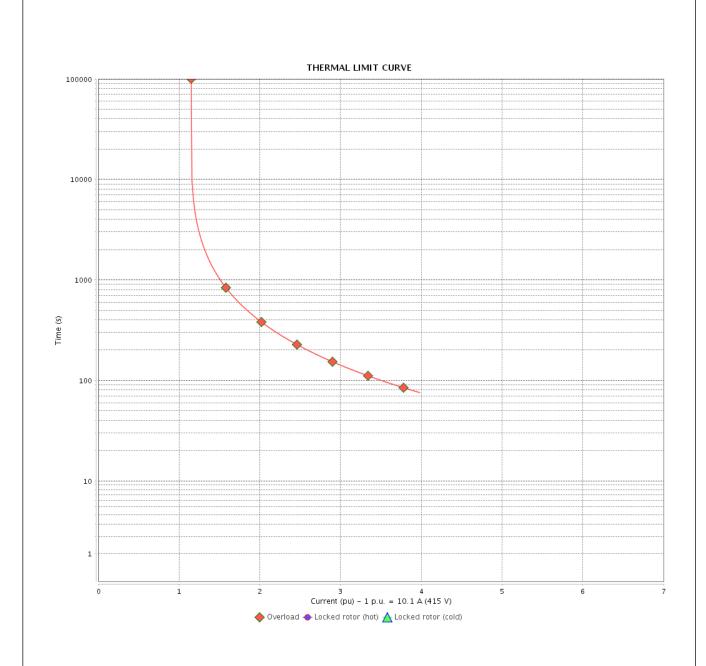


Customer	:					
Product line		NEMA Premium Efficiency [·] hase		Product code :	12677338 00736ET3ER	213TC-S
Performance		20/415 V 50 Hz 2P				
Rated current LRC Rated torque	: 7. : 13	3.5 ft.lb	Duty cycle Insulation	class	: 0.5496 sq.ft.ll : Cont.(S1) : F	0
Locked rotor torque Breakdown torque	: 27	20 % 70 %	Service factorized Temperature		: 1.00 : 80 K	
Rated speed	: 29	915 rpm	Design		: 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

12/04/2022

Product line : NEMA Premium Efficiency Three- Pr

Phase

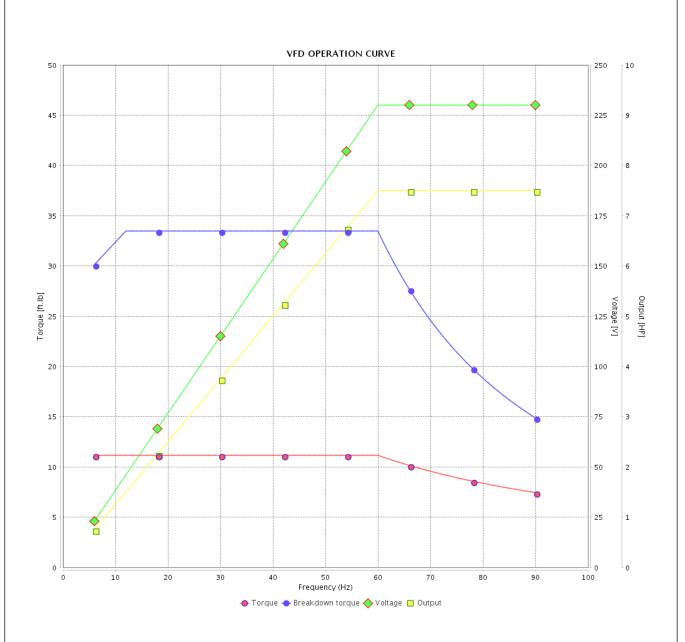
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Catalog #: 00736ET3ER213TC-S

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Revision



Performance	: 2	30/460 V 60 Hz 2P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 1 jue : 2 ie : 3	7.3/8.67 A .6 1.2 ft.lb 60 % 00 % 530 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



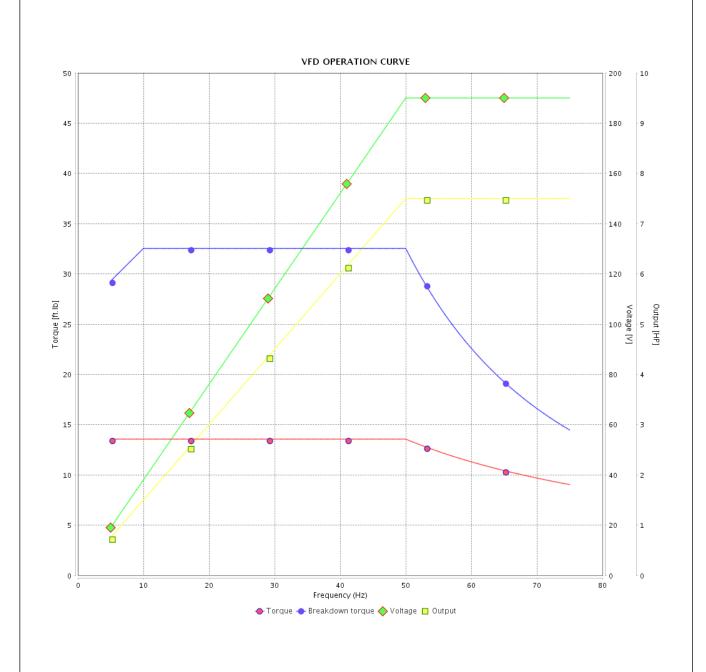
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00736ET3ER213TC-S

12677338



Performance	: 1	190/380 V 50 Hz 2P						
Rated current : 21		1.2/10.6 A	Moment of	Moment of inertia (J)		.lb		
LRC : 6.3		.3	Duty cycle	Duty cycle				
Rated torque : 13		3.6 ft.lb	Insulation class		: F			
Locked rotor torque : 19		90 %	Service fa	Service factor		: 1.00		
Breakdown torque		40 %	Temperat	Temperature rise				
Rated speed	: 2	905 rpm	Design	Design				
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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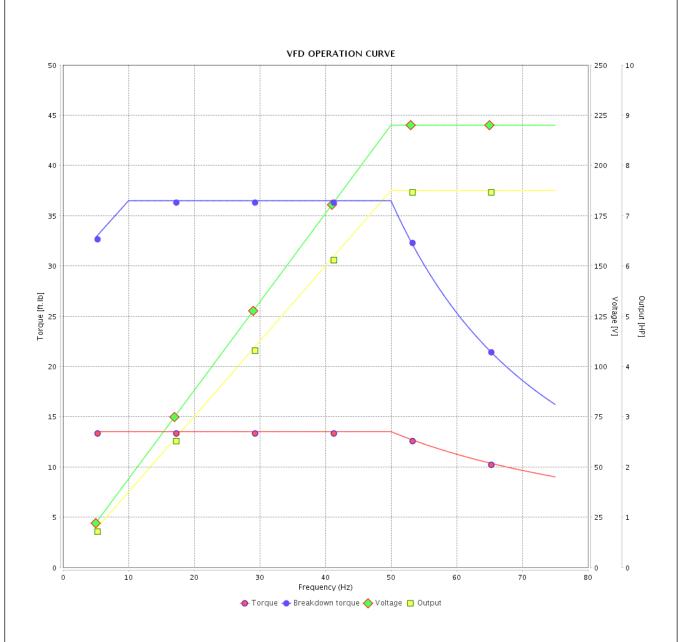
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Product line : NEMA Premium Efficiency Three- Product

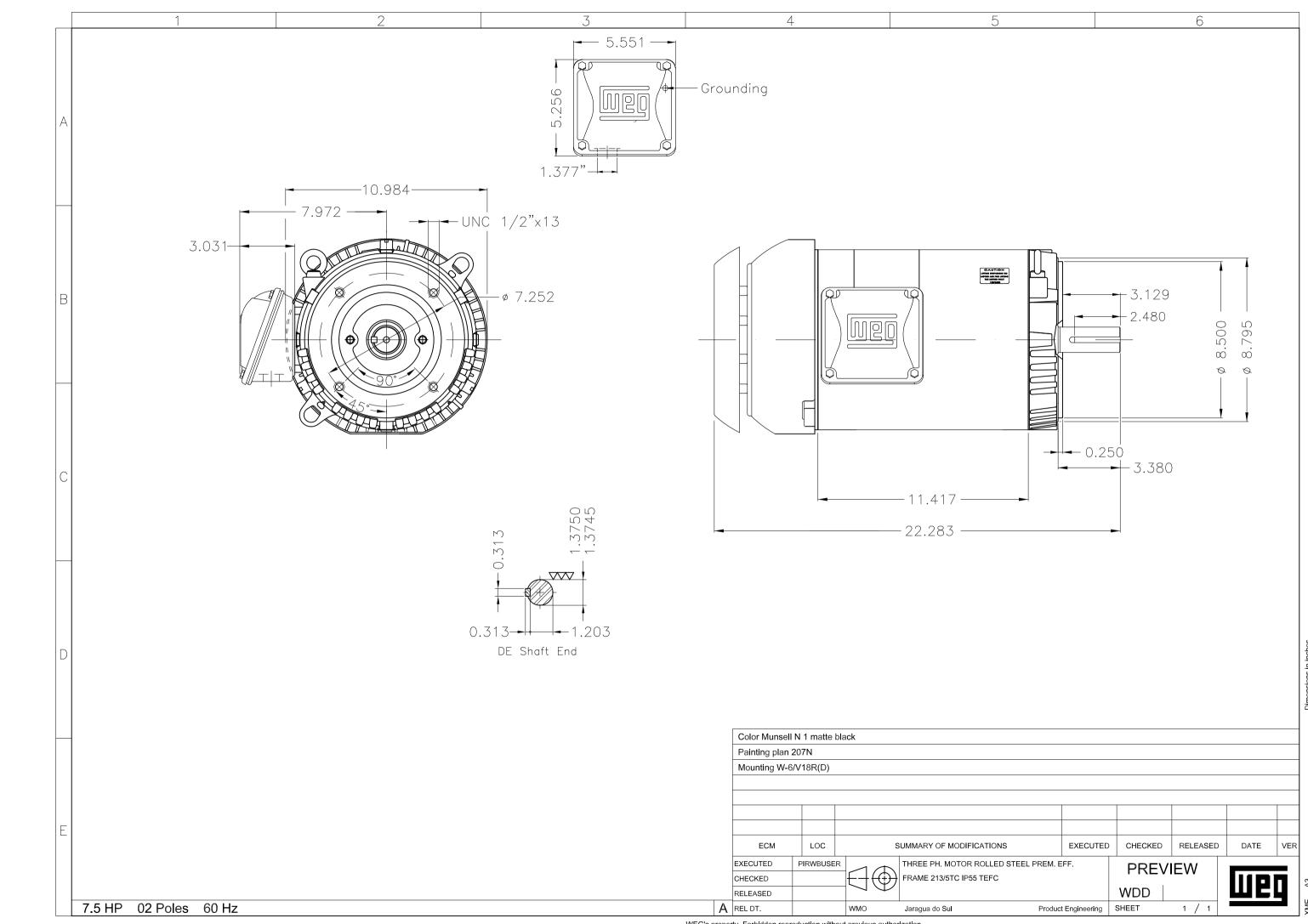
Phase

Product code: 12677338

Catalog #: 00736ET3ER213TC-S



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





Premiur NEX

UL)US LISTED FOR SAFE AREA

& Energy Verifi

3PT9

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1

> MODEL 00736ET3ER213TC-S N01.TE0IC0X0N

12677338

MADE IN MÉXICO

Hz 60 S/N 213/5TC 20APR2022 CONT

P55 1000 m.a.s.l F AT 80K

17.3/8.67 19,9/9.97

> 3FA 냃 쌆

SCI

230/460 1.15

> CODE SHO SABLE @ 208V 19.2A

TEFC 0

7.5HP 21.2-18.4/10.6-9.75A ALTERNATE RATING:

SF1.00 INC. W

89.5%

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT NOM EFF **2905RPM** SPM 50 Hz ZZ-9029 300 JT6

8208-ZZ

IEC 60034-1

E 1

EFF 88.9%

SF1.00

190-220/380-415V

MOBIL POLYREX EM

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

1-BLU

r3-org

T7-PNK T9-BRK T5-BLK

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

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