DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12751165

Phase

Catalog #: 00212OT3E184T-S

Frame : 182/4T Cooling method : IC01 - ODP Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 66.4 lb Altitude Design : B Moment of inertia (J) : 0.2800 sq.ft.lb Output [HP] 2 2 Poles 6 6 6 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 220/415 190/380 Rated current [A] 5.90/2.95 6.96/3.48 6.41/3.40 38.9/19.5 35.5/17.7 36.6/19.4 6.6x(Code J) 5.1x(Code G) 5.7x(Code H) 3.42/1.71 3.37/1.69 3.50/1.86

L. R. Amperes [A] LRC [A] No load current [A] Rated speed [RPM] 1165 945 950 Slip [%] 2.92 5.50 5.00 Rated torque [ft.lb] 9.02 11.1 11.1 Locked rotor torque [%] 200 160 190 Breakdown torque [%] 300 220 250 Service factor 1.00 1.00 1.15 80 K 105 K 80 K Temperature rise 0s (cold) 0s (hot) 0s (cold) 0s (hot) Locked rotor time 59s (cold) 33s (hot) Noise level² 52.0 dB(A) 50.0 dB(A) 50.0 dB(A) 25% 84.4 84.6 86.1 50% 85.5 84.8 84.0 Efficiency (%) 75% 86.5 84.9 85.0 100% 87.5 83.0 83.8 25% 0.32 0.30 0.36 50% 0.56 0.53 0.61 Power Factor 75% 0.66 0.73 0.69 100% 0.73 0.79 0.76

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6206 ZZ 6205 ZZ Max. traction : 143 lb Sealing : Without Without Max. compression : 210 lb

Bearing Seal Bearing Seal

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 6.52A SF 1.00 SFA 6.52A

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



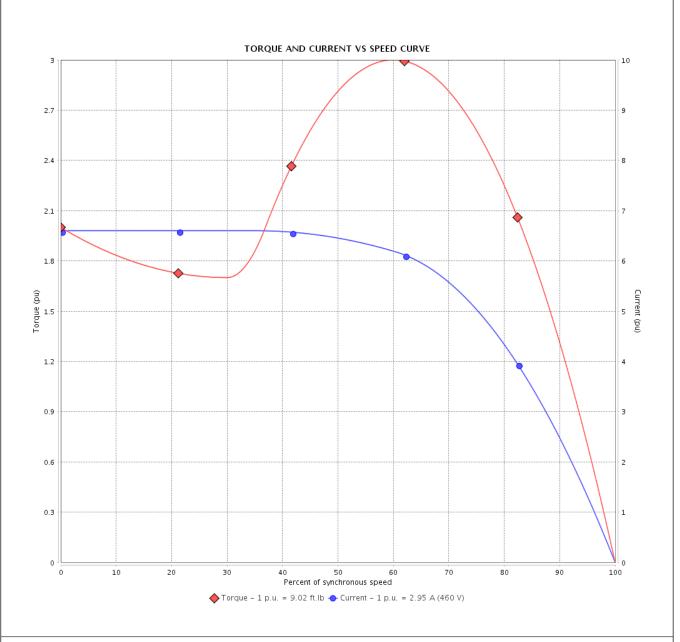
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12751165

Catalog #: 002120T3E184T-S



Performance : 230/460 V 60 Hz 6P Rated current : 5.90/2.95 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : F : 9.02 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1165 rpm Design : B

Locked rotor time : 59s (cold) 33s (hot)

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Three Phase Induction Motor - Squirrel Cage



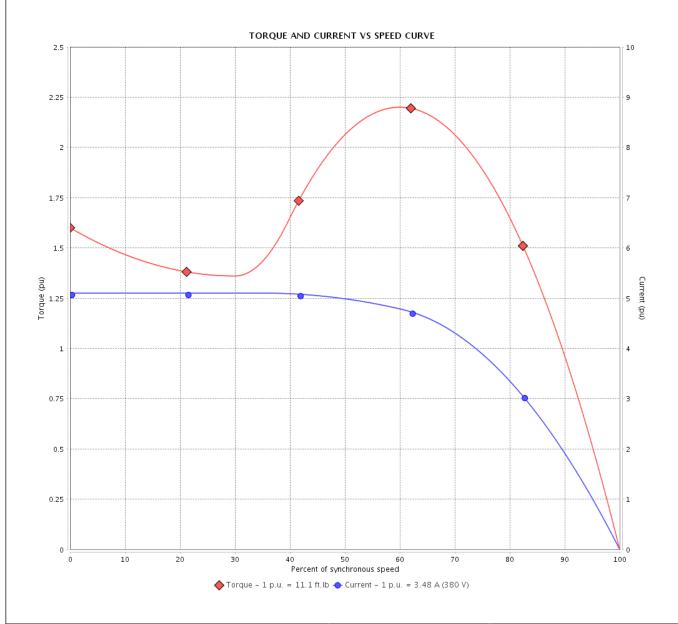
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12751165

Catalog #: 002120T3E184T-S



Performance : 190/380 V 50 Hz 6P Rated current : 6.96/3.48 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Rated torque Insulation class : F : 11.1 ft.lb : 160 % Service factor : 1.00 Locked rotor torque Breakdown torque : 220 % Temperature rise : 105 K Rated speed : B : 945 rpm Design

Locked rotor time : 0s (cold) 0s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



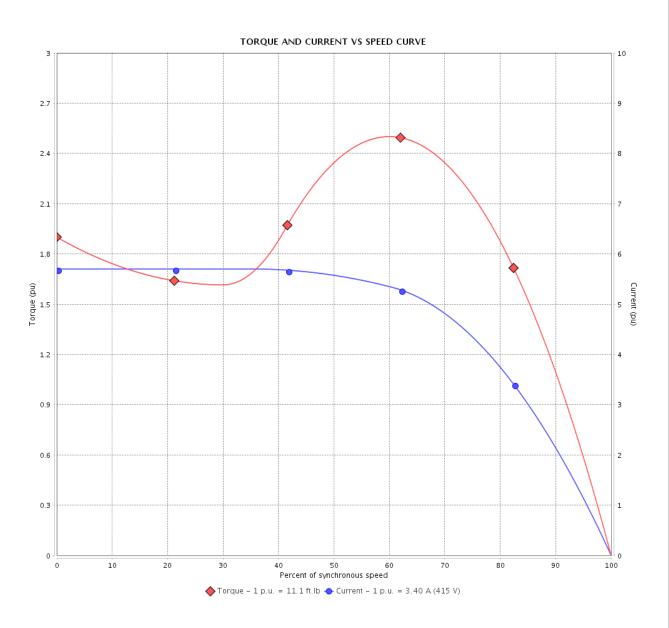
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12751165

Catalog #: 002120T3E184T-S



Performance : 220/415 V 50 Hz 6P Rated current : 6.41/3.40 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 11.1 ft.lb Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 950 rpm Design : B

Locked rotor time : 0s (cold) 0s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

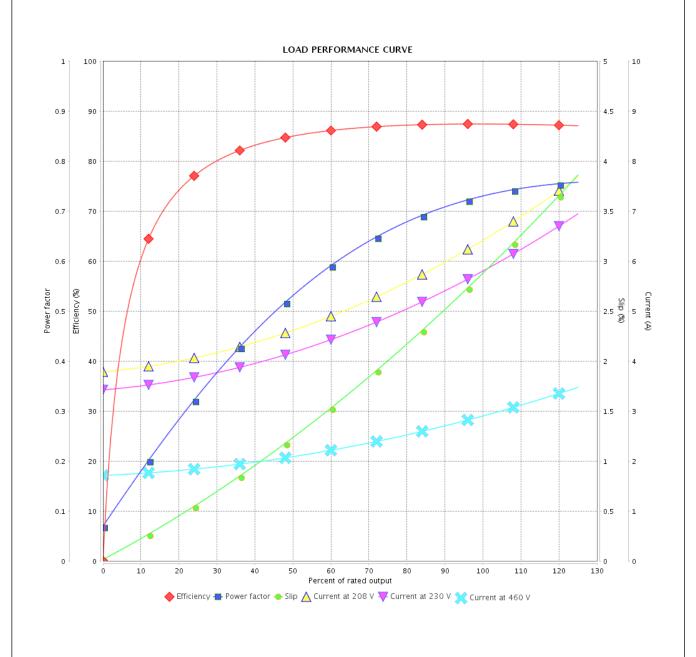


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Phase

Catalog #: 002120T3E184T-S



Performance : 230/460 V 60 Hz 6P						
Rated current	ed current : 5.90/2.95 A		Moment o	f inertia (J)	: 0.2800 sq.ft.l	b
LRC	: 6.6		Duty cycle	;	: Cont.(S1)	
Rated torque	ated torque : 9.02 ft.lb		Insulation	class	: F	
Locked rotor torque	ted rotor torque : 200 %		Service fa	ctor	: 1.15	
Breakdown torque	:	300 %	Temperature rise		: 80 K	
Rated speed	:	: 1165 rpm		Design		
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Customer :

Checked by

Date

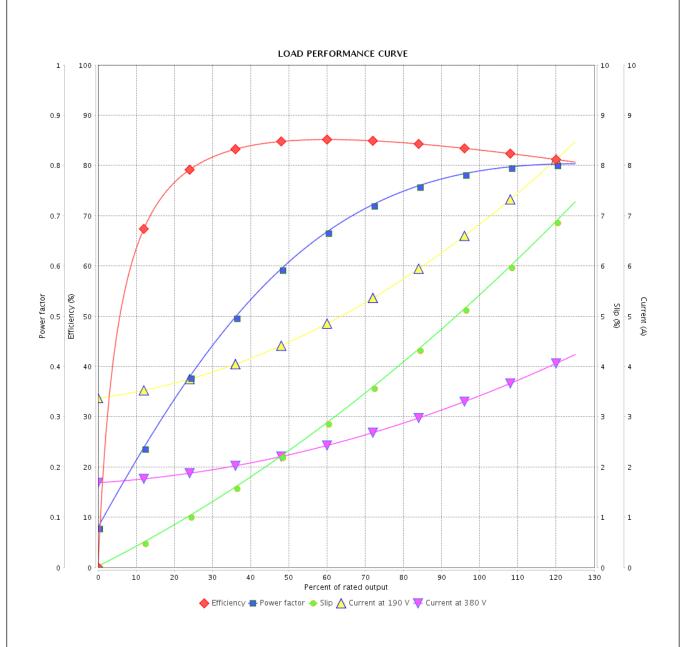
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12751165

Catalog #: 00212OT3E184T-S



: 1	90/380 V 50 Hz 6P				
: 5 : 1 ue : 1 e : 2	.1 1.1 ft.lb 60 % 20 %	Duty cycle Insulation Service fa	class ctor	: 0.2800 sq.ft.ll : Cont.(S1) : F : 1.00 : 105 K : B	o
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	: 6 : 5 : 1 ue : 1 e : 2	e : 220 % : 945 rpm	: 6.96/3.48 A Moment o : 5.1 Duty cycle : 11.1 ft.lb Insulation ue : 160 % Service fa e : 220 % Temperatu : 945 rpm Design	: 6.96/3.48 A Moment of inertia (J) : 5.1 Duty cycle : 11.1 ft.lb Insulation class ue : 160 % Service factor e : 220 % Temperature rise : 945 rpm Design	: 6.96/3.48 A Moment of inertia (J) : 0.2800 sq.ft.ll : 5.1 Duty cycle : Cont.(S1) : 11.1 ft.lb Insulation class : F ue : 160 % Service factor : 1.00 e : 220 % Temperature rise : 105 K : 945 rpm Design : B

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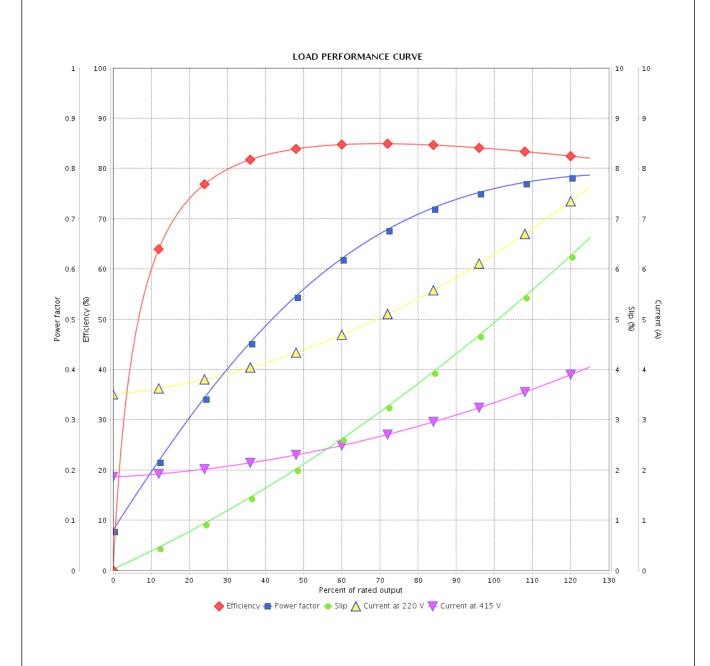


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12751165

Phase

Catalog #: 002120T3E184T-S



Performance	:	: 220/415 V 50 Hz 6P				
Rated current	Rated current : 6.41/3.40 A		Moment of inertia (J)		: 0.2800 sq.ft.lb	
LRC	:	5.7	Duty cycle	;	: Cont.(S1)	
Rated torque	:	11.1 ft.lb	Insulation	class	: F	
Locked rotor torque		190 %	Service fa	ctor	: 1.00	
Breakdown torque	:	250 %	Temperature rise		: 80 K	
Rated speed	:	: 950 rpm		Design		
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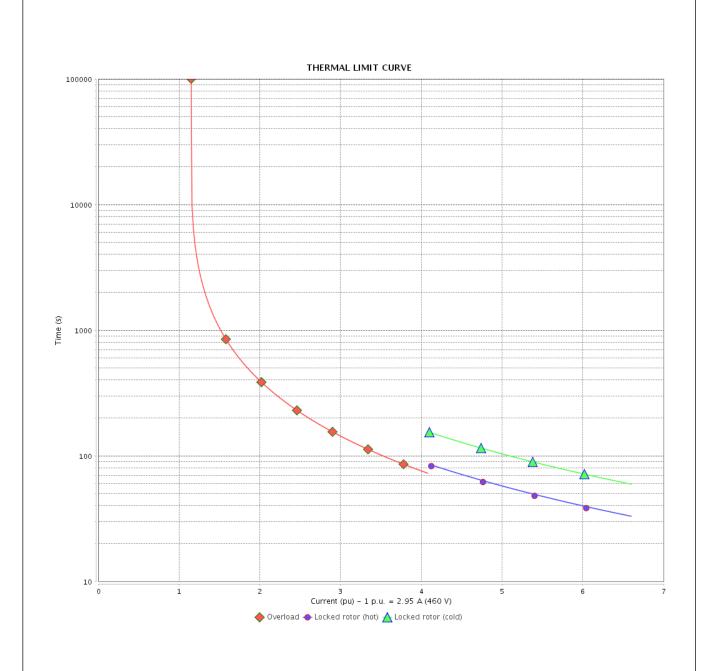


Customer	:				
Product line	: NEMA Premium Efficiency Phase		oduct code :	12751165 00212OT3E1	84T-S
Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 230/460 V 60 Hz 6P : 5.90/2.95 A : 6.6 : 9.02 ft.lb : 200 % : 300 % : 1165 rpm	Moment of in Duty cycle Insulation cla Service factor Temperature Design	ass or	: 0.2800 sq.ft.ll : Cont.(S1) : F : 1.15 : 80 K : B	b
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer :



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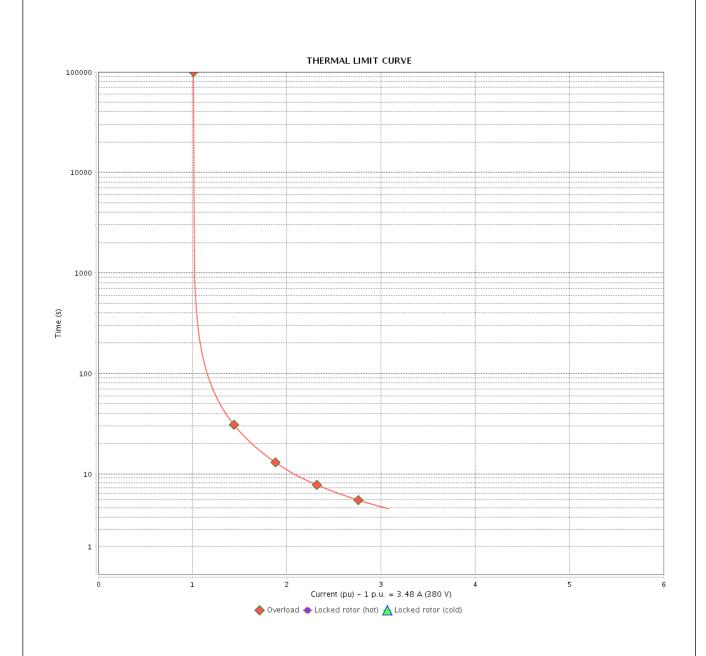


Customer	:	:				
Product line		: NEMA Premium Efficiency [·] Phase		Product code :	12751165 00212OT3E ²	84T-S
				Catalog # :	00212OT3E	84T-S
Performance		190/380 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	que :	6.96/3.48 A 5.1 11.1 ft.lb 160 % 220 % 945 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.2800 sq.ft.l : Cont.(S1) : F : 1.00 : 105 K : B	b
Heating constant	t		-			
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Three Phase Induction Motor - Squirrel Cage



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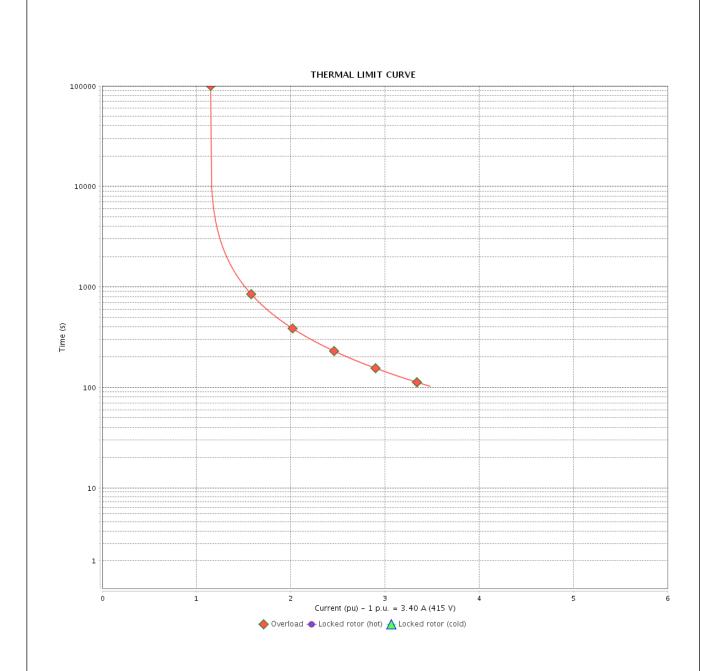


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12751165	
		Tildac		Catalog # :	00212OT3E1	84T-S
Performance		: 220/415 V 50 Hz 6P				
Rated current		: 6.41/3.40 A	Moment of	of inertia (J)	: 0.2800 sq.ft.l	b
LRC Rated torque		: 5.7 : 11.1 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 190 %	Service fa	actor	: 1.00	
Breakdown torqu	ue :	: 250 %	Temperat	ure rise	: 80 K	
Rated speed		: 950 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	L	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

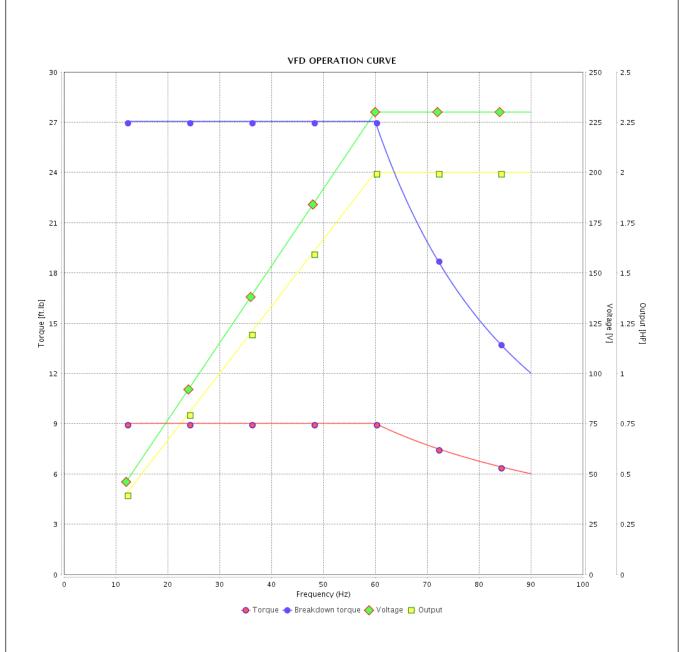
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12751165

Catalog #: 00212OT3E184T-S



Performance : 230/460 V 60 Hz 6P Rated current : 5.90/2.95 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class Rated torque : 9.02 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1165 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

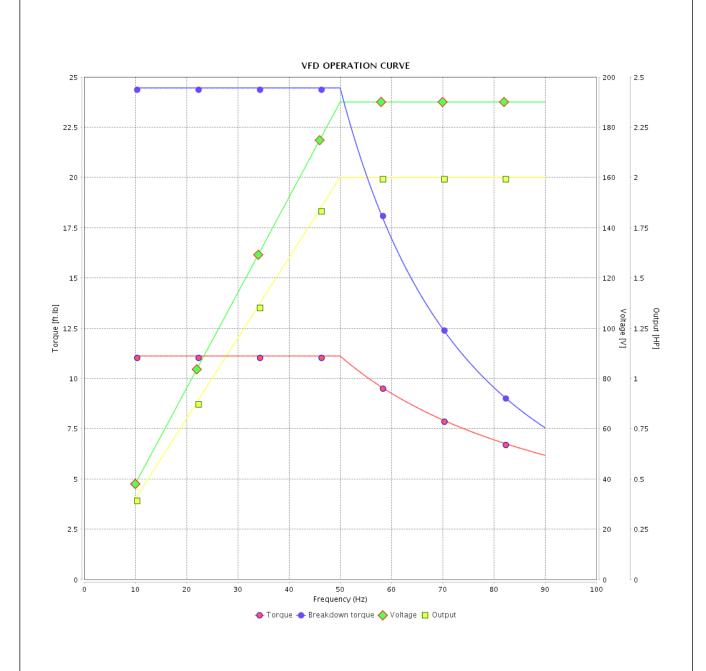
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 002120T3E184T-S

12751165

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Performance	: 190/380 V 50 Hz 6P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.96/3.48 A : 5.1 : 11.1 ft.lb : 160 % : 220 % : 945 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2800 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B			
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VFD OPERATION CURVE

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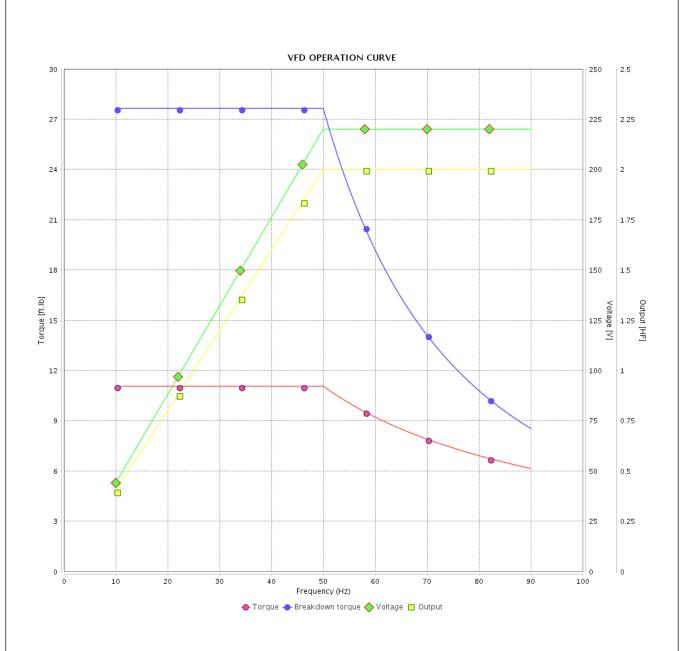
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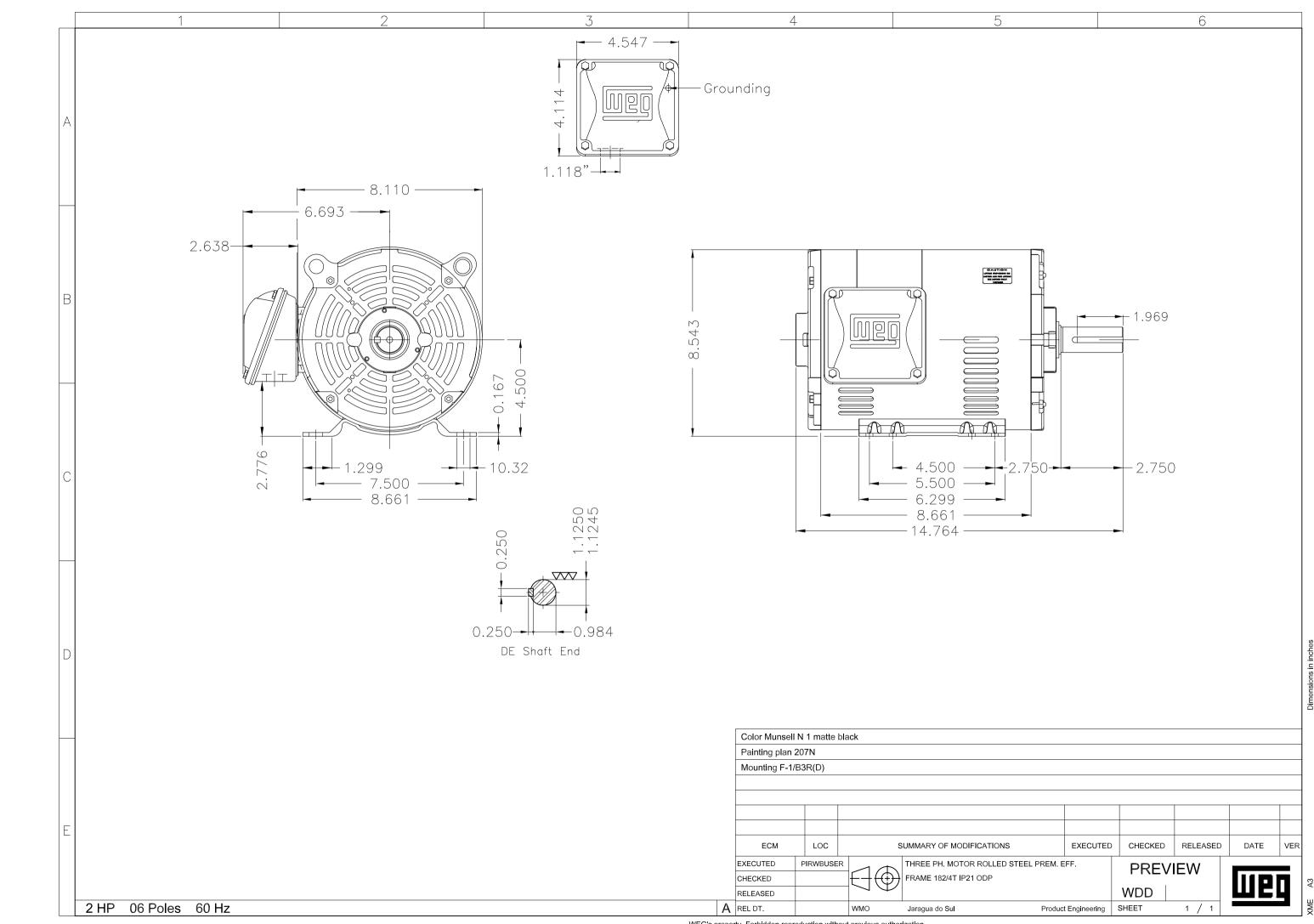
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Performance : 220/415 V 50 Hz 6P Rated current : 6.41/3.40 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 11.1 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 950 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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Energy Verifi

(**UL)**US LISTED

MODEL 002120T3E184T-S S/N 5MAR2022

N01.TODICOXON

12751165

MADE IN MÉXICO

Hz 60 182/4T CONT 5.90/2.95

3FA 냃 쌆

1000 m.a.s.l

F AT 80K

SCL

230/460 1.15

> CODE DES SABLE @ 208V 6.52A 2°04 900

2.0HP ALTERNATE RATING:

SF1.00 NCL 2

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. NOM EFF 945RPM ZPM 50 Hz 6205-ZZ

3 96-6 34/3 48-3 36A

IEC 60034-1

SF1.00 5:1 CT

190-220/380-415V

87.5%

EFF 83.0%

ODE

8206-ZZ

牌

MOBIL POLYREX EM

T6

T6-GRY

T5-BLK 1-BLU

T2-WHT

T4-YEL

r3-org

NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

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 and national electrical codes to prevent serious electrical

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