### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12630643 Catalog #: 00518OT3H184T-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) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 5.06 A : IC01 - ODP L. R. Amperes : 36.5 A Mounting : F-1 : 7.2x(Code J) : Both (CW and CCW) LRC Rotation<sup>1</sup> No load current : 2.52 A Noise level<sup>2</sup> : 55.0 dB(A) Rated speed : 1760 rpm Starting method : Direct On Line Slip : 2.22 % Approx. weight<sup>3</sup> : 81.1 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

Mobil Polyrex EM

Notes

Lubricant type

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	12/04/2022			1/6	

### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



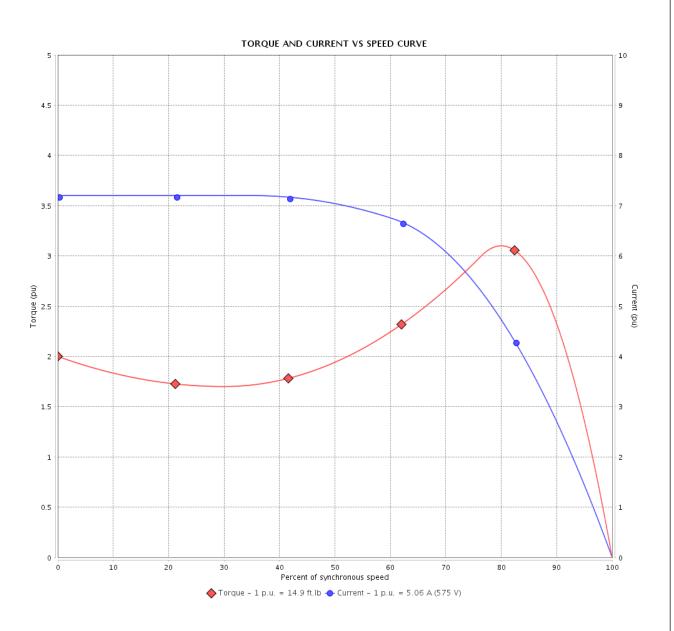
Customer :

Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 12630643

Catalog #: 00518OT3H184T-S



Performance : 575 V 60 Hz 4P Rated current : 5.06 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 % Service factor Locked rotor torque : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2/6	

## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

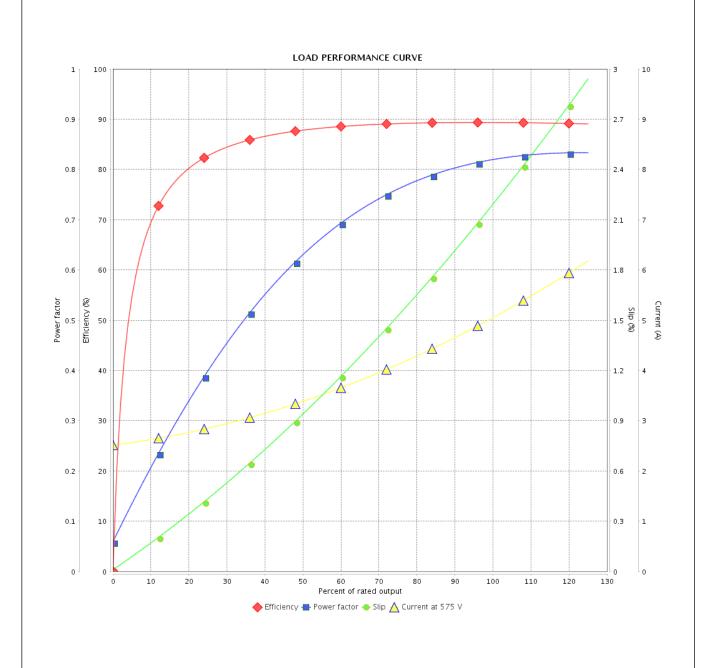


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12630643

Phase

Catalog #: 00518OT3H184T-S



Performance	: 5	575 V 60 Hz 4P					
Rated current		06 A	Moment of inertia (J)		: 0.4003 sq.ft.lb		
LRC :		2	Duty cycle		: Cont.(S1)		
Rated torque		4.9 ft.lb	Insulation class		: F		
Locked rotor torque		00 %	Service factor		: 1.15		
Breakdown torque	: 3°	310 % Tempera		ure rise	: 80 K		
Rated speed	: 17	760 rpm	Design		: B		
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	12/04/2022				3/6		
Date	12/04/2022				0,0		

# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



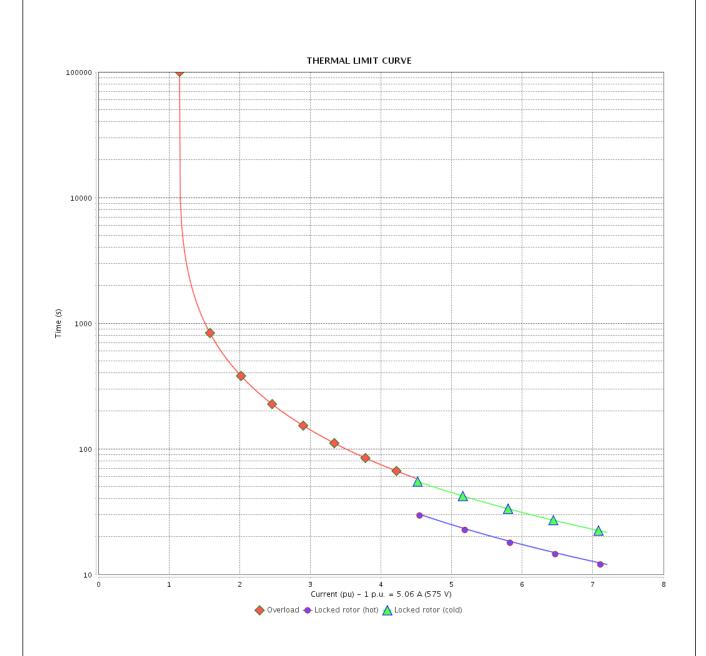
Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12630643	
				Catalog # :	00518OT3H <sup>2</sup>	184T-S
Performance		· 575 \/ 60 Hz 4D				
Rated current		: 575 V 60 Hz 4P : 5.06 A	Moment o	of inertia (J)	: 0.4003 sq.ft.l	b
LRC		: 7.2	Duty cycle	Э	: Cont.(S1)	~
Rated torque Locked rotor tord		: 14.9 ft.lb : 200 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie :	: 310 %	Temperat		: 80 K	
Rated speed		: 1760 rpm	Design		: B	
Heating constan						
Cooling constant	t	Oh a sa a sa		D(	Ob 1 1	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022	_			4/6	

# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			5/6	

## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



Revision

Page 6 / 6

Customer :

Checked by

Date

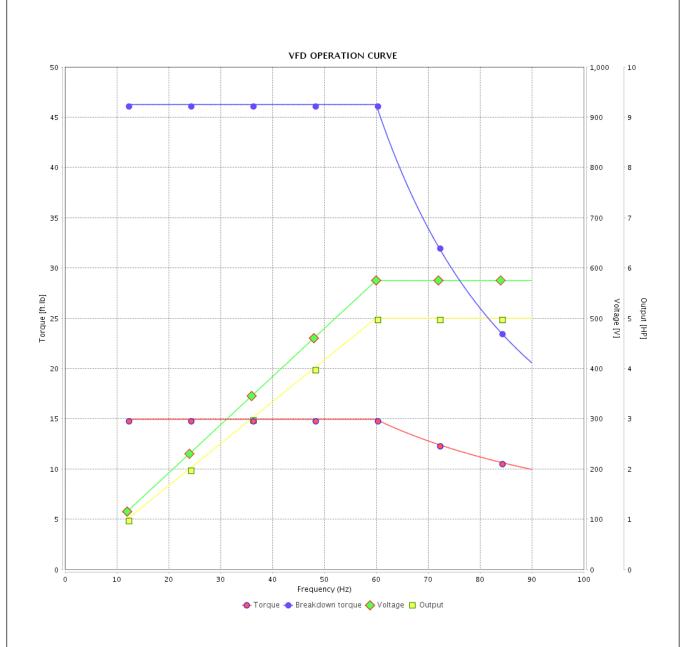
12/04/2022

Product line : NEMA Premium Efficiency Three-

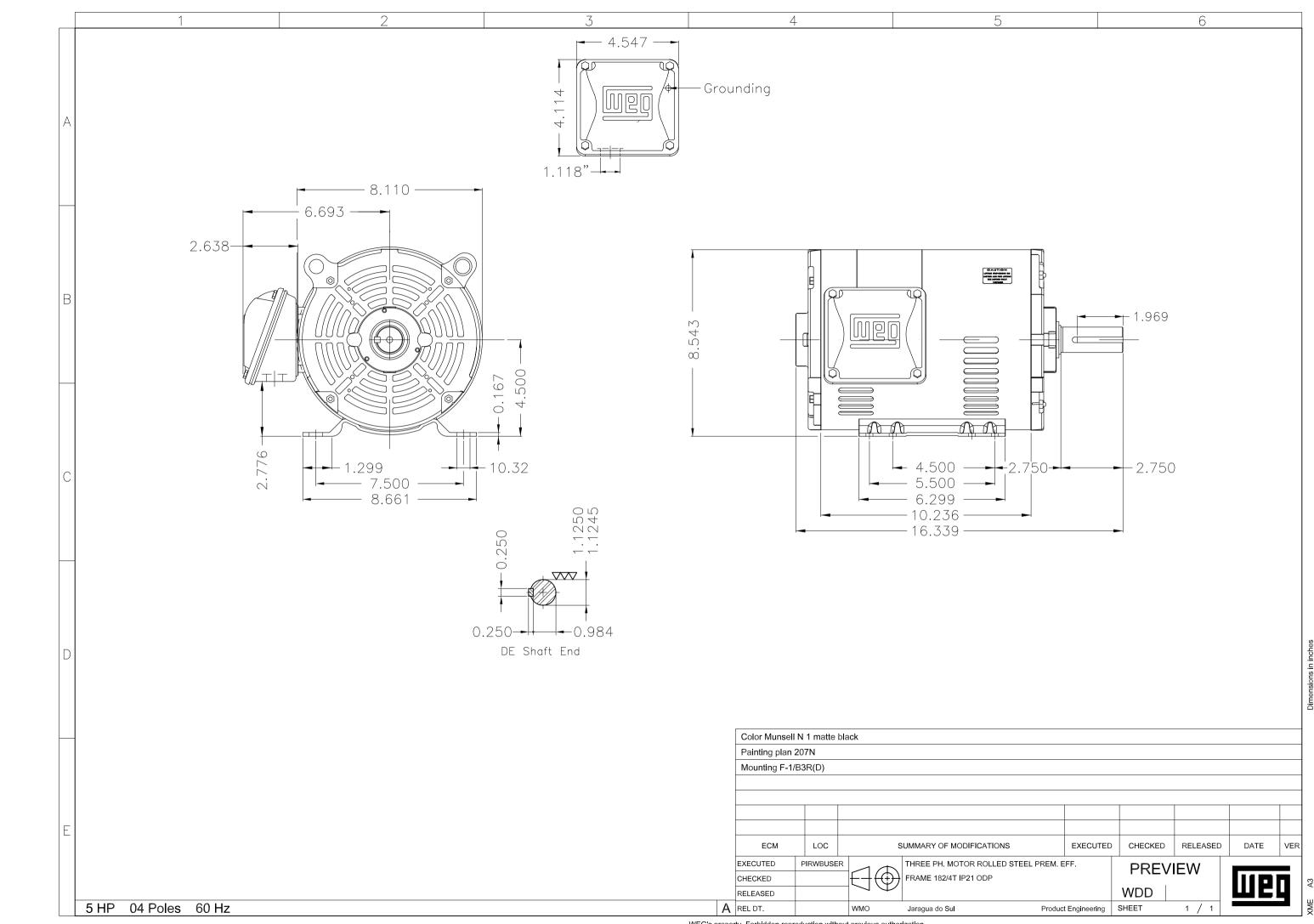
Phase

Product code: 12630643

Catalog #: 00518OT3H184T-S



Performance : 575 V 60 Hz 4P Rated current : 5.06 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 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

3PT9



S/N DP005504NPW01

N01.TODICOXON

CC029A

12630643

MADE IN MÉXICO

8 4 3APR2022

182/4T

CONT

1000 m.a.s.l

5.06 5.82 1.15 0.82

575

DES

F AT 80K

NSC NCL WB

2°04

ODP

3FA 쑮

CODE

쌆

ZPM

NEMA

NOM. EFF 89.5%

Inverter duty motor For use on VPWM 1000:1 VT, 5:1 CT MOBIL POLYREX EM

ODE 6205-22

8206-ZZ

牌

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

