### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12675402

Phase

Catalog #: 00318ET3E182T-S

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

Insulation class : F 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> : 84.2 lb Altitude Protection degree : IP55 Moment of inertia (J) : 0.4017 sq.ft.lb Design : B Output [HP] 3 3 Poles 4 4 4 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 190/380 220/415 Rated current [A] 7.62/3.81 9.08/4.54 8.30/4.40 L. R. Amperes [A] 62.3/33.0 67.1/33.5 60.8/30.4 7.5x(Code J) LRC [A] 8.8x(Code K) 6.7x(Code H) No load current [A] 4.00/2.00 3.95/1.97 3.99/2.11 Rated speed [RPM] 1765 1455 1460 Slip [%] 1.94 3.00 2.67 Rated torque [ft.lb] 8.93 10.8 10.8 Locked rotor torque [%] 220 170 200 Breakdown torque [%] 300 260 290 Service factor 1.15 1.15 1.15 Temperature rise 80 K 80 K 80 K Locked rotor time 32s (cold) 18s (hot) 0s (cold) 0s (hot) 0s (cold) 0s (hot) Noise level<sup>2</sup> 56.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 86.4 88.2 87.8 50% 87.5 87.5 87.2 Efficiency (%) 75% 87.7 87.9 88.5

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

86.7

0.42

0.68

0.79

0.85

Bearing type : 6206 ZZ 6205 ZZ Max. traction : 158 lb Sealing : V'Ring Without Max. compression : 242 lb

89.5

0.36

0.61

0.74

0.81

Bearing Seal

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

Notes

Power Factor

USABLE @208V 8.43A SF 1.00 SFA 8.43A

100%

25%

50%

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.

87.0

0.39

0.65

0.77

0.83

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



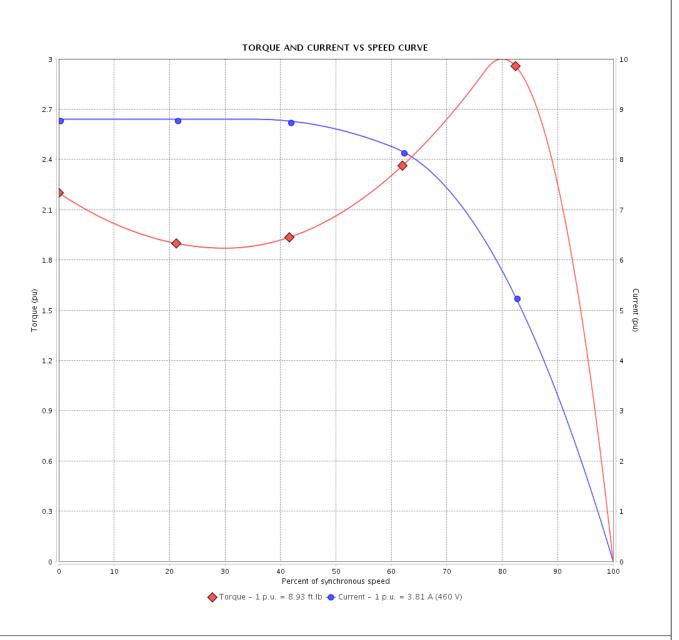
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12675402

Catalog #: 00318ET3E182T-S



Performance : 230/460 V 60 Hz 4P Rated current : 7.62/3.81 A Moment of inertia (J) : 0.4017 sq.ft.lb **LRC** : 8.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 8.93 ft.lb : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

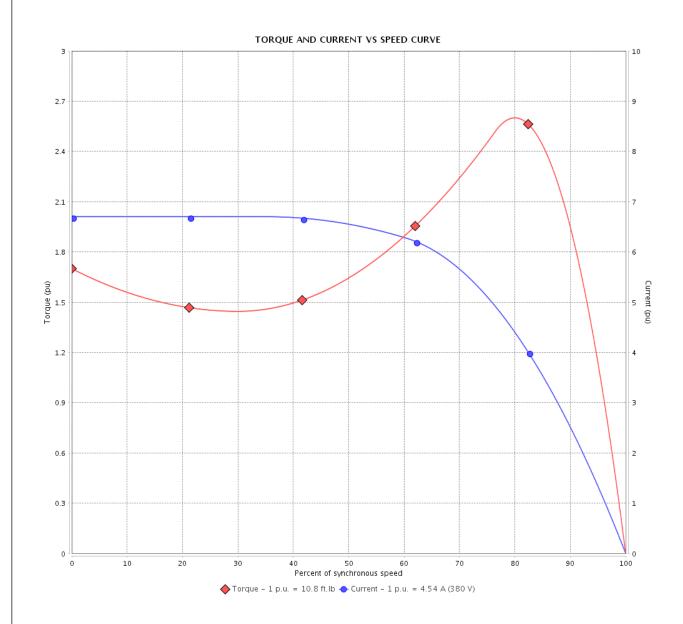
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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12675402 Catalog #: 00318ET3E182T-S



Performance : 190/380 V 50 Hz 4P Rated current : 9.08/4.54 A Moment of inertia (J) : 0.4017 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 10.8 ft.lb Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 1455 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



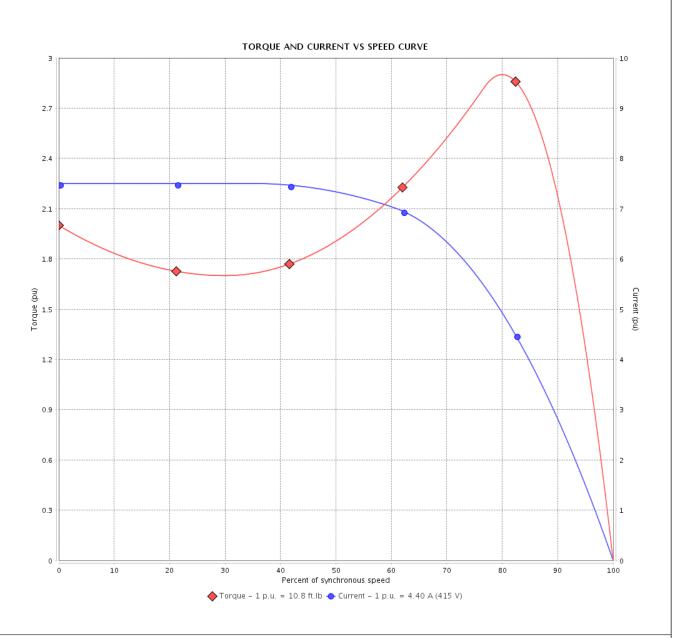
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12675402

Catalog #: 00318ET3E182T-S



Performance : 220/415 V 50 Hz 4P

Rated current : 8.30/4.40 A Moment of inertia (J)

: 1460 rpm

LRC : 7.5
Rated torque : 10.8 ft.lb
Locked rotor torque : 200 %
Breakdown torque : 290 %

Rated speed

Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

: 0.4017 sq.ft.lb

: Cont.(S1)

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

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Duty cycle

## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

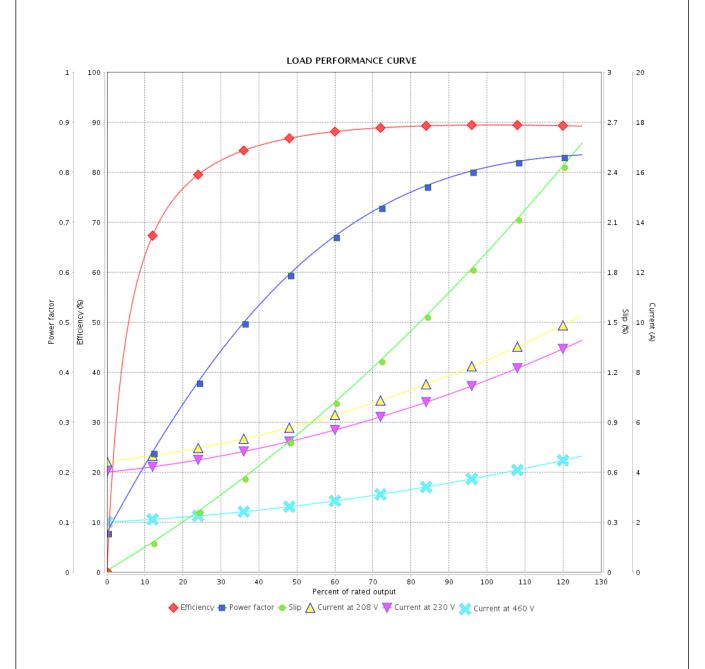


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12675402

Phase

Catalog #: 00318ET3E182T-S



Performance	: 230/460 V 60 Hz 4P					
Rated current : 7.62/3.81 A		Moment o	f inertia (J)	: 0.4017 sq.ft.lb		
LRC	: 8	3.8	Duty cycle	}	: Cont.(S1)	
Rated torque	: 8	3.93 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	220 %	Service fa	ctor	: 1.15	
Breakdown torque	: 3	: 300 % Te		Temperature rise		
Rated speed	: '	765 rpm Design		: B		
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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

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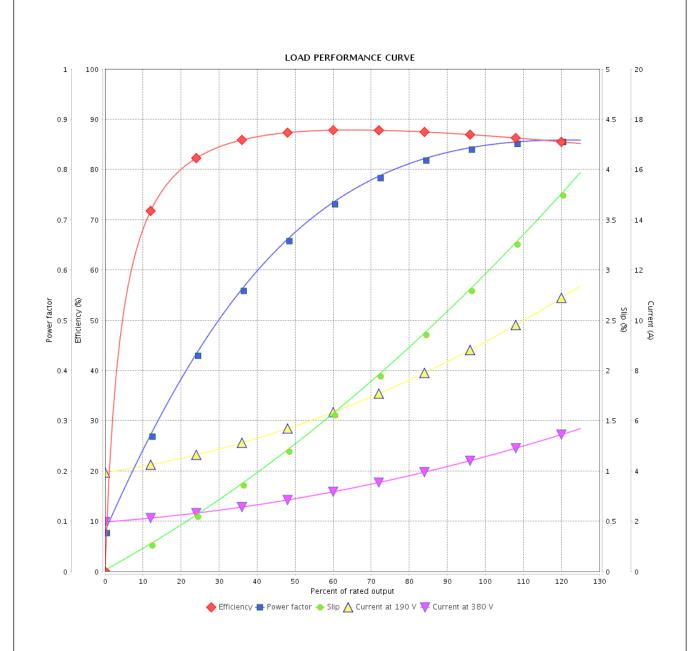
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00318ET3E182T-S

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Performance : 190/380 V 50 Hz 4P Rated current : 9.08/4.54 A Moment of inertia (J) : 0.4017 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 10.8 ft.lb : F Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

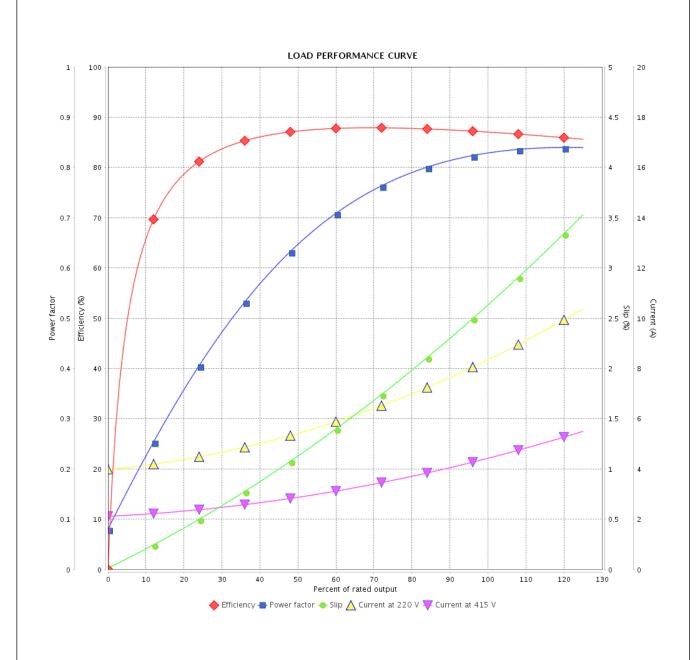


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12675402

Phase

Catalog #: 00318ET3E182T-S



Performance	: 220/415 V 50 Hz 4P	: 220/415 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8.30/4.40 A : 7.5 : 10.8 ft.lb : 200 % : 290 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4017 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	b		
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### Three Phase Induction Motor - Squirrel Cage

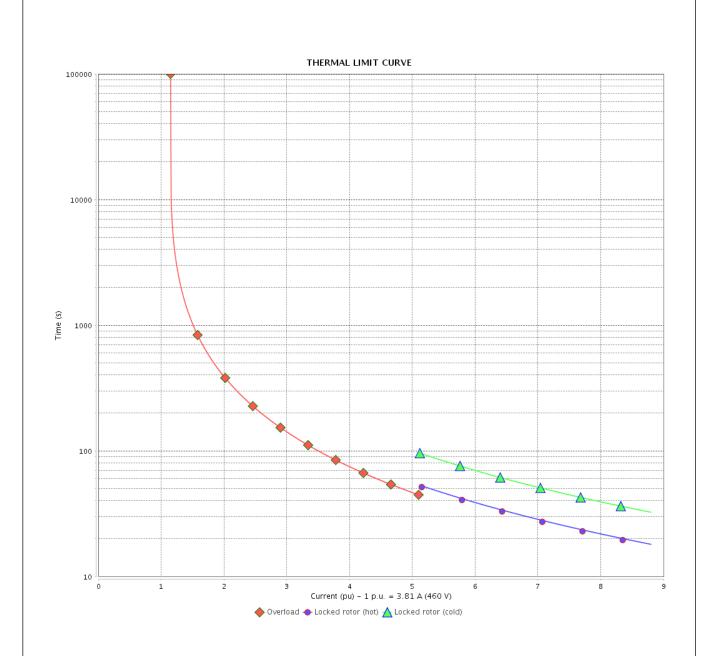


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	12675402	
	Phase				100T O
			Catalog # :	00318ET3E1	1821-S
Performance	: 230/460 V 60 Hz 4P	<del>.</del>			
Rated current	: 7.62/3.81 A	Moment of	f inertia (J)	: 0.4017 sq.ft.l	b
LRC	: 8.8	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torque	: 8.93 ft.lb : 220 %	Insulation Service fac		: F : 1.15	
Breakdown torque	: 300 %	Temperatu		: 80 K	
Rated speed	: 1765 rpm	Design		: 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

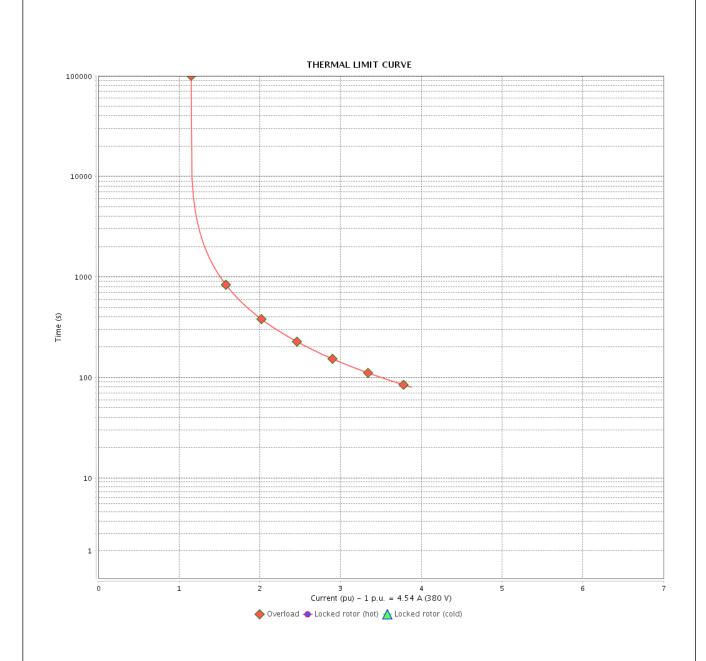


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12675402	02T C
				Catalog # .	00318ET3E1	021-3
Performance	:	190/380 V 50 Hz 4P				
Rated current		9.08/4.54 A	Moment o	of inertia (J)	: 0.4017 sq.ft.l	b
LRC Rated torque	:	6.7 10.8 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que :	: 170 %	Service fa	actor	: 1.15	
Breakdown torqu Rated speed		: 260 % : 1455 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant		·				
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

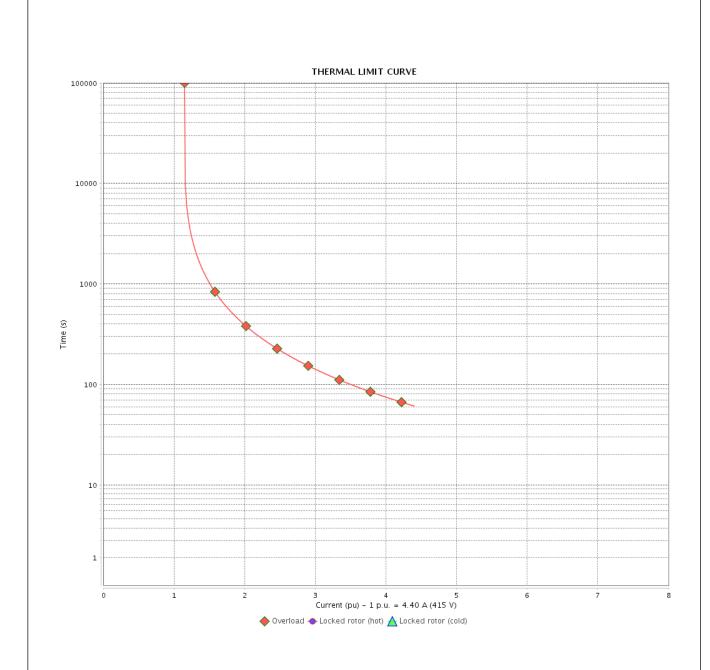


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12675402	
		T Hadd		Catalog # :	00318ET3E1	82T-S
Performance		: 220/415 V 50 Hz 4P				
Rated current		: 8.30/4.40 A	Moment of	of inertia (J)	: 0.4017 sq.ft.l	b
LRC		: 7.5 : 10.8 ft.lb	Duty cycl Insulation	е	: Cont.(S1) : F	
Rated torque Locked rotor tord		: 10.8 π.lb : 200 %	Service fa		: F : 1.15	
Breakdown torqu	ue	: 290 %	Temperat		: 80 K	
Rated speed		: 1460 rpm	Design		: B	
Heating constan						
Cooling constant	t	Change - O		Do-t	Obl !	D-1-
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### Three Phase Induction Motor - Squirrel Cage



Customer



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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



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Date

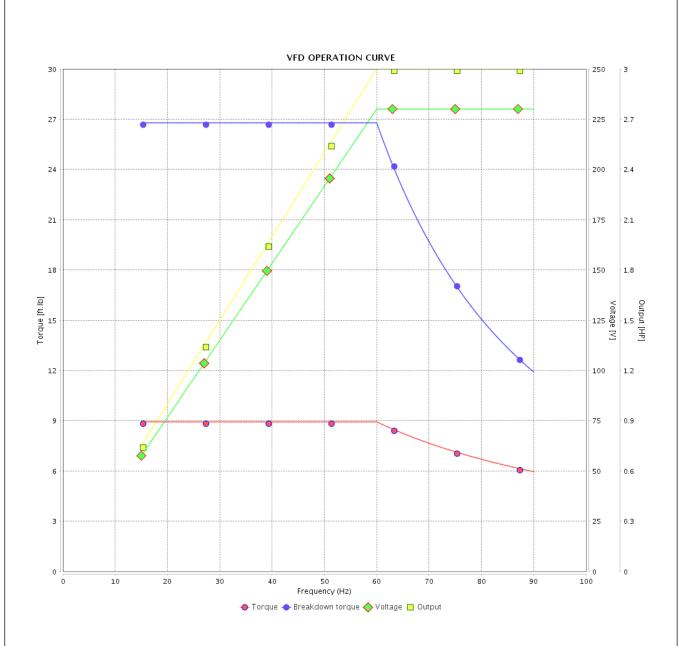
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12675402

Catalog #: 00318ET3E182T-S



Performance	: 2	230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: { : { : ue : : 2	7.62/3.81 A 3.8 3.93 ft.lb 220 % 300 % 1765 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.4017 sq.ft.ll : Cont.(S1) : F : 1.15 : 80 K : B	0
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## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage

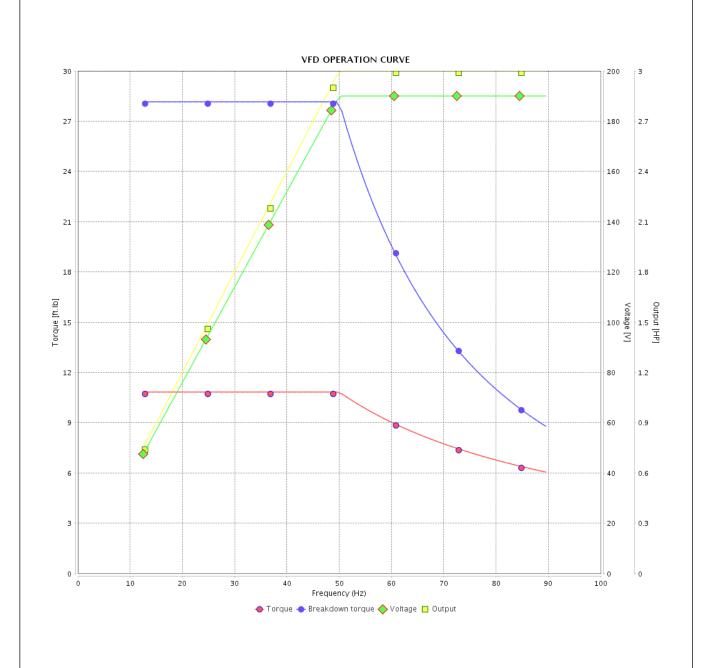


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00318ET3E182T-S

12675402



Performance	: 1	190/380 V 50 Hz 4P					
Rated current		9.08/4.54 A	Moment of inertia (J)		: 0.4017 sq.ft.lb		
LRC		6.7	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 1	10.8 ft.lb	Insulation	Insulation class		: F	
Locked rotor torqu	ie : 1	170 %	Service fa	Service factor		: 1.15	
Breakdown torque	: 2	260 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	1455 rpm	Design	Design		: B	
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## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



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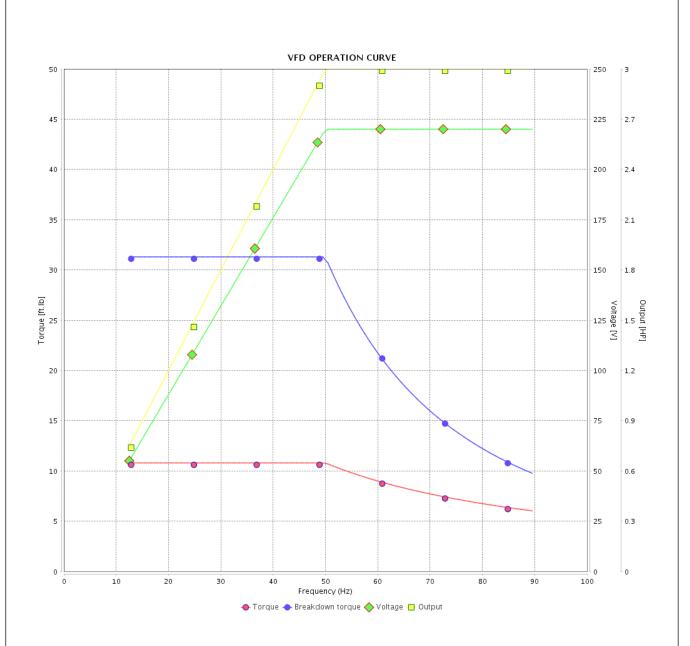
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Product line : NEMA Premium Efficiency Three- Product code :

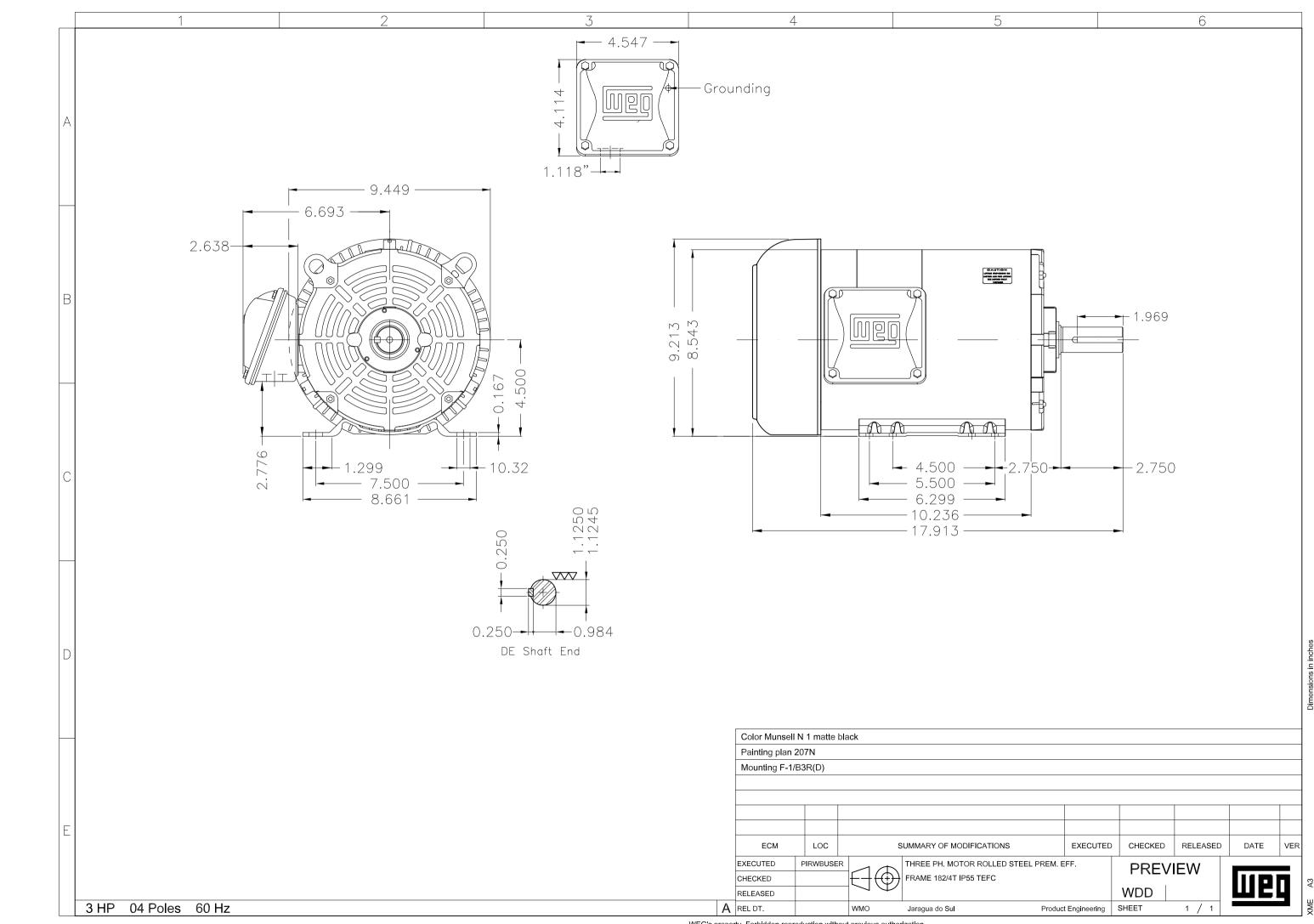
Phase

Catalog #: 00318ET3E182T-S

12675402



Performance : 220/415 V 50 Hz 4P Rated current : 8.30/4.40 A Moment of inertia (J) : 0.4017 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : 10.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by





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**UL)**US LISTED

FOR SAFE AREA

3PT9

Energy Verifi

Tien. N01.TE0IC0X0N 12675402 MADE IN MÉXICO

MODEL 00318ET3E182T-S Hz 60 S/N

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 CT 2:1/VT 1000:1 Div 2 Inverter Duty (SF1.00)

> P55 CODE SH

3.76/4.38

3FA

1000 m.a.s.l

182/4T 2APR2022

CONT

F AT 80K

SCI

7.62/3.81 230/460 1.15

냃

NEMA SPM 쌆

NOM EFF

43A

SABLE @ 208V 8.

SF1.00 INC. W

TEFC <del>0</del>

89.5%

**EFF 88.7%** 

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 4:1 CT 190-220/380-415V

1455RPM

9.08-8.15/4.54-4.32A

ALTERNATE RATING:

ODE 6205-22

8206-ZZ

TE

50 Hz

3.0HP

IEC 60034-1

SF1.15

MOBIL POLYREX EM

T2-WHT T6-GRY T8-RED T4-YEL

r3-org T7-PNK T9-BRK T5-BLK 1-BLU

choc électrique grave. Déconnectez l'alimentation ayant 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. 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