DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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Customer		:					
Product line		: NE Phas		m Efficiency ไ		12682570	
					Catalog # :	00156OT3H143TC-S	
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class		: 143/5TC : 1.5 HP (1.1 kW) : 2 : 60 Hz : 575 V : 1.48 A : 12.7 A : 8.6x(Code K) : 0.647 A : 3510 rpm : 2.50 % : 2.24 ft.lb : 210 % : 330 % : F			Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 34s (cold) 19s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IC01 - ODP : F-1 : Both (CW and CCW) : 62.0 dB(A) : Direct On Line : 30.6 lb	
Service factor Moment of inerti	a (J)		3 835 sq.ft.lb				
Design		: B					
Output	25%	50%	75%	100%	Foundation loads		
Efficiency (%) Power Factor	81.1 0.45	81.5 0.73	84.0 0.83	84.0 0.89	Max. traction Max. compression	: 49 lb : 79 lb	
Bearing type Sealing Lubrication inter		:	62	e end 05 ZZ Bearing Seal -	Non drive end 6203 ZZ Without Bearing -	_	
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



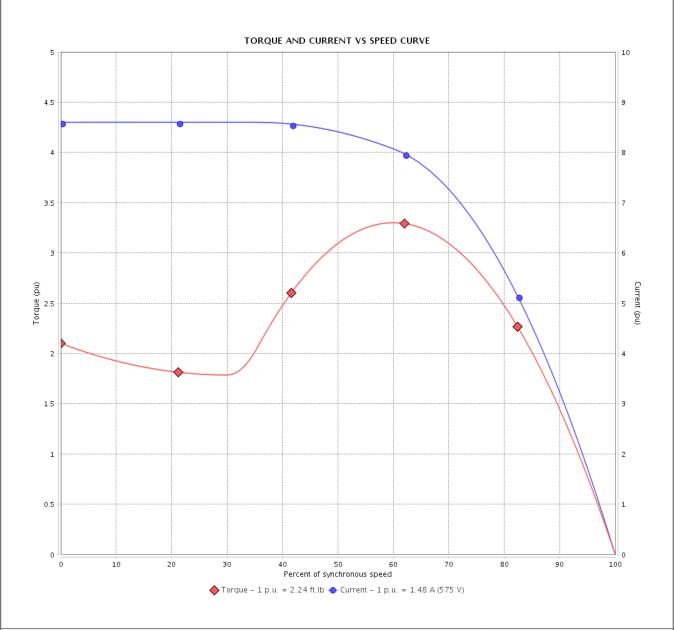
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12682570

Catalog #: 00156OT3H143TC-S



Performance : 575 V 60 Hz 2P Rated current : 1.48 A Moment of inertia (J) : 0.0835 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 2.24 ft.lb : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B Locked rotor time : 34s (cold) 19s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

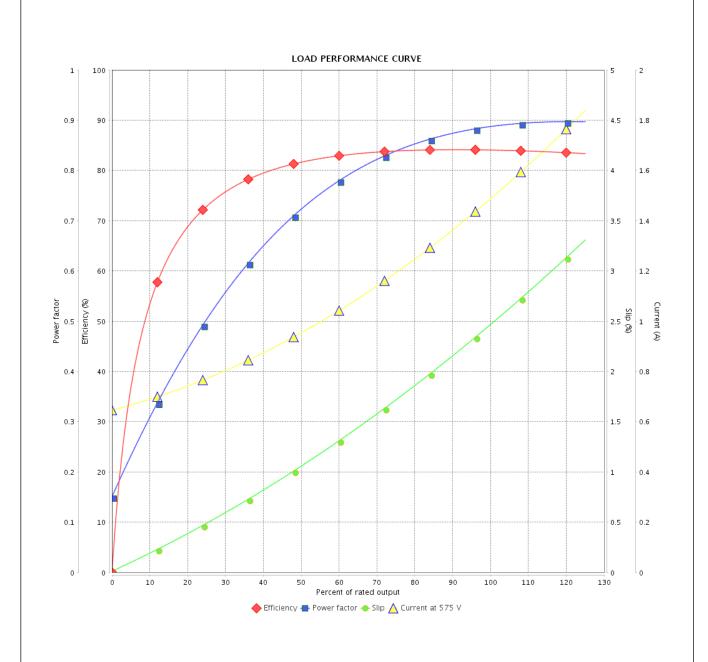


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12682570

Phase

Catalog #: 00156OT3H143TC-S



Performance	: 575 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.48 A : 8.6 : 2.24 ft.lb : 210 % : 330 % : 3510 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0835 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



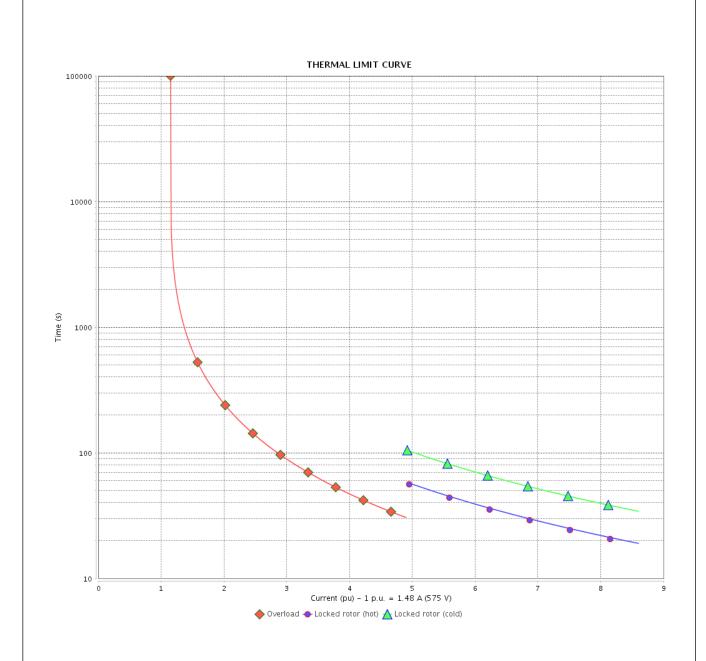
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Customer	:			
Product line	: NEMA Premium Efficiency l Phase	Three- Product code : Catalog # :	12682570 00156OT3H14	3TC-S
Performance	: 575 V 60 Hz 2P			
Rated current LRC	: 1.48 A : 8.6	Moment of inertia (J) Duty cycle	: 0.0835 sq.ft.lb : Cont.(S1)	
Rated torque	: 2.24 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 210 % : 330 %	Service factor Temperature rise	: 1.15 : 80 K	
Rated speed	: 3510 rpm	Design	: B	
Heating constant				
Cooling constant		1		
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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



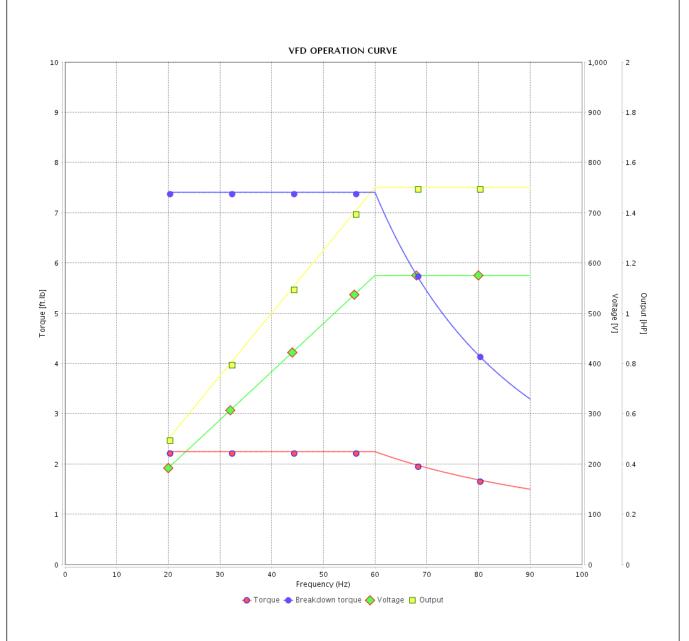
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 12682570

Catalog #: 00156OT3H143TC-S

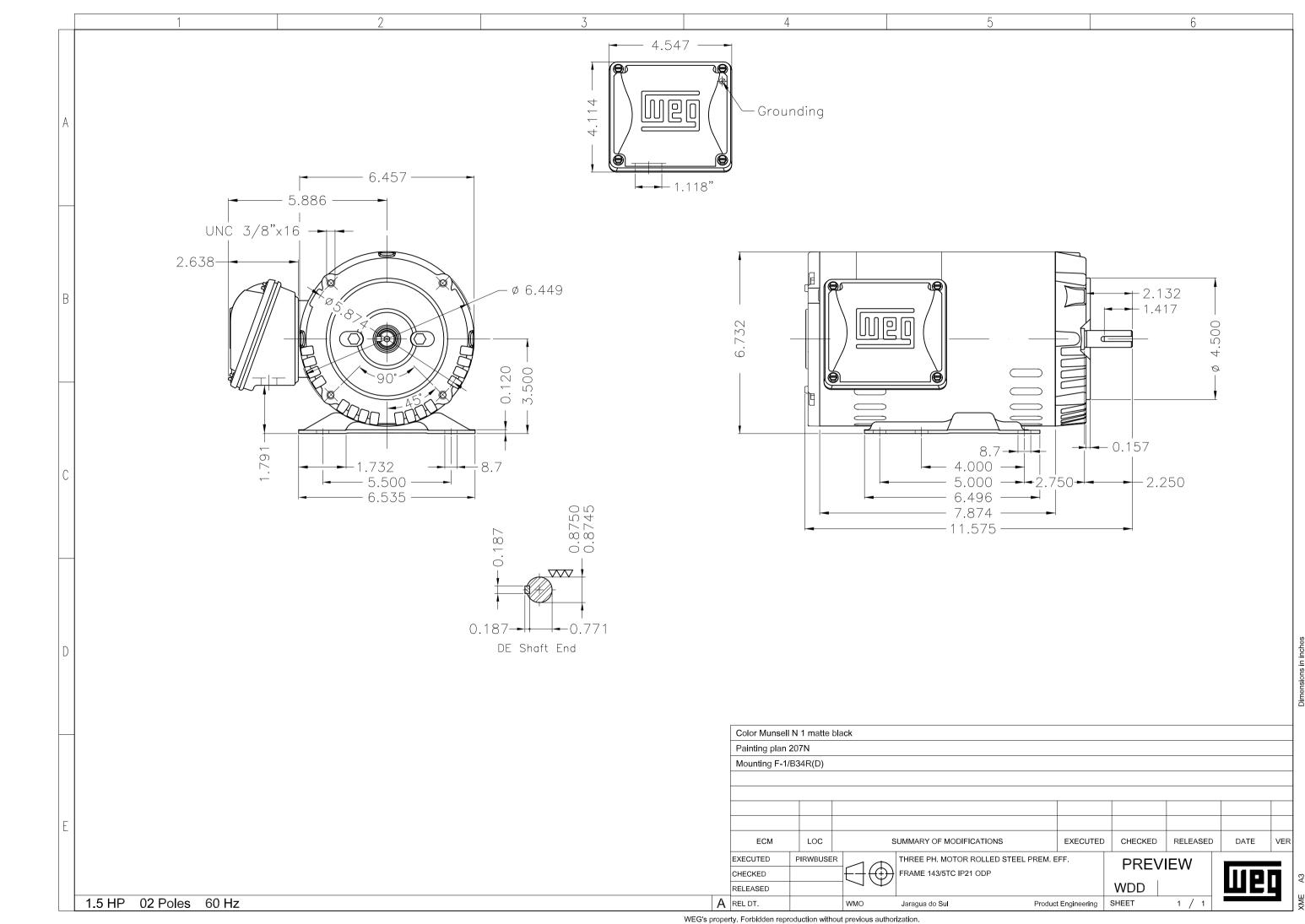


Performance	: 575 V 60 Hz 2P	: 575 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0835 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B				
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Date





NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

MOBIL POLYREX EM Inverter duty For use on VPWM 1000:1 VT, 3:1 CT 6203-ZZ ODE

WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect nower source before servicing unit. 6205-ZZ

électrique grave. Déconnectez l'allmentation avant l'entretien de la machine

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