DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12651241

Catalog #: 01018OT3E215TC-S

Frame : 213/5TC Cooling method : IC01 - ODP Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

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

Design

: 1000 m.a.s.l. Approx. weight³ : 130 lb : B Moment of inertia (J) : 1.30 sq.ft.lb Output [HP] 10 10

Output [HP]		10	10	10
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		24.8/12.4	29.8/14.9	27.2/14.4
L. R. Amperes [A]		174/86.8	191/95.4	193/102
LRC [A]		7.0x(Code H)	6.4x(Code G)	7.1x(Code H)
No load current [A]	12.0/5.99	11.8/5.89	12.2/6.45
Rated speed [RPN	/ I]	1770	1460	1465
Slip [%]		1.67	2.67	2.33
Rated torque [ft.lb]		29.7	36.0	35.8
Locked rotor torque [%]		250	200	220
Breakdown torque [%]		350	250	280
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		25s (cold) 14s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		59.0 dB(A)	56.0 dB(A)	56.0 dB(A)
	25%	89.4	91.4	90.4
Efficiency (%)	50%	90.2	90.1	89.6
Elliciency (70)	75%	91.0	89.7	89.8
	100%	91.7	88.1	88.7
	25%	0.38	0.45	0.41
Power Factor	50%	0.64	0.72	0.68
I OWEI FACIOI	75%	0.77	0.82	0.80
	100%	0.83	0.87	0.85

Drive end Non drive end Foundation loads

6208 ZZ Bearing type 6206 ZZ Max. traction : 501 lb Sealing Without Without Max. compression : 631 lb

> Bearing Seal Bearing Seal

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 27.4A SF 1.00 SFA 27.4A

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.

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



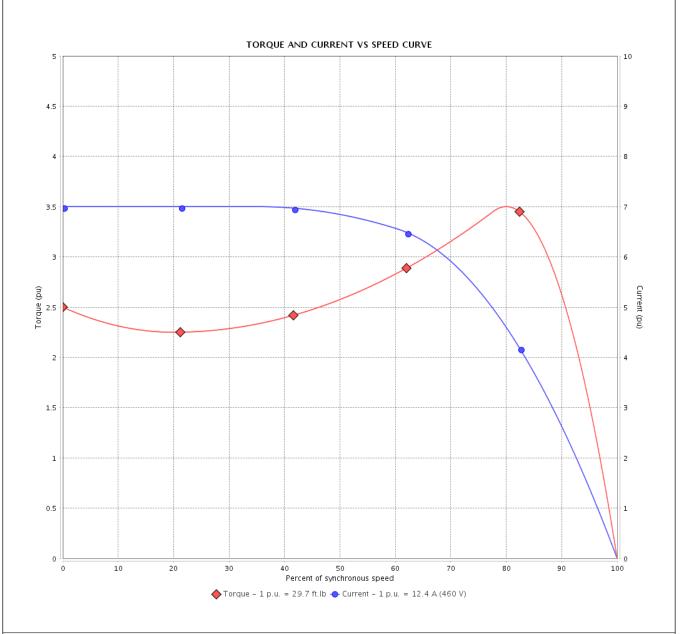
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 12651241

Catalog #: 01018OT3E215TC-S



Performance	: 230/460 V 60 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 24.8/12.4 A : 7.0 : 29.7 ft.lb : 250 % : 350 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.30 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B
Looked reter time	: 25a (aald) 14a (bat)		

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

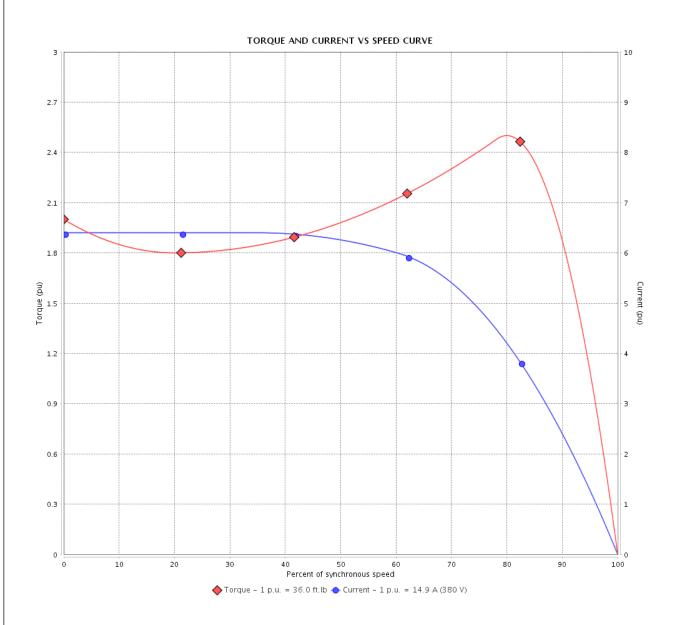


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12651241

Phase

Catalog #: 01018OT3E215TC-S



Performance : 190/380 V 50 Hz 4P Rated current : 29.8/14.9 A Moment of inertia (J) : 1.30 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 36.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1460 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			3 / 16	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



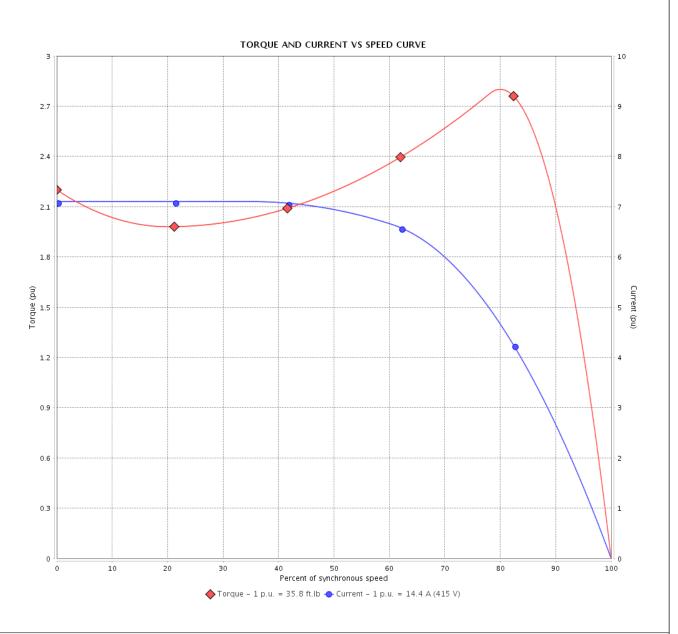
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01018OT3E215TC-S

12651241



Performance : 220/415 V 50 Hz 4P Rated current : 27.2/14.4 A Moment of inertia (J) : 1.30 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 35.8 ft.lb : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1465 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

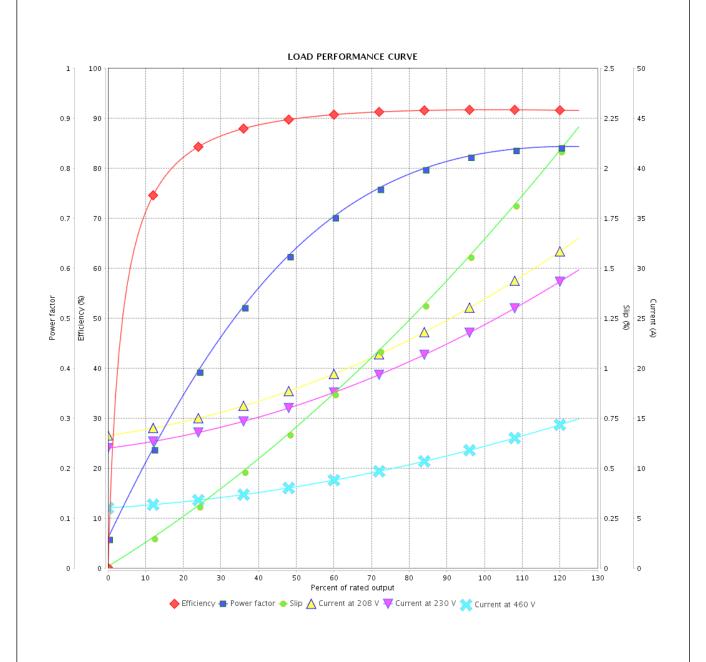


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12651241

Phase

Catalog #: 01018OT3E215TC-S



Performance	: 2	30/460 V 60 Hz 4P				
Rated current		4.8/12.4 A			: 1.30 sq.ft.lb	
LRC Rated torque		.0 9.7 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F	
Locked rotor torque	e : 2	50 %	Service factor		: 1.15	
Breakdown torque		350 % Temperature		ıre rise	: 80 K	
Rated speed	: 1	770 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				5 / 16	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

Page 6 / 16

Customer :

Checked by

Date

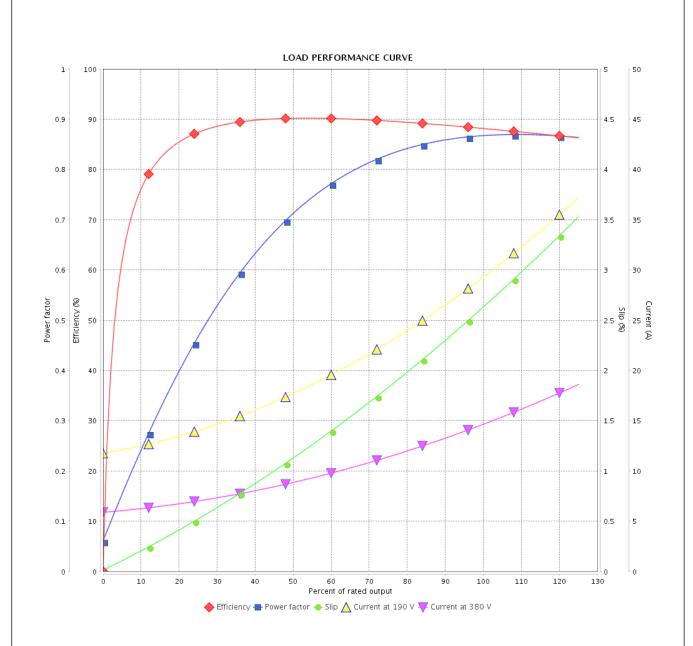
12/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01018OT3E215TC-S

12651241



Performance : 190/380 V 50 Hz 4P : 29.8/14.9 A Rated current Moment of inertia (J) : 1.30 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 36.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



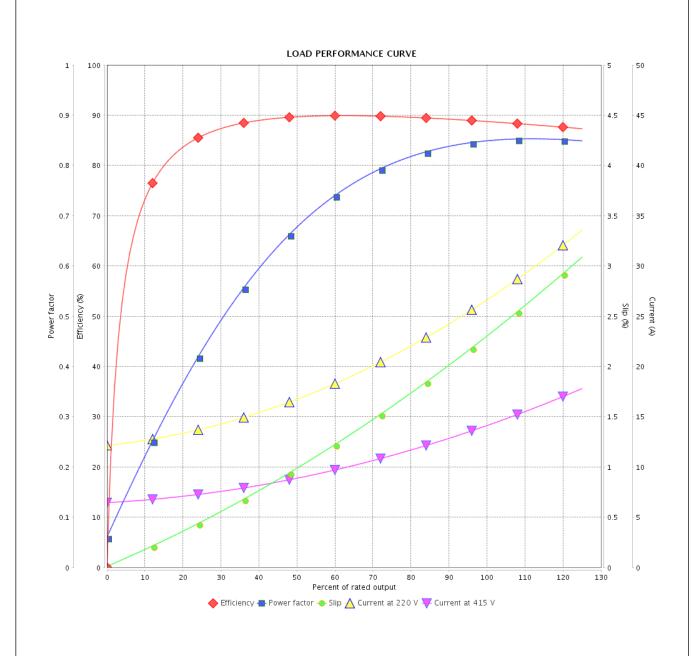
Customer

Checked by

Product line : NEMA Premium Efficiency Three- Product code : 12651241

Phase

Catalog #: 01018OT3E215TC-S



Performance	: 220/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.2/14.4 A Moment of inertia (J) : 7.1 Duty cycle : 35.8 ft.lb Insulation class : 220 % Service factor : 280 % Temperature rise : 1465 rpm Design		Duty cycle Insulation class Service factor Temperature rise		
Rev.	Changes Summary	'	Performed	Checked	Date
Performed by					

Date	12/04/2022		7 / 16					
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.								
Subject to change without notice								

Page

Revision

Three Phase Induction Motor - Squirrel Cage

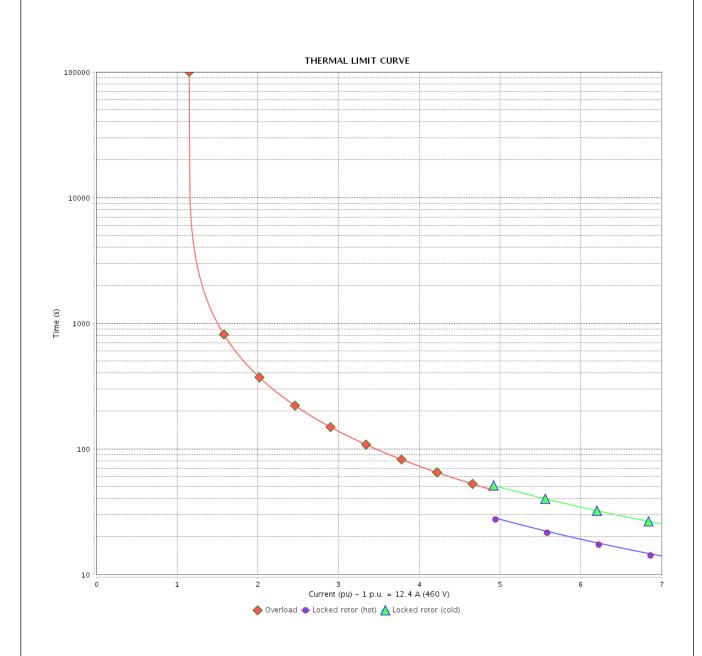


	<u> </u>				
Customer	:				
Product line	: NEMA Premium Efficienc	cy Three-	Product code :	12651241	
	Phase		Catalog # :	01018OT3E	215TC-S
Performance	: 230/460 V 60 Hz 4P				
Rated current LRC	: 24.8/12.4 A : 7.0	Moment Duty cyc	of inertia (J) ele	: 1.30 sq.ft.lb : Cont.(S1)	
Rated torque	: 29.7 ft.lb	Insulatio	n class	: F	
Locked rotor torque Breakdown torque	: 250 % : 350 %	Service	factor iture rise	: 1.15 : 80 K	
Rated speed	: 1770 rpm	Design	iture rise	. 60 K : B	
Heating constant					
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by				_	
Checked by	4/0000			Page	Revision
Date 12/04	4/2022			8 / 16	

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

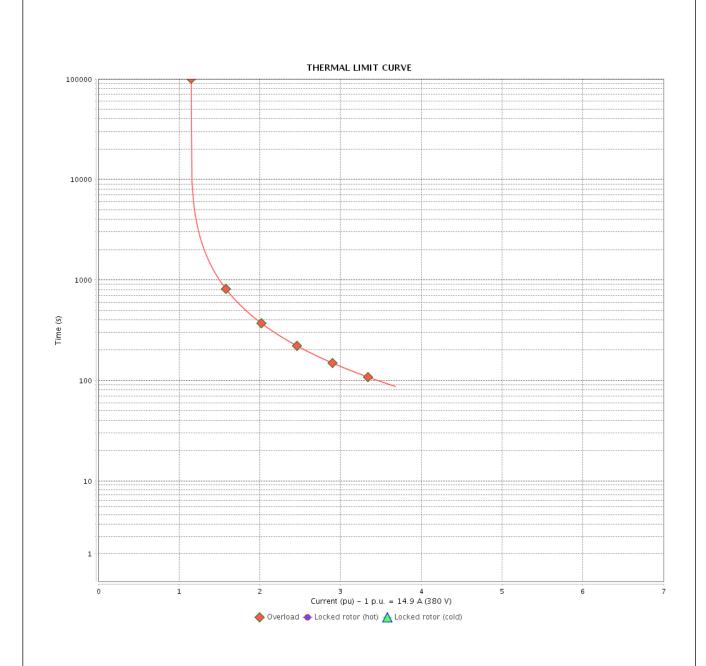


Customer	:			·	
Product line	: NEMA Premium Efficiency	Three-	Product code :	12651241	
	Phase				4570.0
			Catalog # :	01018OT3E2	151C-S
Performance	: 190/380 V 50 Hz 4P				
Rated current	: 29.8/14.9 A	Moment o	of inertia (J)	: 1.30 sq.ft.lb	
LRC	: 6.4	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torque	: 36.0 ft.lb : 200 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 250 % : 250 %	Temperati		: 80 K	
Rated speed	: 1460 rpm	Design		: B	
Heating constant					
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
	ı				
Performed by				_	
Checked by				Page	Revision

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

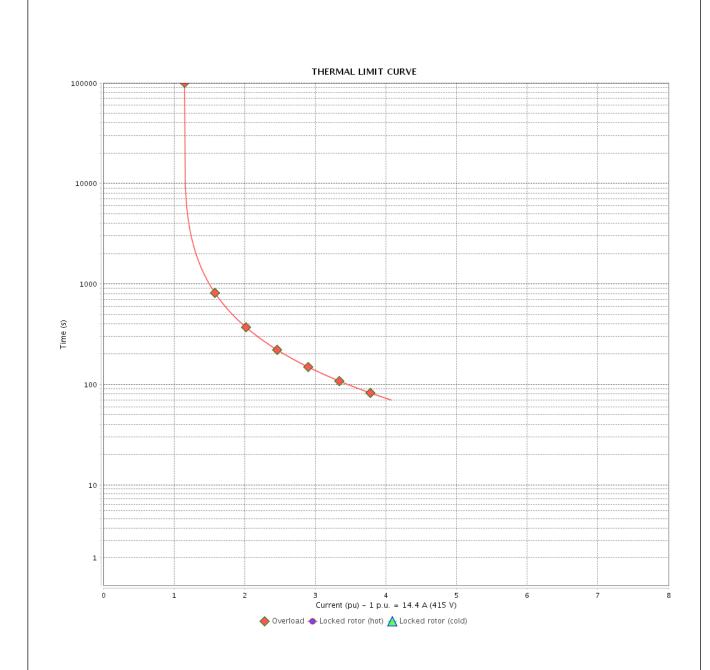


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	12651241	
	Phase		Catalog # :	01018OT3E2	15TC-S
				0.0.00.00	
Performance	: 220/415 V 50 Hz 4P				
Rated current LRC	: 27.2/14.4 A : 7.1	Moment o Duty cycle	f inertia (J)	: 1.30 sq.ft.lb : Cont.(S1)	
Rated torque	: 35.8 ft.lb	Insulation	class	: F	
Locked rotor torque	: 220 %	Service fa		: 1.15	
Breakdown torque Rated speed	: 280 % : 1465 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant	•				
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by					·
Checked by				Page	Revision

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



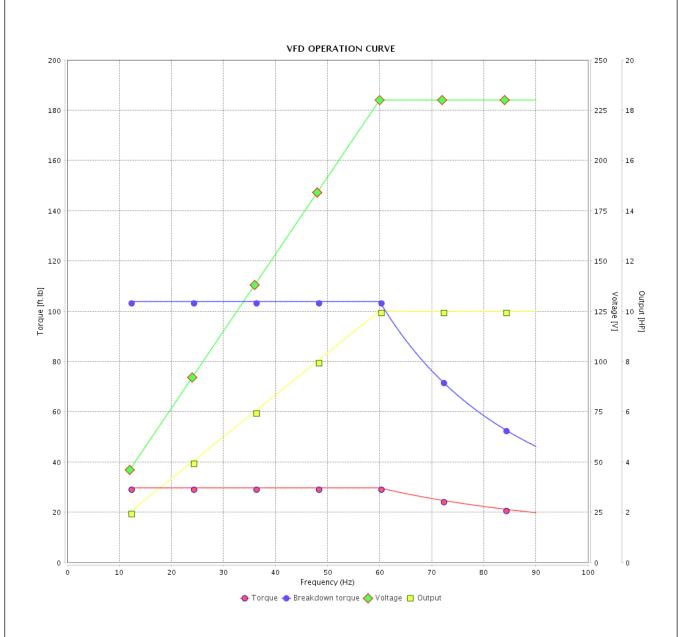
Customer :

Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 12651241

Catalog #: 01018OT3E215TC-S



Performance	: 230/460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 24.8/12.4 A : 7.0 : 29.7 ft.lb : 250 % : 350 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.30 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

12/04/2022

Date

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

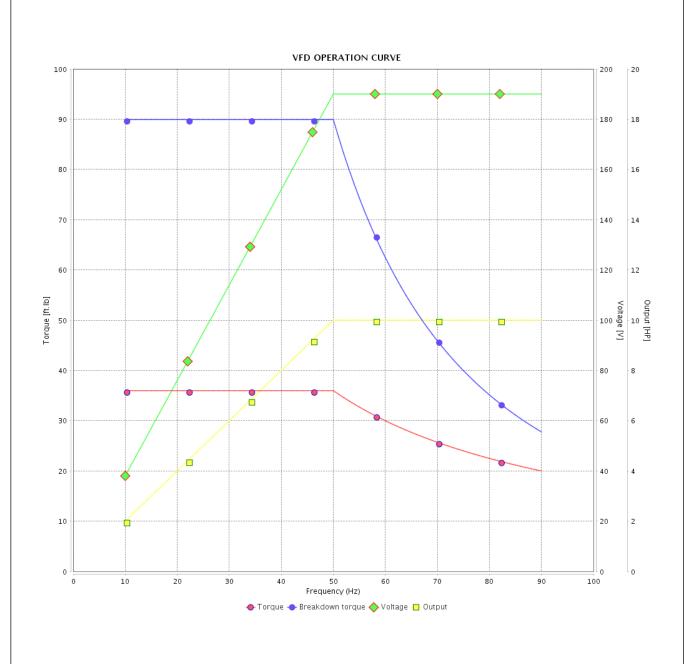


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12651241

Phase

Catalog #: 01018OT3E215TC-S



Performance : 1		90/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		9.8/14.9 A 4 6.0 ft.lb 00 % 50 % 460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.30 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : 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



Revision

Page

16 / 16

Customer :

Checked by

Date

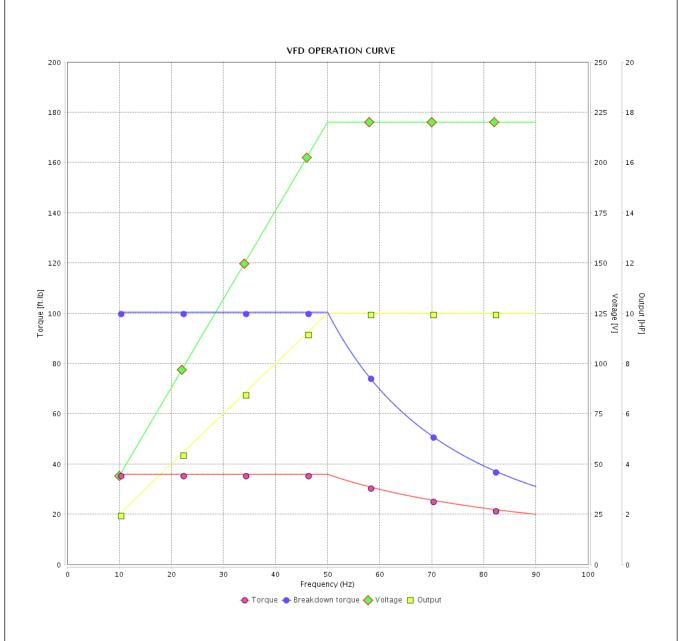
12/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

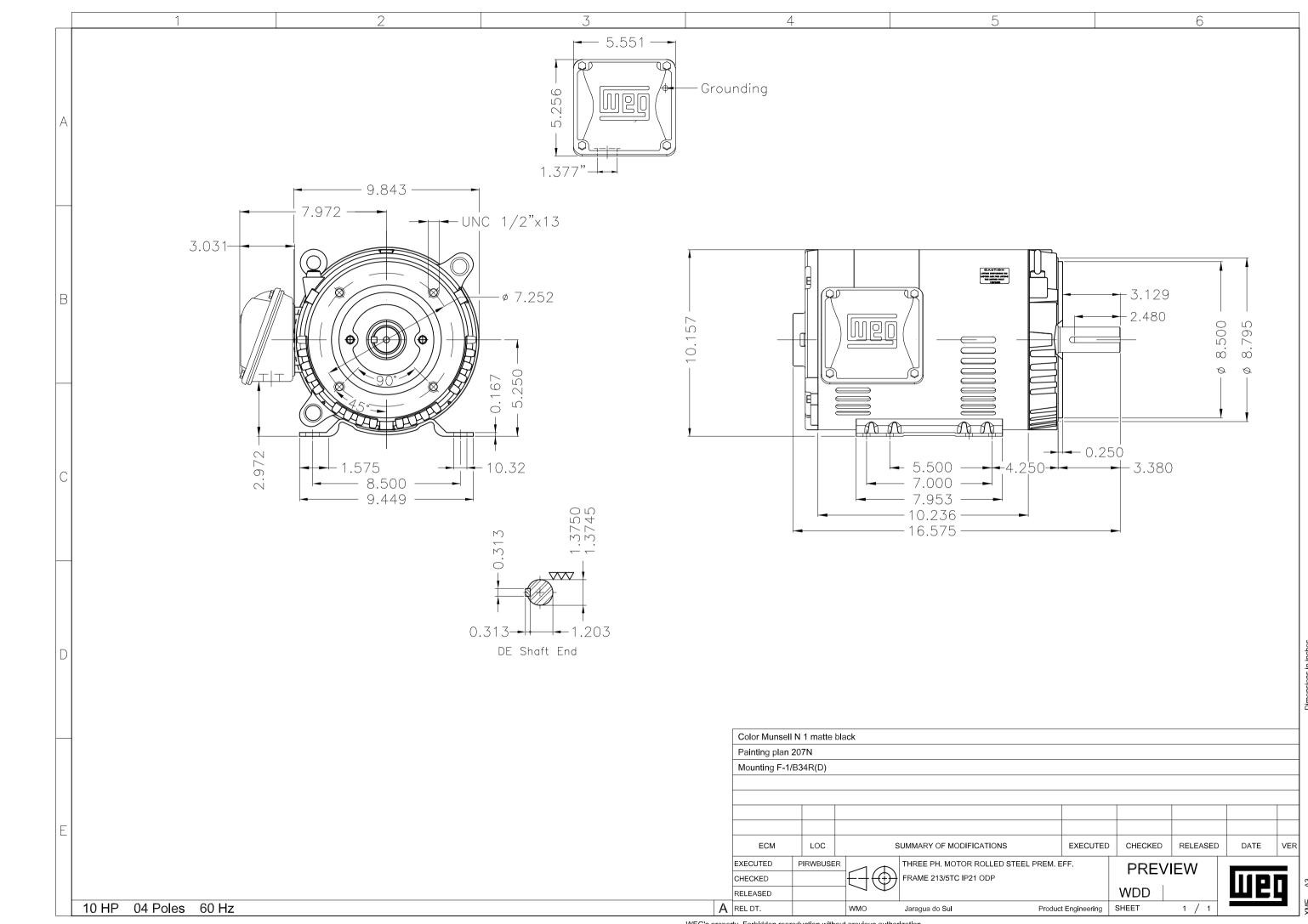
Phase

Product code: 12651241

Catalog #: 01018OT3E215TC-S



Performance : 220/415 V 50 Hz 4P Rated current : 27.2/14.4 A Moment of inertia (J) : 1.30 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class : 35.8 ft.lb : F Rated torque Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by







S Su Su

(**UL)**US LISTED 3PT9

Energy Verifi

MODEL 01018OT3E215TC-S

N01.TODICOXON

12651241

MADE IN MÉXICO

Hz 60 S/N 213/5TC 4APR2022

1000 m.a.s.l CONT NS CL

230/460 28.5/1/ 1.15

> DES F AT 80K 2°04 900

3FA 냃 쌆

> CODE SABLE @ 208V 27.4A ALTERNATE RATING:

SF1.00 INC. 2

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 5:1 CT NOM EFF 91.7% ZPM 50 Hz 큐

29.8-26.4/14.9-14.0A

IEC 60034-1

SF1.15

190-220/380-415V

EFF 88.1%

1460RPM

6206-ZZ

ODE

8208-ZZ

삠

MOBIL POLYREX EM

T6

T2-WHT

11-BLU





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 avant l'entretien de la machine