DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12677341

Phase

Catalog #: 01036ET3ER215TC-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		20 C t0 +40 C	Approx weight3	. Direct Off Lifte
		: 1000 m.a.s.l.	Approx. weight ³	: 169 lb
Protection degre	ee	: IP55 : B	Moment of inertia (J)	: 0.7188 sq.ft.lb
Design		. В		
Output [HP]		10	10	10
Poles		2	2	2
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		23.0/11.5	28.4/14.2	25.1/13.3
L. R. Amperes [A]		173/86.2	173/86.6	171/90.4
LRC [A]		7.5x(Code H)	6.1x(Code G)	6.8x(Code G)
No load current [A	\]	7.53/3.77	7.43/3.71	7.53/3.99
Rated speed [RPI	M]	3530	2900	2910
Slip [%]		1.94	3.33	3.00
Rated torque [ft.lb]	14.9	18.1	18.0
Locked rotor torqu	ıe [%]	260	190	220
Breakdown torque	e [%]	300	229	260
Service factor		1.15	1.00	1.00
Temperature rise		80 K	105 K	105 K
Locked rotor time		21s (cold) 12s (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%	89.3	91.7	91.3
Efficiency (%)	50%	89.5	90.0	90.1
Efficiency (%)	75%	90.2	89.2	89.7
	100%	90.2	87.2	88.2
	25%	0.53	0.59	0.55
Power Factor	50%	50% 0.80 0.85		0.82
1 OWCI I ACIOI	75%	0.88	0.90	0.89
1				

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

0.92

Bearing type : 6208 ZZ 6206 ZZ Max. traction : 180 lb Sealing : V'Ring Without Max. compression : 349 lb

0.91

Bearing Seal

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

Notes

USABLE @208V 25.4A SF 1.00 SFA 25.4A

100%

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.

0.92

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			1 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



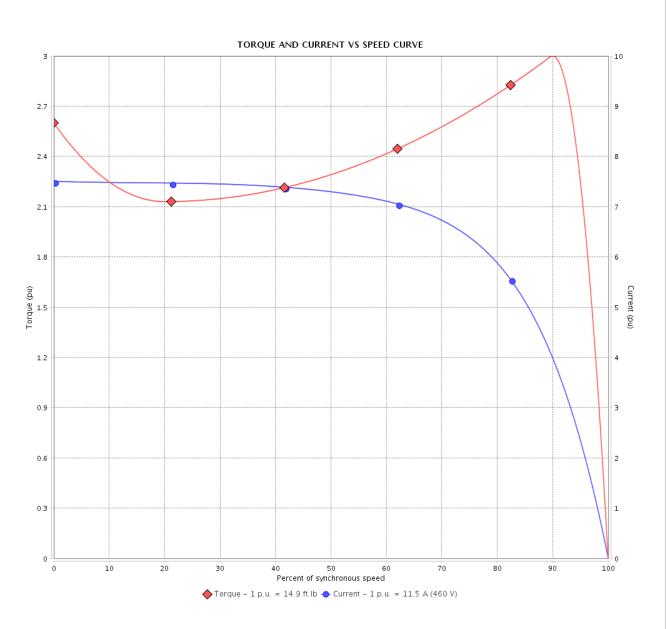
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12677341

Catalog #: 01036ET3ER215TC-S



Performance : 230/460 V 60 Hz 2P Rated current : 23.0/11.5 A Moment of inertia (J) : 0.7188 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : F : 14.9 ft.lb Insulation class Rated torque Locked rotor torque : 260 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 3530 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12677341 Catalog #: 01036ET3ER215TC-S 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. = 18.1 ft.lb ◆ Current - 1 p.u. = 14.2 A (380 V)

Performance : 190/380 V 50 Hz 2P Rated current : 28.4/14.2 A Moment of inertia (J) : 0.7188 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 18.1 ft.lb : 1.00 Locked rotor torque : 190 % Service factor Breakdown torque : 229 % Temperature rise : 105 K : B Rated speed : 2900 rpm Design Locked rotor time : 0s (cold) 0s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			3 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



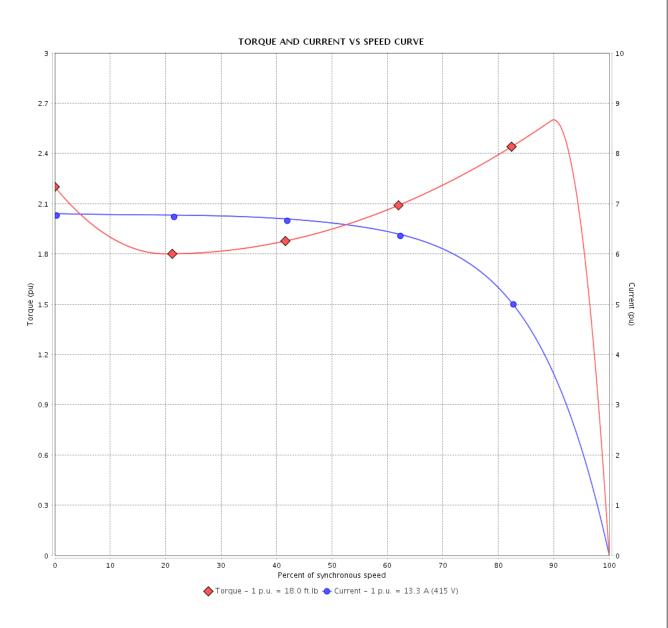
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12677341

Catalog #: 01036ET3ER215TC-S



Performance : 220/415 V 50 Hz 2P Rated current : 25.1/13.3 A Moment of inertia (J) : 0.7188 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 18.0 ft.lb : F Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 2910 rpm Design : B

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			4 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

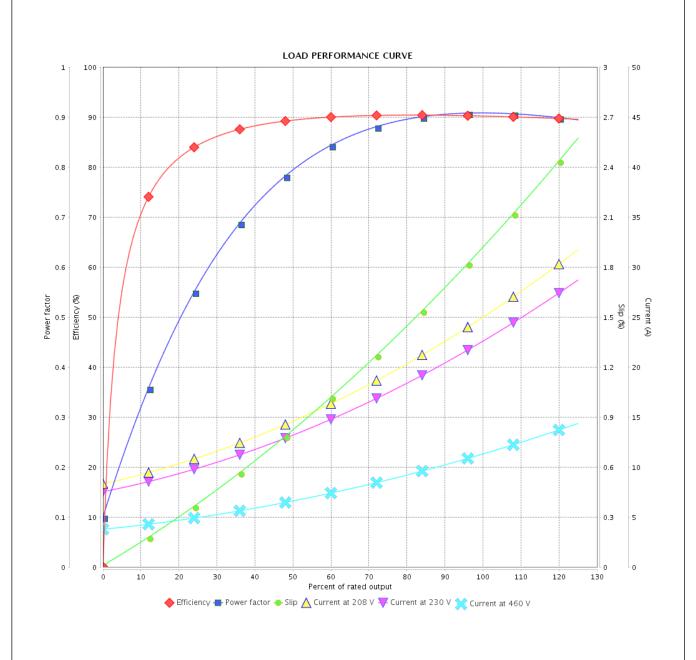


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12677341

Phase

Catalog #: 01036ET3ER215TC-S



Performance	erformance : 230/460 V 60 Hz 2P					
Rated current	: 2	23.0/11.5 A	Moment o	f inertia (J)	: 0.7188 sq.ft.	.lb
LRC	: 7	7.5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	14.9 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	260 %	Service fa	ctor	: 1.15	
Breakdown torque		300 %	Temperatu	Temperature rise		
Rated speed	: 3	530 rpm Design			: B	
Rev.		Changes Summary	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				5 / 16	

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Three Phase Induction Motor - Squirrel Cage



Customer :

Date

12/04/2022

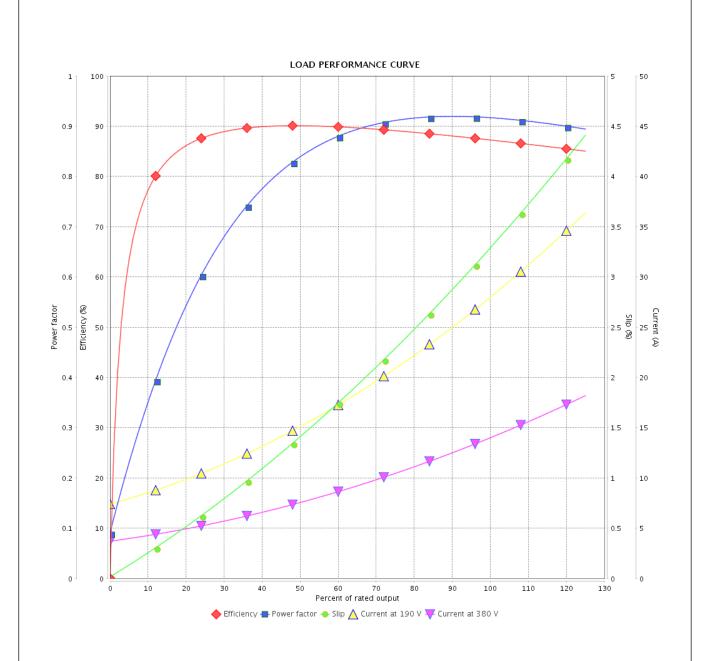
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01036ET3ER215TC-S

12677341

6/16



Performance : 190/380 V 50 Hz 2P : 28.4/14.2 A Rated current Moment of inertia (J) : 0.7188 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 Insulation class Rated torque : 18.1 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2900 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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Three Phase Induction Motor - Squirrel Cage

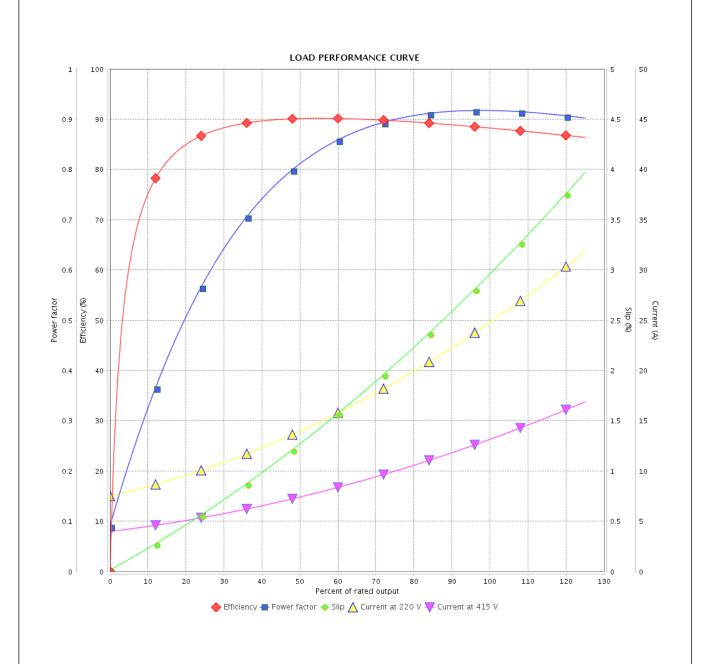


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12677341

Phase

Catalog #: 01036ET3ER215TC-S



Performance : 220/415 V 50 Hz 2P						
		5.1/13.3 A	l l	f inertia (J)	: 0.7188 sq.ft.lb	
LRC Rated torque	: 6	8.0 ft.lb	Duty cycle		: Cont.(S1) : F	
Locked rotor torque		20 %	Service fa		: 1.00	
Breakdown torque		60 %	Temperati	Temperature rise		
Rated speed	: 2	910 rpm Design		: B		
Rev.		Changes Summary	/	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				7 / 16	

Three Phase Induction Motor - Squirrel Cage

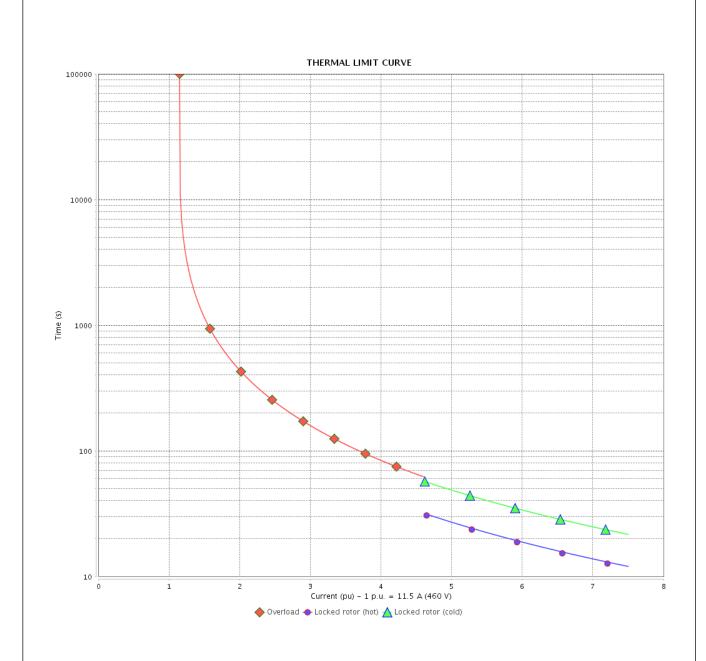


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	12677341	
			-	Catalog # :	01036ET3EF	R215TC-S
Performance	: 23	30/460 V 60 Hz 2P				
Rated current	: 23	3.0/11.5 A	Moment o	f inertia (J)	: 0.7188 sq.ft.l	b
LRC Rated torque	: 7. · 14	5 4.9 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torqu	e : 26	60 %	Service fa	ctor	: 1.15	
Breakdown torque	: 30	00 %	Temperatu	ıre rise	: 80 K : B	
Rated speed		530 rpm	Design		. D	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			9 / 16	

Three Phase Induction Motor - Squirrel Cage

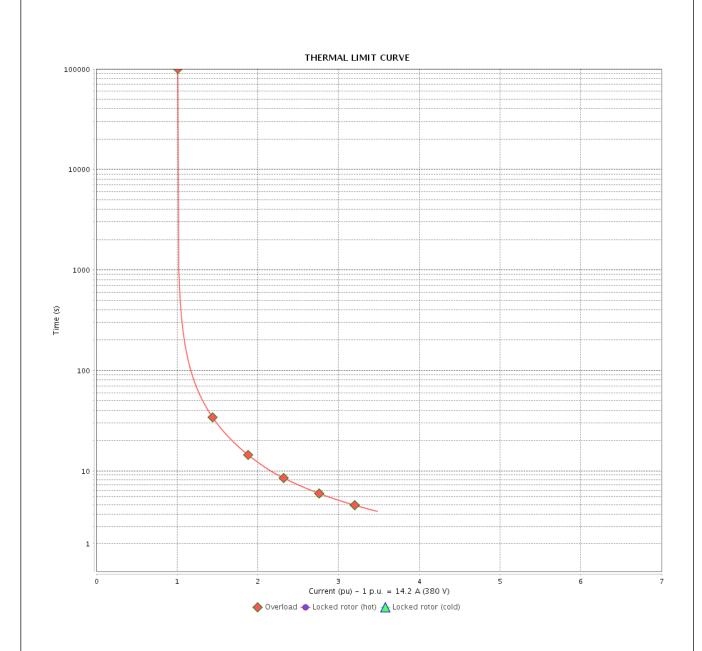


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	12677341 01036ET3ER2	
Performance	: 190/380 V 50 Hz 2P			
Rated current	: 28.4/14.2 A	Moment of inertia (J)	: 0.7188 sq.ft.lb	
LRC Rated torque	: 6.1 : 18.1 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 229 % : 2900 rpm	Temperature rise Design	: 105 K : B	
Heating constant				
Cooling constant				
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
	04/2022		10 / 16	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			11 / 16	

Three Phase Induction Motor - Squirrel Cage

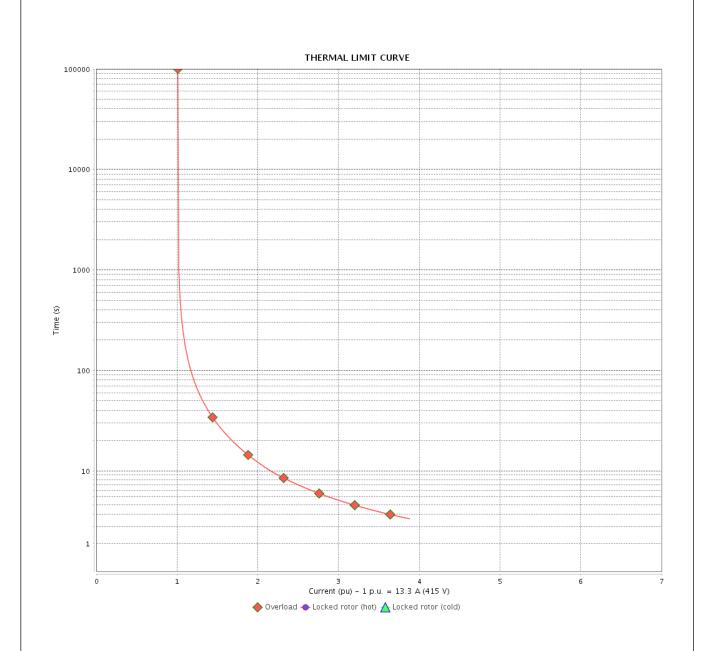


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12677341	
		i ilase		Catalog # :	01036ET3ER	215TC-S
Performance		: 220/415 V 50 Hz 2P				
Rated current LRC		: 25.1/13.3 A : 6.8	Duty cycle		: 0.7188 sq.ft.ll : Cont.(S1)	0
Rated torque		: 18.0 ft.lb	Insulation		: F	
Locked rotor tord Breakdown torqu		: 220 % : 260 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 2910 rpm	Design		: B	
Heating constan						
Cooling constant	l .	Changes Summers		Performed	Checked	Date
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Date	12/04/2022				12 / 16	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			13 / 16	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

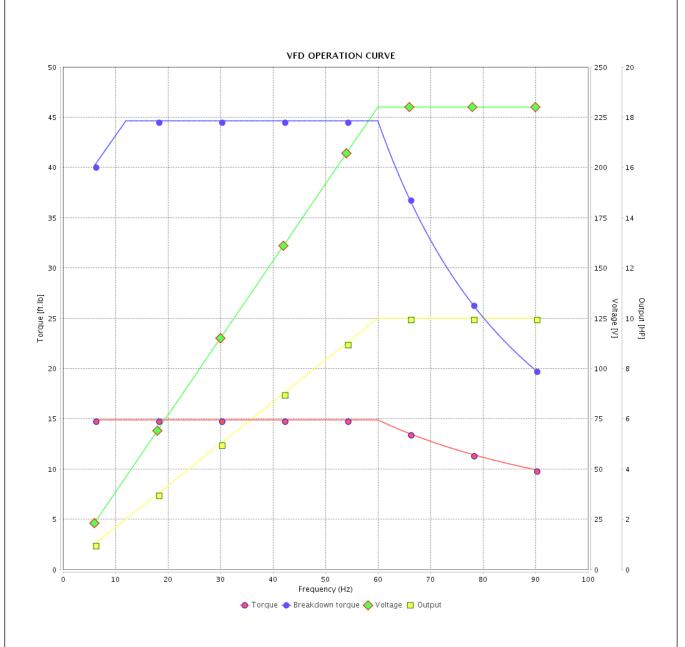
Product code: 12677341

Catalog #: 01036ET3ER215TC-S

Page

14/16

Revision



Performance		: 230/460 V 60 H	lz 2P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 23.0/11.5 A : 7.5 : 14.9 ft.lb : 260 % : 300 % : 3530 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.7188 sq.ft.l : Cont.(S1) : F : 1.15 : 80 K : B	b
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VFD OPERATION CURVE

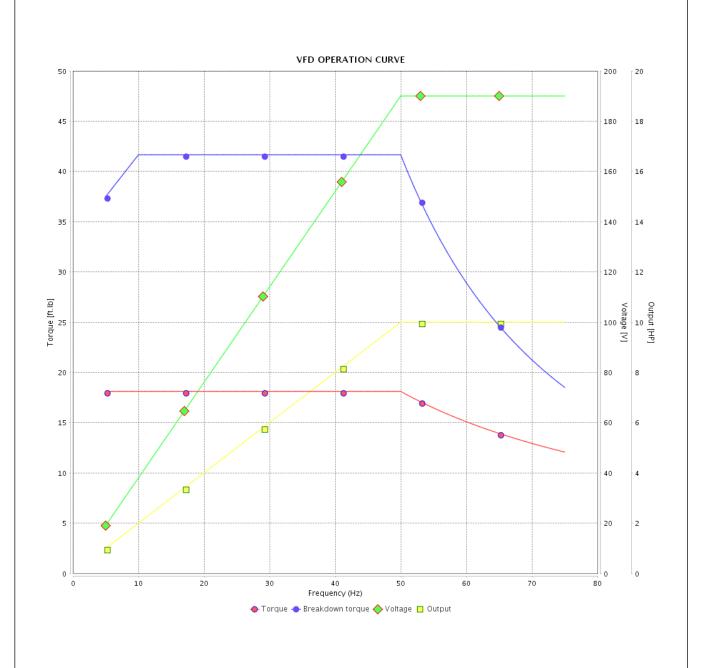
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12677341

01036ET3ER215TC-S Catalog #:



Performance :		: 190/380 V 50 Hz 2P						
Rated current :		28.4/14.2 A	Moment of inertia (J)		: 0.7188 sq.ft.lb			
LRC : 6		3.1	Duty cycle	Duty cycle		: Cont.(S1)		
Rated torque		18.1 ft.lb	Insulation	Insulation class		:F		
Locked rotor torque		190 %	Service fa	Service factor		: 1.00		
Breakdown torque	: 2	229 %	Temperati	Temperature rise		: 105 K		
Rated speed	: 2	2900 rpm	Design		: B			
Rev.	Changes Summary			Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	12/04/2022				15 / 16			

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



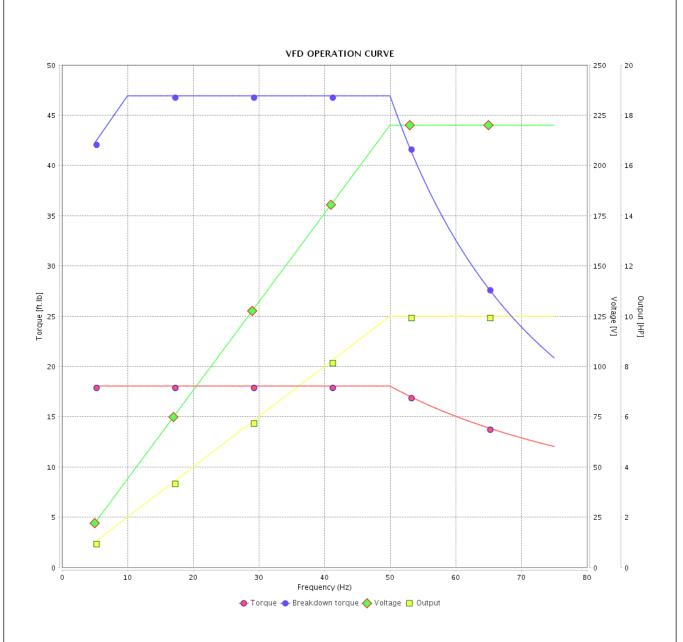
Customer :

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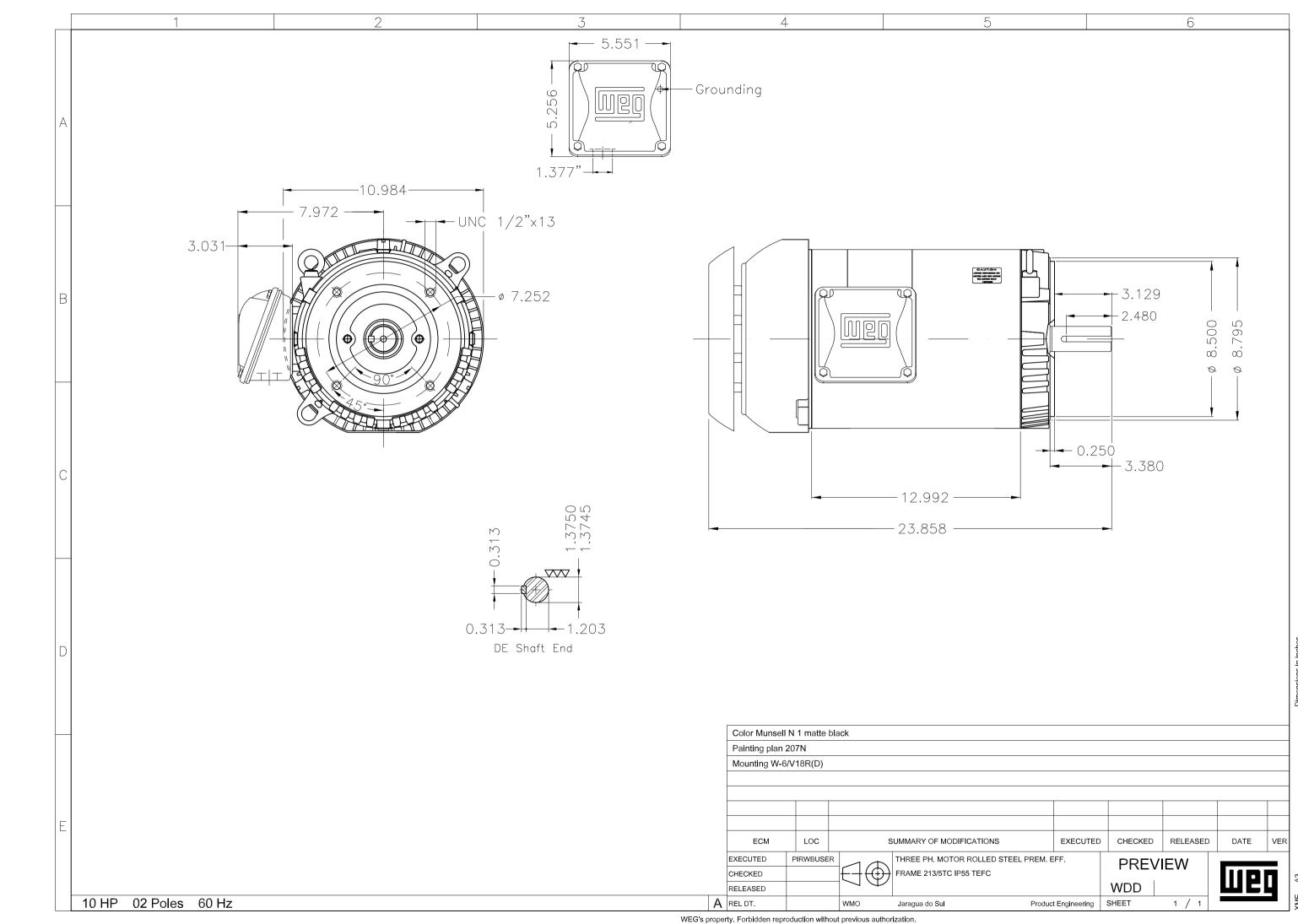


Performance	: 220/415 V 50 Hz 2P						
Rated current	: 25.1/13.3 A	Moment of inertia (J)		: 0.7188 sq.ft.lb			
LRC	: 6.8	Duty cycle		: Cont.(S1)			
Rated torque	: 18.0 ft.lb	Insulation class Service factor		: F : 1.00 : 105 K			
Locked rotor torque	: 220 %						
Breakdown torque	: 260 % Temperature		e rise				
Rated speed	: 2910 rpm	Design		: B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

16 / 16

12/04/2022

Date





MADE IN MÉXICO

ZEZ

3PT9

MODEL 01036ET3ER215TC-S N01.TE0IC0X0N 12677341

Hz 60 S/N 25FEB2022

P55 SH 1000 m.a.s.l F AT 80K 213/5TC CONT 0

SCI

23.0/11.5 26.4/13.2

230/460 1.15

> 큠 CODE 28.4-24.3/14.2-12.9A SABLE @ 208V 25.4A ALTERNATE RATING:

SF1.00 INC. W

TEFC

ODE 6206-22 JT6

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

& Energy Verifi **UL)**US LISTED

FOR SAFE AREA

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 CT 2:1/VT 1000:1

Div 2 Inverter Duty (SF1.00)

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 10:1 CT T2-WHT

1-BLU

IEC 60034-1

E 1

EFF 87.2%

MOBIL POLYREX EM

8208-ZZ

SF1.00

190-220/380-415V

90.2%

NOM EFF NEMA 2900RPM

50 Hz

SPM 3FA 냃 쌆

T4-YEL r3-org T7-PNK T9-BRK T5-BLK

T6-GRY T8-RED

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

conformément aux codes électriques locaux et nationaux ann d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre