DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 14122308

Catalog #: 00718ET3E213TC-S

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

Insulation class Mounting : W-6

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 : 128 lb Altitude

: IP55 Moment of inertia (J) Protection degree : 0.9380 sq.ft.lb Design : B Output [HP] 7.5 7.5 7.5 Poles 4 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 190-220/380 415 Rated current [A] 18.4/9.18 22.0-19.0/11.0 10.3 L. R. Amperes [A] 134/67.0 136-118/68.2 75.2 7.3x(Code J) 7.3x(Code J) LRC [A] 6.2x(Code G) No load current [A] 8.81/4.41 8.65-7.47/4.33 5.09 Rated speed [RPM] 1770 1455 1465 Slip [%] 1.67 3.00 2.33 Rated torque [ft.lb] 22.3 27.1 26.9 Locked rotor torque [%] 260 190 240 Breakdown torque [%] 300 250 300 Service factor 1.15 1.00 1.00 Temperature rise 80 K 105 K 80 K Locked rotor time 32s (cold) 18s (hot) 28s (cold) 16s (hot) 25s (cold) 14s (hot) Noise level² 60.0 dB(A) 57.0 dB(A) 57.0 dB(A) 25% 89.4 91.3 89.8 50% 90.2 90.2 89.4 Efficiency (%) 75% 91.0 90.0 90.1 89.4 100% 91.7 88.6 0.38 25% 0.39 0.45 50% 0.71 0.64 0.64 Power Factor 75% 0.76 0.76 0.82

> Drive end Non drive end Foundation loads

0.86

Bearing type 6208 ZZ 6206 ZZ Max. traction : 391 lb Sealing V'Ring V'Ring Max. compression : 519 lb

0.82

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 20.1A SF 1.00 SFA 20.1A

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.

0.83

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/10/2023			1 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



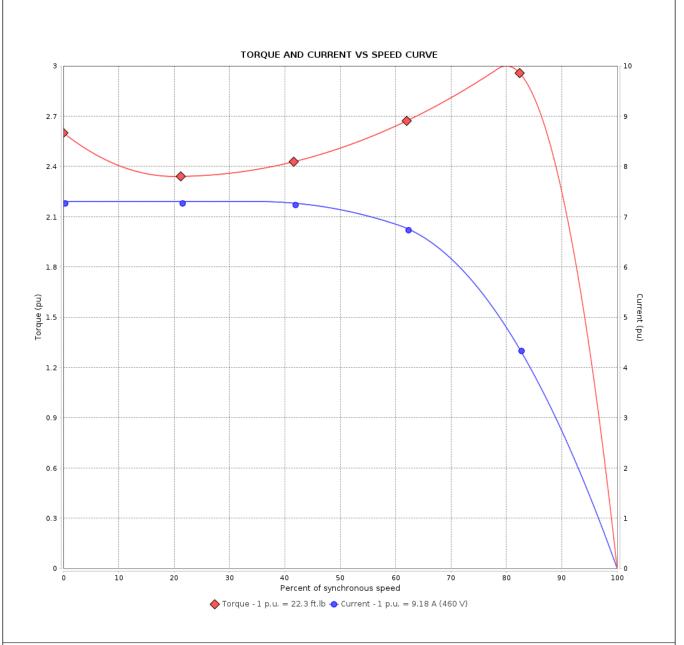
Customer :

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 14122308

Catalog #: 00718ET3E213TC-S



Performance : 230/460 V 60 Hz 4P

Rated current : 18.4/9.18 A Moment of inertia (J)

LRC : 7.3
Rated torque : 22.3 ft.lb
Locked rotor torque : 260 %
Breakdown torque : 300 %
Rated speed : 1770 rpm

Moment of inertia (J) : 0.9380 sq.ft.lb

Duty cycle : Cont.(S1)

Insulation class : F

Service factor : 1.15

Temperature rise : 80 K
Design : B

Locked rotor time : 32s (cold) 18s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/10/2023			2 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Rolled Steel NEMA Premium Efficiency

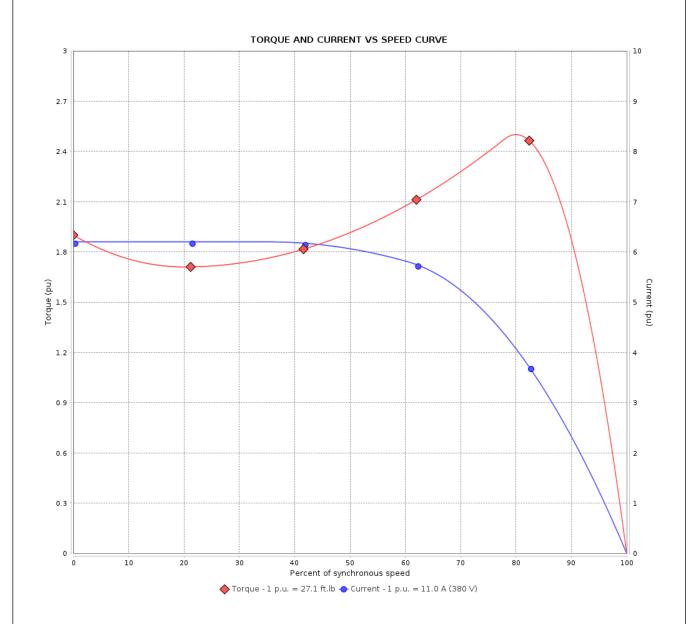
Three-Phase

Product code:

14122308

Catalog #:

00718ET3E213TC-S



Performance : 190-220/380 V 50 Hz 4P Rated current : 22.0-19.0/11.0 A Moment of inertia (J) : 0.9380 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 27.1 ft.lb Insulation class : F Rated torque : 190 % : 1.00 Locked rotor torque Service factor Breakdown torque : 250 % Temperature rise : 105 K Rated speed : B : 1455 rpm Design Locked rotor time

: 28s (cold) 16s (hot)

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/10/2023	1		3 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



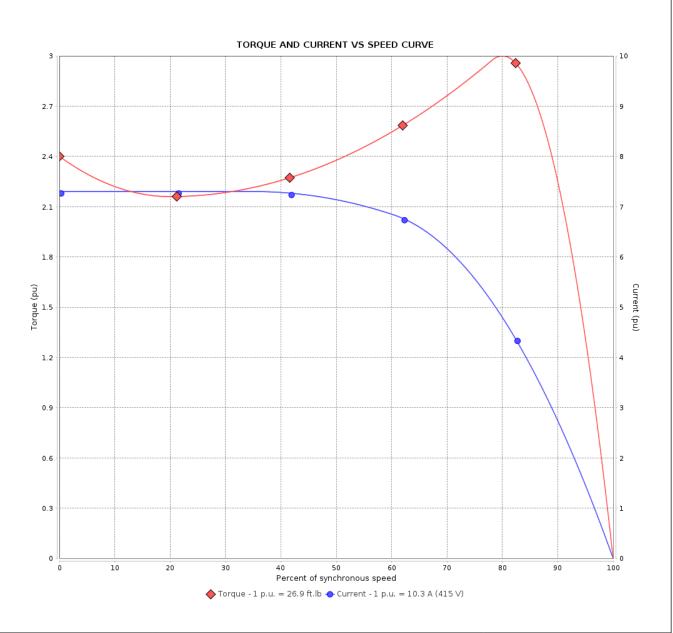
Customer :

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 14122308

Catalog #: 00718ET3E213TC-S



Performance : 415 V 50 Hz 4P Rated current : 10.3 A Moment of inertia (J) : 0.9380 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 26.9 ft.lb Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/10/2023			4 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



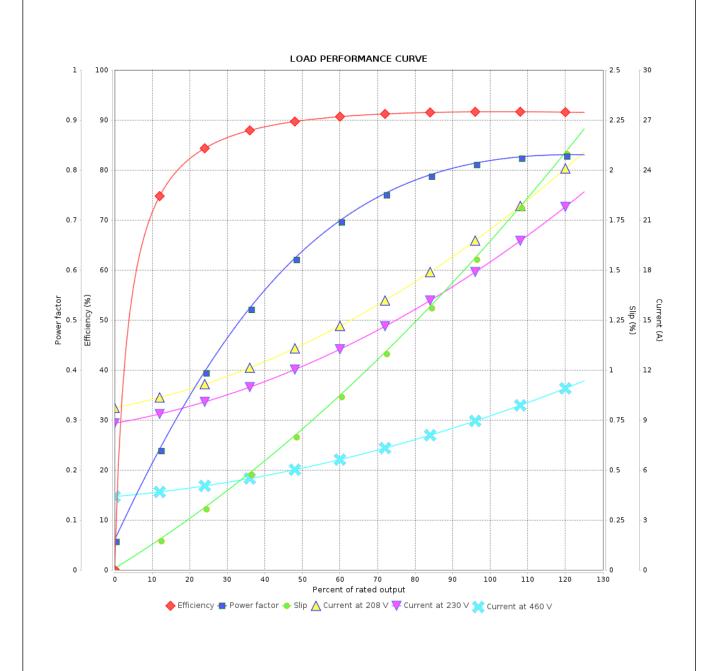
Customer :

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 14122308

Catalog #: 00718ET3E213TC-S



Performance	:	230/460 V 60 Hz 4P				
Rated current	:	18.4/9.18 A	Moment o	Moment of inertia (J)		.lb
LRC	:	7.3	Duty cycle)	: Cont.(S1)	
Rated torque		22.3 ft.lb	Insulation	Insulation class		
Locked rotor toro	que :	260 %	Service fa	ctor	: 1.15	
Breakdown torqu	ie :	300 %	Temperati	Temperature rise		
Rated speed	:	1770 rpm	Design		: B	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	27/10/2023				5 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



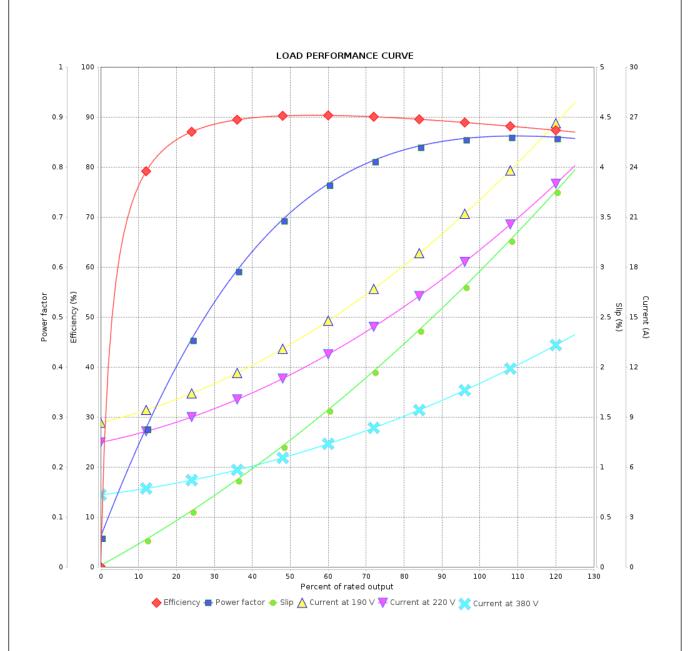
Customer

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 14122308

Catalog #: 00718ET3E213TC-S



Performance	: 190-220/380 V 50 Hz 4P	•			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22.0-19.0/11.0 A : 6.2 : 27.1 ft.lb : 190 % : 250 % : 1455 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 0.9380 sq.ft. : Cont.(S1) : F : 1.00 : 105 K : B	lb
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

6/16

27/10/2023

Date

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

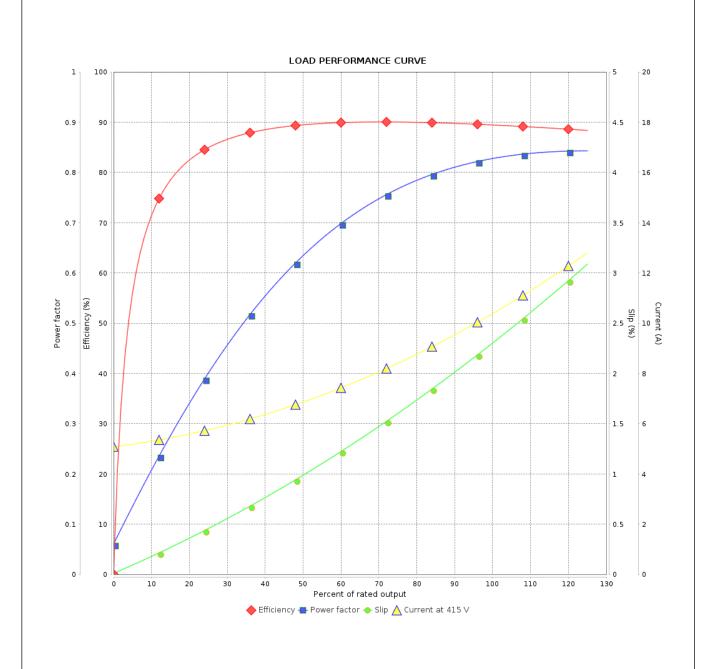


Customer

Product line : Rolled Steel NEMA Premium Efficiency

Product code: 14122308

Catalog #: 00718ET3E213TC-S



Performance	: 4	15 V 50 Hz 4P				
Rated current	: 10	0.3 A	Moment o	of inertia (J)	: 0.9380 sq.ft.	.lb
LRC	: 7.	.3	Duty cycle	Duty cycle : Cont.(S1)		
Rated torque	: 20	6.9 ft.lb	Insulation	Insulation class		
Locked rotor torqu	ue : 24	40 %	Service fa	ictor	: 1.00	
Breakdown torque	e : 30	00 %	Temperati	Temperature rise		
Rated speed	: 14	465 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	27/10/2023	1			7 / 16	

Three Phase Induction Motor - Squirrel Cage

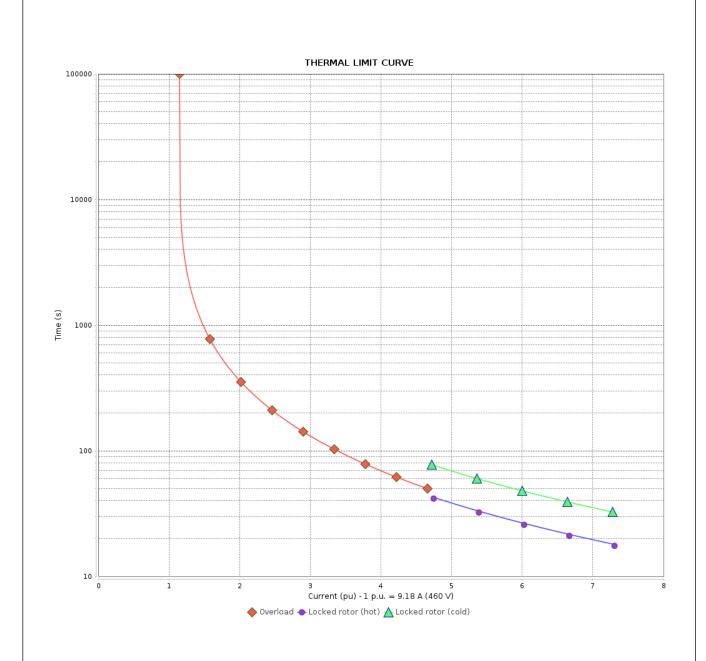


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Customer	:			
Product line	: Rolled Steel NEMA Premium Efficier	cy Product code :	14122308	
	Three-Phase	Catalog # :	00718ET3E	213TC-S
Performance	: 230/460 V 60 Hz 4P			
Rated current LRC	: 18.4/9.18 A : 7.3	Moment of inertia (J) Duty cycle	: 0.9380 sq.ft : Cont.(S1)	.lb
Rated torque	: 22.3 ft.lb	Insulation class	: F	
Locked rotor torque	: 260 % : 300 %	Service factor	: 1.15 : 80 K	
Breakdown torque Rated speed	: 300 % : 1770 rpm	Temperature rise Design	: 80 K	
Heating constant		-		
Cooling constant				
Rev.	Changes Summary	Performed	Checked	Date
Performed by				•
Checked by			Page	Revision
Date	27/10/2023		8 / 16	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/10/2023			9 / 16	

Three Phase Induction Motor - Squirrel Cage

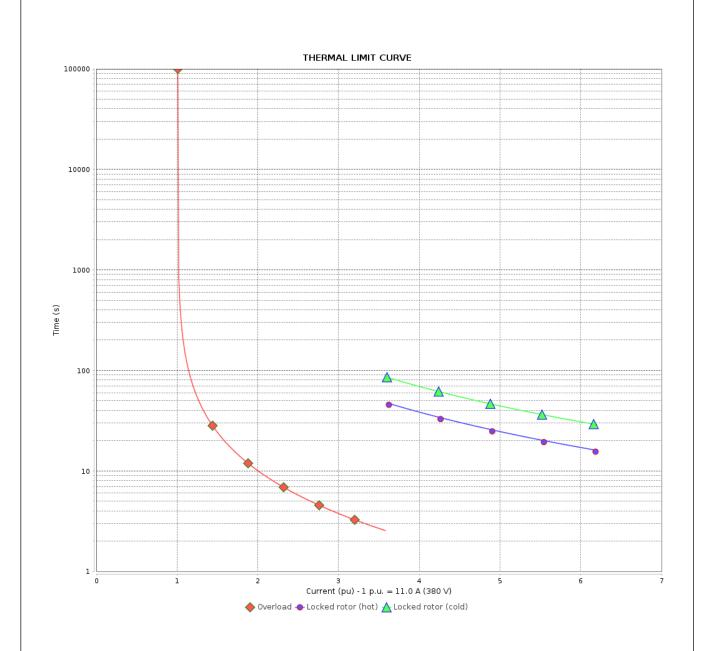


Customer	:			
Product line	: Rolled Steel NEMA Premium Efficien Three-Phase	cy Product code : Catalog # :	14122308 00718ET3E213	TC-S
Performance	: 190-220/380 V 50 Hz 4P	Manager and All	0.0000 # "	
Rated current LRC	: 6.2	Moment of inertia (J) Duty cycle	: 0.9380 sq.ft.lb : Cont.(S1)	
Rated torque		Insulation class	: F : 1.00	
Locked rotor torque Breakdown torque	: 250 %	Service factor Temperature rise	: 105 K	
Rated speed	: 1455 rpm	Design	: B	
Heating constant				
Cooling constant Rev.	Changes Summary	Performed	Checked	Date
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Performed by		I		
Checked by			Page	Revision
Date 2	7/10/2022		10 / 16	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/10/2023			11 / 16	

Three Phase Induction Motor - Squirrel Cage

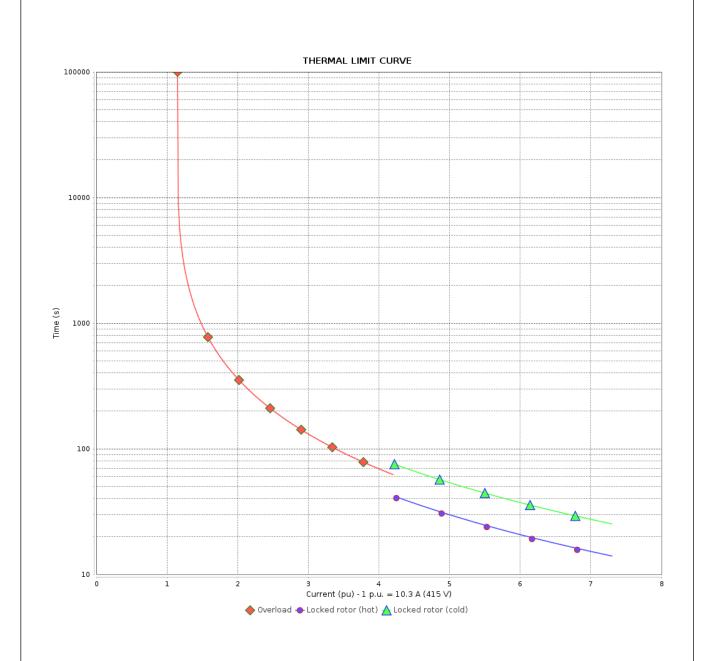


Customer	:			,	
Product line	: Rolled Steel NEMA Premium Efficier	ncy	Product code :	14122308	
	Three-Phase		Catalog # :		012TC S
			Catalog # :	00718ET3E2	21316-8
Performance	: 415 V 50 Hz 4P				
Rated current	: 10.3 A	Moment of	f inertia (J)	: 0.9380 sq.ft.l	lh
LRC	: 7.3	Duty cycle		: Cont.(S1)	.~
Rated torque	: 26.9 ft.lb : 240 %	Insulation	class	: F : 1.00	
Locked rotor torque Breakdown torque	: 240 % : 300 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed	: 1465 rpm	Design		: B	
Heating constant					
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
D-4-	7/40/0000			10/40	

Three Phase Induction Motor - Squirrel Cage



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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	27/10/2023			13 / 16	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



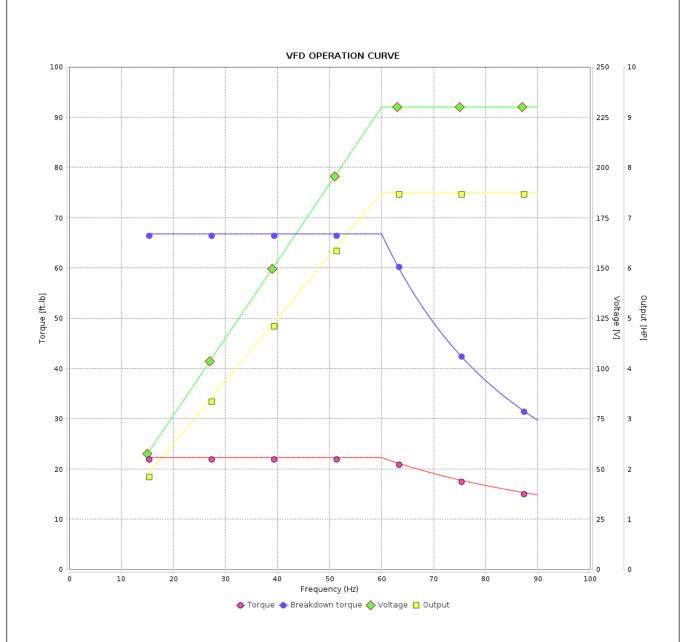
Customer :

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 14122308

Catalog #: 00718ET3E213TC-S



Performance	: 230/460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 18.4/9.18 A : 7.3 : 22.3 ft.lb : 260 % : 300 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.9380 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by Checked by				Page	Revision		

14/16

27/10/2023

Date

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



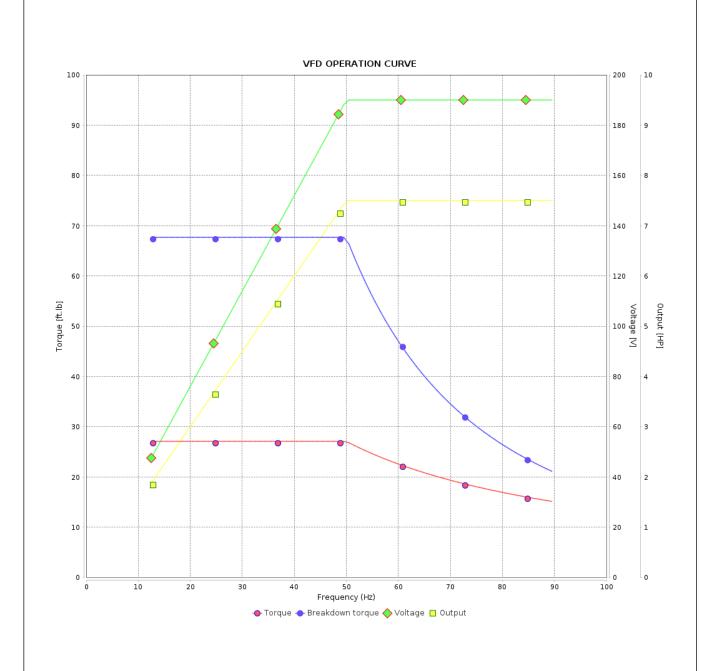
Customer

Product line : Rolled Steel NEMA Premium Efficiency

Three-Phase

Product code: 14122308

Catalog #: 00718ET3E213TC-S



Performance		: 190-220/380 V 50 Hz 4P					
Rated current		2.0-19.0/11.0 A	Moment of inertia (J)		: 0.9380 sq.ft.lb		
LRC :		2	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 2	7.1 ft.lb	Insulation class		:F		
Locked rotor torqu	ue : 19	90 %	Service factor		: 1.00		
Breakdown torque	e : 29	50 %	Temperati	Temperature rise		: 105 K	
Rated speed	: 14	455 rpm	Design		: B		
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by					Page	Revision	
Date	27/10/2023	1			15 / 16		

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

Page 16 / 16

Customer :

Checked by

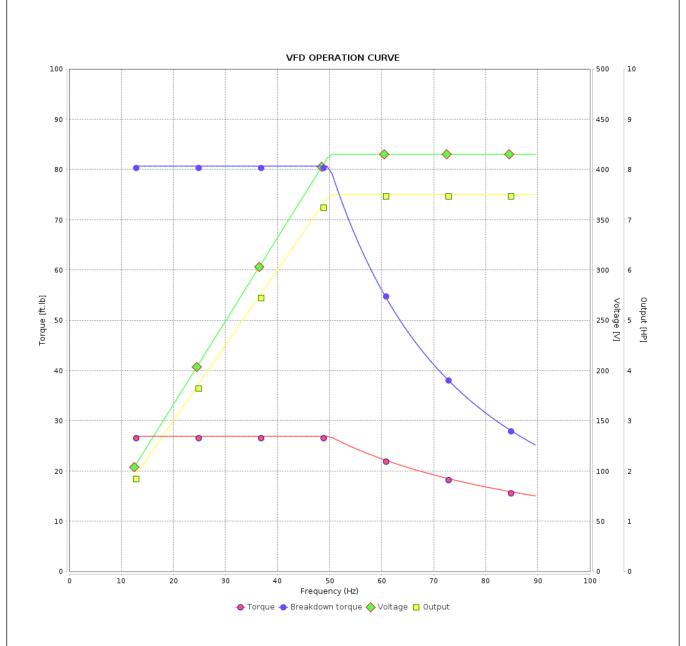
Date

Product line : Rolled Steel NEMA Premium Efficiency

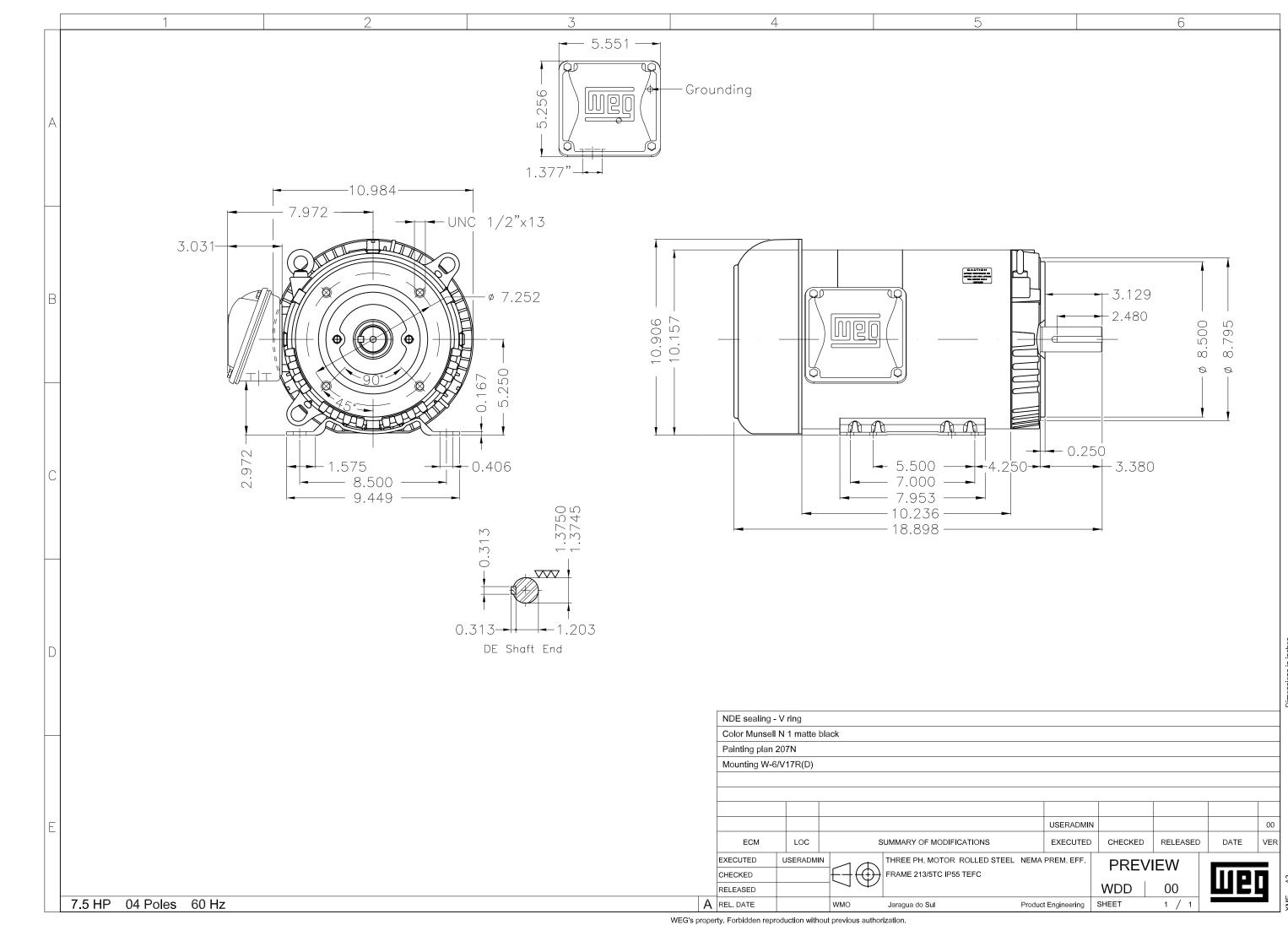
Three-Phase

Product code: 14122308

Catalog #: 00718ET3E213TC-S



Performance : 415 V 50 Hz 4P : 10.3 A Rated current Moment of inertia (J) : 0.9380 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : 26.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by





NEX Prem

& Energy Verified

'VL) us listed

AREA FOR SAFE

3PT9

MODEL 00718ET3E213TC-S W01.TEOICOXON 14122308

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

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

> 9 ž

P55 SH

1000 m.a.s.l

213/5TC CONT F AT 80K

NSC NCL WB

18.4/9.18

3FA 냃

230/460 1.15

쌆

CODE

TEFC 2°04

1455RPM NEMA SPM 50 Hz

NOM EFF 91.7%

7.5HP

22.0-19.4/11.0-10.3A

ALTERNATE RATING:

IEC 60034-1

SF1.00

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 4:1 CT 190-220/380-415V MOBIL POLYREX EM **EFF 88.6%**

ODE 6206-22

8208-ZZ

牌

T2-WHT

T4-YEL

HEIH

r3-org

7-PNK 1-BLU 15-BLK



NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

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. 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.

T9-RED