DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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Customer		:					
Product line		: NE Phas		n Efficiency ∃	Γhree- Product code :	12682574	
					Catalog # :	00218OT3H145TC-S	
Frame		: 143/5TC			Locked rotor time	: 30s (cold) 17s (hot)	
Output		: 2 HP (1.5 kW)			Temperature rise	: 80 K	
Poles		: 4			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		: 2.15 A			Cooling method	: IC01 - ODP	
L. R. Amperes		: 16.6 A			Mounting	: F-1	
LRC		: 7.7x(Code K) : 1.10 A			Rotation ¹ Noise level ²	: Both (CW and CCW)	
No load current		: 1740 rpm			Starting method	: 52.0 dB(A) : Direct On Line	
Rated speed		: 3.33 %			Approx. weight ³	: 40.0 lb	
Slip Rated torque		: 6.04 ft.lb			Approx. weight	. 40.0 15	
Locked rotor torque		: 260 %					
Breakdown torque		: 320 %					
Insulation class	•	: F					
Service factor		: 1.15					
Moment of inertia (J)		: 0.1168 sq.ft.lb					
Design		: B	·				
Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%)	85.2	85.5	86.5	86.5	Max. traction	: 148 lb	
Power Factor	0.36	0.61	0.74	0.81	Max. compression	: 188 lb	
			Drive		Non drive e		
Bearing type		:	6205 ZZ		6203 ZZ		
Sealing		:	Without B	earing Seal	Without Bearir	ng 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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



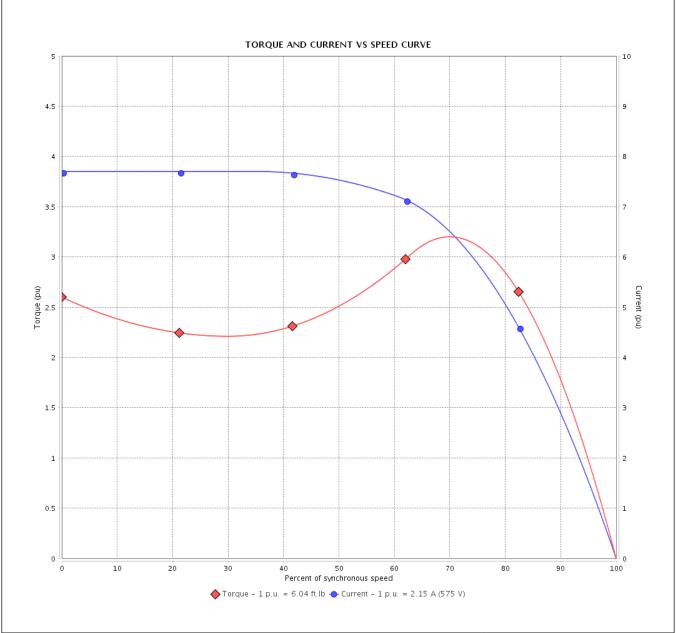
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12682574

Catalog #: 00218OT3H145TC-S



Performance : 575 V 60 Hz 4P Rated current : 2.15 A Moment of inertia (J) : 0.1168 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : F : 6.04 ft.lb Insulation class Rated torque : 260 % Service factor Locked rotor torque : 1.15 : 80 K Breakdown torque : 320 % Temperature rise Rated speed : 1740 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12682574

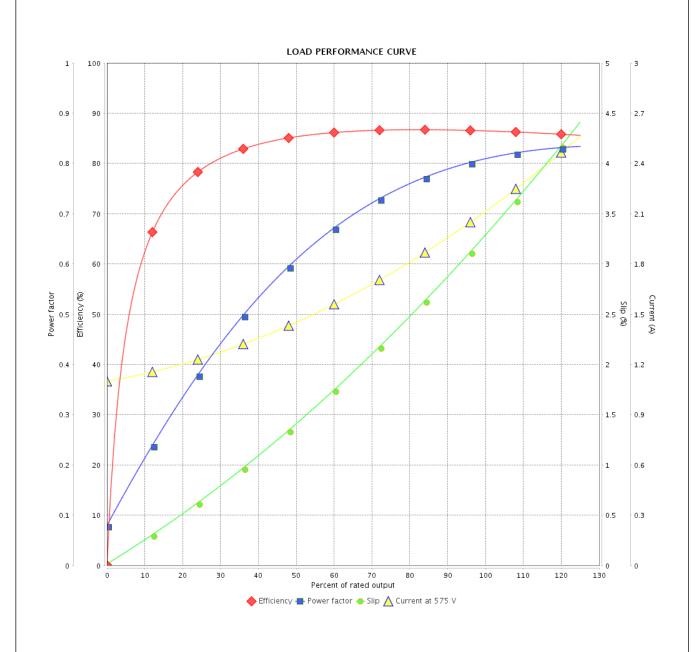
Phase

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Revision



Performance	: 575 V 60 Hz 4P	: 575 V 60 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.15 A : 7.7 : 6.04 ft.lb : 260 % : 320 % : 1740 rpm	: 7.7 Duty cycle : 6.04 ft.lb Insulation cla : 260 % Service factor : 320 % Temperature		: Cont.(S1) class : F ctor : 1.15			
Rev.	Changes Summary	'	Performed	Checked	Date		
Performed by							

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



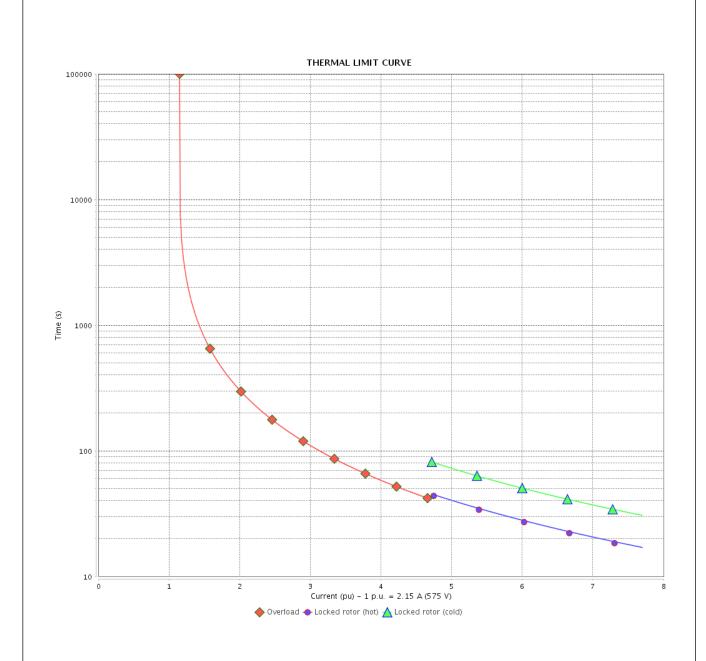
Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	12682574	
	Phase		Catalog # :	00218OT3H ²	I45TC-S
Performance	: 575 V 60 Hz 4P				
Rated current LRC	: 2.15 A : 7.7	Moment of Duty cycle	of inertia (J)	: 0.1168 sq.ft.l : Cont.(S1)	b
Rated torque	: 6.04 ft.lb	Insulation	class	: F	
Locked rotor torque	: 260 %	Service fa		: 1.15	
Breakdown torque Rated speed	: 320 % : 1740 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant					
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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

Date

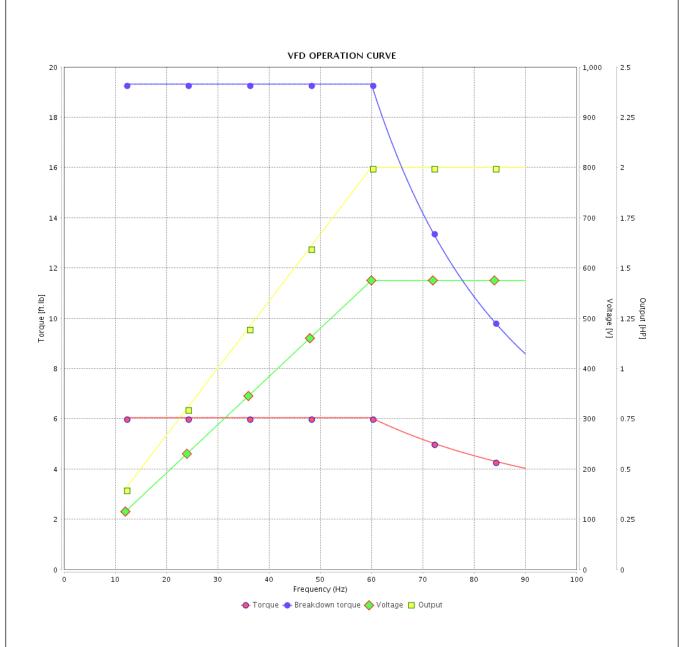
14/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

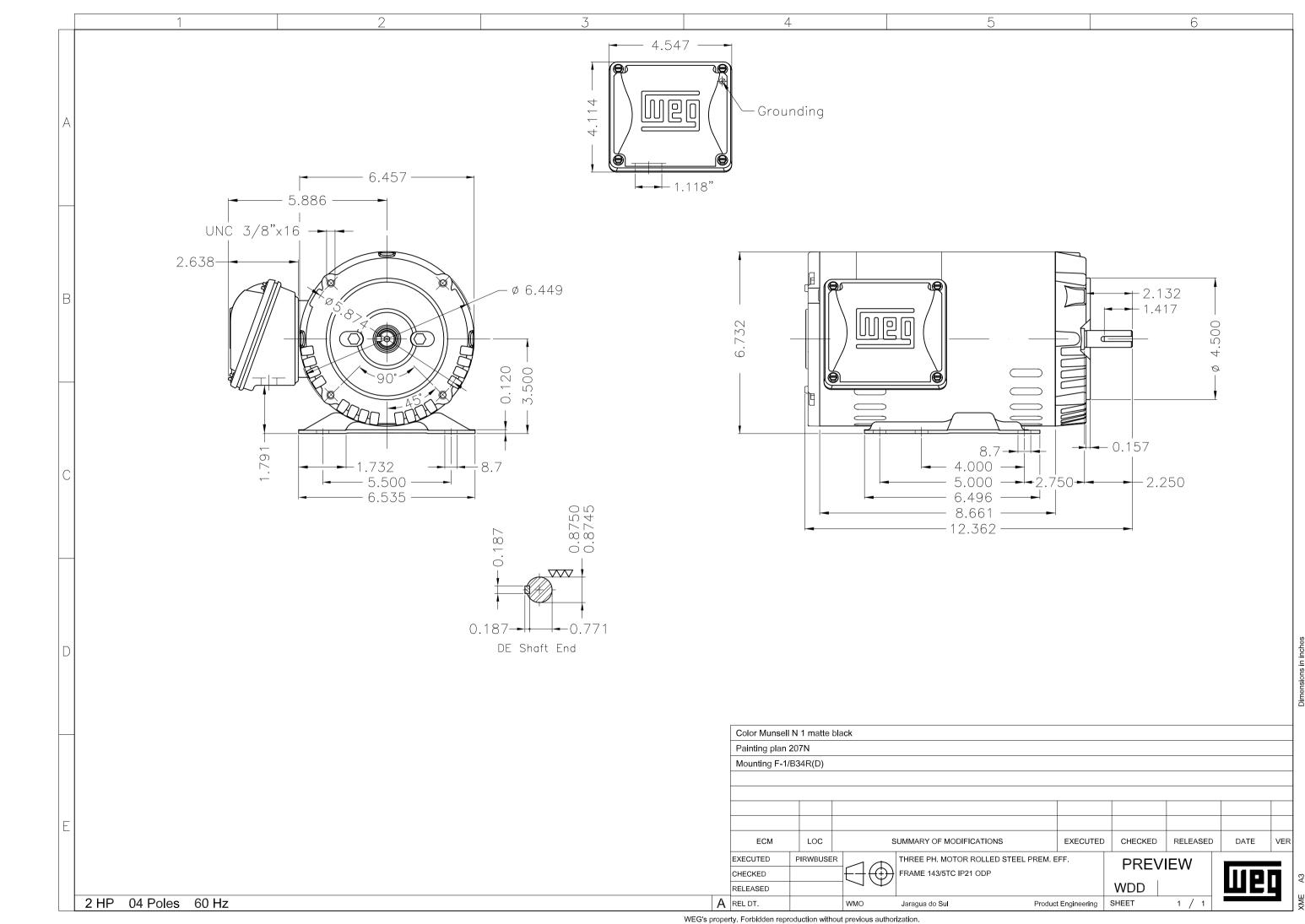
Phase

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Performance : 575 V 60 Hz 4P Rated current : 2.15 A Moment of inertia (J) : 0.1168 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 6.04 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1740 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by





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N01.TODICOXON

12682574

MADE IN BRAZIL

8 걒 143/5TC

CONT

1000 m.a.s.l

F AT 80K

2.15 1.15 575 2.47

> 3FA 쑮

DES

2°04

ODP NS CL NCL WB

VOM EFF NEMA RPM 뿝 CODE

86.5%

Inverter duty motor For use on VPWM 1000:1 VT, 5:1 CT ODE 6203-22

8205-ZZ

牌

MOBIL POLYREX EM

T2-WHT

T1-BLU

r3-ORG r6-GRY 15-BLK T4-YEL

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

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

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