DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12675415 Catalog #: 00312ET3H213T-S Frame : 213/5T Locked rotor time : 82s (cold) 46s (hot) Output : 3 HP (2.2 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V : 1000 m.a.s.l. Altitude Rated current : 3.34 A Protection degree : IP55 L. R. Amperes : 21.4 A Cooling method : IC411 - TEFC : 6.4x(Code H) LRC Mounting : F-1 No load current : 1.88 A Rotation¹ : Both (CW and CCW) Rated speed : 1175 rpm Noise level² : 55.0 dB(A) Starting method Slip : 2.08 % : Direct On Line Rated torque : 13.4 ft.lb Approx. weight³ : 125 lb Locked rotor torque : 229 % Breakdown torque : 290 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.08 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 85.5 88.5 89.5 : 156 lb Efficiency (%) 84.3 Max. traction : 282 lb Power Factor 0.55 0.67 0.74 0.32 Max. compression Drive end Non drive end Bearing type 6208 ZZ 6206 ZZ Sealing V'Ring Without Bearing Seal 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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



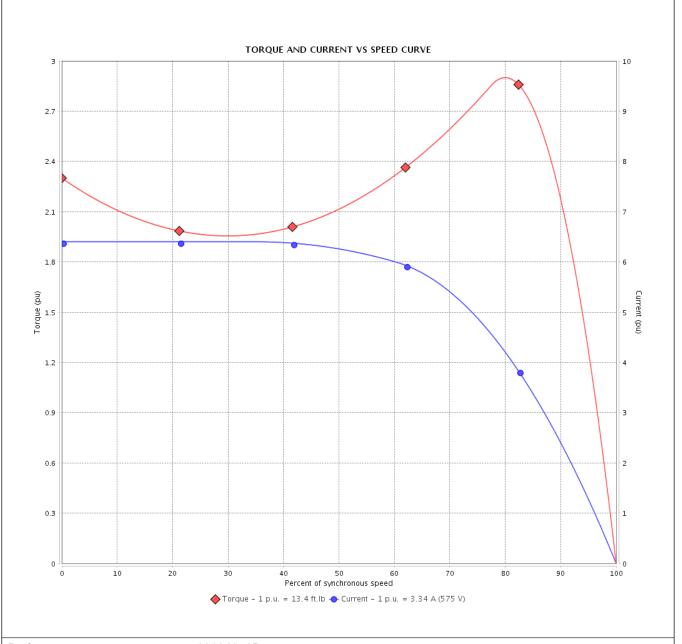
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 12675415

Catalog #: 00312ET3H213T-S



Performance : 575 V 60 Hz 6P Rated current : 3.34 A Moment of inertia (J) : 1.08 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 13.4 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.15

Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

Locked rotor time : 82s (cold) 46s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



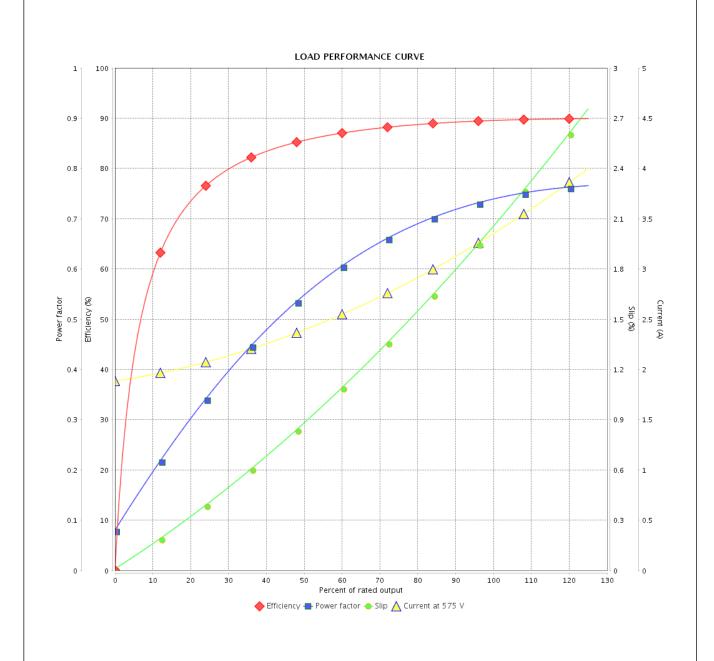
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00312ET3H213T-S

12675415



Performance		575 V 60 Hz 6P				
Rated current		3.34 A Moment of inertia (J)			: 1.08 sq.ft.lb	
LRC		6.4	l l	Duty cycle		
Rated torque		13.4 ft.lb	, ,	Insulation class		
Locked rotor torque		229 %		Service factor		
Breakdown torque		290 %		Temperature rise		
Rated speed		1175 rpm	Design	•		
Rev.		Changes Summar	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				3/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



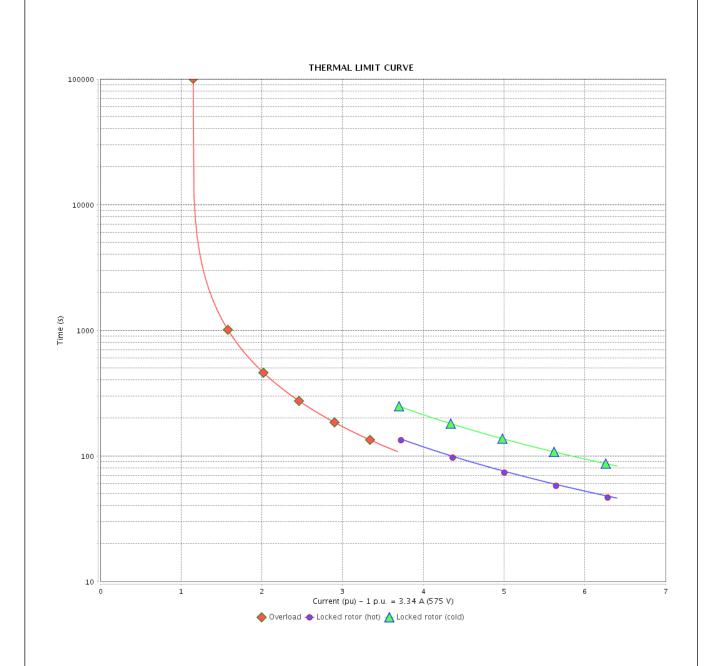
Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	12675415	
		Phase				407.0
				Catalog # :	00312ET3H2	131-S
Performance		: 575 V 60 Hz 6P				
Rated current		: 3.34 A	Moment o	of inertia (J)	: 1.08 sq.ft.lb	
LRC	:	: 6.4	Duty cycle	9	: Cont.(S1)	
Rated torque		: 13.4 ft.lb : 229 %	Insulation Service fa		: F : 1.15	
Locked rotor tord Breakdown torqu		: 290 %	Temperati		: 80 K	
Rated speed		: 1175 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by					·	
Checked by					Page	Revision
Date	14/04/2022				4/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					1
Checked by				Page	Revision
Date	14/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

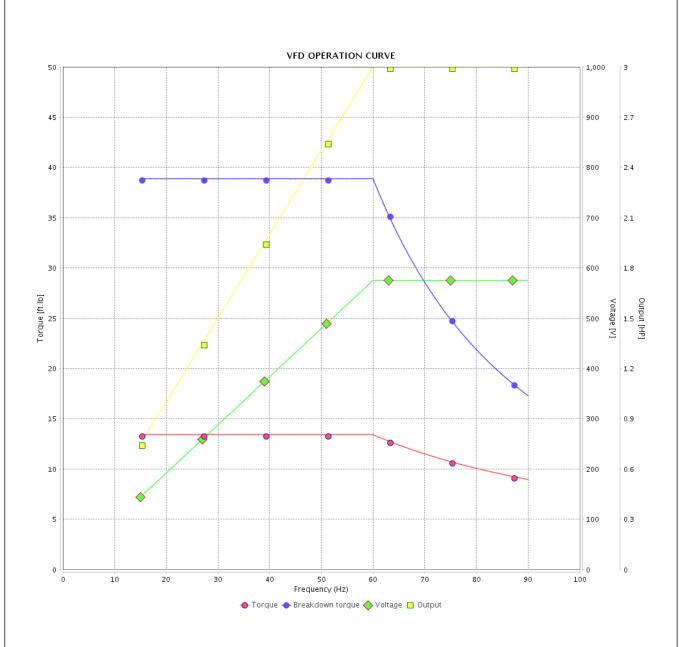
14/04/2022

Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 12675415

Catalog #: 00312ET3H213T-S

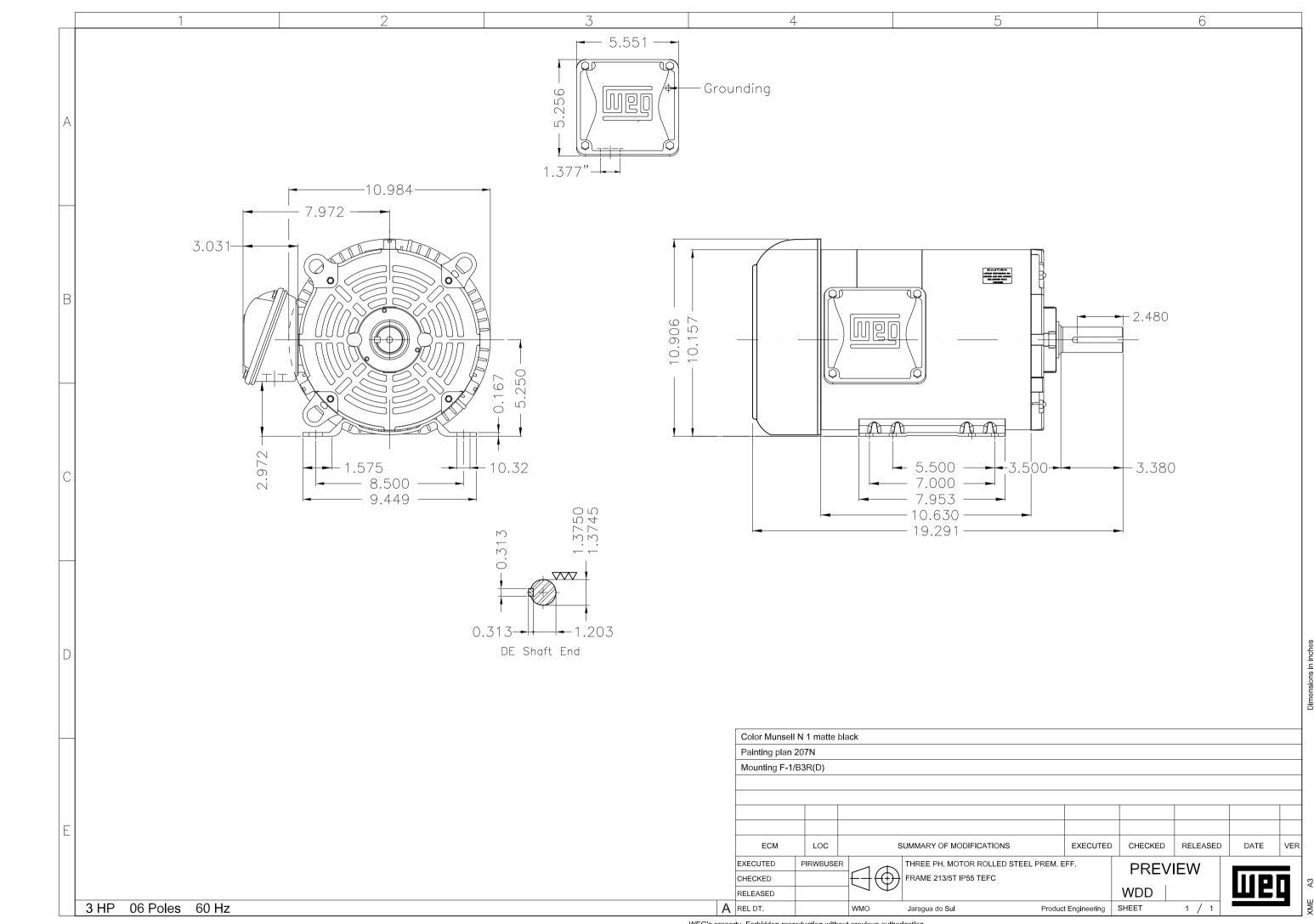


Performance	:	575 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		3.34 A 6.4 13.4 ft.lb 229 % 290 % 1175 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.08 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.		Changes Summary	'	Performed	Checked	Date
Performed by						

Page

6/6

Revision





Ž Z Z

& Energy Verified

> (UL) US LISTED 3PT9

FOR SAFE AREA

CC029A N01.TE0IC0X0N 12675415

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 CT 2:1/VT 1000:1 Div 2 Inverter Duty (SF1.00)

> 8 S/N 2 1T003506NPW01 213/51 **18APR2022**

1000 m.a.s.l

CONT

575 3.3 3.84

> P55 CODE SH

> > F AT 80K

NSC INC. W_A

TEFC 0

1.15

NEMA ZPM 3FA 쑮 쌆

For safe area-inverter duty motor For use on VPWM 1000:1 VT, 4:1 CT NOM. EFF 89.5%

ODE 6206-2Z

8208-ZZ

牌

MOBIL POLYREX EM

T2-WHT

T1-BLU

r3-ORG



T4-YEL

choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine AVERTISSEMENT: Le moteur doit être mis à la terre shocks. Disconnect power source before servicing unit. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical