### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12675404 Catalog #: 00518ET3H184T-S Frame : 182/4T Locked rotor time : 28s (cold) 16s (hot) Output : 5 HP (3.7 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 : 5.19 A Protection degree : IP55 L. R. Amperes : 36.3 A Cooling method : IC411 - TEFC : 7.0x(Code J) LRC Mounting : F-1 No load current : 2.75 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1750 rpm Noise level<sup>2</sup> : 56.0 dB(A) Starting method Slip : 2.78 % : Direct On Line Rated torque : 15.0 ft.lb Approx. weight<sup>3</sup> : 76.9 lb Locked rotor torque : 220 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.3080 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 89.5 89.5 : 249 lb Efficiency (%) 88.2 88.5 Max. traction : 326 lb Power Factor 0.35 0.60 0.73 0.80 Max. compression Drive end Non drive end Bearing type 6206 ZZ 6205 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.

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



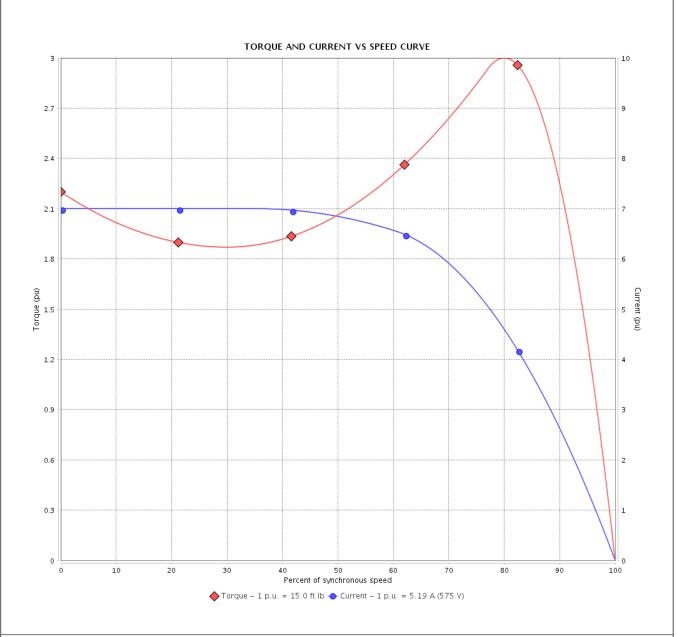
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 12675404

Catalog #: 00518ET3H184T-S



Performance : 575 V 60 Hz 4P Rated current : 5.19 A Moment of inertia (J) : 0.3080 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 15.0 ft.lb Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1750 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage

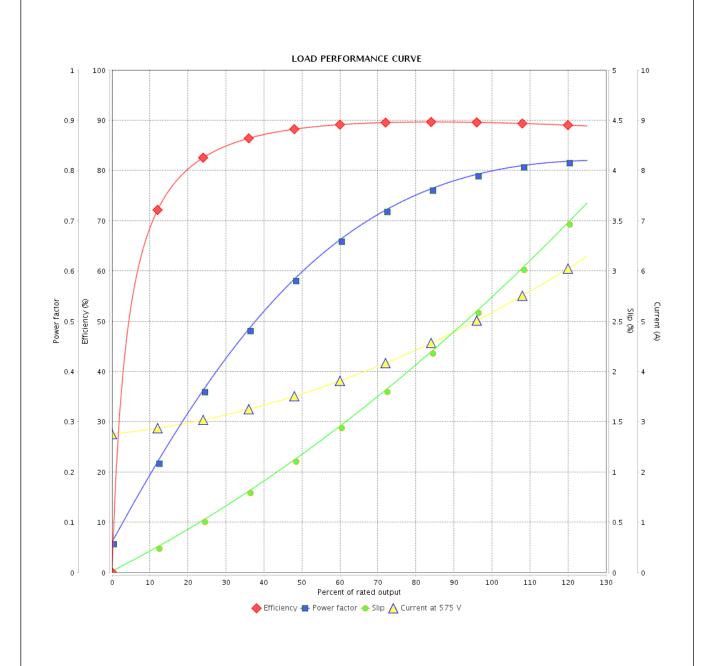


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12675404

Phase

Catalog #: 00518ET3H184T-S



	<u> </u>		,			
Performance	: 5	75 V 60 Hz 4P				
Rated current	: 5.	19 A	Moment of inertia (J)		: 0.3080 sq.ft.lb	
LRC :		0	Duty cycle		: Cont.(S1)	
Rated torque	: 19	5.0 ft.lb Insulation class		: F		
Locked rotor torq	jue : 22	: 220 % Service factors: 300 % Temperature		ctor	: 1.15	
Breakdown torqu	ie : 30			Temperature rise Design		
Rated speed	: 1750 rpm		Design			
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## THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



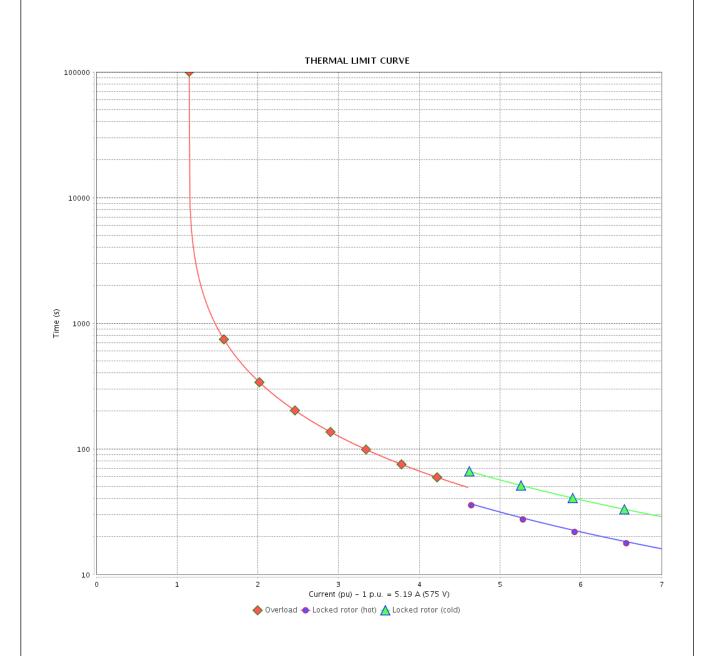
Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12675404 00518ET3H1	84T-S
Performance		: 575 V 60 Hz 4P	I			
Rated current LRC		: 5.19 A : 7.0	Moment of Duty cycle	of inertia (J) e	: 0.3080 sq.ft.l : Cont.(S1)	b
Rated torque		: 15.0 ft.lb : 220 %	Insulation Service fa	class	: F : 1.15	
Locked rotor tord Breakdown torqu		: 300 %	Temperat		: 80 K	
Rated speed		: 1750 rpm	Design		: B	
Heating constan						
Cooling constan	t	Changes Commercial		Dorformer	Charles -	Data
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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 :

Checked by

Date

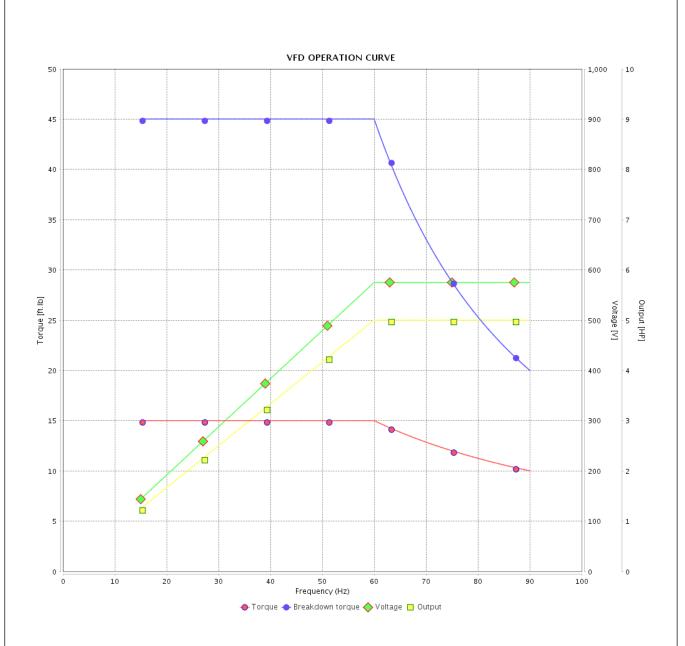
12/04/2022

Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 12675404

Catalog #: 00518ET3H184T-S

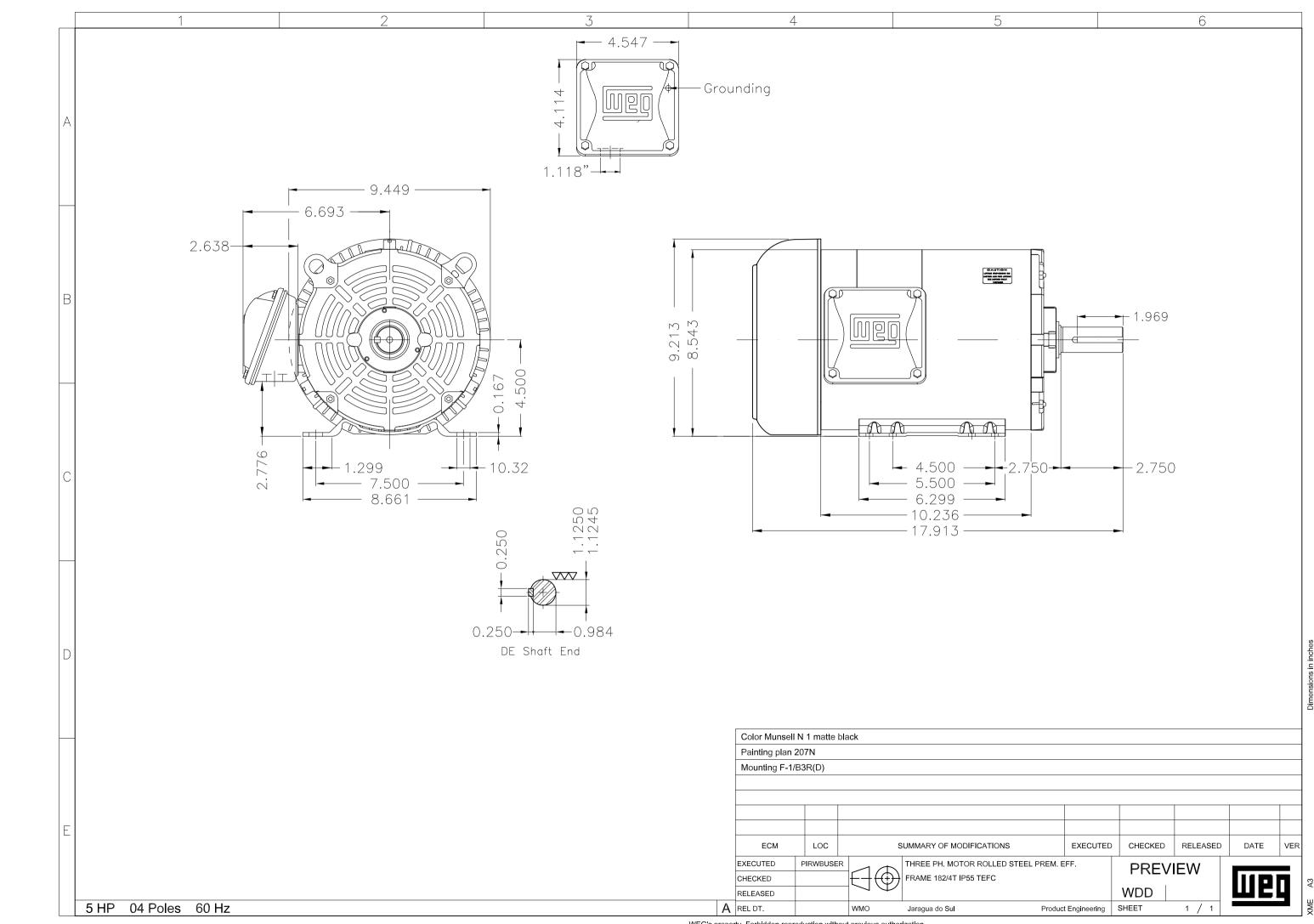


Performance		: 575 V 60 Hz 4F	<b>D</b>				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 7.0 Duty cyc : 15.0 ft.lb Insulation : 220 % Service f : 300 % Tempera		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.3080 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Revision





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Energy Verified

> (**UL)**US LISTED 3PT9

FOR SAFE AREA

CC029A N01.TE0IC0X0N 12675404

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)

> S/N 1T005504NPW01

8 2 182/4T 28FEB2022

P55 1000 m.a.s.l

CONT

CODE SH

F AT 80K

NSC INC. WB

TEFC <del>0</del>

1.15 575 5.19 5.97

NOM. EFF 89.5%

NEMA ZPM 3FA 냃 쌆

For safe area-inverter duty motor For use on VPWM 1000:1 VT, 4:1 CT ODE 6205-22

8206-ZZ

牌

MOBIL POLYREX EM

T2-WHT r3-ORG

T1-BLU

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION





choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine 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 ind national electrical codes to prevent serious electrical