DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12881320 Catalog #: 00518OT3V184T-S Frame : 182/4T Locked rotor time : 21s (cold) 12s (hot) Output : 5 HP (3.7 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Frequency : 60 Hz Rated voltage : 200/400 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 14.6/7.28 A : IC01 - ODP L. R. Amperes : 105/52.4 A Mounting : F-1 : Both (CW and CCW) LRC : 7.2x(Code J) Rotation¹ No load current : 7.24/3.62 A Noise level² : 55.0 dB(A) Rated speed : 1760 rpm Starting method : Direct On Line Slip : 2.22 % Approx. weight³ : 81.3 lb Rated torque : 14.9 ft.lb : 200 % Locked rotor torque Breakdown torque : 310 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.4003 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 87.5 88.5 88.5 89.5 : 255 lb Efficiency (%) Max. traction : 336 lb Power Factor 0.76 0.82 0.38 0.63 Max. compression Drive end Non drive end Bearing type 6206 ZZ 6205 ZZ Sealing Without Bearing Seal 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

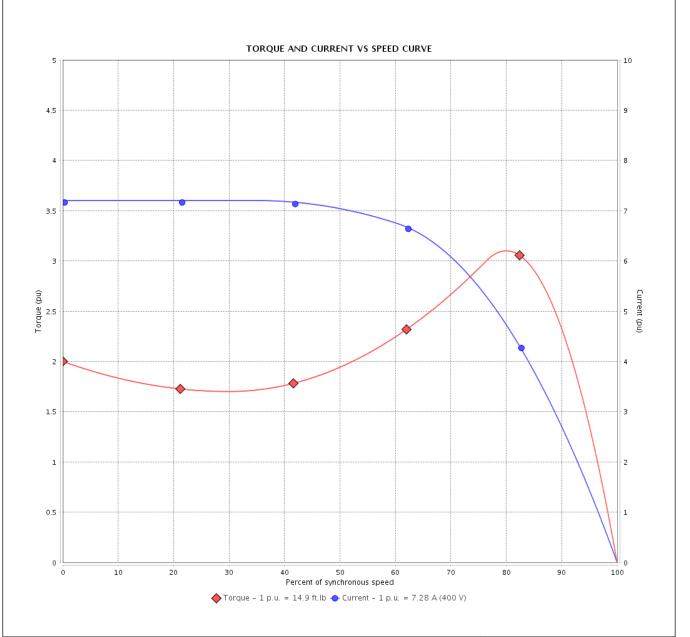


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12881320

Phase

Catalog #: 00518OT3V184T-S



Performance : 200/400 V 60 Hz 4P Rated current : 14.6/7.28 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 14.9 ft.lb : 200 % Locked rotor torque Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

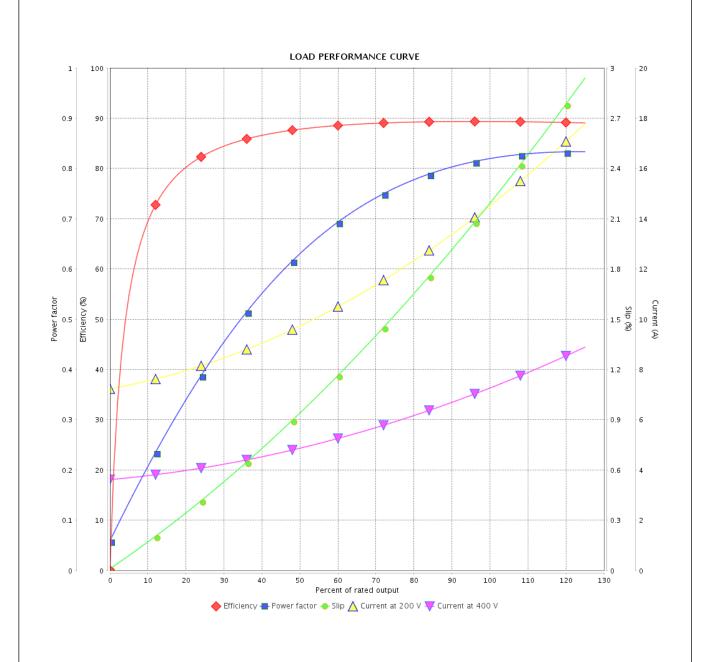


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12881320

Phase

Catalog #: 00518OT3V184T-S



Performance	: 200/400 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.6/7.28 A : 7.2 : 14.9 ft.lb : 200 % : 310 % : 1760 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



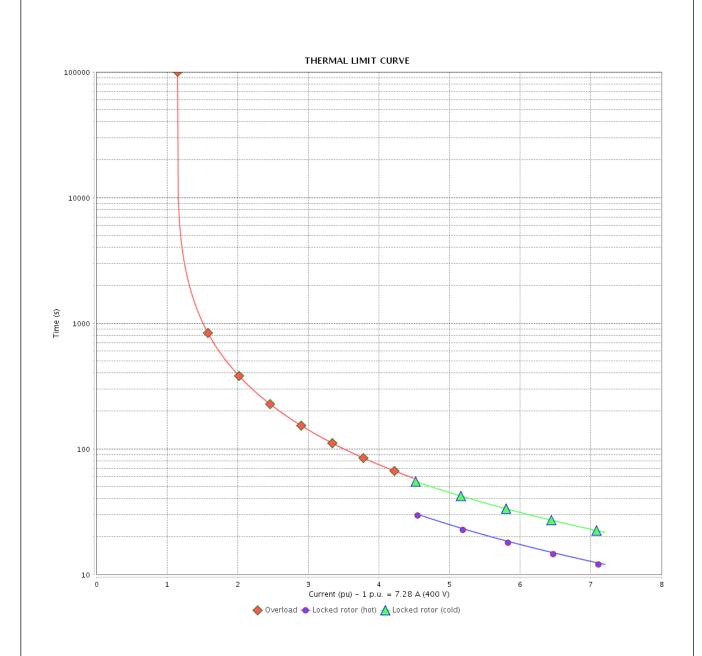
Customer		:				
Product line		: NEMA Premium Efficiency Three- Phase		Product code :	12881320	
				Catalog # :	00518OT3V1	184T-S
		000/400/400/4				
Performance Rated current		: 200/400 V 60 Hz 4P : 14.6/7.28 A	Momont	of inertia (J)	: 0.4003 sq.ft.l	<u> </u>
LRC		: 7.2	Duty cycle	е	: Cont.(S1)	U
Rated torque		: 14.9 ft.lb : 200 %	Insulation Service fa		: F : 1.15	
Locked rotor tord Breakdown torqu		: 200 % : 310 %	Temperat		: 1.15 : 80 K	
Rated speed		: 1760 rpm	Design		: B	
Heating constan	t					
Cooling constant	t					
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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

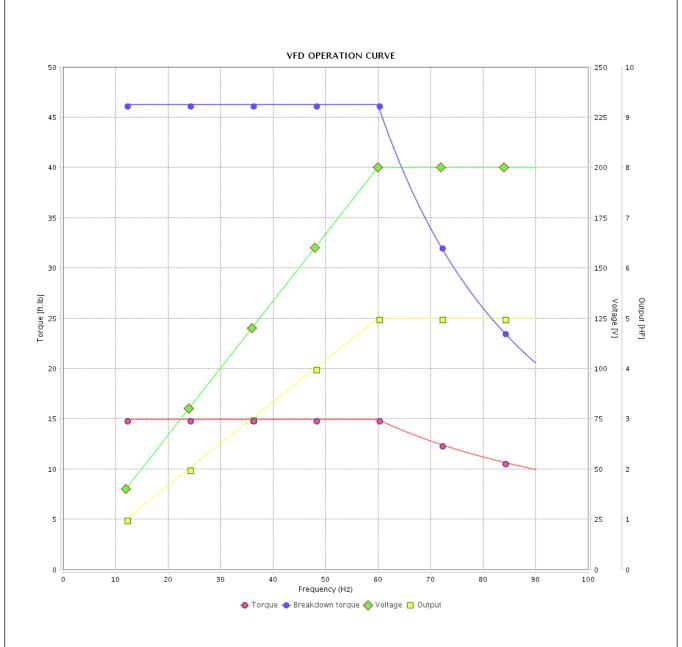
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Product line : NEMA Premium Efficiency Three- Product code :

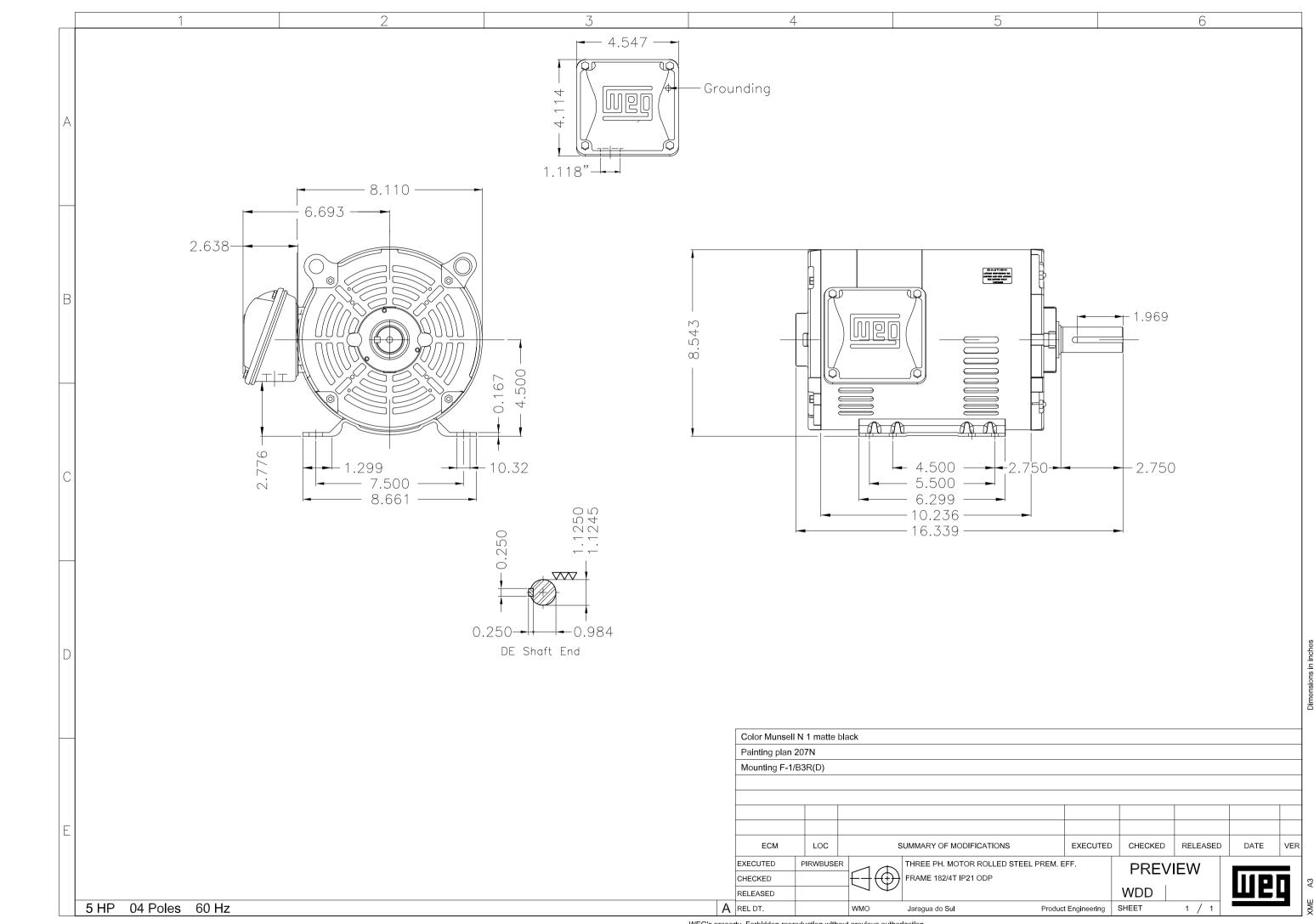
Phase

Product code: 12881320

Catalog #: 00518OT3V184T-S



Performance : 200/400 V 60 Hz 4P : 14.6/7.28 A Rated current Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.2 : 14.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by









Energy Verifi

ODEL 005180T3V184T-S S/N 4AUG2021

V01.TO0IC0X0N

12881320

MADE IN MÉXICO

Hz 60 182/4T CONT

1000 m.a.s.l F AT 80K

14.6/7.28 16.8/8.37

200/400

3000 DES

2°04

SCL INC. 2

ODP

1.15

Inverter duty motor For use on VPWM 1000:1 VT, 5:1 CT 8205-ZZ ODE

89.5%

HAM MON ZPM SFA 냃 뿝

8206-ZZ

MOBIL POLYREX EM

T4-YEL

L2-WHJ T6-GRY

71-BLU 13-ORG

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111

MOT

T9-BRK RED F5-BLK L7-PNK





777



nentation avant l'entretien de la machine

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

choc électrique grave. Déconnectez l'alli

