DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12682572 Catalog #: 00158OT3H145TC-S Frame : 143/5TC Locked rotor time : 27s (cold) 15s (hot) Output : 1.5 HP (1.1 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Frequency : 60 Hz Rated voltage : 575 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 1.66 A : IC01 - ODP L. R. Amperes : 14.4 A Mounting : F-1 : 8.7x(Code L) : Both (CW and CCW) LRC Rotation¹ No load current : 0.958 A Noise level² : 52.0 dB(A) Rated speed : 1760 rpm Starting method : Direct On Line Slip : 2.22 % Approx. weight³ : 42.6 lb Rated torque : 4.48 ft.lb Locked rotor torque : 280 % Breakdown torque : 330 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1426 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 86.5 86.5 : 107 lb Efficiency (%) 83.6 84.0 Max. traction : 150 lb Power Factor 0.32 0.56 0.69 0.77 Max. compression Drive end Non drive end Bearing type 6205 ZZ 6203 ZZ

Bearing type : 6205 ZZ 6203 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



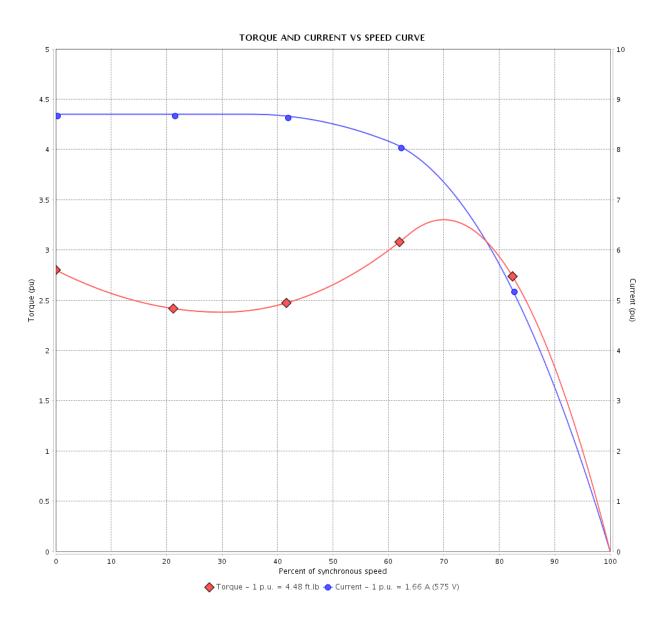
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12682572

Catalog #: 00158OT3H145TC-S



Performance	: 575 V 60 Hz 4P			
Rated current	: 1.66 A	Moment of inertia (J)	: 0.1426 sq.ft.lb	
LRC	: 8.7	Duty cycle	: Cont.(S1)	
Rated torque	: 4.48 ft.lb	Insulation class	: F	
Locked rotor torque	: 280 %	Service factor	: 1.15	
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 1760 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)	1		

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

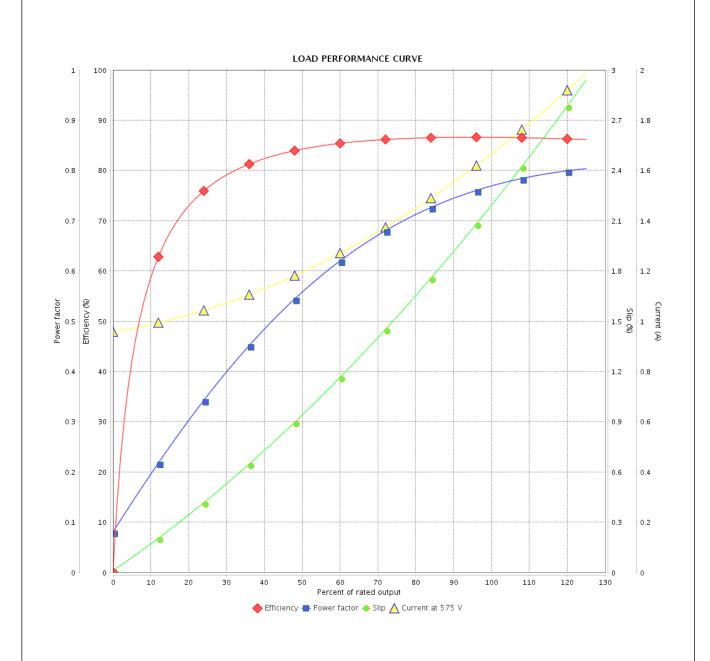


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12682572

Phase

Catalog #: 00158OT3H145TC-S



Performance	:	575 V 60 Hz 4P				
Rated current	:	: 1.66 A Moment of iner		f inertia (J)	: 0.1426 sq.ft.	lb
LRC	:	8.7	Duty cycle		: Cont.(S1)	
Rated torque	:	4.48 ft.lb	Insulation class		:F	
Locked rotor torque	e :	280 %	Service factor		: 1.15	
Breakdown torque	:	330 %	Temperature rise		: 80 K	
Rated speed	:	1760 rpm	Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



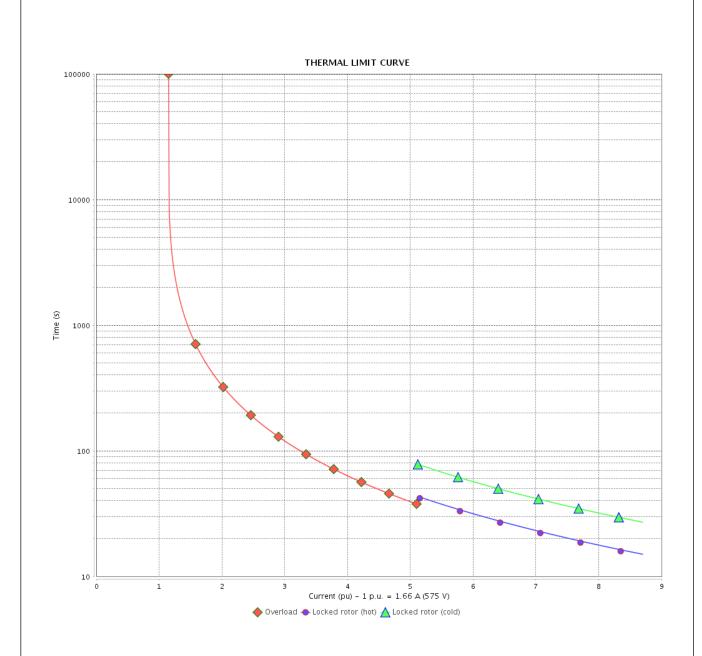
Customer	:				
Product line	: NEMA Premium Effici	ency Three-	Product code :	12682572	
	Phase		Catalog # :	00158OT3H ²	145TC-S
Performance	: 575 V 60 Hz 4P				
Rated current	: 1.66 A	Moment of	of inertia (J)	: 0.1426 sq.ft.l	b
LRC Rated torque	: 8.7 : 4.48 ft.lb	Duty cycle Insulation	e Lolass	: Cont.(S1) : F	
Locked rotor torque	: 280 %	Service fa	actor	: 1.15	
Breakdown torque Rated speed	: 330 % : 1760 rpm	Temperat Design	ure rise	: 80 K : B	
	. 1700 Ipili	Design		. <i>U</i>	
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



Customer :

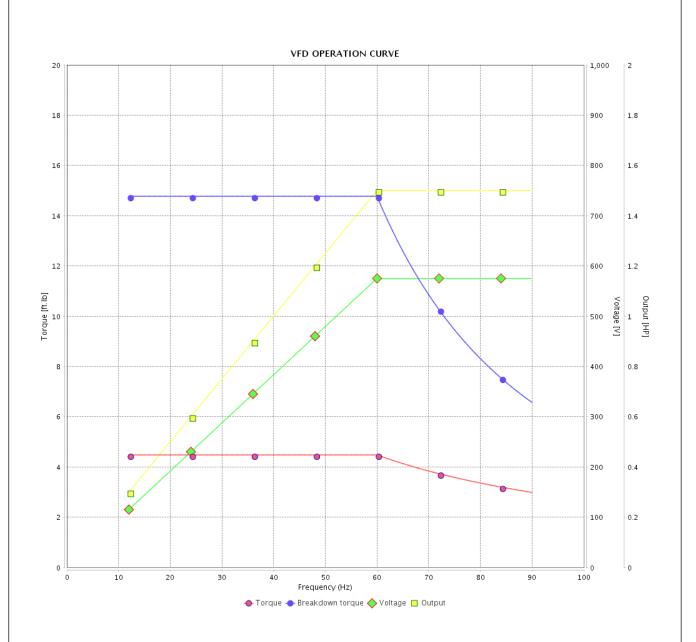
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00158OT3H145TC-S

12682572

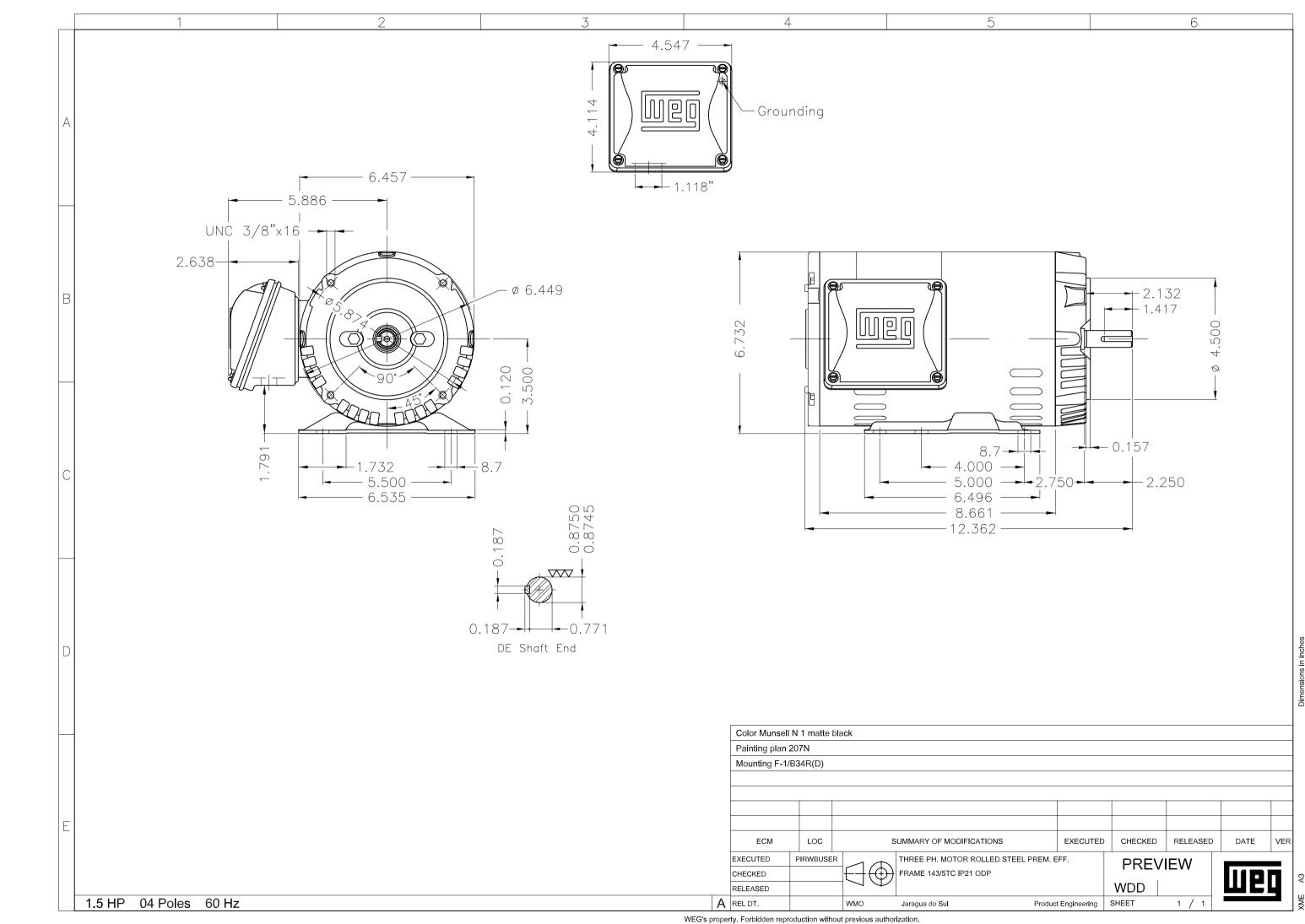
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Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.66 A : 8.7 : 4.48 ft.lb : 280 % : 330 % : 1760 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1426 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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12/04/2022

Date







(**VL)**US LISTED

& 3PT9

> MODEL 001580T3H145TC-S 5MAR2022

N01.TODICOXON

12682572

MADE IN MÉXICO

Hz 60 143/5TC

CONT

1000 m.a.s.l

F AT 80K

CODE DES

2°04

NSC INC. WB

ODP

쌆

NEMA RPM

NOM. EFF 86.5%

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

MOBIL POLYREX EM

ODE 6203-22

8205-ZZ

牌

1.66 1.15

> 3FA 쑮

575 1.9 Ξ

Energy Verific

T2-WHT r3-ORG

T1-BLU

r6-GRY 15-BLK

shocks. Disconnect power source before servicing unit. NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION WARNING: Motor must be grounded in accordance with local ind national electrical codes to prevent serious electrical

conformément aux codes électriques locaux et nationaux afin d'éviter tout AVERTISSEMENT: Le moteur doit être mis à la terre

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

