DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12674978

Phase

Catalog #: 00718OT3E213T-SG

Frame : 213/5T Cooling method : IC01 - ODP Insulation class : F Mounting : F-1

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 : 116 lb

Design : B | Moment of inertia (J) : 1.03 sq.ft.lb

			• •	•	
Output [HP]		7.5	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]		18.5/9.25	22.2/11.1	20.0/10.6	
L. R. Amperes [A]		133/66.6	129/64.4	130/68.9	
LRC [A]		7.2x(Code H)	5.8x(Code G)	6.5x(Code H)	
No load current [A	.]	8.79/4.39	8.64/4.32	8.88/4.71	
Rated speed [RPI	Л]	1770	1455	1460	
Slip [%]		1.67	3.00	2.67	
Rated torque [ft.lb]		22.3	27.1	27.0	
Locked rotor torque [%]		240	170	190	
Breakdown torque [%]		320	229	250	
Service factor		1.15	1.15	1.15	
Temperature rise		80 K	80 K	80 K	
Locked rotor time		23s (cold) 13s (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%	88.6	90.4	89.6	
Efficiency (%)	50%	89.5	88.9	88.6	
Elliciency (70)	75%	90.2	88.5	88.7	
	100%	91.0	86.7	87.4	
	25%	0.39	0.46	0.42	
Power Factor	50%	0.65	0.73	0.69	
I OWEI FACIOI	75%	0.77	0.83	0.80	
	100%	0.82	0.87	0.86	

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

Bearing type : 6208 ZZ 6206 ZZ Max. traction : 322 lb Sealing : Without Without Max. compression : 438 lb

Bearing Seal Bearing Seal

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

Notes

USABLE @208V 20.5A SF 1.00 SFA 20.5A

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

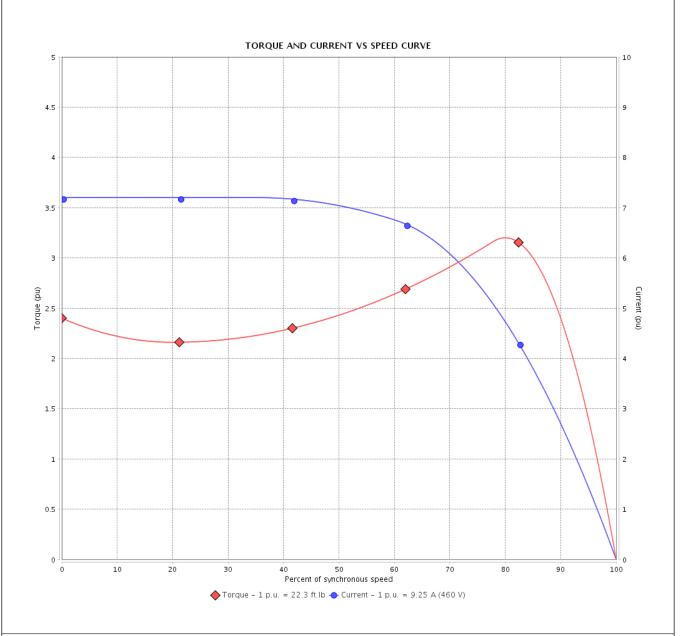


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12674978

Phase

Catalog #: 00718OT3E213T-SG



Performance : 230/460 V 60 Hz 4P Rated current : 18.5/9.25 A Moment of inertia (J) : 1.03 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 22.3 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 240 % : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

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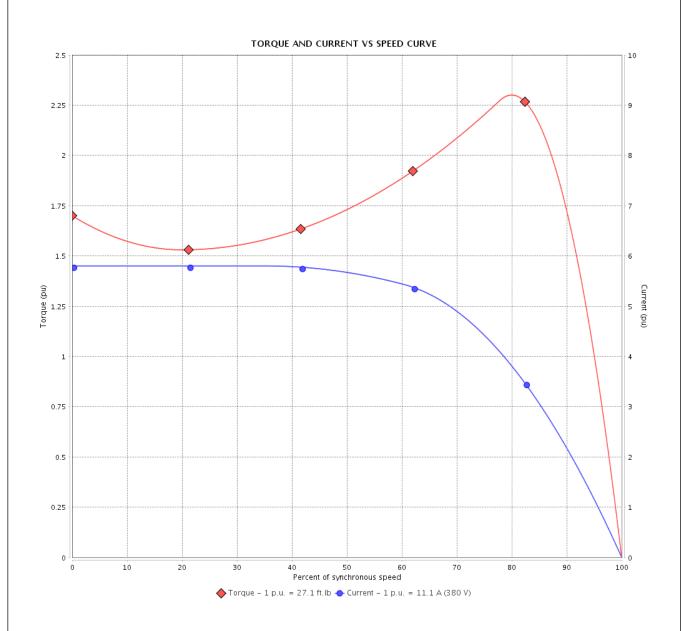


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12674978

Phase

Catalog #: 00718OT3E213T-SG



Performance	: 190/380 V 50 Hz 4P			
Rated current	: 22.2/11.1 A	Moment of inertia (J)	: 1.03 sq.ft.lb	
LRC	: 5.8	Duty cycle	: Cont.(S1)	
Rated torque	: 27.1 ft.lb	Insulation class	: F	
Locked rotor torque	: 170 %	Service factor	: 1.15	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 1455 rpm	Design	: B	
Locked rotor time	: Os (cold) Os (bot)	I		

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

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TORQUE AND CURRENT VS SPEED CURVE

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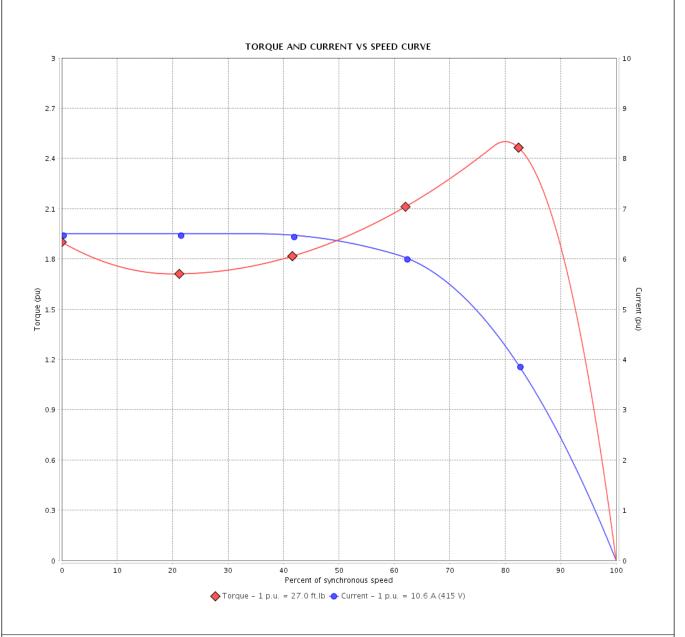


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12674978

Phase

Catalog #: 00718OT3E213T-SG



Performance : 220/415 V 50 Hz 4P Rated current : 20.0/10.6 A Moment of inertia (J) : 1.03 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : 27.0 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 190 % : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B

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

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LOAD PERFORMANCE CURVE

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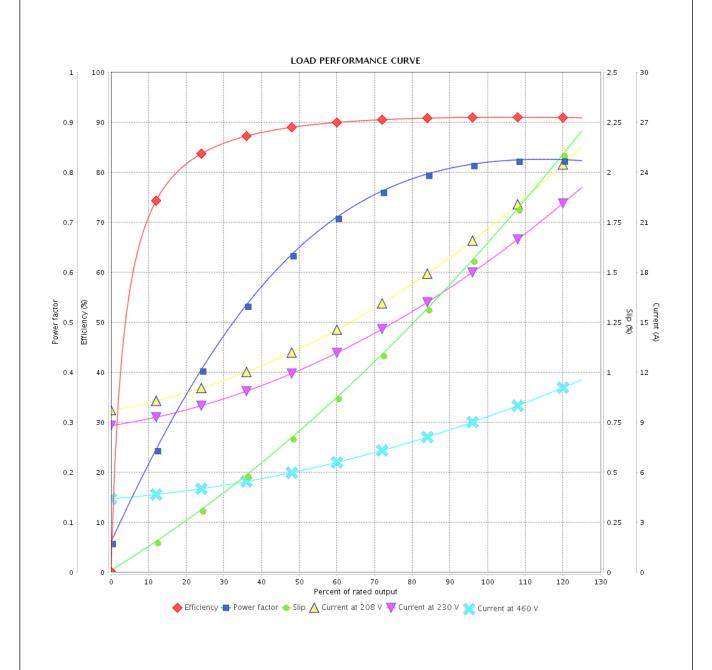


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12674978

Phase

Catalog #: 00718OT3E213T-SG



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	: 1	: 18.5/9.25 A Moment of inertia (J) : 1.03 s		5/9.25 A Moment of inertia (J)		
LRC	: 7	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	2.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	40 %	Service fa	ctor	: 1.15	
Breakdown torque	e : 3:	20 %	Temperature rise		: 80 K	
Rated speed : 1		770 rpm	Design		: B	
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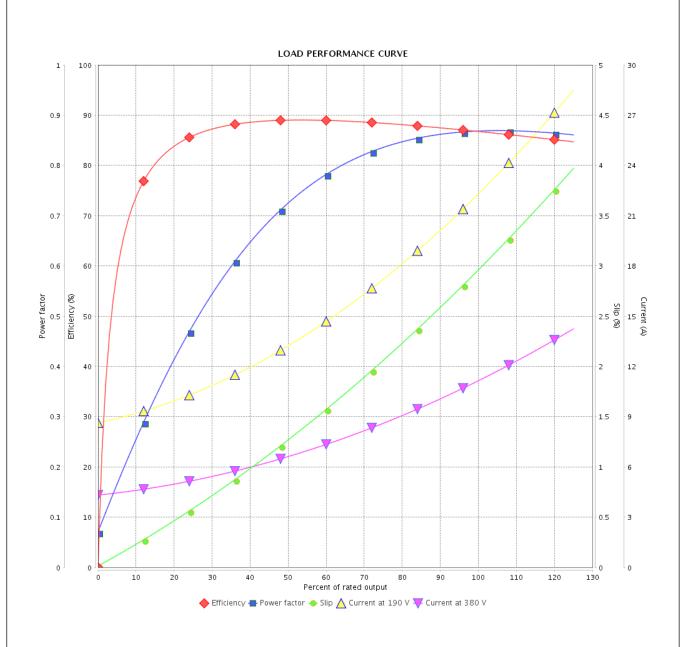
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12674978

Catalog #: 00718OT3E213T-SG



Performance : 190/380 V 50 Hz 4P : 22.2/11.1 A Rated current Moment of inertia (J) : 1.03 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 27.1 ft.lb : F Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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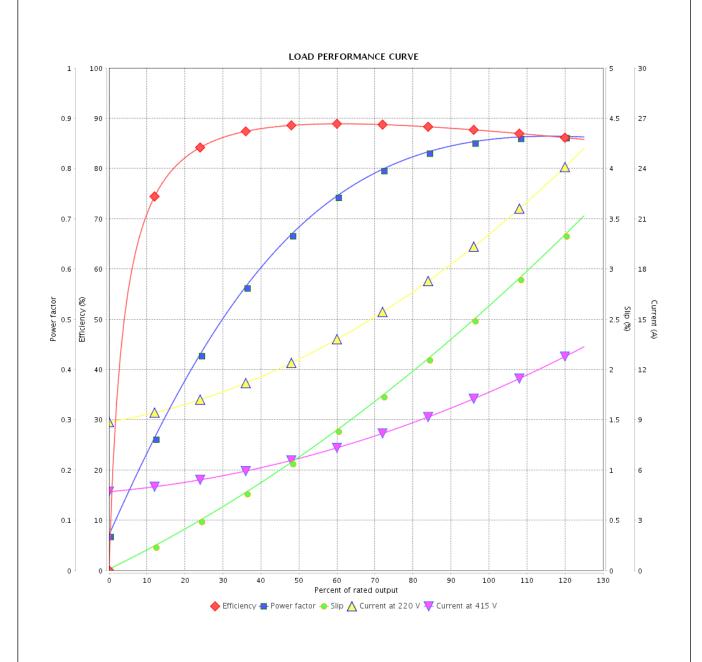


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Product line : NEMA Premium Efficiency Three- Product code : 12674978

Phase

Catalog #: 00718OT3E213T-SG



Performance	: 220/415 V 50 Hz 4P				
Rated current : 20.0/10.6 A Moment of it LRC : 6.5 Duty cycle Rated torque : 27.0 ft.lb Insulation cl Locked rotor torque : 190 % Service factor Breakdown torque : 250 % Temperature Rated speed : 1460 rpm Design		class ctor	: 1.03 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
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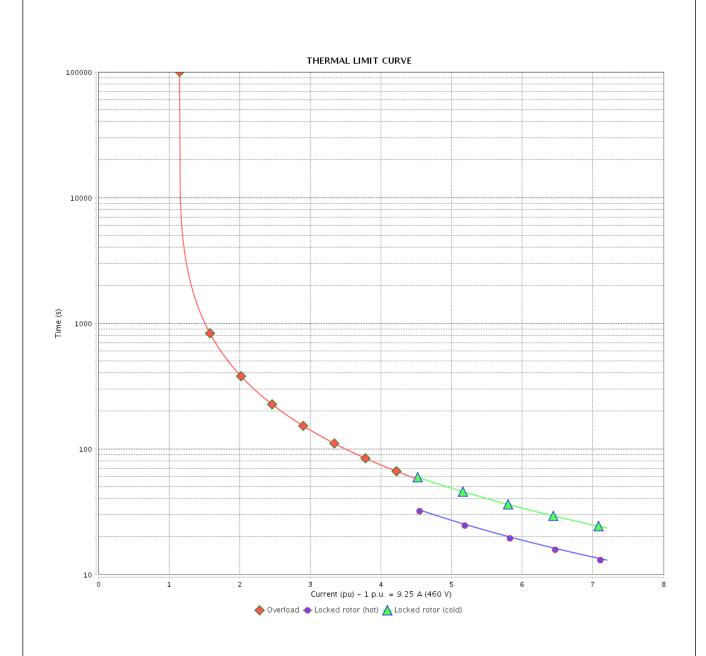


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	12674978	
	Phase		Catalog # :	00718OT3E2	13T-SG
				00710013L2	101-00
Performance	: 230/460 V 60 Hz 4P				
Rated current LRC	: 18.5/9.25 A : 7.2	Moment o Duty cycle	of inertia (J)	: 1.03 sq.ft.lb : Cont.(S1)	
Rated torque	: 22.3 ft.lb	Insulation	class	: F	
Locked rotor torque	: 240 % : 320 %	Service fa Temperati		: 1.15 : 80 K	
Breakdown torque Rated speed	: 1770 rpm	Design	uic IISC	: 80 K	
Heating constant					
Cooling constant					
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Customer



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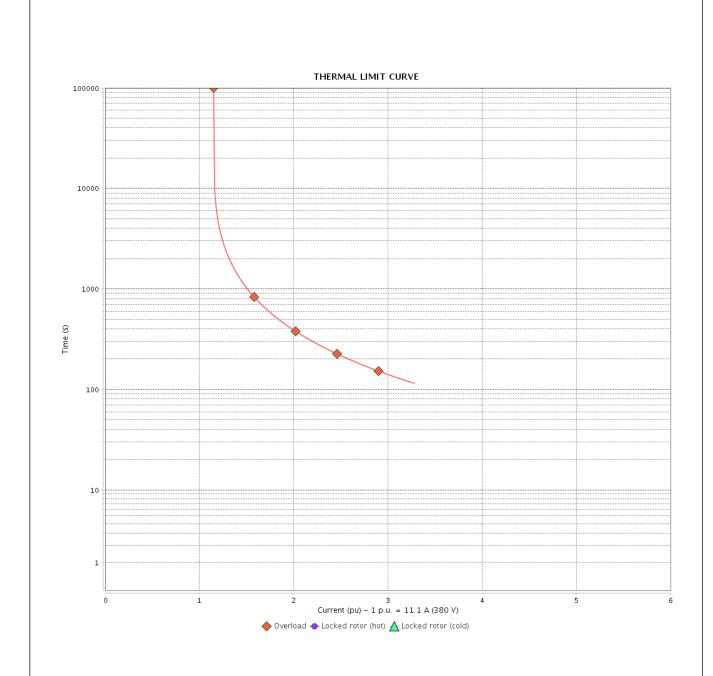


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Product line		NEMA Premium Efficiency Thase	Γhree- I	Product code :	12674978	
	ГІ	iase	(Catalog # :	00718OT3E2	13T-SG
Performance	: 19	90/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22 : 5. : 27 : 17 : : 22	2.2/11.1 A	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 1.03 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant		•				
Cooling constant						
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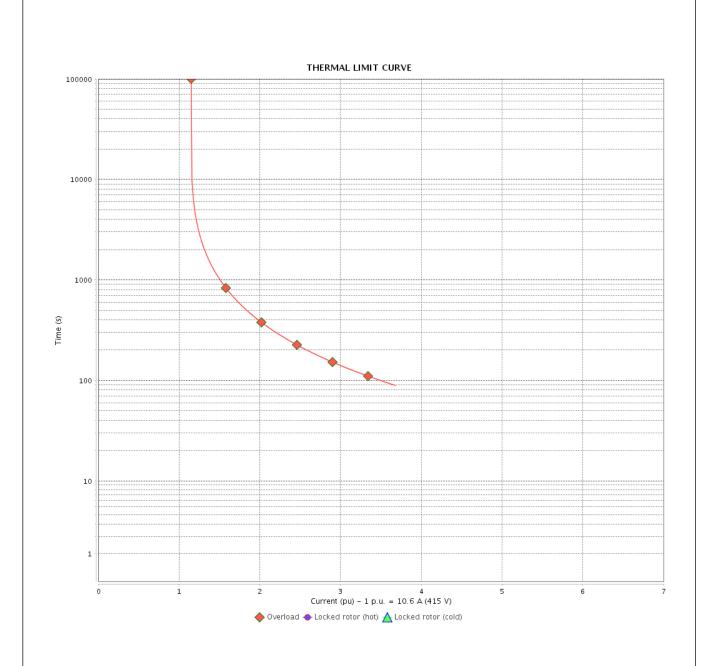


Customer	:					
Product line	: NEMA Premium Efficiency Three-		Product code :	12674978	12674978	
	Phase		Catalog # :	00718OT3E2	13T-SG	
				0071001322	101-00	
Performance	: 220/415 V 50 Hz 4P					
Rated current	: 20.0/10.6 A	Moment of inertia (J)		: 1.03 sq.ft.lb		
LRC Rated torque	: 6.5 : 27.0 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F		
Locked rotor torque	: 190 %	Service factor		: 1.15		
Breakdown torque Rated speed	: 250 % : 1460 rpm	Temperature rise Design		: 80 K : B		
Heating constant	ı	3.7				
Cooling constant						
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Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

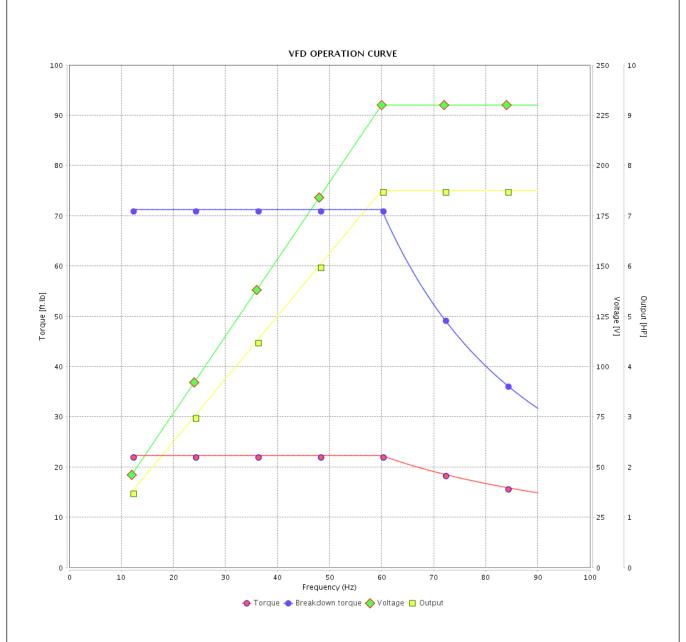
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Performance : 230/460 V 60 Hz 4P : 18.5/9.25 A Rated current Moment of inertia (J) : 1.03 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.2 : 22.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

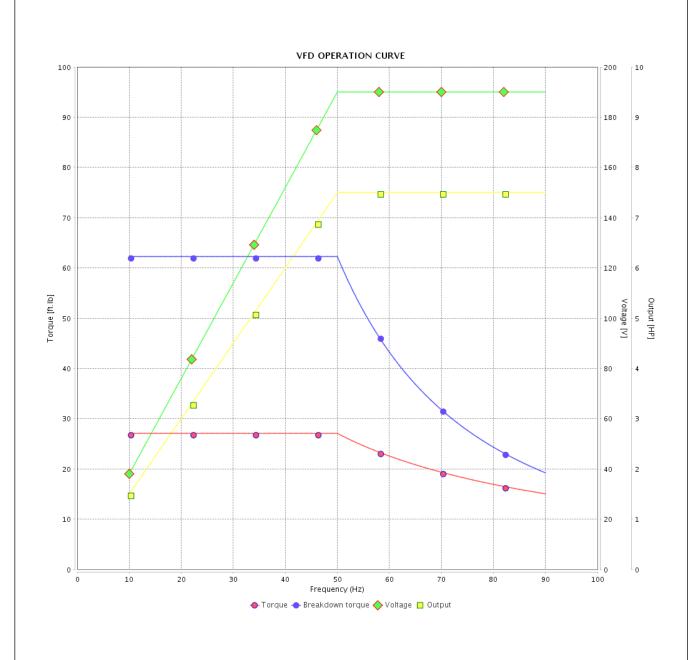
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00718OT3E213T-SG

12674978

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		,				
Performance	: 190/380 V 50 Hz 4P	190/380 V 50 Hz 4P				
LRC : 5.8 Duty Rated torque : 27.1 ft.lb Insul Locked rotor torque : 170 % Servi Breakdown torque : 229 % Temp		Duty cycle Insulation Service fac	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.03 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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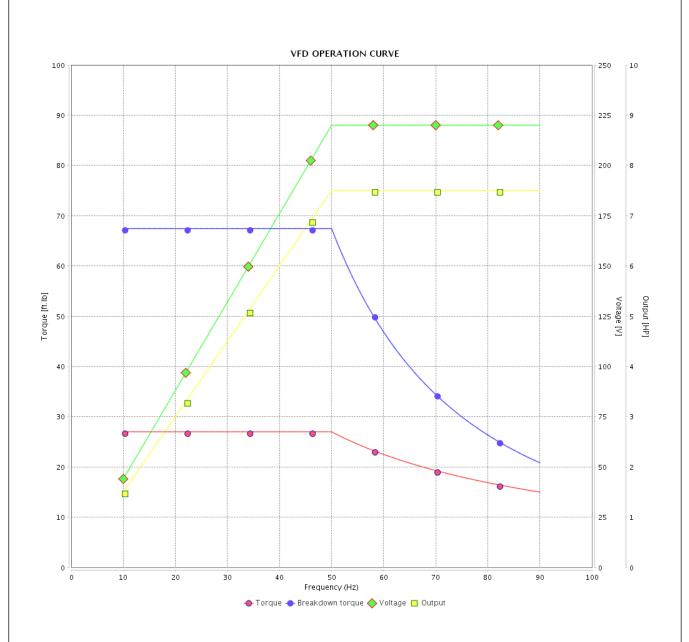
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Product line : NEMA Premium Efficiency Three- Prod

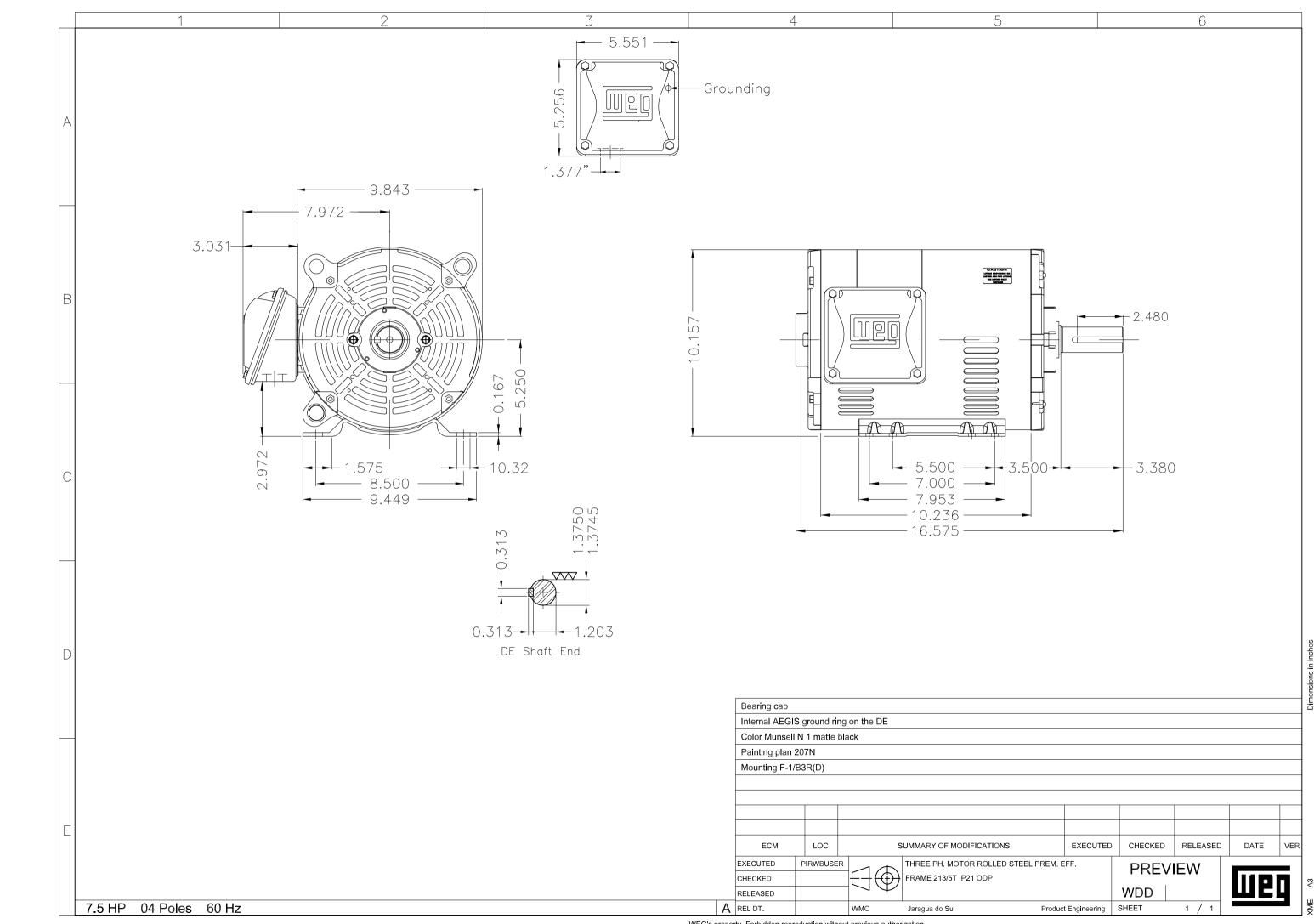
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Product code: 12674978

Catalog #: 00718OT3E213T-SG



Performance : 220/415 V 50 Hz 4P : 20.0/10.6 A Rated current Moment of inertia (J) : 1.03 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 : 27.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % 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





MADE IN MÉXICO



(**UL)**US LISTED 3PT9

& Energy Verifi

> MODEL 007180T3E213T-SG 9 S/N N01.TODICOXON 12674978 2APR2022

4

1000 m.a.s.l F AT 80K 213/5T CONT

18.5/9.25

230/460 1.15

DES

NS CL

2°04 900

CODE SABLE @ 208V 20.5A ALTERNATE RATING:

SF1.00 INC. 2

ZPM 3FA 냃 쌆

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. 5:1 CT NOM. EFF 91.0% 1455RPM 50 Hz 6206-ZZ 7.5HP

22.2-19.6/11.1-10.4A

IEC 60034-1

SF1.15

190-220/380-415V

EFF 88.7%

ODE

8208-ZZ

牌

MOBIL POLYREX EM

T6

T6-GRY

T5-BLK 11-BLU

T2-WHT

T4-YEL

r3-org

conformément aux codes électriques locaux et nationaux afin d'éviter tout

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local

AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit. and national electrical codes to prevent serious electrical

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

T8-RED RED T7-PNK T9-BRK