DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : Rolled Steel NEMA Premium Product code: 12674978 Efficiency Three-Phase Catalog #: 00718OT3E213T-SG Frame : 213/5T Locked rotor time : 23s (cold) 13s (hot) Output : 7.5 HP (5.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Frequency : 60 Hz Rated voltage : 230/460 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 18.5/9.25 A : IC01 - ODP L. R. Amperes : 133/66.6 A Mounting : F-1 : Both (CW and CCW) LRC : 7.2x(Code H) Rotation¹ No load current : 8.79/4.39 A Noise level² : 59.0 dB(A) Rated speed : 1770 rpm Starting method : Direct On Line Slip : 1.67 % Approx. weight³ : 117 lb Rated torque : 22.3 ft.lb Locked rotor torque : 240 % Breakdown torque : 320 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.03 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 91.0 : 366 lb Efficiency (%) 88.6 89.5 90.2 Max. traction Power Factor 0.39 0.82 : 483 lb 0.65 0.77 Max. compression

Bearing type : 6208 ZZ 6206 ZZ
Sealing : Without Bearing Seal Without Bearing Seal
Lubrication interval : - - -

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



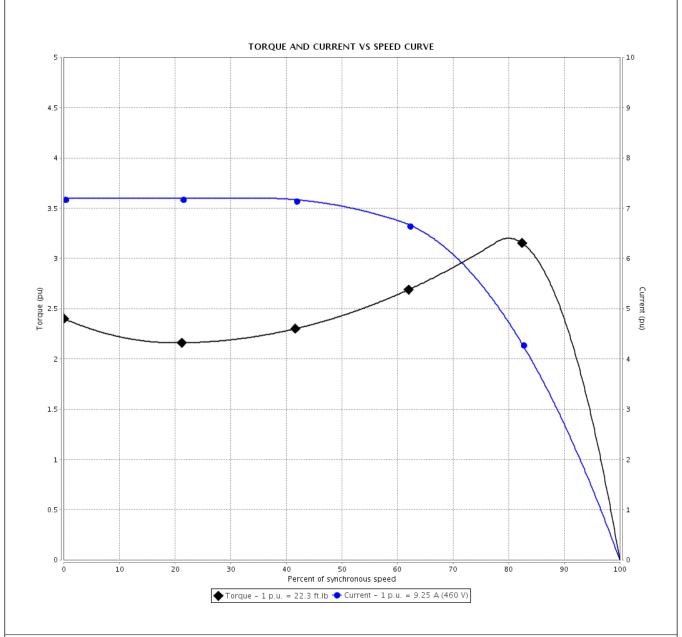
Customer :

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12674978

Catalog #: 00718OT3E213T-SG



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

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



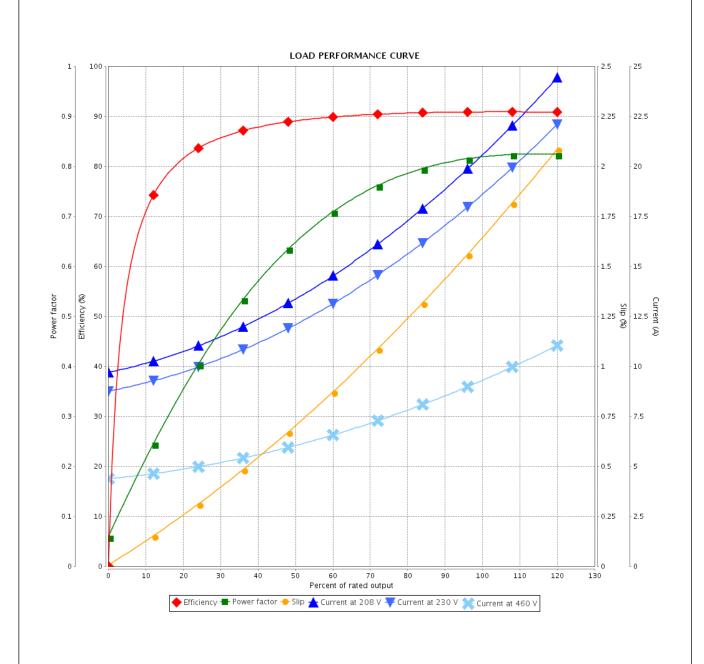
Customer

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12674978

Catalog #: 00718OT3E213T-SG



Performance	: 2	: 230/460 V 60 Hz 4P						
Rated current	: 1	: 18.5/9.25 A Moment o		f inertia (J)	: 1.03 sq.ft.lb			
LRC	: 7	.2	Duty cycle		: Cont.(S1)			
Rated torque	: 2	: 22.3 ft.lb Insulation cla : 240 % Service facto : 320 % Temperature : 1770 rpm Design		class	:F			
Locked rotor torque	e : 2			ctor : 1.15				
Breakdown torque	: 3			ıre rise	: 80 K			
Rated speed	: 1			Design				
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



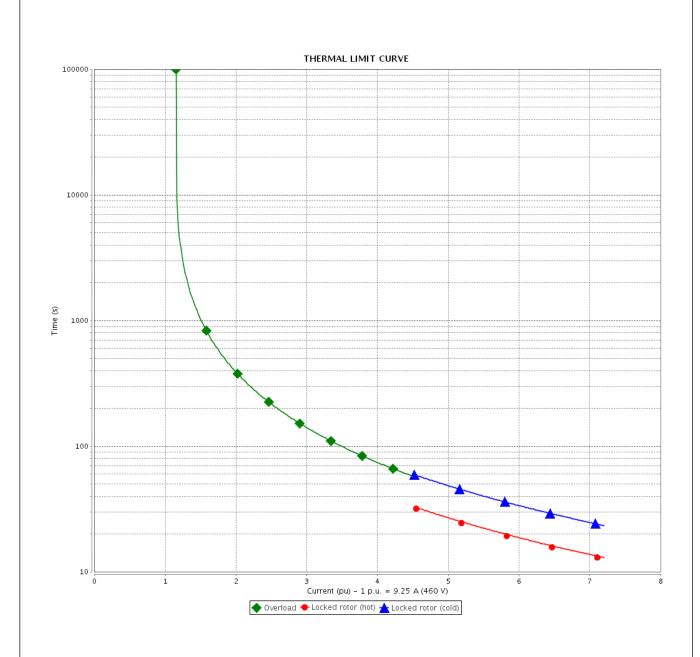
Customer	:					
Product line		Rolled Steel NEMA Premius Efficiency Three-Phase	m	Product code :	12674978	
	-	indicately trace trace		Catalog # :	00718OT3E2	:13T-SG
Performance	: 2	 230/460 V 60 Hz 4P				
Rated current		18.5/9.25 A	Moment o	f inertia (J)	: 1.03 sq.ft.lb	
LRC	: 7	7.2	Duty cycle	•	: Cont.(S1)	
Rated torque Locked rotor torc		22.3 ft.lb 240 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		320 %	Temperati		: 80 K	
Rated speed		1770 rpm	Design		: B	
Heating constant	<u> </u>					
Cooling constant						
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

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Date

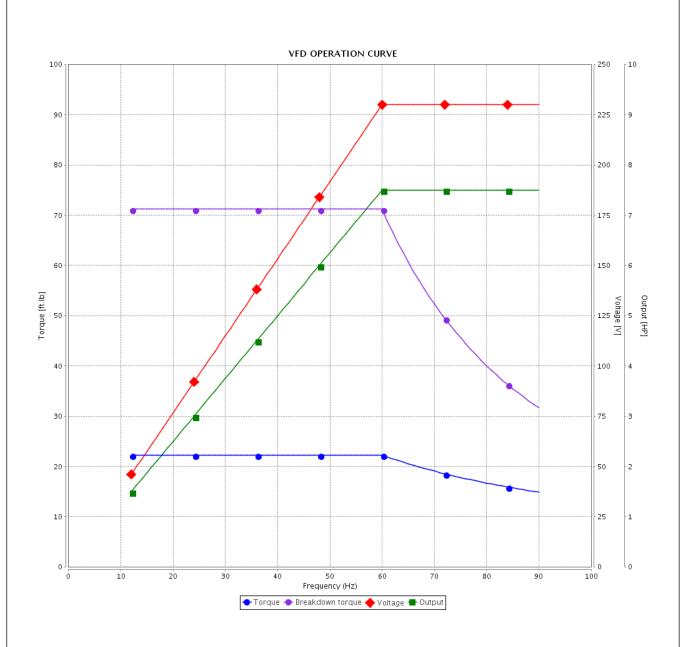
20/04/2020

Product line : Rolled Steel NEMA Premium

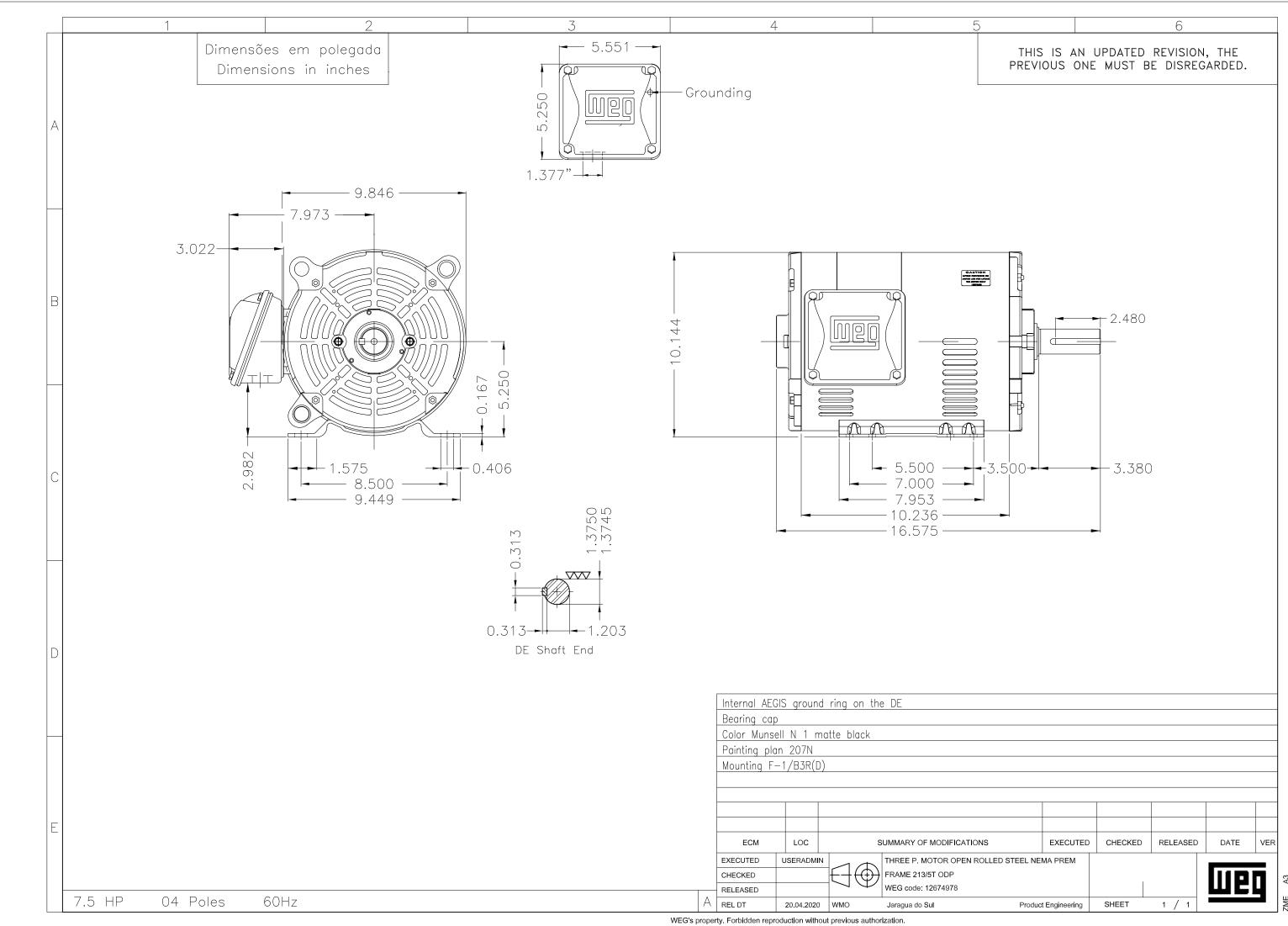
Efficiency Three-Phase

Product code: 12674978

Catalog #: 00718OT3E213T-SG



Performance : 230/460 V 60 Hz 4P : 18.5/9.25 A Rated current 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 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





(**VL)**US LISTED 3PT9

> (MA)/dH MODEL 00718OT3E213T-SG CC029A 213/5T S/N W01.TO0IC0X0N MAT: 12674978

RPM 7.5(5.5)

07ABR2020

æ 230/460

PH 3

PUTY

ř CONT

(**(Energy Verified** 9

ENCL DES SF1.00 40°C CODE NEMA NOM.EFF. 91.0% 80K AMB

INS CL F AT

SFA 21.3/10.6

18.5/9.25

9

8

190-220/380-415V EFF 86.7% (IE1) 20.5A USABLE @ 208V 50Hz 1455RPM

7.5HP

ALTERNATE RATING:

m.a.s.l.

1000

0.82 SF 1.15

22.2-19.6/11.1-10.4A

IEC 60034-1

SF1.15

r1-BLU

r3-ORG

T5 2T6

T2-WHT T4-YEL T6-GRY T8-RED

P-BRK RFD 15-BI K L7-PNK

Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 5:1 CT WARNING: Motor must be grounded in accordance with local and national MOBIL POLYREX EM INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION 6206-ZZ

ODE

5208-ZZ

electrical codes to prevent serious electrical shocks. Disconnect power AVERTISSEMENT: Le moteur doit être mis à la terre conformément aux codes électriques locaux et nationaux afin d'éviter tout choc

source before servicing unit.

