DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:						
Product line		: NEN Phas		m Efficiency	Three-	Product code : Catalog # :	14802527 00218ET3H145TC-S	
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor tord Breakdown torqu Insulation class Service factor Moment of inertial	ie	: 4 : 60 H : 575 : 2.18 : 17.6 : 8.25 : 1.12 : 174 : 3.06 : 6.02 : 270 : 300 : F	P (1.5 kW) Hz V 3 A 3 A ((Code K) 2 A 5 rpm 6 % 2 ft.lb %		Temp Duty Ambie Altitude Prote Coolie Moun Rotat Noise Starti	ent temperature de ction degree ng method tting	: 27s (cold) 15s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : W-6 : Both (CW and CCW) : 52.0 dB(A) : Direct On Line : 43.7 lb	
Output Efficiency (%)	25% 86.0	50% 85.5	75% 87.5	100% 86.5	Max. tra		: 135 lb	
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type		0.60 : : : :	62	0.80 <u>e end</u> 05 ZZ 'Ring	Max. co	Mon drive end 6203 ZZ V'Ring - - ex EM	: 179 lb	
Notos								

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



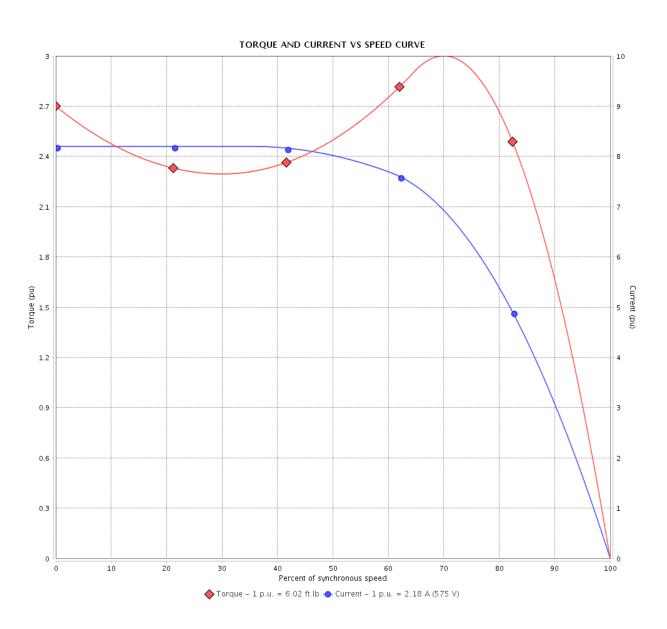
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14802527

Catalog #: 00218ET3H145TC-S



Performance	: 575 V 60 Hz 4P		
Rated current	: 2.18 A	Moment of inertia (J)	: 0.1296 sq.ft.lb
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 6.02 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1745 rpm	Design	: B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

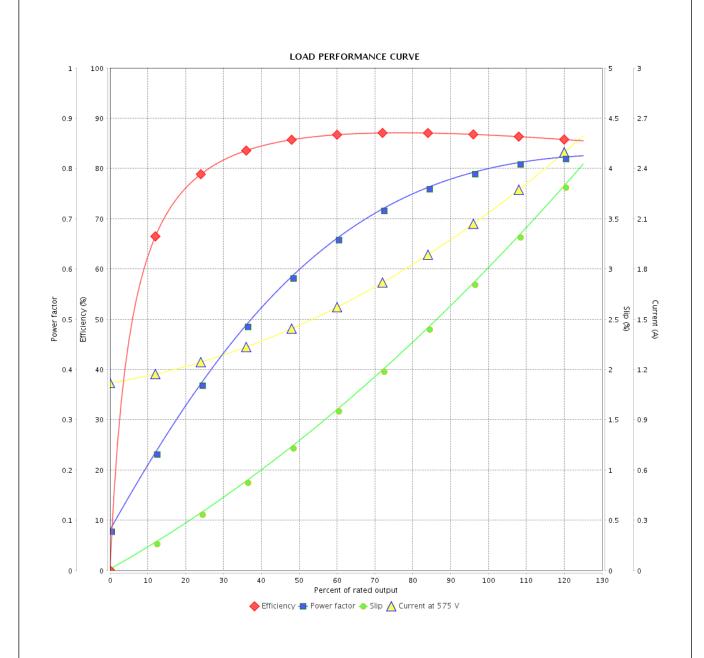


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14802527

Phase

Catalog #: 00218ET3H145TC-S



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.18 A : 8.2 : 6.02 ft.lb : 270 % : 300 % : 1745 rpm	Moment of inert Duty cycle Insulation class Service factor Temperature ris Design		: 0.1296 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
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Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



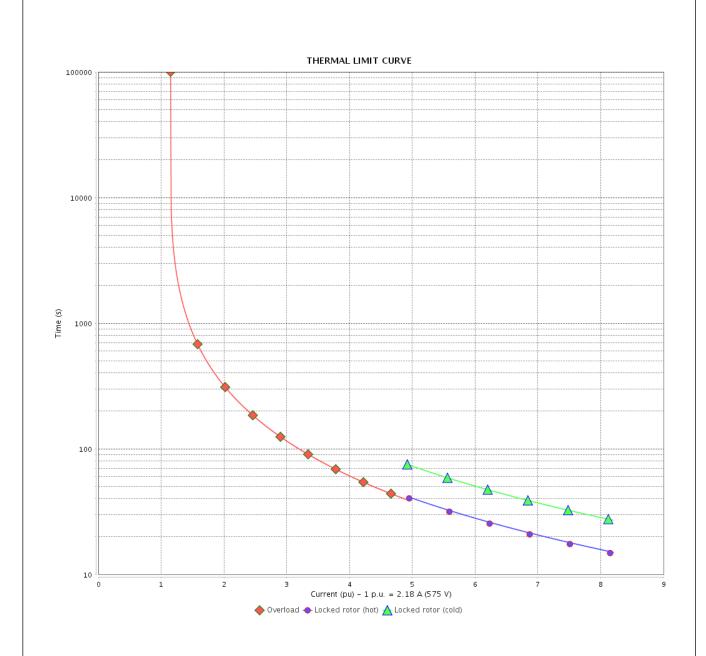
Customer		:				
Product line		: NEMA Premium Efficiency	Throo	Product code :	14802527	
rioduct iiiie		Phase			14002321	
				Catalog # :	00218ET3H	145TC-S
Performance		: 575 V 60 Hz 4P				
Rated current LRC		: 2.18 A : 8.2	Moment of Duty cycle	of inertia (J)	: 0.1296 sq.ft. : Cont.(S1)	lb
Rated torque		. 6.2 : 6.02 ft.lb	Insulation		: F	
Locked rotor tord	lue	: 270 %	Service fa	ctor	: 1.15	
Breakdown torqu Rated speed		: 300 % : 1745 rpm	Temperati Design	ure rise	: 80 K : B	
		- r	9			
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



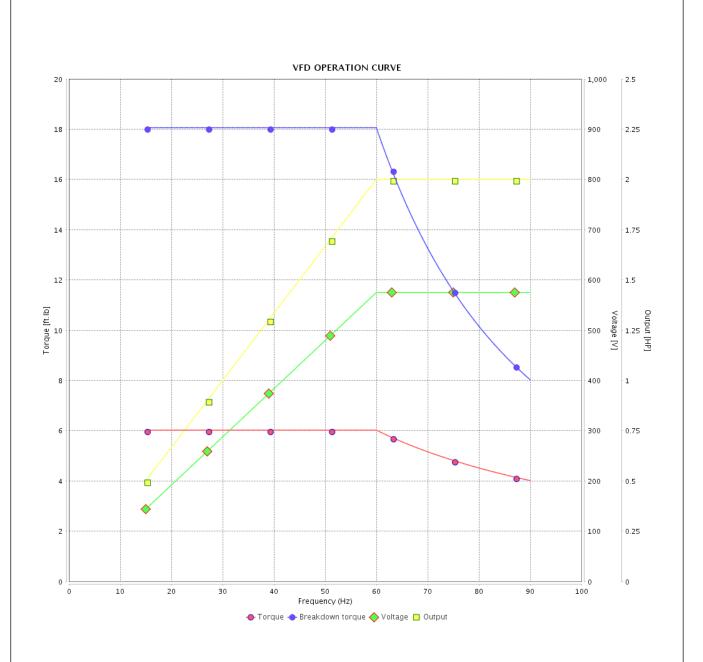
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

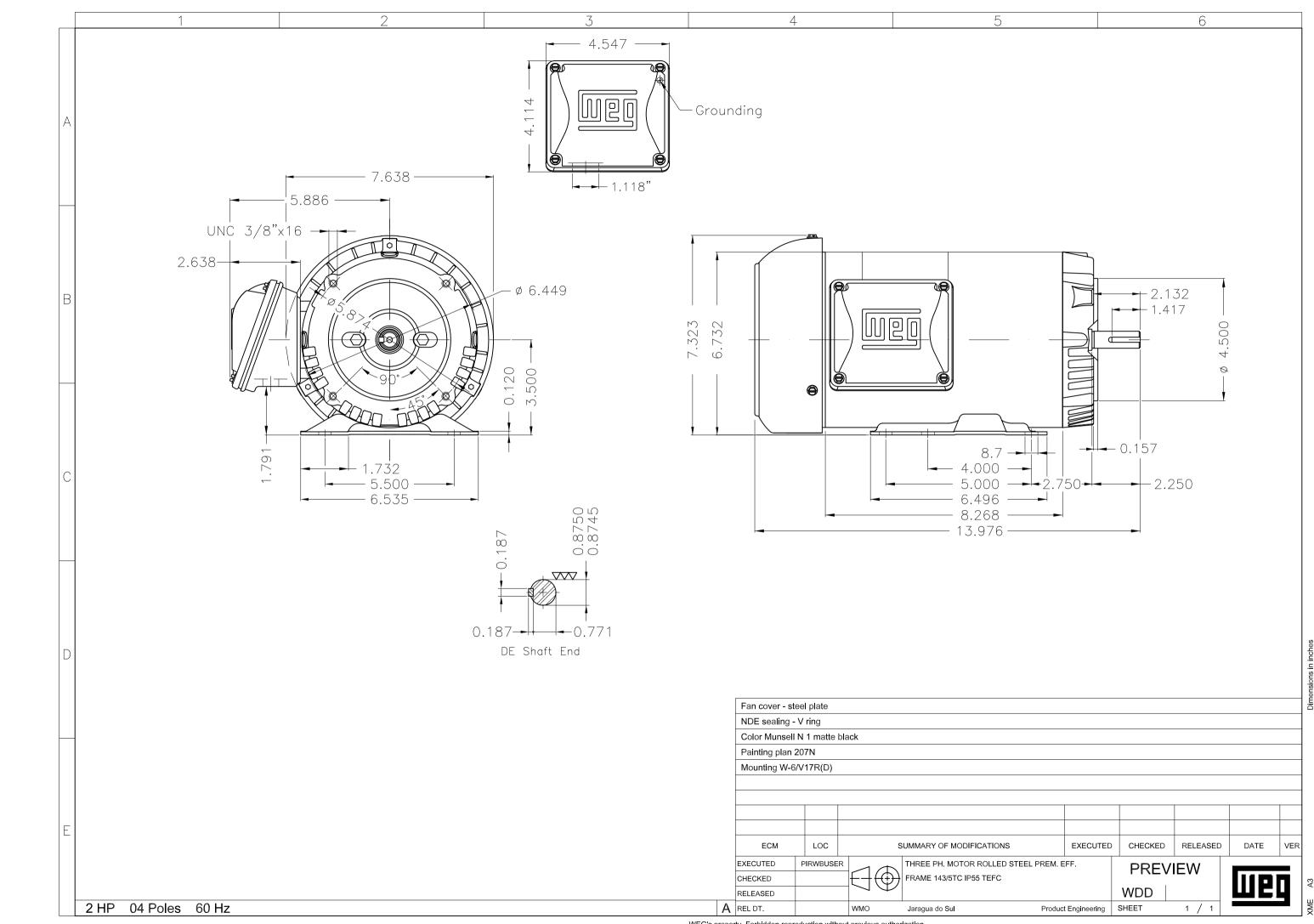
Phase

Catalog #: 00218ET3H145TC-S

14802527



Performance	: 57	75 V 60 Hz 4P				
Rated current : 2		18 A	8 A Moment of inertia (J)		: 0.1296 sq.ft.lb	
LRC	: 8.	2	Duty cycle	е	: Cont.(S1)	
Rated torque	: 6.	02 ft.lb	Insulation	Insulation class		
Locked rotor tord	jue : 27	70 %	Service fa	actor	: 1.15	
Breakdown torqu	wn torque : 300 % Temperature rise		: 80 K			
Rated speed :		745 rpm	Design	Design		
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(**U**) us usted 3PT9 FOR SAFE AREA

For 60Hz: Class I, Zone 2, IIC Class II, DIV.2, Gr. F,G - T4 Class I, DIv.2, Gr. A.B,C,D - T3 **&** Energy Verified

MODEL 00218ET3H145TC-S

N01.TE0IC0X0N

MAT: 14802527

Hz 60

143/5TC)6APR2022

CONT

CT 2:1/VT 1000:1 Div 2 Inverter Duty (SF1.00)

> NOM EFF SPM CODE

86.5%

NEMA

1.15 575 2.18 2.51

> 3FA 냃 监

> > P55

1000 m.a.s.l

F AT 80K

SCI NCL WB

SH

TEFC 0

For safe area-inverter duty motor For use on VPWM 1000:1 VT, 4:1 CT ODE 6203-2Z

MOBIL POLYREX EM

8205-ZZ

牌

T2-WHT

T1-BLU

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

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 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