### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13459655

Phase

Catalog #: 00152OT3E182T-S Frame : 182/4T Cooling method : IC01 - ODP Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 59.1 lb Altitude Design : B Moment of inertia (J) : 0.2178 sq.ft.lb Output [HP] 1.5 1.5 1.5 Poles 6 6 6 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 220/415 190/380 Rated current [A] 4.50/2.25 5.24/2.62 4.79/2.54 L. R. Amperes [A] 29.3/14.6 27.2/13.6 27.3/14.5 LRC [A] 6.5x(Code J) 5.2x(Code G) 5.7x(Code H) No load current [A] 2.74/1.37 2.69/1.35 2.80/1.49 Rated speed [RPM] 1165 950 955 Slip [%] 2.92 5.00 4.50 Rated torque [ft.lb] 6.76 8.29 8.25 Locked rotor torque [%] 200 160 190 Breakdown torque [%] 310 220 260 Service factor 1.15 1.15 1.15 80 K 80 K 80 K Temperature rise 0s (cold) 0s (hot) 0s (cold) 0s (hot) Locked rotor time 82s (cold) 46s (hot) Noise level<sup>2</sup> 52.0 dB(A) 50.0 dB(A) 50.0 dB(A) 25% 82.8 84.0 82.3 50% 84.0 83.3 82.3 Efficiency (%) 75% 85.5 84.1 84.0 100% 86.5 82.8 83.5 25% 0.29 0.35 0.31 50% 0.51 0.54 0.59 Power Factor

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

Bearing type : 6206 ZZ 6205 ZZ Max. traction : 107 lb Sealing : Without Without Max. compression : 166 lb

Bearing Seal Bearing Seal

0.63

0.71

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

Notes

USABLE @208V 4.98A SF 1.00 SFA 4.98A

75%

100%

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.

0.67

0.75

0.71

0.77

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



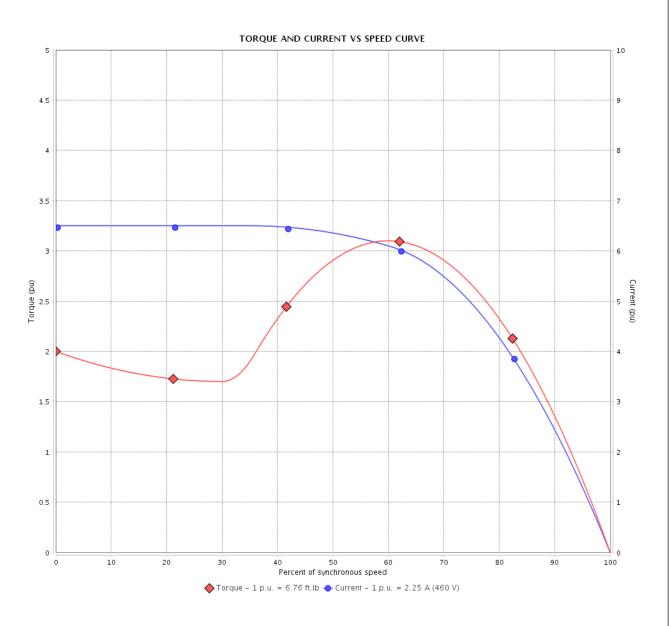
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13459655

Catalog #: 00152OT3E182T-S



Performance : 230/460 V 60 Hz 6P Rated current : 4.50/2.25 A Moment of inertia (J) : 0.2178 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) : F : 6.76 ft.lb Insulation class Rated torque : 200 % Service factor Locked rotor torque : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1165 rpm Design : B

Locked rotor time : 82s (cold) 46s (hot)

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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: 13459655 Catalog #: 00152OT3E182T-S TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current

◆ Torque - 1 p.u. = 8.29 ft.lb ◆ Current - 1 p.u. = 2.62 A (380 V) Performance : 190/380 V 50 Hz 6P Rated current : 5.24/2.62 A Moment of inertia (J) : 0.2178 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) : 8.29 ft.lb Insulation class : F Rated torque Locked rotor torque : 160 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 950 rpm Design : B

Percent of synchronous speed

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

0.5

0.25

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



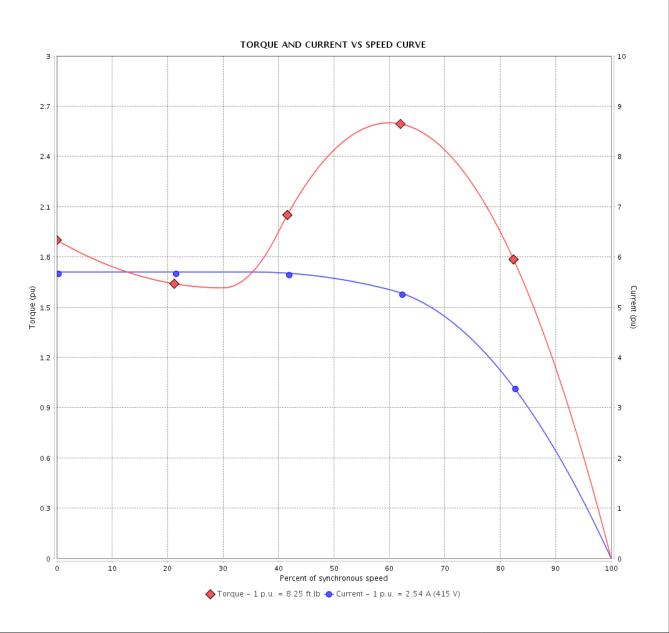
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13459655

Catalog #: 00152OT3E182T-S



Performance : 220/415 V 50 Hz 6P Rated current : 4.79/2.54 A Moment of inertia (J) : 0.2178 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : F : 8.25 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 190 % : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 955 rpm Design : B

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

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

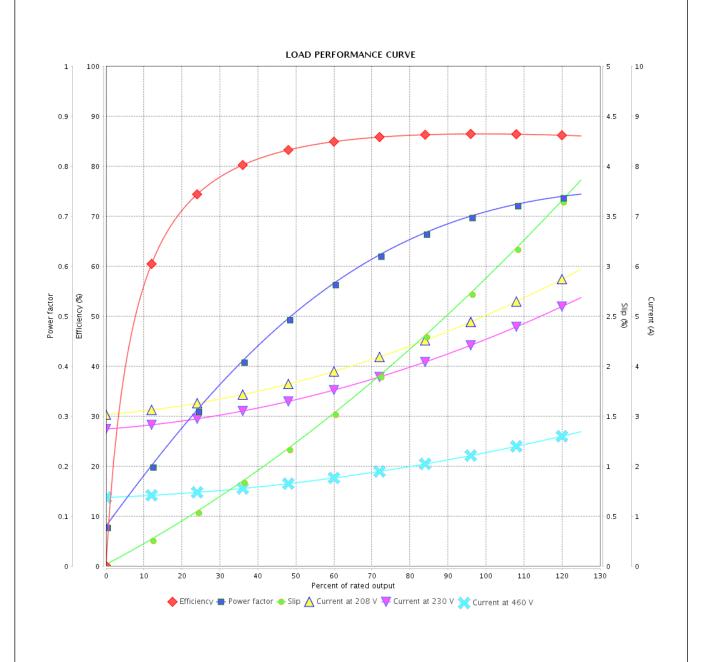


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13459655

Phase

Catalog #: 00152OT3E182T-S



Performance	: 2	230/460 V 60 Hz 6P				
Rated current	: 4	1.50/2.25 A	Moment o	f inertia (J)	: 0.2178 sq.ft.lb	
LRC	: 6	3.5	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 6	6.76 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	200 %	Service fa	ctor	: 1.15	
Breakdown torque		310 %	Temperature rise		: 80 K	
Rated speed	: 1	165 rpm	Design		: B	
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### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



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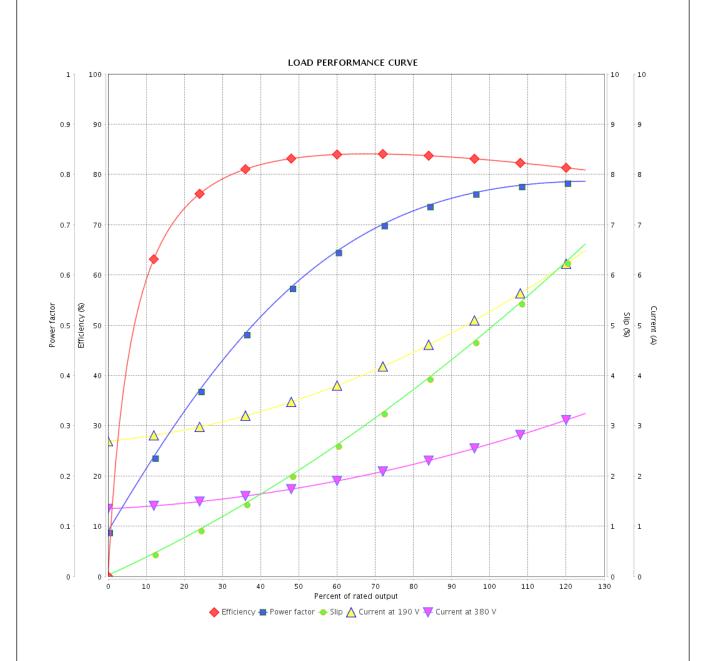
Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 13459655

Phase

Catalog #: 00152OT3E182T-S



Performance : 190/380 V 50 Hz 6P Rated current : 5.24/2.62 A Moment of inertia (J) : 0.2178 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) : 8.29 ft.lb Insulation class Rated torque : F Locked rotor torque : 160 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 950 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

## LOAD PERFORMANCE CURVE

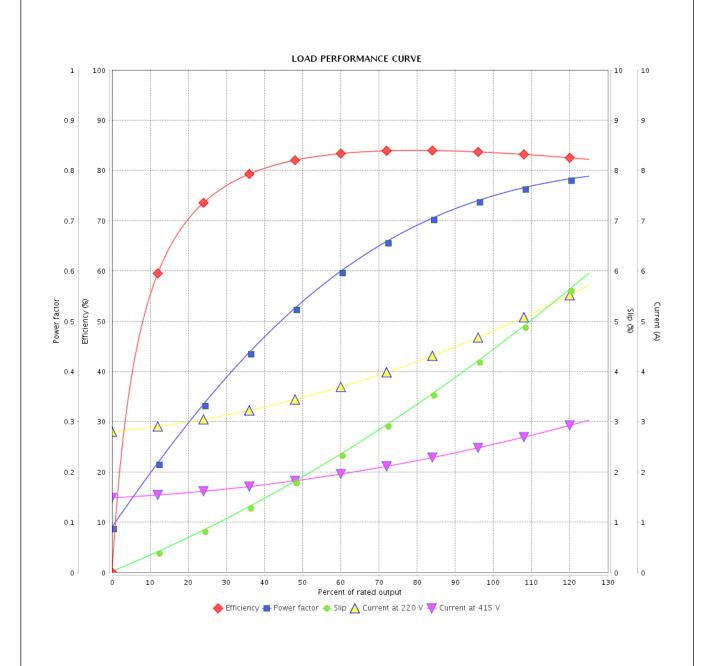
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13459655

Catalog #: 00152OT3E182T-S



Performance	: 2	20/415 V 50 Hz 6P				
Rated current	ated current : 4.79/2.54 A		Moment o	f inertia (J)	: 0.2178 sq.ft.lb	
LRC	: 5	.7	Duty cycle	)	: Cont.(S1)	
Rated torque	: 8	.25 ft.lb	Insulation	class	: F	
Locked rotor torque : 190 %		90 %	Service fa	ctor	: 1.15	
Breakdown torque : 2		60 %	Temperature rise		: 80 K	
Rated speed	: 9	55 rpm	Design		: B	
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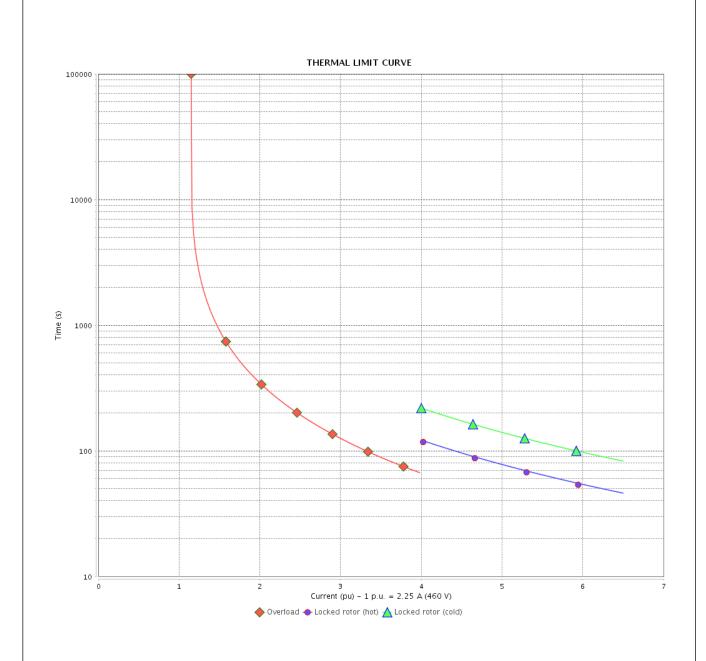


Customer	:					
Product line		NEMA Premium Efficiency <sup>·</sup> hase		Product code : Catalog # :	13459655 00152OT3E <sup>-</sup>	182T-S
Performance Rated current		30/460 V 60 Hz 6P .50/2.25 A	Moment o	f inertia (J)	: 0.2178 sq.ft.	ıb
LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 6. : 20 : 3		Duty cycle Insulation Service fa Temperatu Design	class ctor	: Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

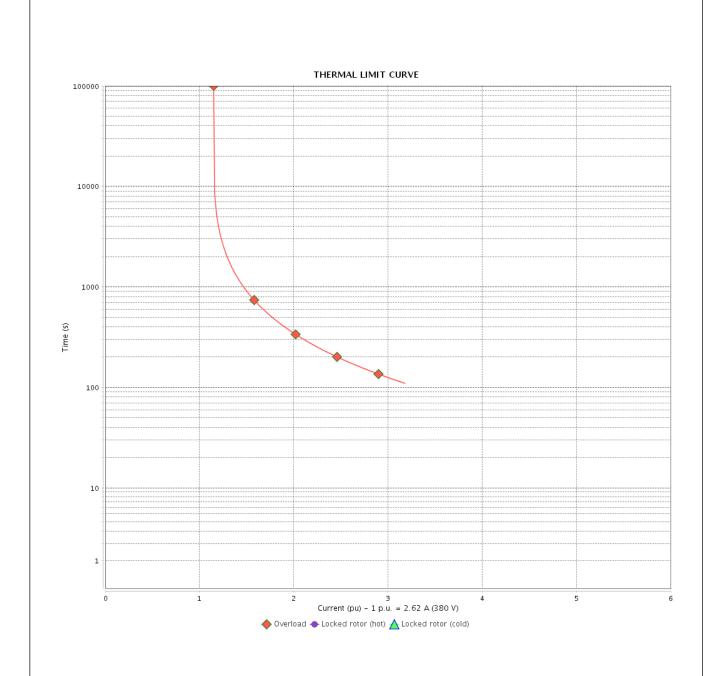


Customer	:	:				
Product line		NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	13459655 00152OT3E	182T-S
Performance		190/380 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: { : { que : ' ue : '	5.24/2.62 A 5.2 3.29 ft.lb 160 % 220 %	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.2178 sq.ft.l : Cont.(S1) : F : 1.15 : 80 K : B	b
Heating constant	t			Performed	Checked	Data
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### Three Phase Induction Motor - Squirrel Cage



Customer :



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### Three Phase Induction Motor - Squirrel Cage

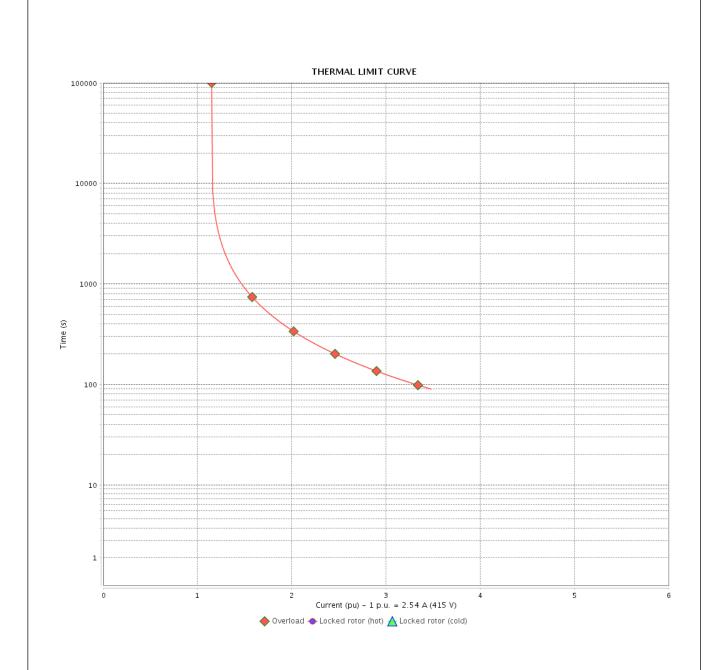


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	13459655	
				Catalog # :	00152OT3E1	82T-S
Performance		: 220/415 V 50 Hz 6P	Mamont	of inactio ( I)	. 0 2179 og fil	h
Rated current LRC		: 4.79/2.54 A : 5.7	Duty cycle		: 0.2178 sq.ft.l : Cont.(S1)	U
Rated torque		: 8.25 ft.lb : 190 %	Insulation Service fa	class	: F : 1.15	
Locked rotor tord Breakdown torqu		: 190 %	Temperat		: 1.15 : 80 K	
Rated speed		: 955 rpm	Design		: B	
Heating constan	t					
Cooling constant	t					
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### Three Phase Induction Motor - Squirrel Cage



Customer



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## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

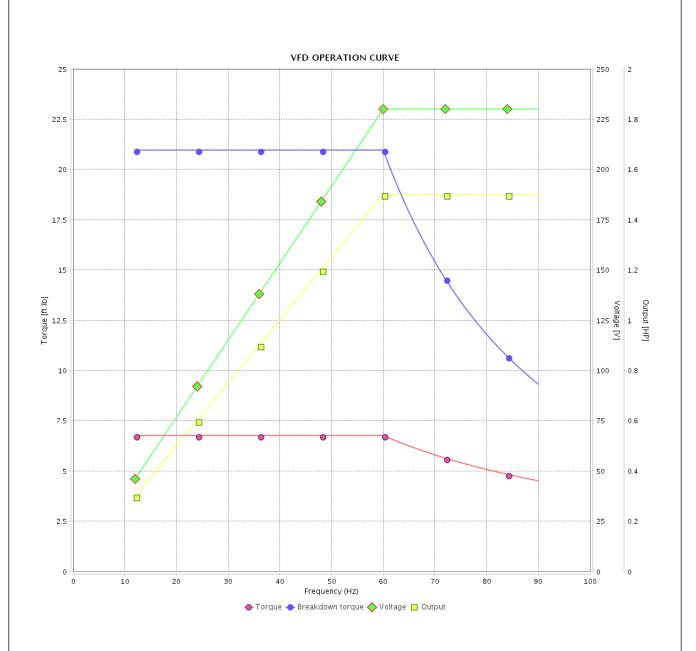
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Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 13459655

Catalog #: 00152OT3E182T-S



Performance : 230/460 V 60 Hz 6P Rated current : 4.50/2.25 A Moment of inertia (J) : 0.2178 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.5 : 6.76 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1165 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage

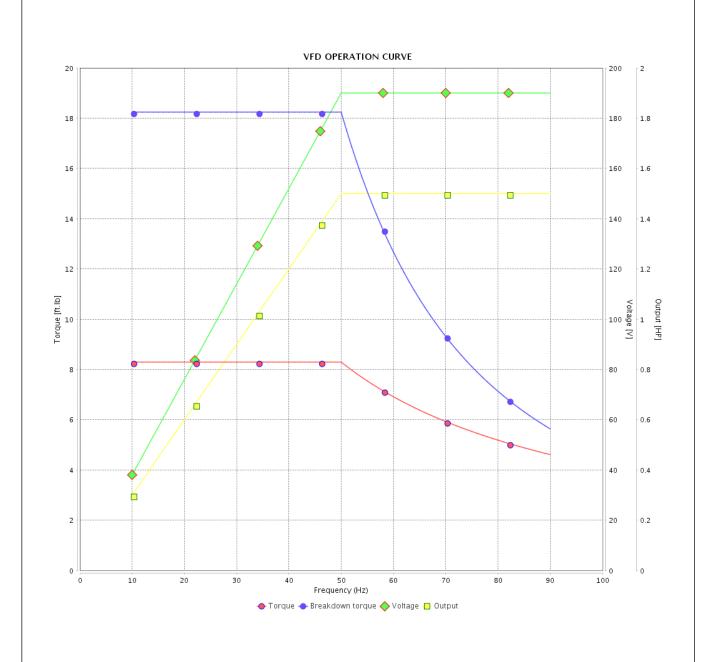


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13459655

Phase

Catalog #: 00152OT3E182T-S



Performance	: 190/380 V 50 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.24/2.62 A : 5.2 : 8.29 ft.lb : 160 % : 220 % : 950 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2178 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
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# VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

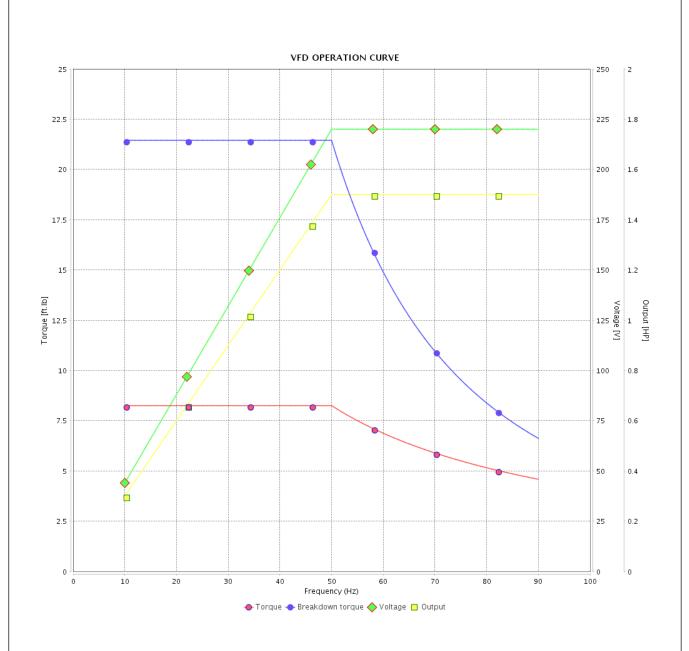
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13459655

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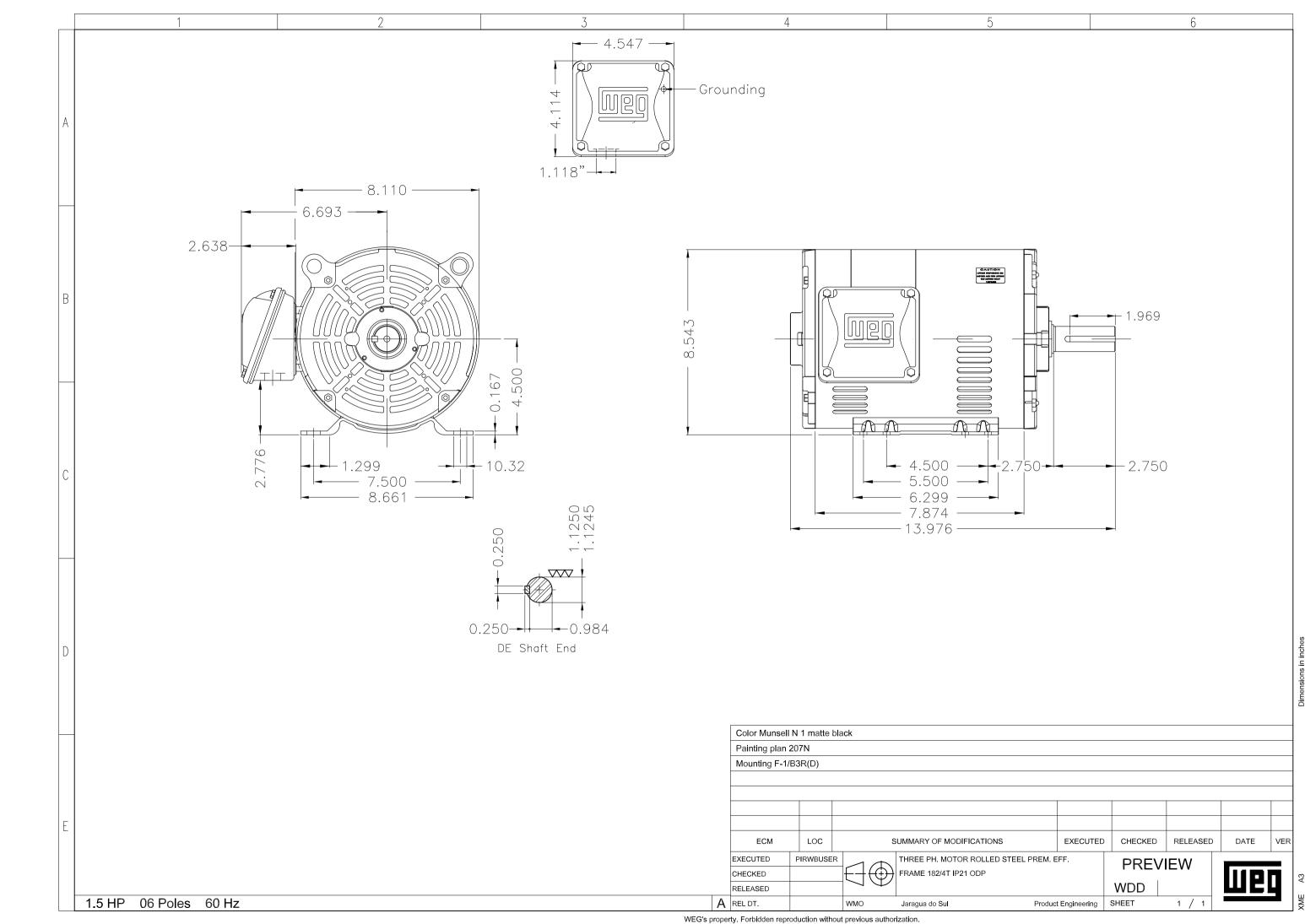


Performance	: 220/415 V 50 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.79/2.54 A : 5.7 : 8.25 ft.lb : 190 % : 260 % : 955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2178 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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¥EX V MAT: 13459655

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3PT9

Energy Verifi

MADE IN MÉXICO

MODEL 001520T3E182T-S S/N N01.TODICOXON

50CT2021

Hz 60 182/4T CONT

DES 1000 m.a.s.l F AT 80K 2°04

SCL

4.50/2.25 5.17/2.59

230/460 1.15

> CODE SABLE @ 208V 4.98A ALTERNATE RATING:

SF1.00 INC. 2

900

ZPM 3FA 냃 쌆

Inverter duty motor For 80Hz use on VPWM 1000:1 VT. NOM EFF 50 Hz 6205-ZZ 1.5HP

5.24-4.81/2.62-2.55A

IEC 60034-1

SF1.15

190-220/380-415V

86.5%

**EFF 82.8%** 

950RPM

ODE

8206-ZZ

牌

MOBIL POLYREX EM

T6

AVERTISSEMENT: Le moteur doit être mis à la terre 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 and national electrical codes to prevent serious electrical



T7-PNK T9-BRK

choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine conformément aux codes électriques locaux et nationaux afin d'éviter tout