DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14122310

Catalog #: 01018ET3E215TC-S

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

Insulation class Mounting : W-6

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

: -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 141 lb Altitude Protection degree : IP55 Moment of inertia (J) : 1.07 sq.ft.lb

Design	: B		
Output [HP]	10	7.5	7.5
Poles	4	4	4
Frequency [Hz]	60	50	50
Rated voltage [V]	230/460	190/380	220/415
Rated current [A]	24.4/12.2	22.4/11.2	20.8/11.0
L. R. Amperes [A]	171/85.4	170/85.1	172/91.3
LRC [A]	7.0x(Code H)	7.6x(Code J)	8.3x(Code K)
No load current [A]	11.1/5.54	10.9/5.46	11.3/5.97
Rated speed [RPM]	1760	1465	1470
Slip [%]	2.22	2.33	2.00
Rated torque [ft.lb]	29.8	26.9	26.8
Locked rotor torque [%]	250	250	290
Breakdown torque [%]	300	320	360
Service factor	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K
Locked rotor time	27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²	60.0 dB(A)	57.0 dB(A)	57.0 dB(A)
25%	90.2	90.4	89.3
Efficiency (%) 50%	91.0	90.1	89.4
75%	91.0	90.7	90.5
1009	6 91.7	90.1	90.3
25%	0.41	0.38	0.34
Power Factor 50%	0.67	0.64	0.59
75%	0.78	0.76	0.73
1009	6 0.84	0.83	0.80

Drive end Non drive end Foundation loads

Bearing type 6208 ZZ 6206 ZZ Max. traction : 474 lb Sealing V'Ring V'Ring Max. compression : 614 lb

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 27.0A SF 1.00 SFA 27.0A

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



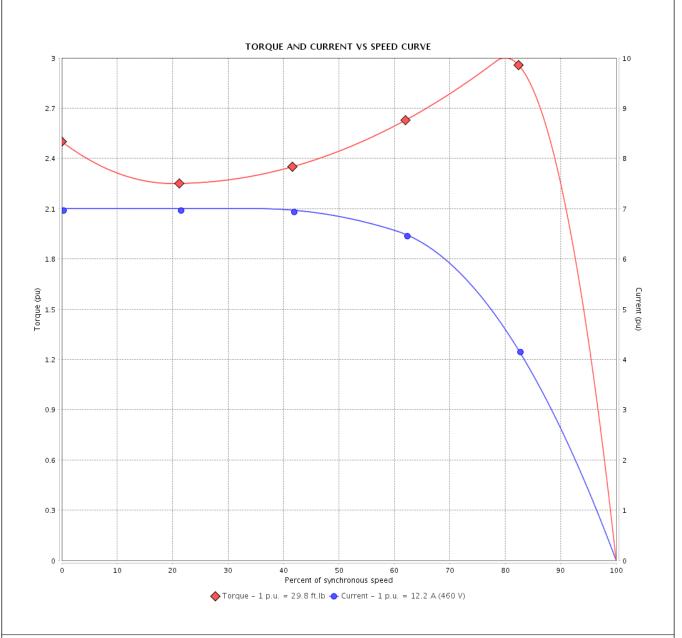
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14122310

Catalog #: 01018ET3E215TC-S



Performance : 230/460 V 60 Hz 4P Rated current : 24.4/12.2 A Moment of inertia (J) : 1.07 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 29.8 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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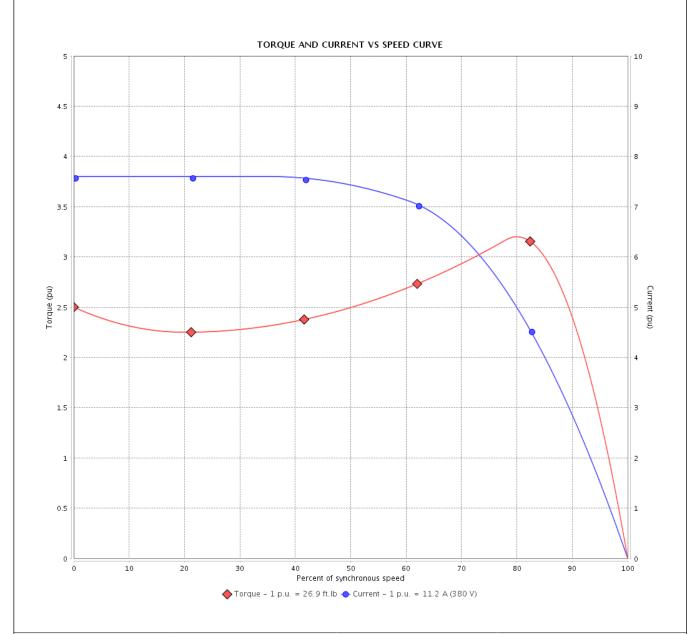
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three-Product code : 14122310
Phase Catalog # : 01018ET3E215TC-S



Performance	: 190/380 V 50 Hz 4P			
Rated current	: 22.4/11.2 A	Moment of inertia (J)	: 1.07 sq.ft.lb	
LRC	: 7.6	Duty cycle	: Cont.(S1)	
Rated torque	: 26.9 ft.lb	Insulation class	:F	
Locked rotor torque	: 250 %	Service factor	: 1.15	
Breakdown torque	: 320 %	Temperature rise	: 80 K	
Rated speed	: 1465 rpm	Design	: B	
Locked rotor time	: 0s (cold) 0s (hot)			

Locked rotor time		3 (6014) 63 (1161)			
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

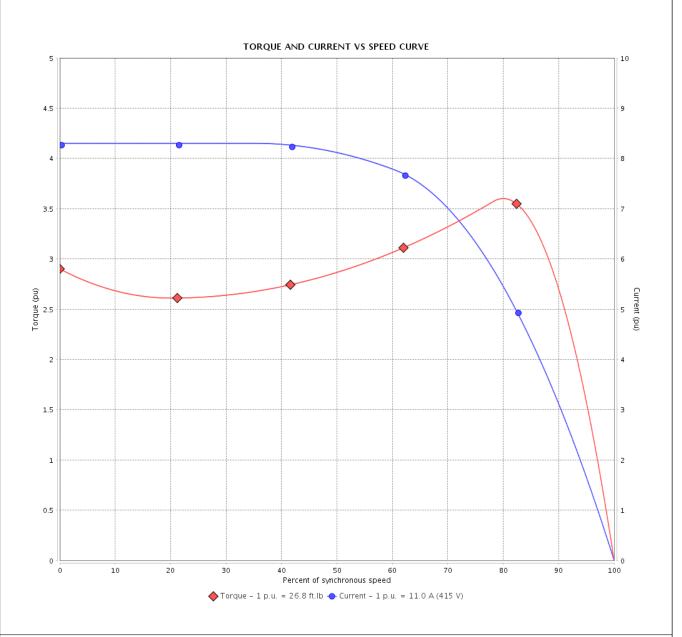


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14122310

Phase

Catalog #: 01018ET3E215TC-S



Performance : 220/415 V 50 Hz 4P Rated current : 20.8/11.0 A Moment of inertia (J) : 1.07 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 26.8 ft.lb : F Service factor Locked rotor torque : 290 % : 1.15 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

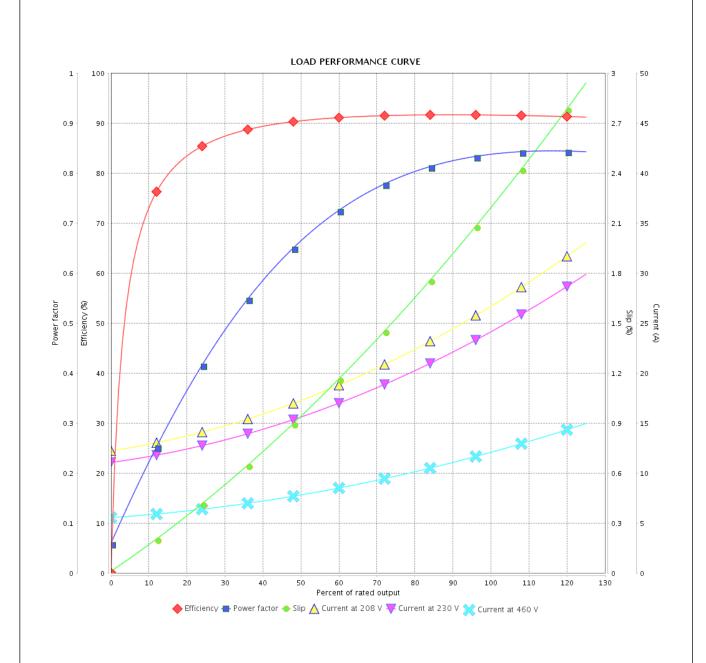
Date

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Product line : NEMA Premium Efficiency Three- Product code : 14122310

Phase

Catalog #: 01018ET3E215TC-S



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 24.4/12.2 A : 7.0 : 29.8 ft.lb : 250 % : 300 % : 1760 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class	: 1.07 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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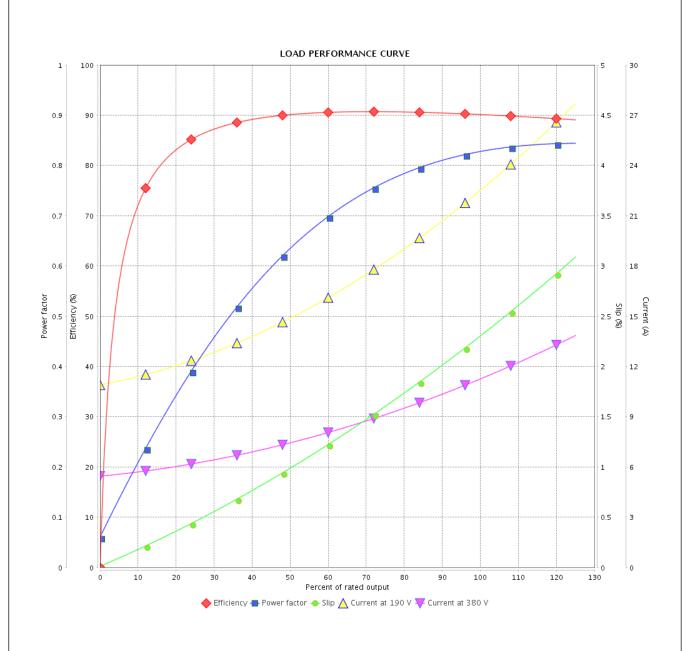
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14122310

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Revision



Performance	 : 190/380 V 50 Hz 4	IP			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 22.4/11.2 A : 7.6 : 26.9 ft.lb : 250 % : 320 % : 1465 rpm	Moment of Duty cycle Insulation Service for Temperate Design	class actor	: 1.07 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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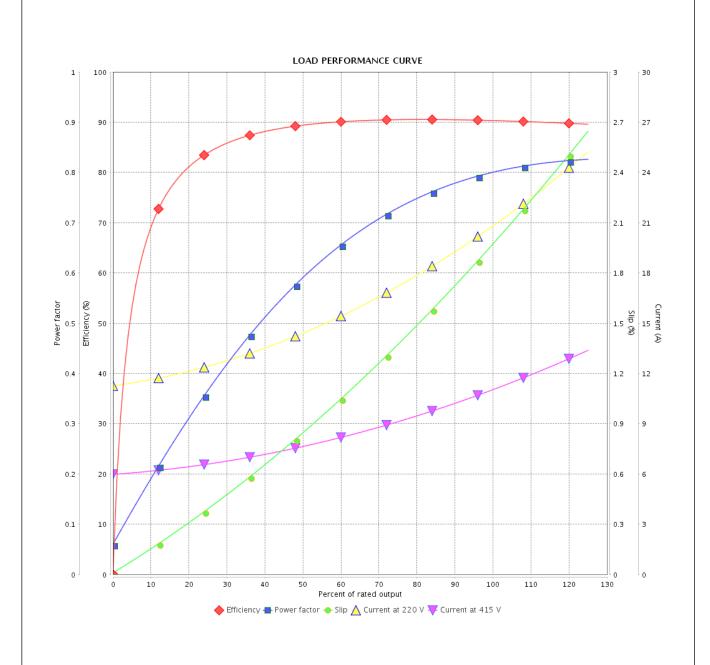


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Product line : NEMA Premium Efficiency Three- Product code : 14122310

Phase

Catalog #: 01018ET3E215TC-S



Performance	: 220/415 V 50 Hz 4P	4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.8/11.0 A : 8.3 : 26.8 ft.lb : 290 % : 360 % : 1470 rpm	Duty cycle : C Insulation class : F Service factor : 1. Temperature rise : 80		: 1.07 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	: Cont.(S1) : F : 1.15 : 80 K	
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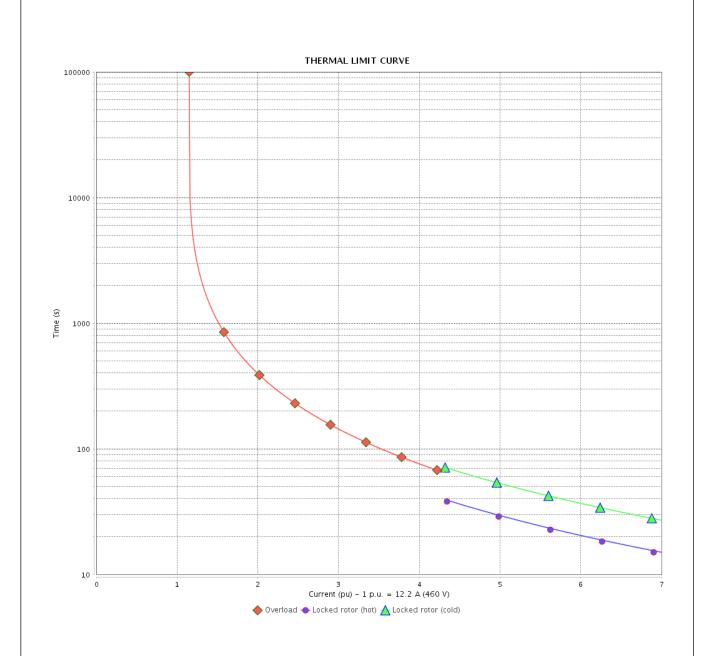


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Product line	: NEMA Premium Efficiency Phase		duct code :	14122310 01018ET3E215	TC-S
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 230/460 V 60 Hz 4P : 24.4/12.2 A : 7.0 : 29.8 ft.lb : 250 % : 300 % : 1760 rpm	Moment of ind Duty cycle Insulation cla Service factor Temperature Design	ss r rise	: 1.07 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary			Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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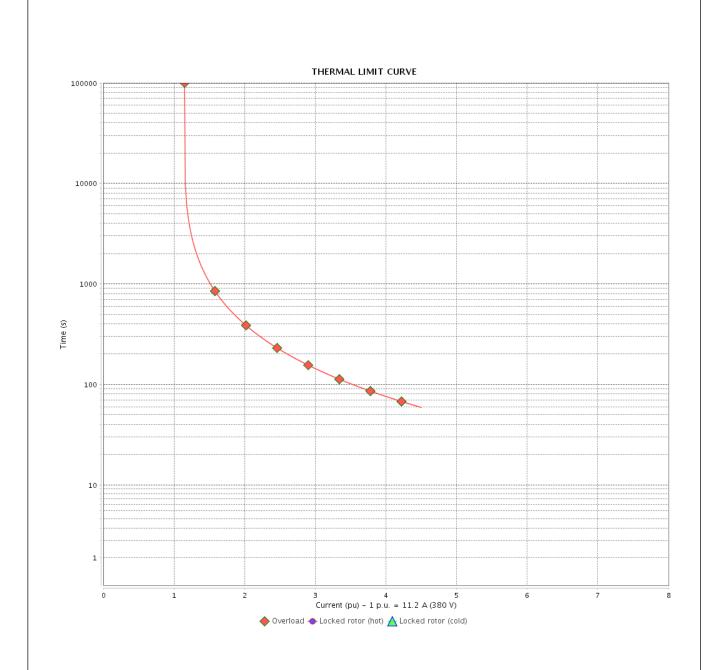


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Product line	: 1	NEMA Premium Efficiency	Three-	Product code :	14122310	
		hase				1570.0
				Catalog # :	01018ET3E2	151C-S
Performance	: 19	90/380 V 50 Hz 4P				
Rated current	: 22	2.4/11.2 A	Moment o	f inertia (J)	: 1.07 sq.ft.lb	
LRC	: 7.		Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torque		6.9 ft.lb 50 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 32	20 %	Temperatu		: 80 K	
Rated speed	: 14	465 rpm	Design		: B	
Heating constant						
Cooling constant		01 0		.		
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

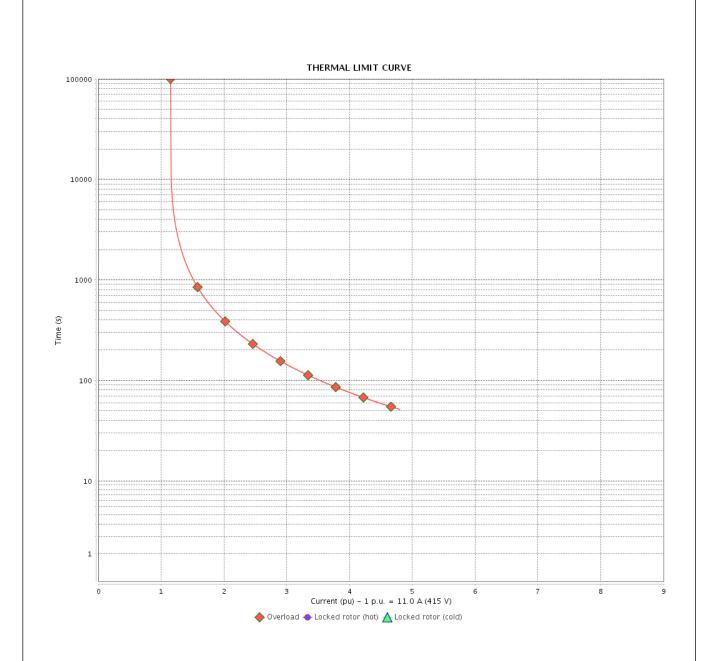


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Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	14122310	
		i ilase		Catalog # :	01018ET3E21	I5TC-S
Performance	<u> </u>	: 220/415 V 50 Hz 4P				
Rated current		: 20.8/11.0 A	Moment of	of inertia (J)	: 1.07 sq.ft.lb	
LRC		: 8.3	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor torc		: 26.8 ft.lb : 290 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		: 360 %	Temperat		: 80 K	
Rated speed		: 1470 rpm	Design		: B	
Heating constant						
Cooling constant	t					
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Three Phase Induction Motor - Squirrel Cage



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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-

Phase

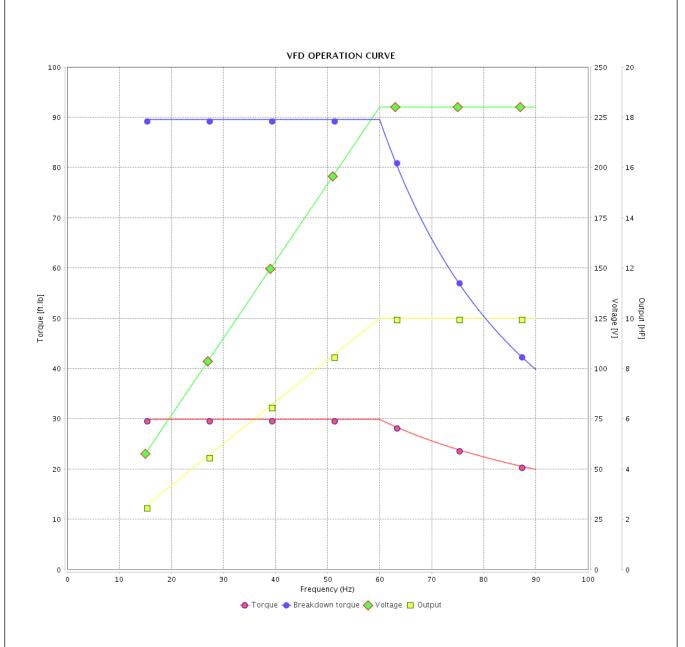
Product code: 14122310

Catalog #: 01018ET3E215TC-S

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Performance		: 230/460 V 60 H	z 4P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que	: 24.4/12.2 A : 7.0 : 29.8 ft.lb : 250 % : 300 % : 1760 rpm	Duty of Insula Servio	tion class re factor erature rise	: 1.07 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



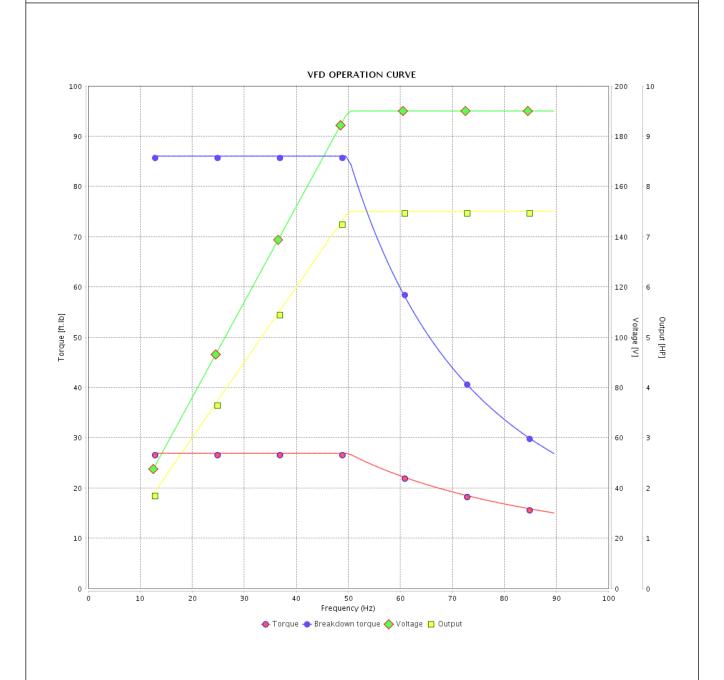
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01018ET3E215TC-S

14122310



Performance	: 1	90/380 V 50 Hz 4P				
Rated current : 22.4/11.2 A		Moment of	Moment of inertia (J)			
LRC : 7.6		.6		Duty cycle		
		6.9 ft.lb	, , ,	Insulation class		
Locked rotor torqu	ue : 2	50 %	Service fa	Service factor		
•		20 %	Temperat	Temperature rise		
Rated speed	: 1	465 rpm	Design		: B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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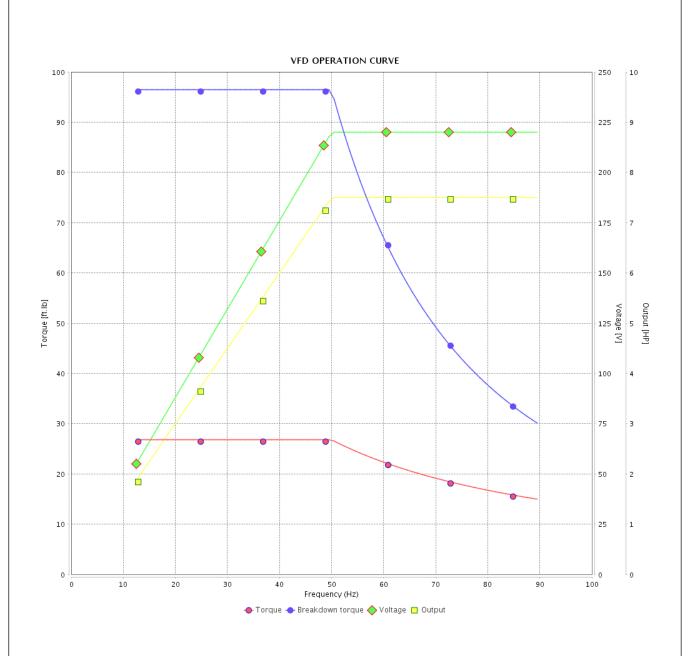
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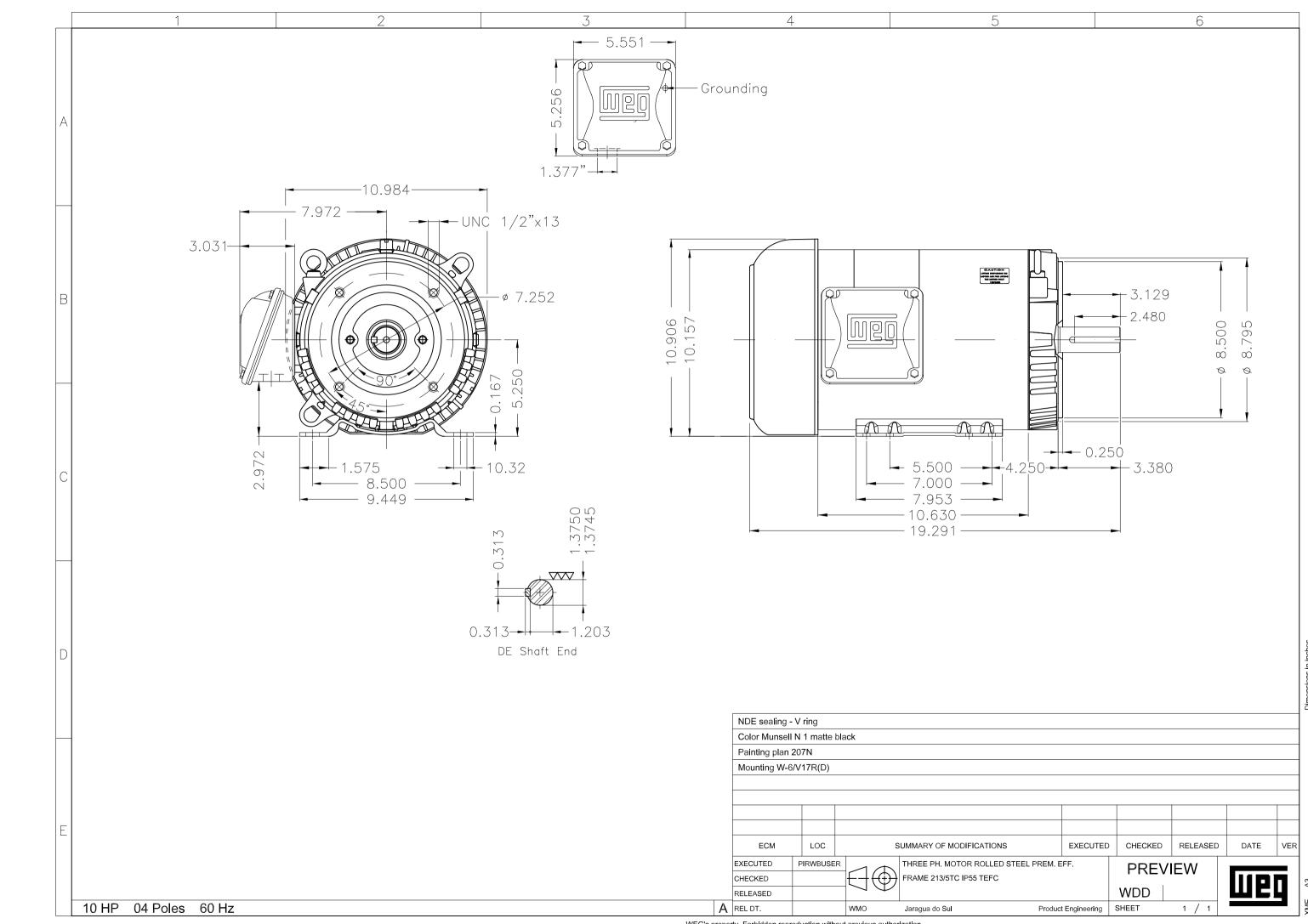


Performance		: 220/415 V 50 Hz	4P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 20.8/11.0 A : 8.3 : 26.8 ft.lb : 290 % : 360 % : 1470 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.07 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Premiur NEX

(**UL)**US LISTED FOR SAFE AREA

& Energy Verified 3PT9

For 60Hz: Class I, Zone 2, IIC Class II, DIv.2, Gr. F,G - T4 CT 2:1/VT 1000:1

MODEL 01018ET3E215TC-S

18MAR2022

N01.TE0IC0X0N

14122310

MADE IN MÉXICO

Class I, DIv.2, Gr. A.B,C,D - T3 Div 2 Inverter Duty (SF1.00)

230/460

Hz 60 S/N

213/5TC

CONT

28.1/14.0

P55

1000 m.a.s.l

F AT 80K

SCI

1.15

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

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.

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

T7-PNK T9-BRK

T8-RED

IEC 60034-1

SF1.15

190-220/380-415V

NOM EFF NEMA 1485RPM

50 Hz

22.4-20.6/11.2-10.9A

ZPM 3FA 냃 쌆

> CODE DES

TEFC 0

SABLE @ 208V 27.0A ALTERNATE RATING:

SF1.00 INC. W

EFF 90.1% 91.7%

T2-WHT T6-GRY

T4-YEL

r3-org

T5-BLK 1-BLU

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 4:1 CT

MOBIL POLYREX EM

ODE 6206-22 7.5HP

8208-ZZ

牌

JT6