DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : Rolled Steel NEMA Premium Product code: 12630848 Efficiency Three-Phase Catalog #: 01018ET3E215T-S Frame : 213/5T Locked rotor time : 27s (cold) 15s (hot) Output : 10 HP (7.5 kW) Temperature rise : 80 K Poles : 4 Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 208-230/460 V : 1000 m.a.s.l. Altitude Rated current : 27.0-24.4/12.2 A Protection degree : IP55 L. R. Amperes : 189-171/85.4 A Cooling method : IC411 - TEFC LRC : 7.0x(Code H) Mounting : F-1 No load current : 9.56-11.1/5.54 A Rotation¹ : Both (CW and CCW) Rated speed : 1760 rpm Noise level² : 60.0 dB(A) Starting method Slip : 2.22 % : Direct On Line Rated torque : 29.4 ft.lb Approx. weight³ : 127 lb Locked rotor torque : 250 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.07 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 91.0 91.0 91.7 : 526 lb Efficiency (%) Max. traction : 653 lb Power Factor 0.78 0.84 0.67 Max. compression Drive end Non drive end 6206 ZZ Bearing type 6208 ZZ Sealing V'Ring V'Ring Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

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



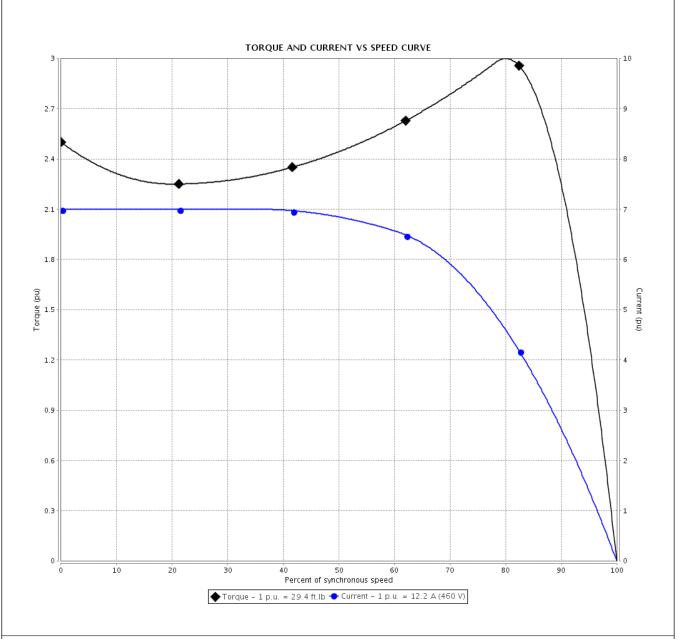
Customer :

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12630848

Catalog #: 01018ET3E215T-S



Performance : 208-230/460 V 60 Hz 4P

Rated current : 27.0-24.4/12.2 A Moment of inertia (J) : 1.07 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 29.4 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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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



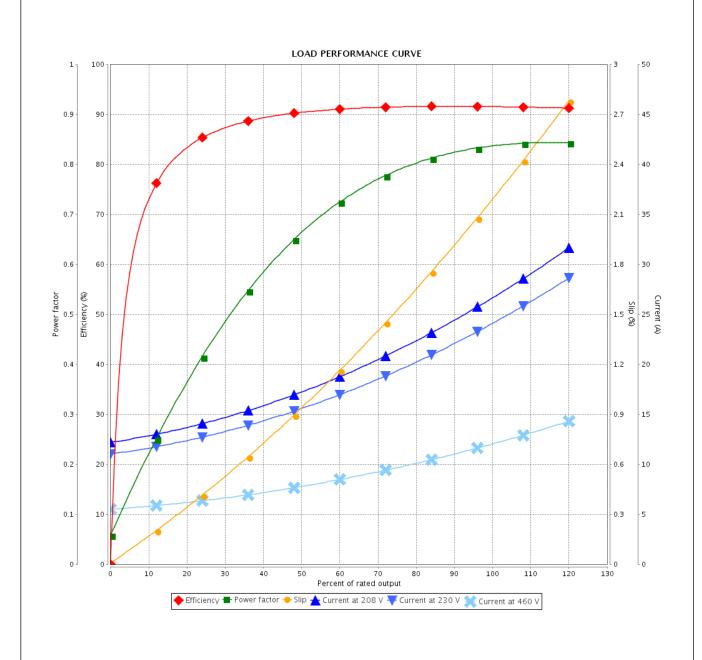
Customer

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12630848

Catalog #: 01018ET3E215T-S



Performance	:	: 208-230/460 V 60 Hz 4P						
Rated current	:	7.0-24.4/12.2 A Moment of inertia (J)		: 1.07 sq.ft.lb				
LRC		7.0	Duty cycle		: Cont.(S1)			
Rated torque	:	29.4 ft.lb	Insulation class		:F			
Locked rotor torque	e :	250 %	Service factor		: 1.15			
Breakdown torque	:	300 %	Temperature rise		: 80 K			
Rated speed	:	1760 rpm	Design		: B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



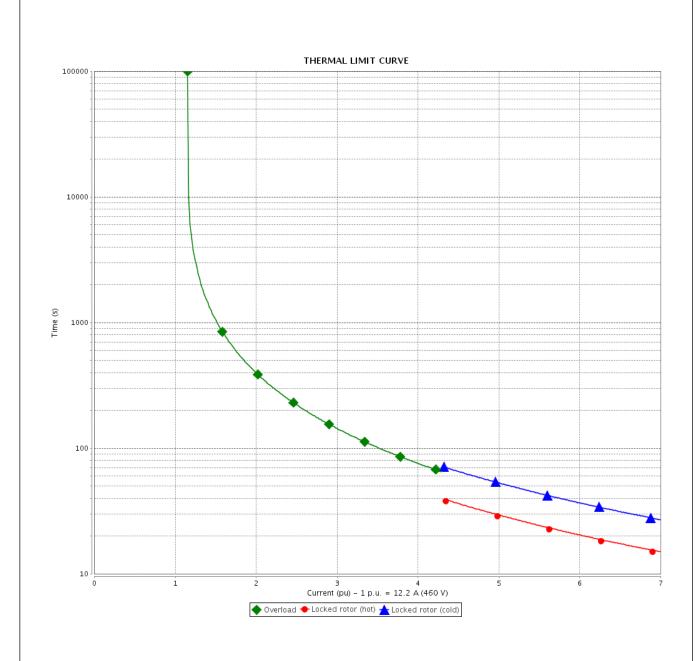
Customer	:					
Product line	:1	Rolled Steel NEMA Premiu	m l	Product code :	12630848	
		fficiency Three-Phase				45T O
				Catalog # :	01018ET3E2	151-8
Performance	: 20	08-230/460 V 60 Hz 4P				
Rated current		7.0-24.4/12.2 A	Moment of	f inertia (J)	: 1.07 sq.ft.lb	
LRC Rated torque	: 7.	.0 9.4 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torque	e : 2	50 %	Service fa	ctor	. г : 1.15	
Breakdown torque	: 30	00 %	Temperatu		: 80 K	
Rated speed	: 17	760 rpm	Design		: B	
Heating constant						
Cooling constant		Oh		Dest	Ob. 1	Б.
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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



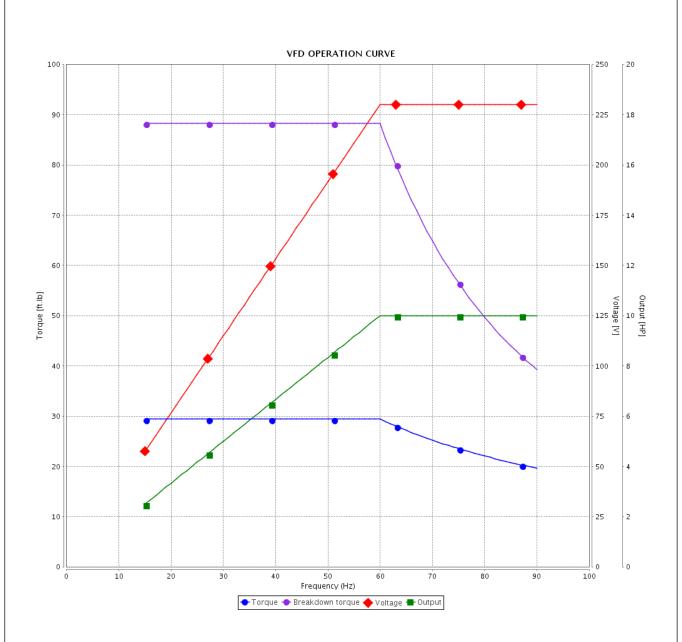
Customer :

Product line : Rolled Steel NEMA Premium

Efficiency Three-Phase

Product code: 12630848

Catalog #: 01018ET3E215T-S

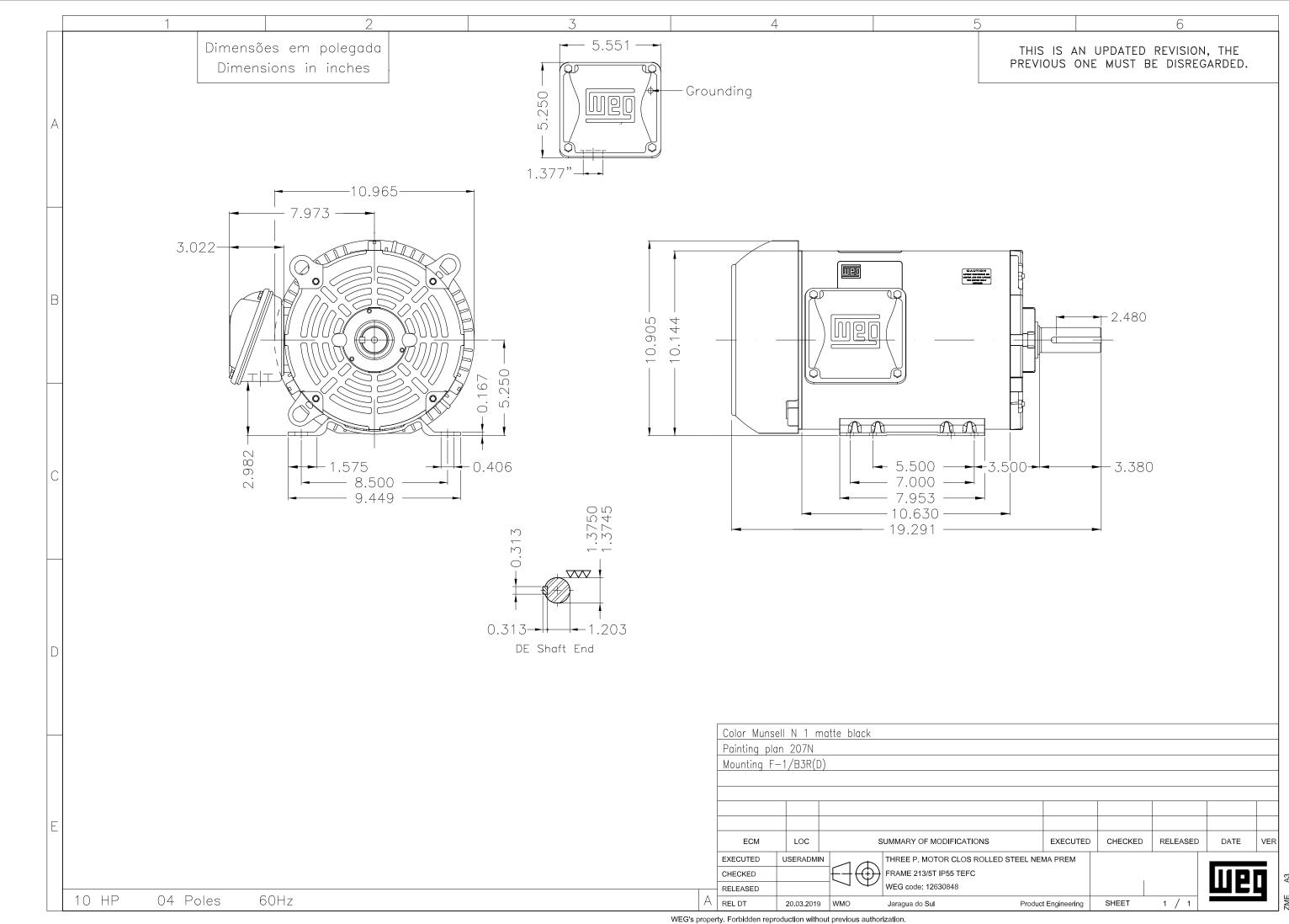


Performance	: 208-230/460 V 60 Hz 4P				
Rated current	: 27.0-24.4/12.2 A	: 27.0-24.4/12.2 A Moment of inertia (J)		: 1.07 sq.ft.lb	
LRC	: 7.0	Duty cycle		: Cont.(S1)	
Rated torque	: 29.4 ft.lb	Insulation class		: F	
Locked rotor torque	: 250 %	Service factor		: 1.15	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed	: 1760 rpm	Design	: B		
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20/03/2019

Date





MAT: 12630848

For 60Hz: Class I, Zone 2,

Energy Verified

(**&**)

Class I, Dlv.2, Gr. A.B,C,D - T3

Olv 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1

MODEL 01018ET3E215T-S

W01.TE0IC0X0N

9

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IEC 60034-1

EFF 90.1% (IE3)

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

r1-BLU 15-BLK L7-PNK

TS TE

r3-org

For safe area-Inverter duty For 60Hz use on VPWM 1000:1 VT, 4:1 CT

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

P-BRK RED

MOBIL POLYREX EM

WARNING: Motor must be grounded in accordance with local and national

6206-ZZ

ODE

6208-ZZ

electrical codes to prevent serious electrical shocks. Disconnect power

AVERTISSEMENT: Le moteur doit être mis à la terre conformément

source before servicing unit.

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

électrique grave. Déconnectez l'allmentation avant l'entretien de la machine

SF1.15

190-220/380-415V

SF1.00

27.0A

USABLE @ 208V 50Hz 1465RPM

m.a.s.l.

1000

0.84 SF 1.15

7.5HP

ALTERNATE RATING:

22.4-20.6/11.2-10.9A

NEMA NOM.EFF. 91.7%

INS CL F AT

SFA 28.1/14.0

24.4/12.2

P55

B

DES

CODE 1760

CONT

Z D D 80K AMB

NdS

HP/kW) 10/7.5)

213/5T

뚠 230/460

H

S/N

20MAR2019

ENCL