### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : Premium Efficiency Three-Phase Product code: 13326501 Catalog #: .5018OT3H56-S Locked rotor time Frame : 56 : 48s (cold) 27s (hot) Output : 0.5 HP (0.37 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Frequency : 60 Hz Ambient temperature : -20°C to +40°C Rated voltage : 575 V Altitude : 1000 m.a.s.l. Rated current : 0.689 A Cooling method : IC01 - ODP L. R. Amperes : 4.96 A Mounting : F-1 **LRC** : 7.2x(Code L) Rotation<sup>1</sup> : Both (CW and CCW) No load current : 0.520 A Noise level<sup>2</sup> : 52.0 dB(A) Rated speed : 1765 rpm Starting method : Direct On Line Slip : 1.94 % Approx. weight3 : 20.6 lb Rated torque : 1.49 ft.lb Locked rotor torque : 240 % Breakdown torque : 330 % : F Insulation class Service factor : 1.25 Moment of inertia (J) : 0.0584 sq.ft.lb 25% 75% 100% Output 50% Foundation loads Efficiency (%) 67.5 70.0 75.5 78.2 Max. traction : 38 lb Power Factor 0.26 0.47 0.60 0.69 Max. compression : 58 lb Non drive end Drive end Bearing type 6203 ZZ 6202 ZZ Without Bearing Seal Without Bearing Seal Sealing 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

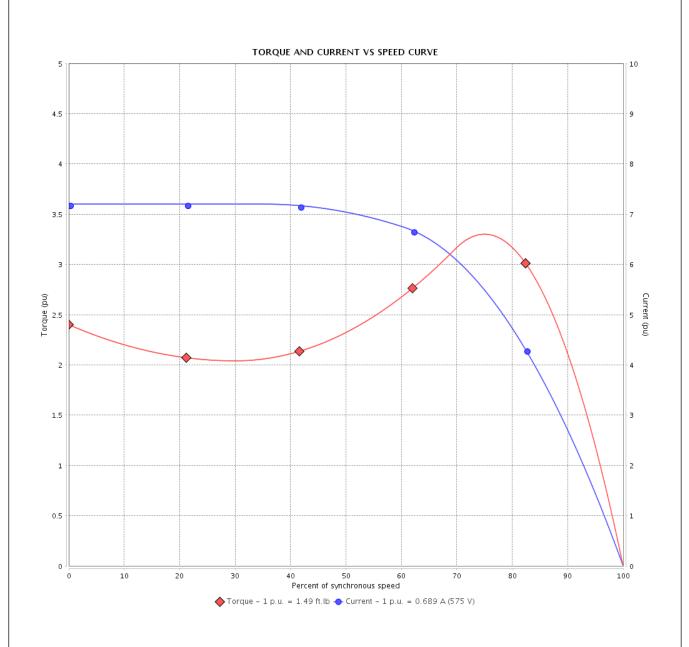
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13326501

Catalog # : .5018OT3H56-S



 Performance
 : 575 V 60 Hz 4P

 Rated current
 : 0.689 A
 Moment of inertia (J)
 : 0.0584 sq.ft.lb

**LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.49 ft.lb : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 330 % Temperature rise : 80 K

Locked rotor time : 48s (cold) 27s (hot)

: 1765 rpm

Rated speed

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## LOAD PERFORMANCE CURVE

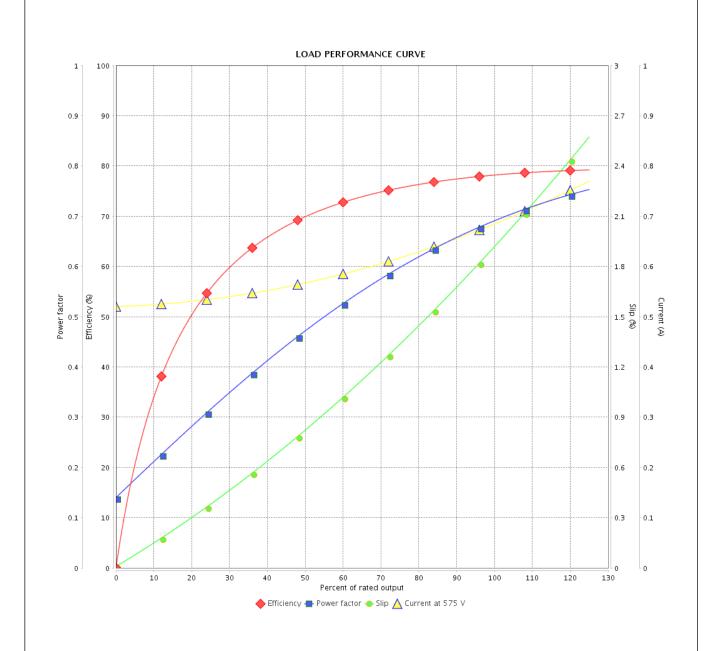
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code : 13326501

Catalog # : .5018OT3H56-S



Performance : 575 V 60 Hz 4P Rated current : 0.689 A Moment of inertia (J) : 0.0584 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 1.49 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1765 rpm

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# THERMAL LIMIT CURVE

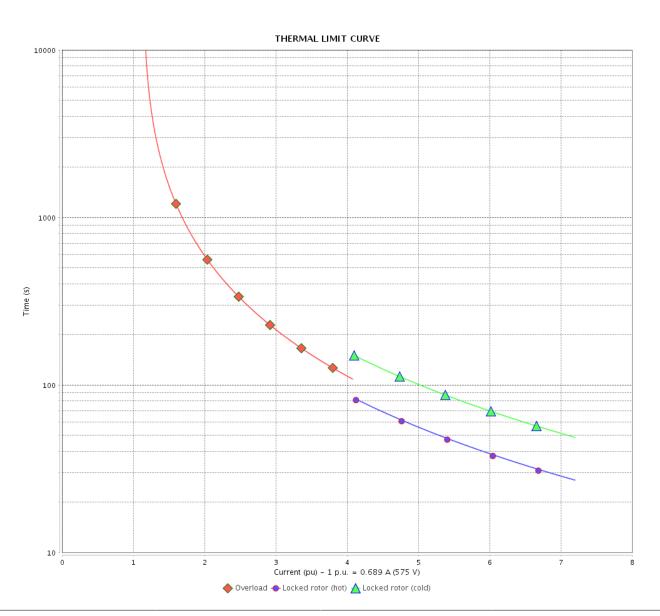
### Three Phase Induction Motor - Squirrel Cage



Customer	:

Product line : Premium Efficiency Three-Phase Product code : 13326501

Catalog # : .5018OT3H56-S



 Performance
 : 575 V 60 Hz 4P

 Rated current
 : 0.689 A
 Moment of inertia (J)
 : 0.0584 sq.ft.lb

 LRC
 : 7.2
 Duty cycle
 : Cont.(S1)

LRC: 7.2Duty cycle: Cont.(S1)Rated torque: 1.49 ft.lbInsulation class: FLocked rotor torque: 240 %Service factor: 1.25Breakdown torque: 330 %Temperature rise: 80 K

Rated speed : 1765 rpm

Heating constant

Cooling constant	t				
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## VFD OPERATION CURVE

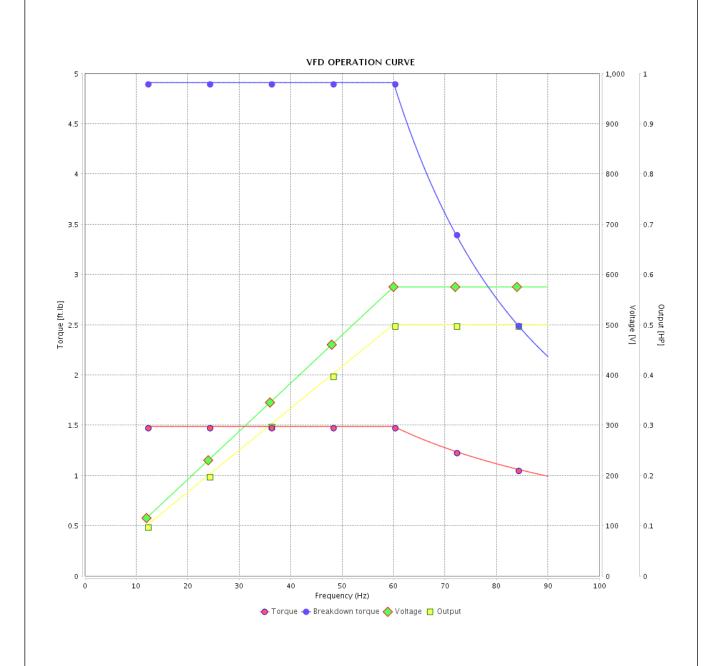
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code : 13326501

Catalog # : .5018OT3H56-S



 Performance
 : 575 V 60 Hz 4P

 Rated current
 : 0.689 A
 Moment of inertia (J)
 : 0.0584 sq.ft.lb

 LRC
 : 7.2
 Duty cycle
 : Cont.(S1)

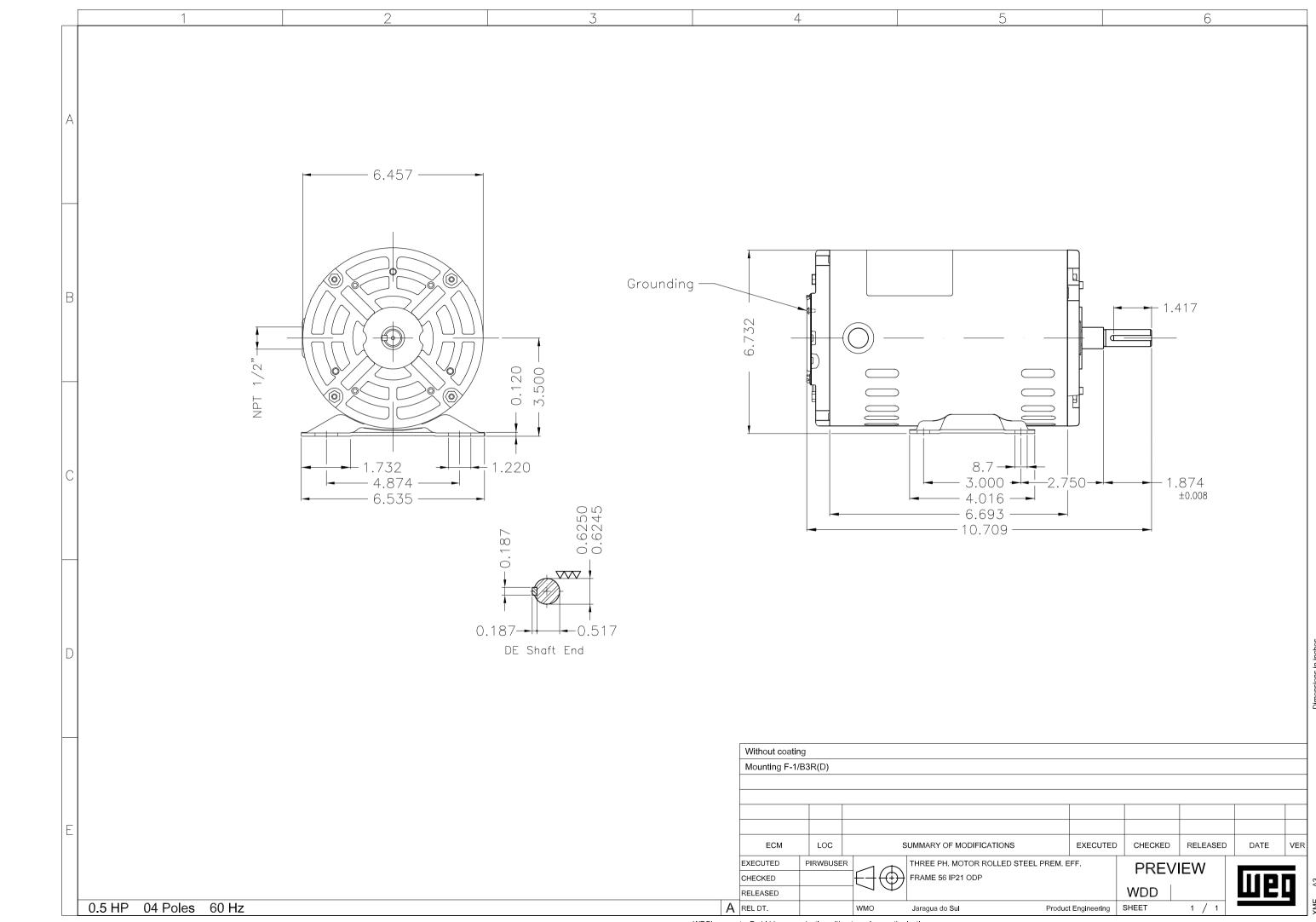
 Rated torque
 : 1.49 ft.lb
 Insulation class
 : F

Rated torque : 1.49 ft.lb Insulation class : F
Locked rotor torque : 240 % Service factor : 1.25
Breakdown torque : 330 % Temperature rise : 80 K
Rated speed : 1765 rpm

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Energy Verifi

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V01.TO0IC0X0X

13326501

MODEL 50180T3H56-S 11MAR2022

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Hz 60

CONT 26

2

1000 m.a.s.l

0.689 3.861 1.25

> 3FA 냃

> > F AT 80K

NS CL NCL WB

2°04

0.37 575

DES

ODP

CODE

쌆

2PM

AVG. F.L.

78.2%

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

ODE 6202-22

8203-ZZ

牌

T1-BLU T3-0RG

T2-WHT













choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine conformément aux codes électriques locaux et nationaux afin d'éviter tout shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical