DATA SHEET

Three Phase Induction Motor - Squirrel Cage



6

0.74

Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13187814

Phase

Catalog #: 00152ET3E182TC-S

6

0.76

Frame : 182/4TC Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 80.4 lb

6

Protection degree : IP55 Moment of inertia (J) : 0.2800 sq.ft.lb

Design : B

Output [HP] 1.5 1.5 1.5

li oles		l 0	0	
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		4.44/2.22	5.18/2.59	4.73/2.51
L. R. Amperes [A]		30.6/15.3	29.5/14.8	29.8/15.8
LRC [A]		6.9x(Code K)	5.7x(Code H)	6.3x(Code J)
No load current [A]	2.73/1.36	2.69/1.34	2.74/1.46
Rated speed [RPN	<i>/</i> I]	1170	955	960
Slip [%]		2.50	4.50	4.00
Rated torque [ft.lb]]	6.73	8.25	8.21
Locked rotor torqu	e [%]	240	190	220
Breakdown torque	[%]	340	260	290
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		99s (cold) 55s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level ²		52.0 dB(A)	50.0 dB(A)	50.0 dB(A)
	25%	82.8	84.4	83.2
Efficiency (%)	50%	84.0	84.2	83.5
Liliciency (70)	75%	86.5	85.6	85.5
	100%	87.5	84.9	85.4
	25%	0.29	0.34	0.31
Power Factor	50%	0.50	0.58	0.54
1 OWCI I actor	75%	0.63	0.70	0.66

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

Bearing type : 6206 ZZ 6205 ZZ Max. traction : 112 lb Sealing : V'Ring Without Max. compression : 192 lb

0.71

Bearing Seal

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

Notes

Poles

USABLE @208V 4.91A SF 1.00 SFA 4.91A

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.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



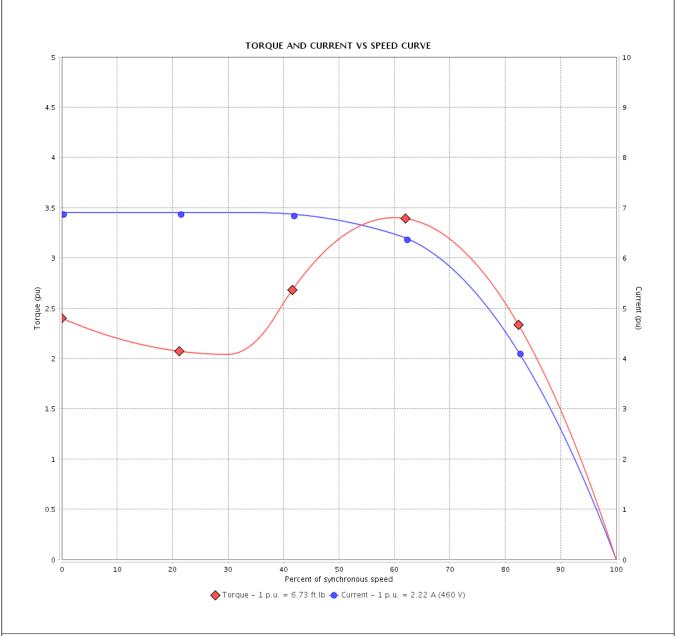
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 13187814

Catalog #: 00152ET3E182TC-S



Performance : 230/460 V 60 Hz 6P Rated current : 4.44/2.22 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 6.73 ft.lb Service factor Locked rotor torque : 240 % : 1.15 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B

Locked rotor time : 99s (cold) 55s (hot)

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TORQUE AND CURRENT VS SPEED CURVE

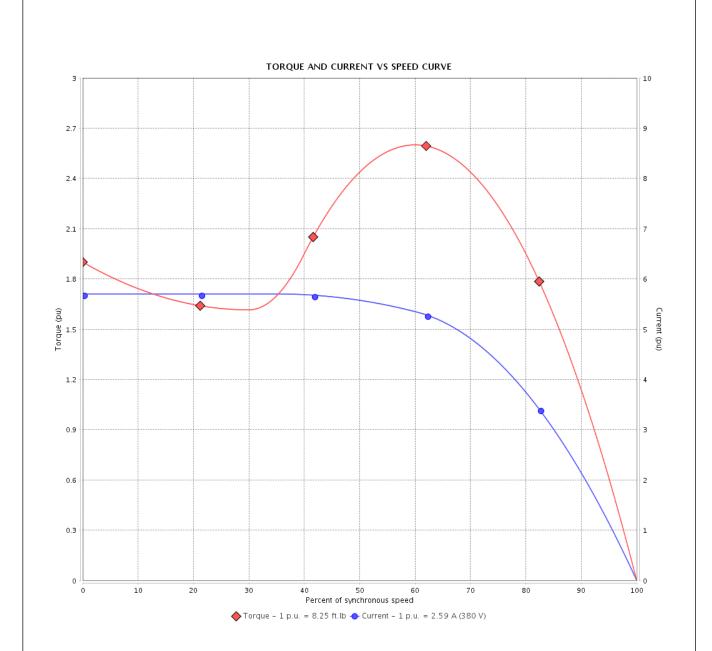
Three Phase Induction Motor - Squirrel Cage



00152ET3E182TC-S

Customer Product line : NEMA Premium Efficiency Three-Product code: 13187814

Catalog #:



Performance : 190/380 V 50 Hz 6P Rated current : 5.18/2.59 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 8.25 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 955 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



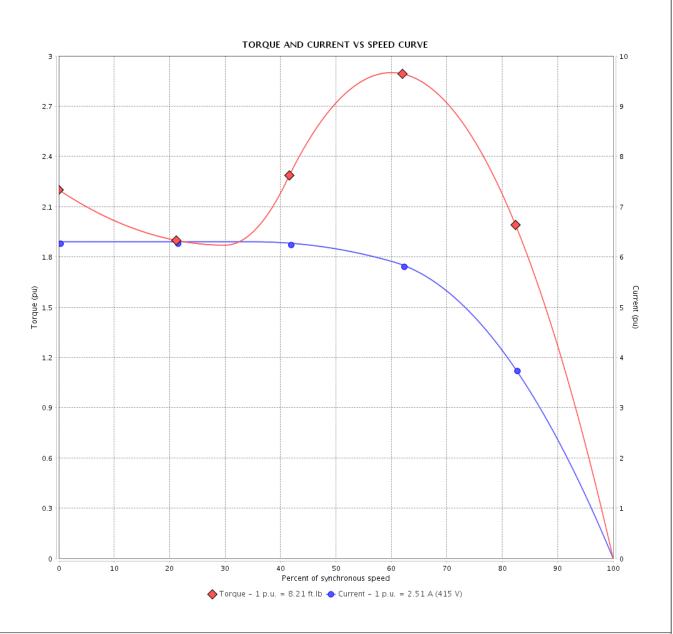
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13187814

Catalog #: 00152ET3E182TC-S



Performance : 220/415 V 50 Hz 6P Rated current : 4.73/2.51 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 8.21 ft.lb Service factor Locked rotor torque : 220 % : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 960 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

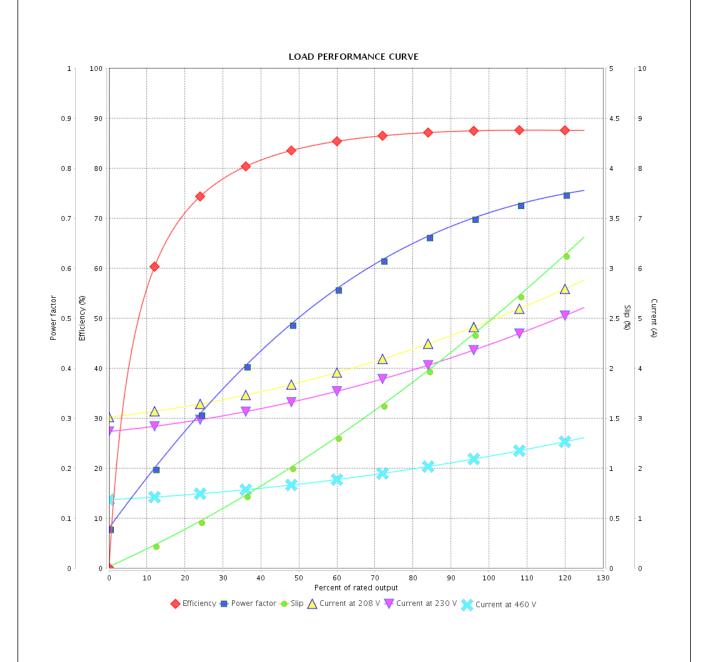


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13187814

Phase

Catalog #: 00152ET3E182TC-S



Performance	: 2	30/460 V 60 Hz 6P				
Rated current	: 4	.44/2.22 A	Moment o	f inertia (J)	: 0.2800 sq.ft.	.lb
LRC	: 6	.9	Duty cycle	:	: Cont.(S1)	
Rated torque	: 6	.73 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	40 %	Service fa	ctor	: 1.15	
Breakdown torque		40 %	Temperatu	Temperature rise		
Rated speed	: 1	170 rpm	Design		: B	
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LOAD PERFORMANCE CURVE

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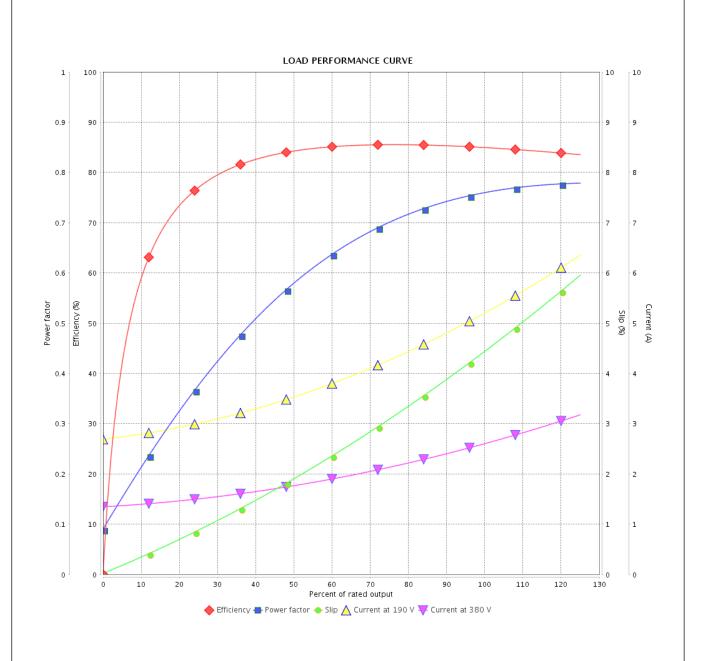
Date

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Product line : NEMA Premium Efficiency Three- Product code : 13187814

Phase

Catalog #: 00152ET3E182TC-S



Performance : 190/380 V 50 Hz 6P Rated current : 5.18/2.59 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.7 : 8.25 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 955 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

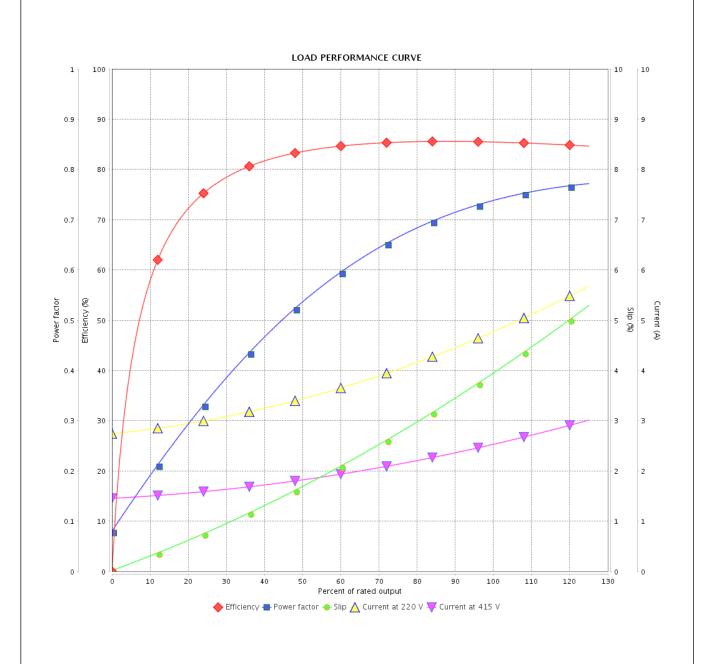


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13187814

Phase

Catalog #: 00152ET3E182TC-S



					·	
Performance	: 22	20/415 V 50 Hz 6P				
Rated current	: 4.	73/2.51 A	Moment o	f inertia (J)	: 0.2800 sq.ft	.lb
LRC	: 6.	3	Duty cycle)	: Cont.(S1)	
Rated torque	: 8.	21 ft.lb	Insulation	class	: F	
Locked rotor torque :		20 %	Service fa	ctor	: 1.15	
Breakdown torque		90 %	Temperati	Temperature rise		
Rated speed	: 96	960 rpm Design		: B		
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Three Phase Induction Motor - Squirrel Cage

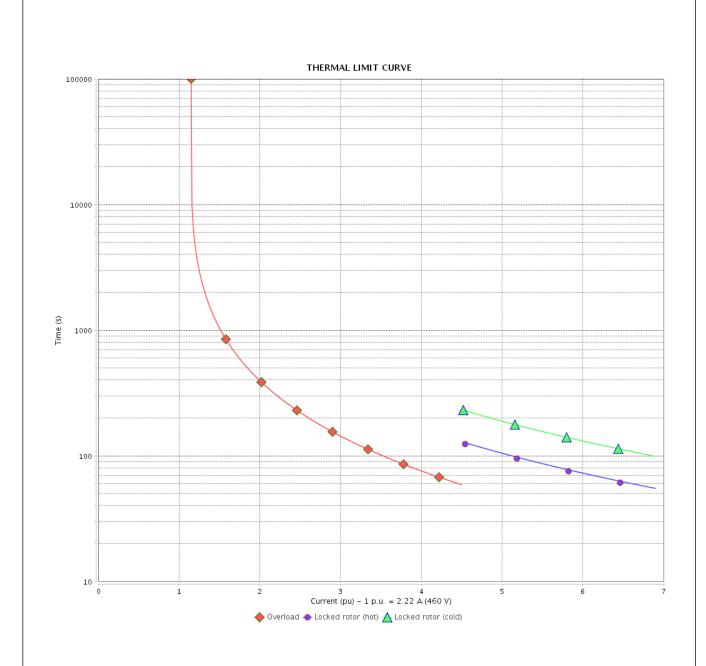


Customer	:				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	13187814	
	Tilasc		Catalog # :	00152ET3E1	82TC-S
Performance	: 230/460 V 60 Hz 6P				
Rated current	: 4.44/2.22 A		f inertia (J)	: 0.2800 sq.ft.l	b
LRC Rated torque	: 6.9 : 6.73 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torque	e : 240 %	Service fa	ctor	: 1.15	
Breakdown torque		Temperati	ıre rise	: 80 K	
Rated speed	: 1170 rpm	Design		: 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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Three Phase Induction Motor - Squirrel Cage

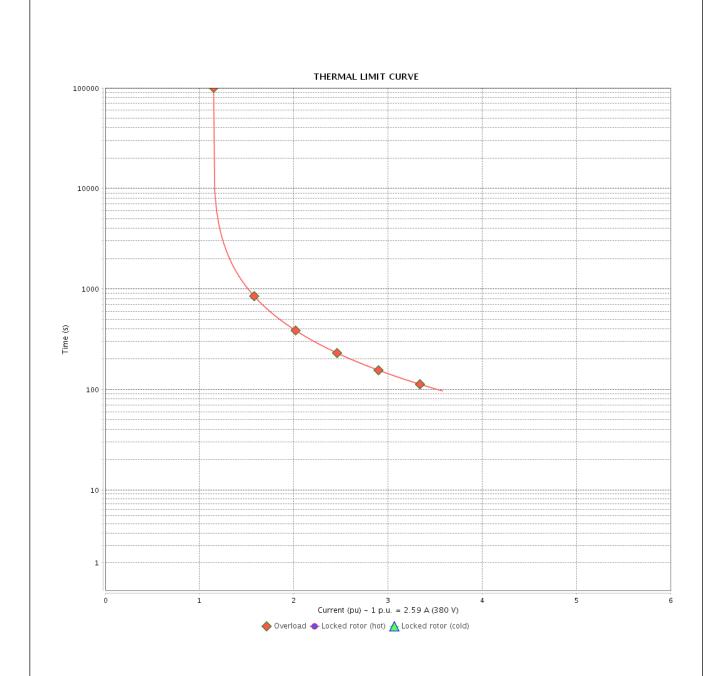


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	13187814	
		Phase		Catalog # :	00152ET3E1	82TC-S
Performance		: 190/380 V 50 Hz 6P				
Rated current		: 5.18/2.59 A	Moment of	of inertia (J)	: 0.2800 sq.ft.l	b
LRC Rated torque		: 5.7 : 8.25 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	: 190 %	Service fa	actor	: 1.15	
Breakdown torqu	ue :	: 260 %	Temperat	ure rise	: 80 K	
Rated speed		: 955 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage

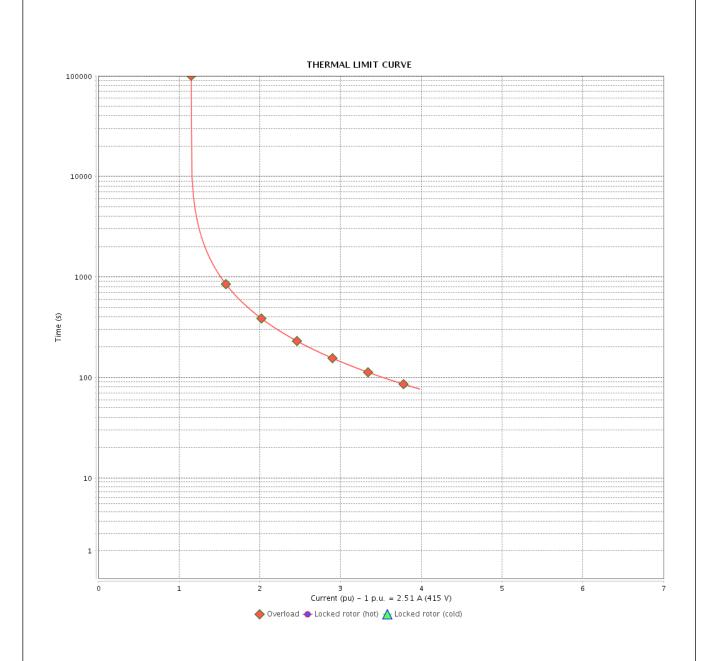


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	13187814	
		Phase		Catalog # :	00152ET3E1	82TC-S
Performance		: 220/415 V 50 Hz 6P	N 44	. C (C (D.	0.0000 6.11	ı.
Rated current LRC	:	: 4.73/2.51 A : 6.3	Duty cycle		: 0.2800 sq.ft.ll : Cont.(S1)	0
Rated torque Locked rotor tord		: 8.21 ft.lb : 220 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		: 290 %	Temperat		: 80 K	
Rated speed		: 960 rpm	Design		: B	
Heating constan						
Cooling constan	t 	Changes Commercial		Douts was!	Charles -	Data
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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

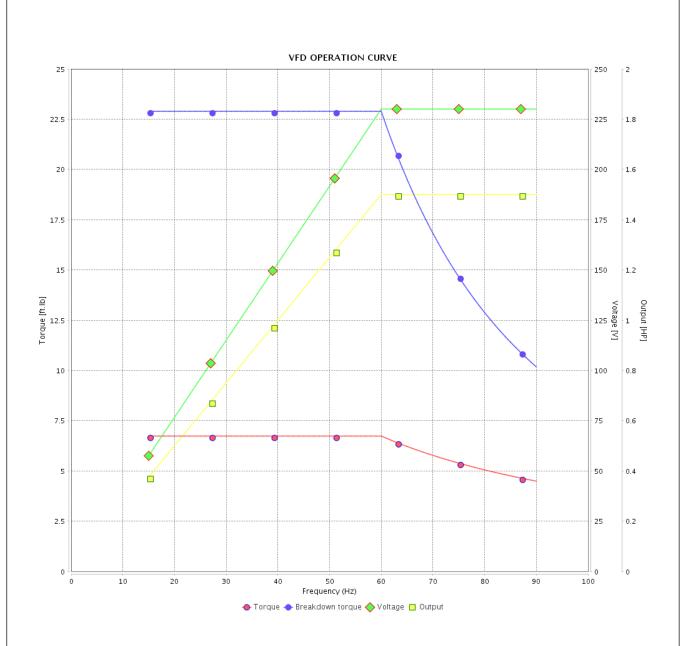
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Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 13187814

Catalog #: 00152ET3E182TC-S



Performance : 230/460 V 60 Hz 6P Rated current : 4.44/2.22 A Moment of inertia (J) : 0.2800 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.9 Insulation class Rated torque : 6.73 ft.lb : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1170 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

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Product line : NEMA Premium Efficiency Three- Product code :

Phase

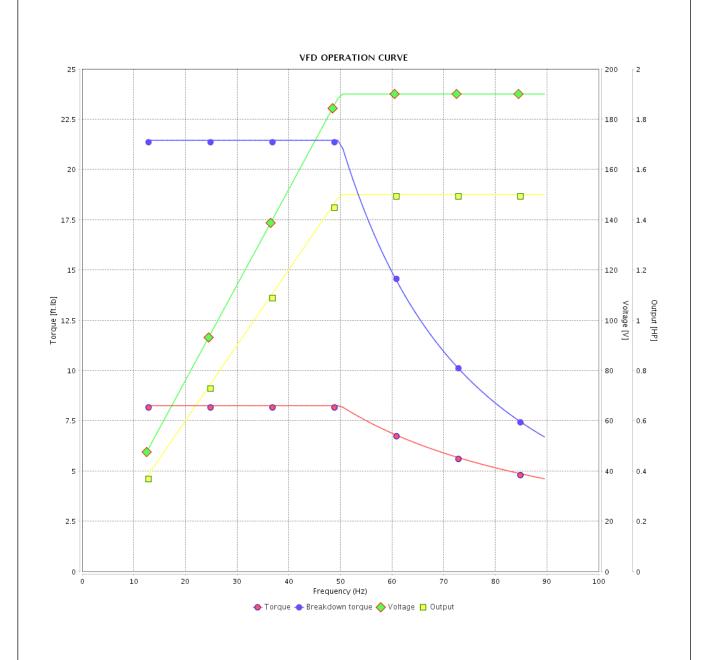
roduct code: 13187814

Catalog #: 00152ET3E182TC-S

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Revision



Performance	: 190/380 V 50 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.18/2.59 A : 5.7 : 8.25 ft.lb : 190 % : 260 % : 955 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2800 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

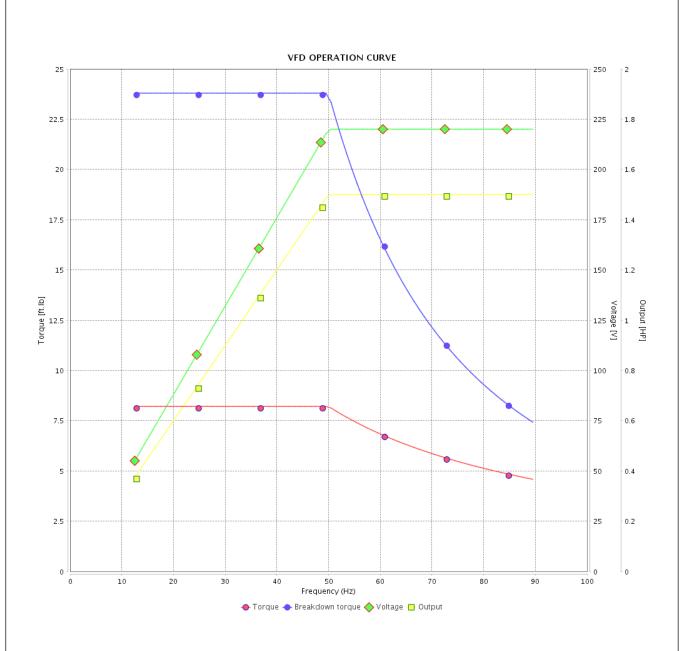
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13187814

Catalog #: 00152ET3E182TC-S

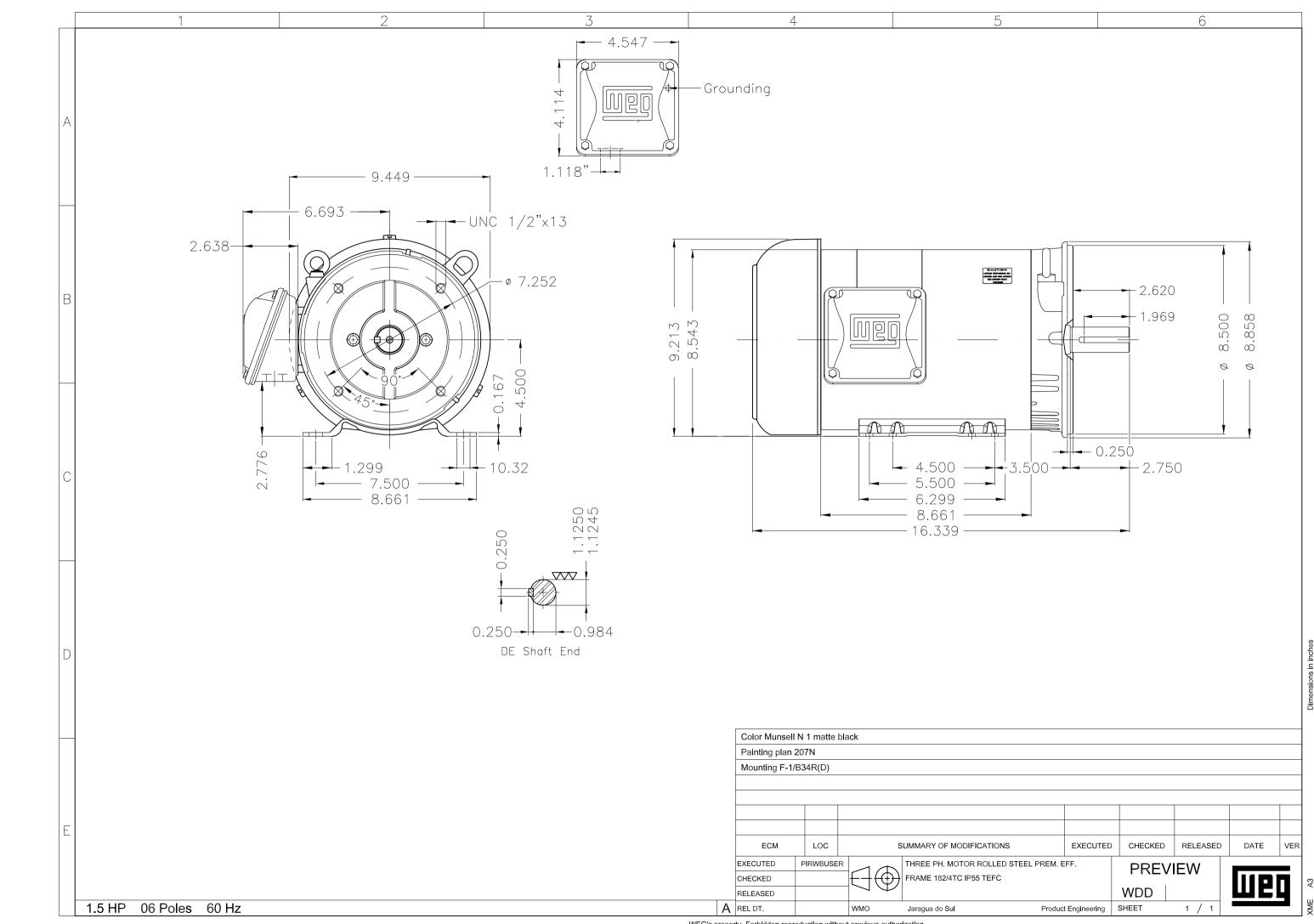


Performance		: 220/415 V 50 Hz 6P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 4.73/2.51 A : 6.3 : 8.21 ft.lb : 220 % : 290 % : 960 rpm	Duty cy Insulat Service Tempe	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2800 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
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NEX

Premiur

(**UL)**US LISTED FOR SAFE AREA

For 60Hz: Class I, Zone 2, IIC **&** Energy Verifi 3PT9

Class I, DIv.2, Gr. A,B,C,D - T3 CT 2:1/VT 1000:1 Div 2 Inverter Duty (SF1.00)

230/460

5.11/2.55

P55

1000 m.a.s.l

F AT 80K

SCI

1.15

Hz 60 S/N

182/4TC 25JAN2022

CONT

MODEL 00152ET3E182TC-S

N01.TE0IC0X0N 13187814

MADE IN MÉXICO

T6-GRY T4-YEL r3-org T7-PNK T9-BRK T5-BLK

IEC 60034-1

SF1.15

190-220/380-415V

87.5%

NOM EFF NEMA 955RPM

50 Hz

5.18-4.70/2.59-2.49A

SPM 3FA 냃 쌆

> CODE SHO

> TEFC 0

SABLE @ 208V 4.91A ALTERNATE RATING:

SF1.00 NCL W

EFF 84.9%

T2-WHT

1-BLU

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 4:1 CT

MOBIL POLYREX EM

ODE 6205-22 1.5HP

8206-ZZ

TE

shocks. Disconnect power source before servicing unit.

T8-RED RED

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

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