DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12845393 Catalog #: 00518ET3P184T-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 : 200 V : 1000 m.a.s.l. Altitude Rated current : 14.9 A Protection degree : IP55 L. R. Amperes : 104 A Cooling method : IC411 - TEFC : 7.0x(Code J) LRC Mounting : F-1 No load current : 7.92 A Rotation¹ : Both (CW and CCW) Rated speed : 1750 rpm Noise level² : 56.0 dB(A) Starting method Slip : 2.78 % : Direct On Line Rated torque : 15.0 ft.lb Approx. weight³ : 77.6 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

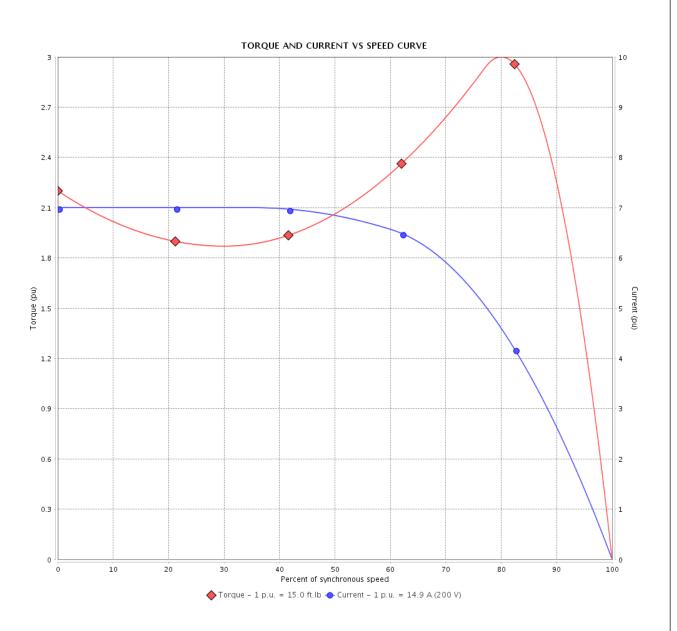


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12845393

Phase

Catalog #: 00518ET3P184T-S



Performance : 200 V 60 Hz 4P Rated current : 14.9 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 Service factor Locked rotor torque : 220 % : 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

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12845393

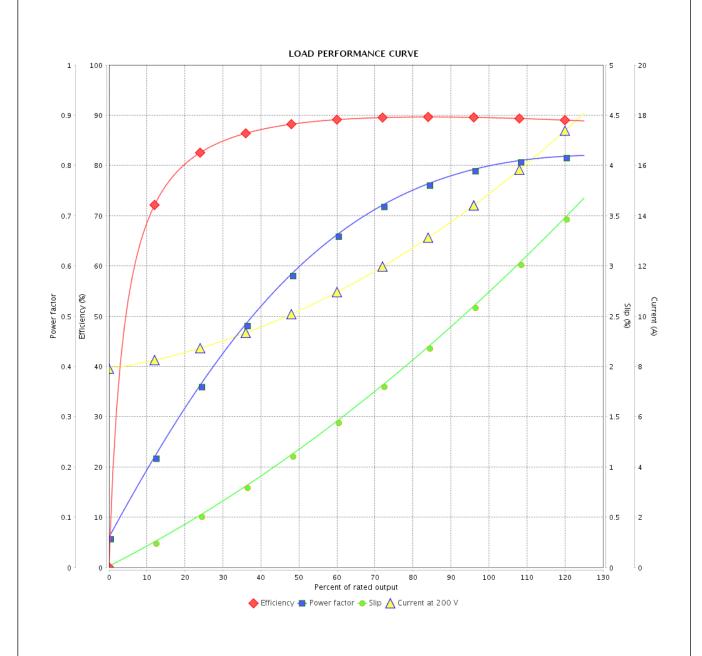
Phase

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Revision



Performance	: 200 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.9 A : 7.0 : 15.0 ft.lb : 220 % : 300 % : 1750 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.3080 sq.ft.ll : Cont.(S1) : F : 1.15 : 80 K : B)
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



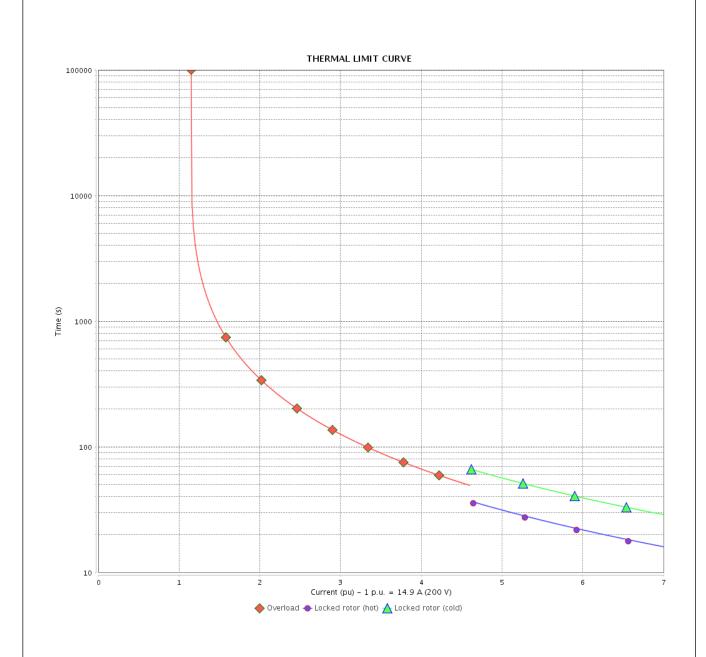
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Product line		NEMA Premium Efficiency hase	Three-	Product code :	12845393	
	F	nase	(Catalog # :	00518ET3P1	84T-S
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu	: 14 : 7. : 18 ue : 22 e : 30	5.0 ft.lb 20 % 00 %	Duty cycle Insulation Service far Temperatu	class ctor	: 0.3080 sq.ft.l : Cont.(S1) : F : 1.15 : 80 K	b
Rated speed Heating constant		750 rpm	Design		: B	
Cooling constant		0. 0				
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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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Customer

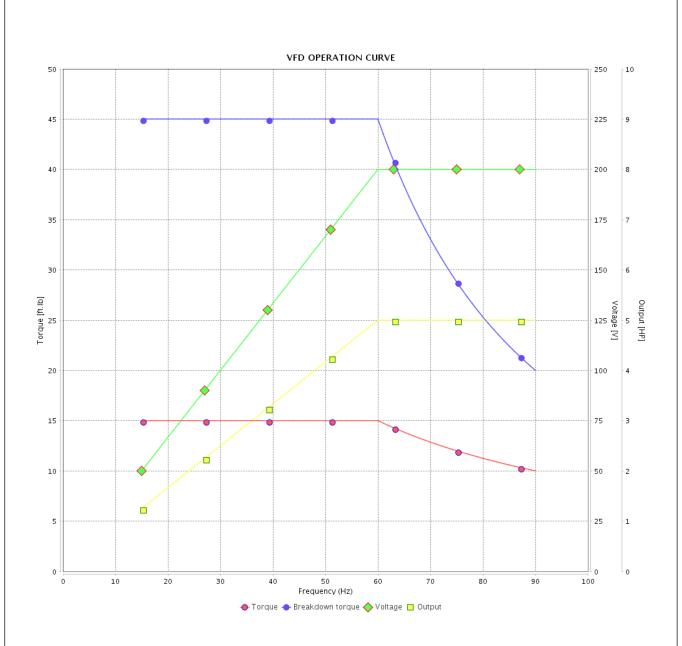
Checked by

12/04/2022

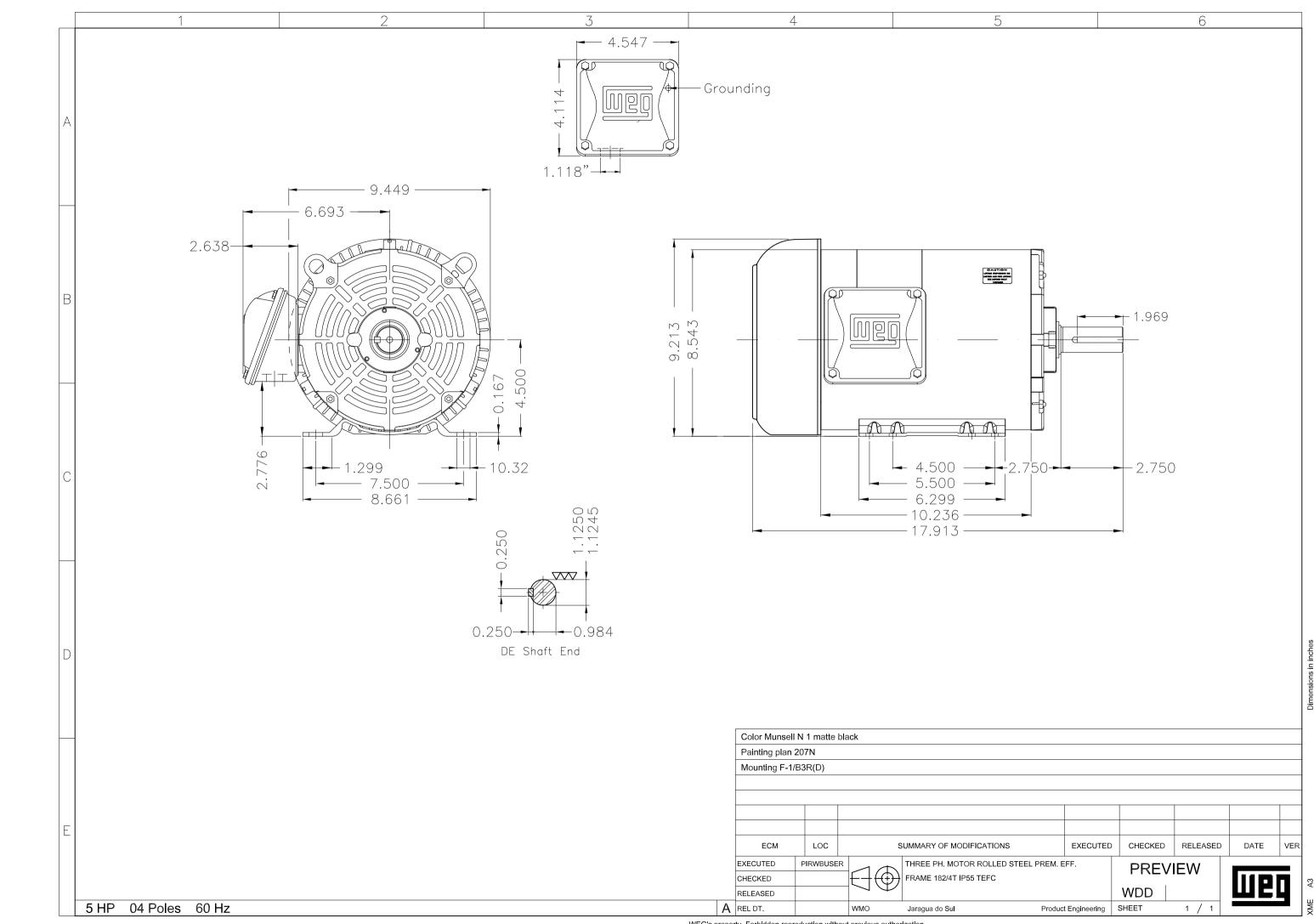
Product line : NEMA Premium Efficiency Three-

Product code: 12845393

Catalog #: 00518ET3P184T-S



Performance : 200 V 60 Hz 4P : 14.9 A Rated current Moment of inertia (J) : 0.3080 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 15.0 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1750 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by





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(**UL)**US LISTED 3PT9

MODEL 00518ET3P184T-S

N01.TE0IC0X0N

12845393

FOR SAFE AREA

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) **&** Energy Verified

> 200 14.9 17.1

Hz 60 S/N

182/4T 7MAR2022

CONT

3FA

P55 CODE SH

F AT 80K

SCI INC. WB

TEFC 0

1000 m.a.s.l

NOM. EFF 89.5% 1.15 NEMA ZPM SF 쌆

For safe area-inverter duty motor For use on VPWM 1000:1 VT, 4:1 CT MOBIL POLYREX EM

ODE 6205-22

8206-ZZ

牌

T1-BLU

TR-GRY 15-BLK T4-YEL



shocks. Disconnect power source before servicing unit. ind national electrical codes to prevent serious electrical



r3-ORG

T2-WHT

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