DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12793364 Catalog #: 02018ET3H256T-SG Frame : 254/6T Locked rotor time : 28s (cold) 16s (hot) Output : 20 HP (15 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 : 19.8 A Protection degree : IP55 L. R. Amperes : 132 A Cooling method : IC411 - TEFC LRC : 6.7x(Code H) Mounting : F-1 No load current : 8.89 A Rotation¹ : Both (CW and CCW) Rated speed : 1765 rpm Noise level² : 68.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 59.5 ft.lb Approx. weight³ : 242 lb Locked rotor torque : 270 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 2.64 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 93.0 : 735 lb Efficiency (%) 91.0 91.7 92.4 Max. traction Power Factor 0.82 : 977 lb 0.40 0.66 0.77 Max. compression Non drive end Drive end Bearing type 6309 Z C3 6208 Z C3 V'Ring Sealing Without Bearing Seal Lubrication interval 20000 h 20000 h Lubricant amount 13 g 8 g 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.

Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

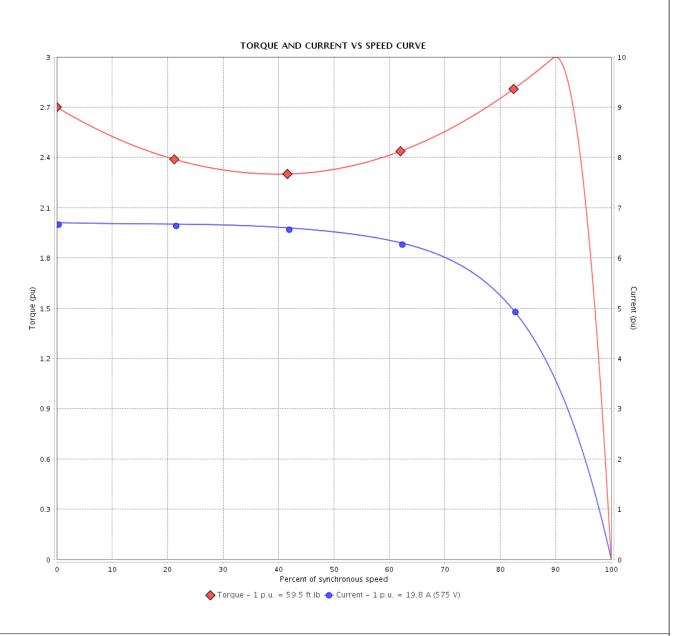


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12793364

Phase

Catalog #: 02018ET3H256T-SG



Performance	: 575 V 60 Hz 4P			
Rated current	: 19.8 A	Moment of inertia (J)	: 2.64 sq.ft.lb	
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque	: 59.5 ft.lb	Insulation class	: F	
Locked rotor torque	: 270 %	Service factor	: 1.15	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1765 rpm	Design	: B	
Looked veter times	. 20a (aald) 40a (bat)	1		

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12793364

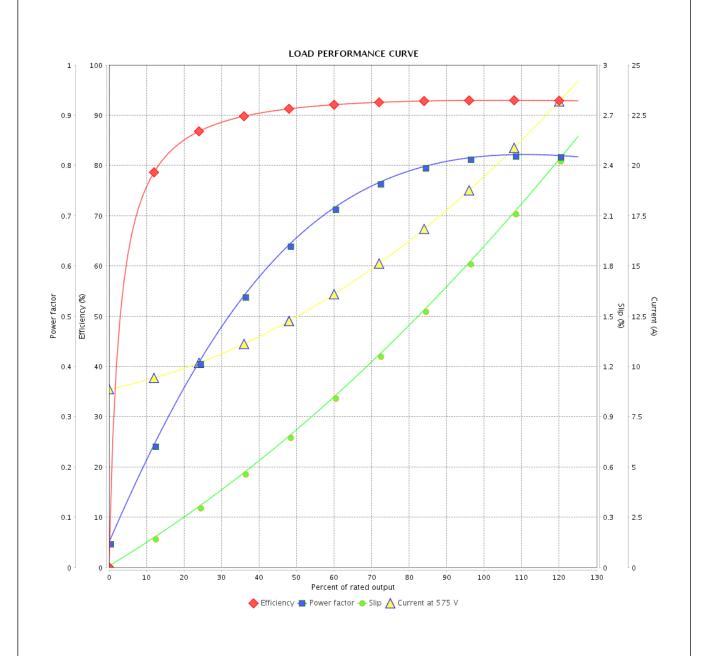
Phase

Catalog #: 02018ET3H256T-SG

Page

3/6

Revision



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.8 A : 6.7 : 59.5 ft.lb : 270 % : 300 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.64 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



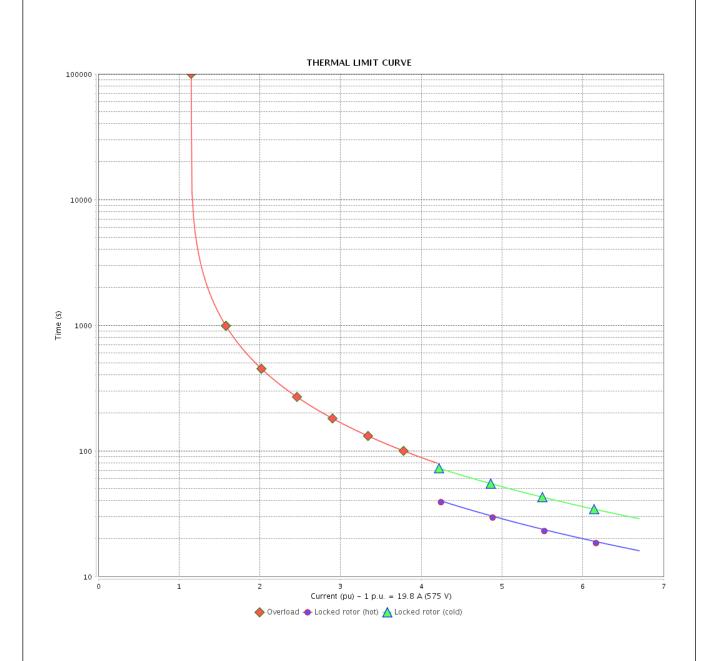
Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12793364 02018ET3H2	56T-SG
Performance	: 575 V 60 Hz 4P				
Rated current LRC	: 19.8 A : 6.7	Moment o	f inertia (J)	: 2.64 sq.ft.lb : Cont.(S1)	
Rated torque	: 59.5 ft.lb	Insulation	class	: F	
Locked rotor torque	: 270 %	Service fa		: 1.15 : 90 K	
Breakdown torque Rated speed	: 300 % : 1765 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant					
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Data 14/04/201	22			1 4ge	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

Page 6 / 6

Customer :

Checked by

Date

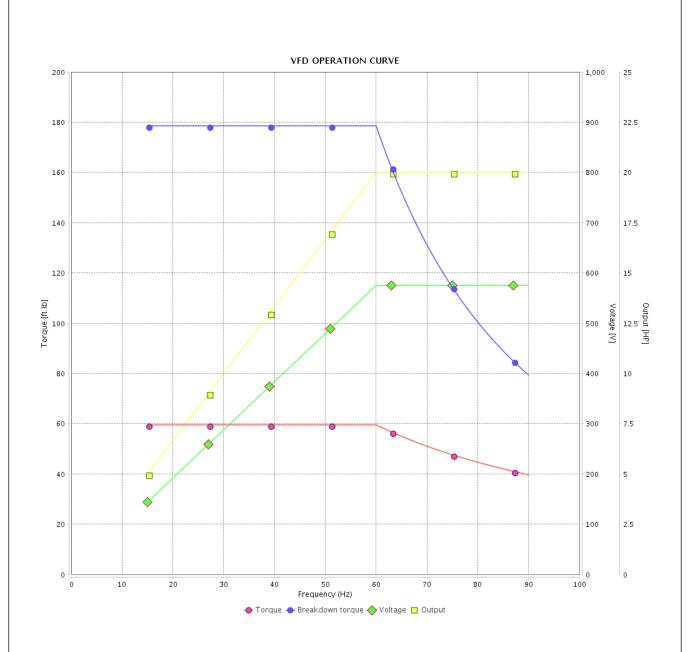
14/04/2022

Product line : NEMA Premium Efficiency Three- Produ

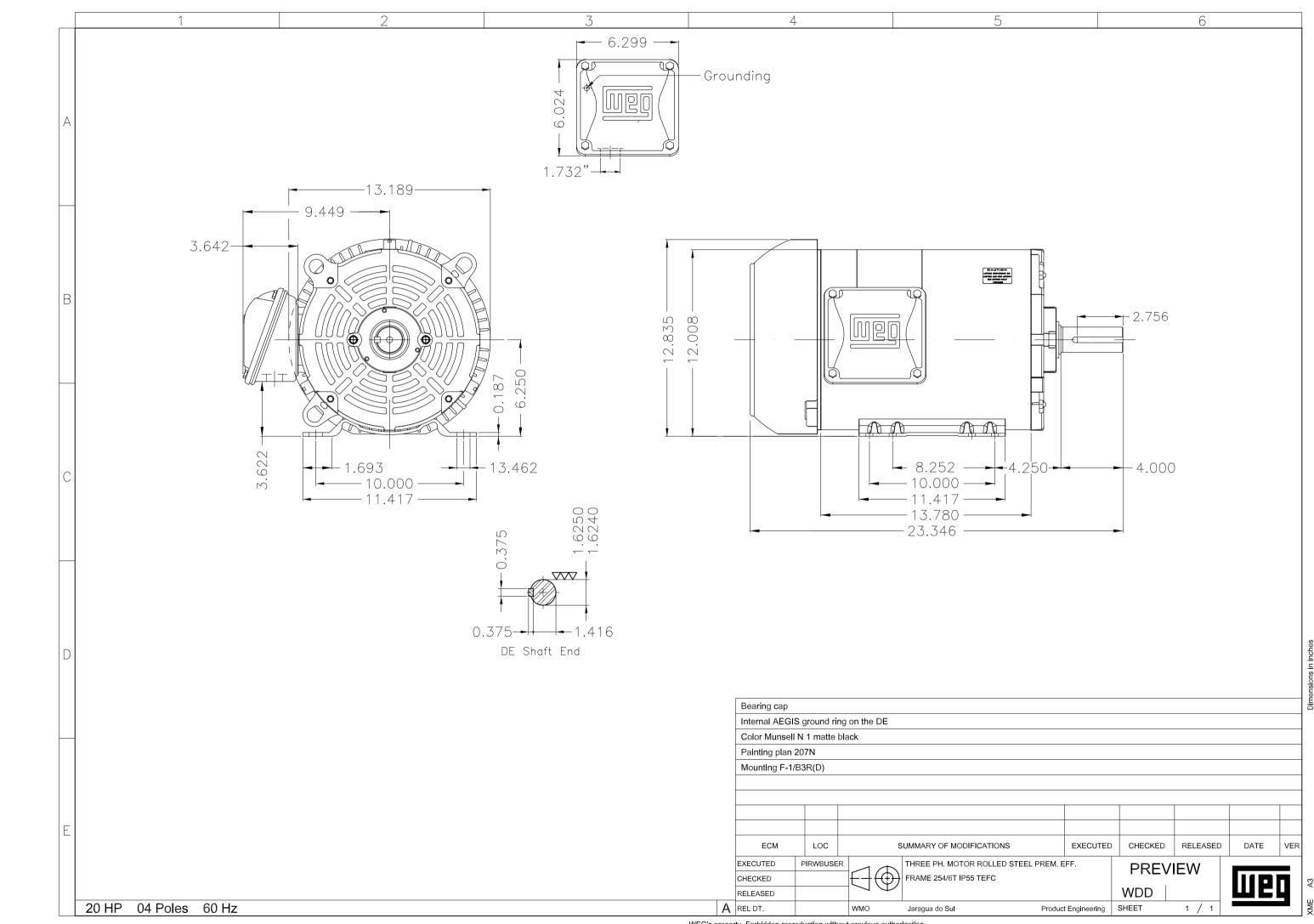
Phase

Product code: 12793364

Catalog #: 02018ET3H256T-SG



Performance : 575 V 60 Hz 4P Rated current : 19.8 A Moment of inertia (J) : 2.64 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 59.5 ft.lb Insulation class : F Rated torque Locked rotor torque : 270 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by









& Energy Verified

> 1T020504NPW01GR N01.TE0IC0X0N

CC029A

12793364

MADE IN MÉXICO

S/N 01OCT2021

Hz 60 254/6T

CONT

1000 m.a.s.l

P55 SH

F AT 80K

3FA

19.8 1.15 575 22.8

> 쑮 CODE

쌆

TEFC 0 NSC INC. WB

NOM. EFF 93.0% NEMA ZPM

ODE 6208-Z-C3

Inverter duty motor For use on VPWM 1000:1 VT, 4:1 CT

8309-Z-C3

牌

2000bh

9

ME XERY 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

