DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12675363

Catalog #: 00318ET3E182TC-S

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

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

: 1000 m.a.s.l. Approx. weight³ Altitude : 94.6 lb

Protection degree : IP55 Moment of inertia (J) : 0.4017 sq.ft.lb

Design		: B			
Output [HP]		3	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]		67.1/33.5	60.8/30.4	62.3/33.0	
LRC [A]		8.8x(Code K)	6.7x(Code H)	7.5x(Code J)	
No load current [A	\]	4.00/2.00	3.95/1.97	3.99/2.11	
Rated speed [RPI	۸]	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 ²		56.0 dB(A)	53.0 dB(A)	53.0 dB(A)	
	25%	86.4	88.2	87.8	
Efficiency (%)	50%	87.5	87.5	87.2	
Linciency (70)	75%	88.5	87.7	87.9	
	100%	89.5	86.7	87.0	
	25%	0.36	0.42	0.39	
Power Factor	50%	0.61	0.68	0.65	
I OWELL ACIOI	75%	0.74	0.79	0.77	
	100%	0.81	0.85	0.83	

Drive end Non drive end Foundation loads

Bearing type 6206 ZZ 6205 ZZ Max. traction : 152 lb Sealing V'Ring Without Max. compression : 247 lb

Bearing Seal

Lubrication interval Lubricant amount Lubricant type

Mobil Polyrex EM

Notes

USABLE @208V 8.43A SF 1.00 SFA 8.43A

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



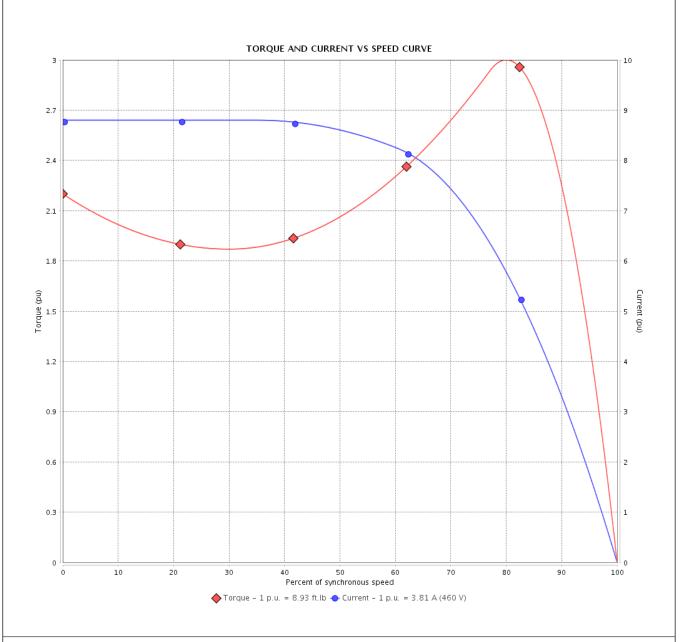
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12675363

Catalog #: 00318ET3E182TC-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) : F : 8.93 ft.lb Insulation class Rated torque Service factor : 1.15 Locked rotor torque : 220 % 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



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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12675363 Catalog #: 00318ET3E182TC-S TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 10.8 ft.lb ◆ Current - 1 p.u. = 4.54 A (380 V) 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) : 10.8 ft.lb Insulation class : F Rated torque Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Locked rotor time : 0s (cold) 0s (hot) Rev. **Changes Summary** Performed Checked Date

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



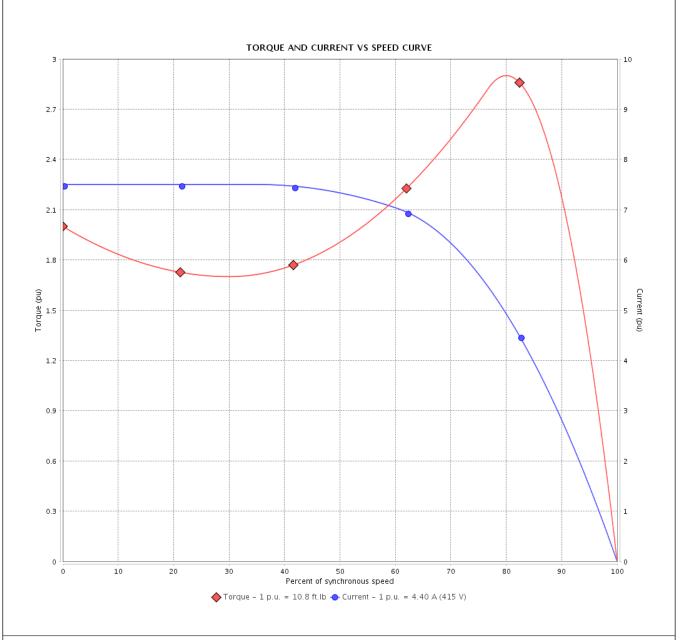
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Performance : 220/415 V 50 Hz 4P Rated current : 8.30/4.40 A Moment of inertia (J) : 0.4017 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : F : 10.8 ft.lb Insulation class Rated torque Service factor : 1.15 Locked rotor torque : 200 % Breakdown torque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

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

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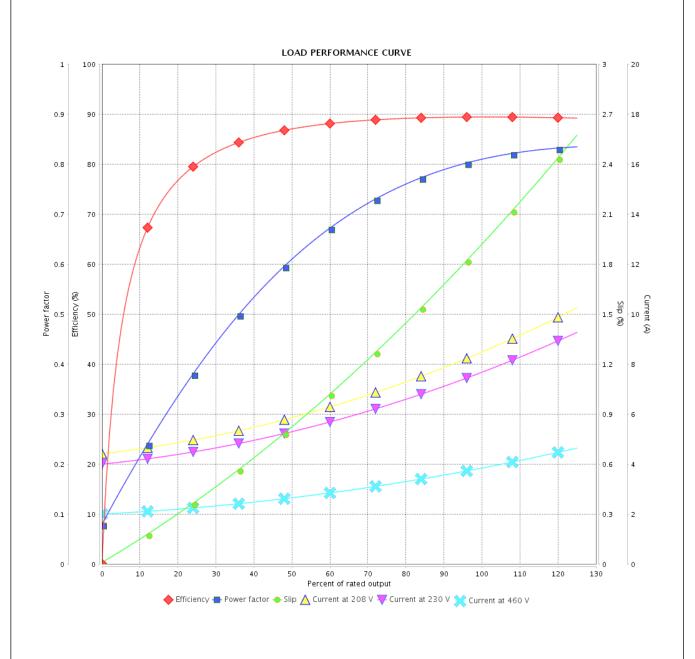


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Product line : NEMA Premium Efficiency Three- Product code : 12675363

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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	:	8.8	Duty cycle	;	: Cont.(S1)	
Rated torque	:	8.93 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	220 %	Service fa	ctor	: 1.15	
Breakdown torque : 300 %		Temperati	Temperature rise : 80 K			
Rated speed	:	1765 rpm	Design		: B	
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Date

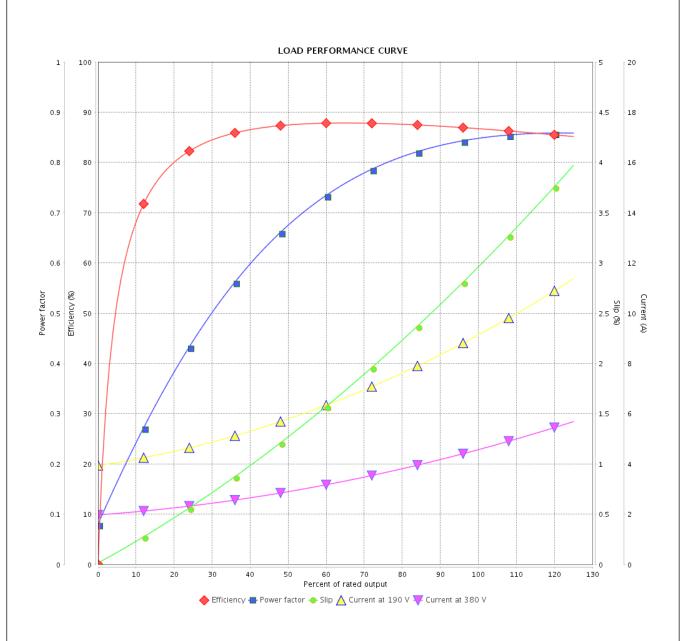
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Performance : 190/380 V 50 Hz 4P Rated current : 9.08/4.54 A Moment of inertia (J) : 0.4017 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 10.8 ft.lb : F Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque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

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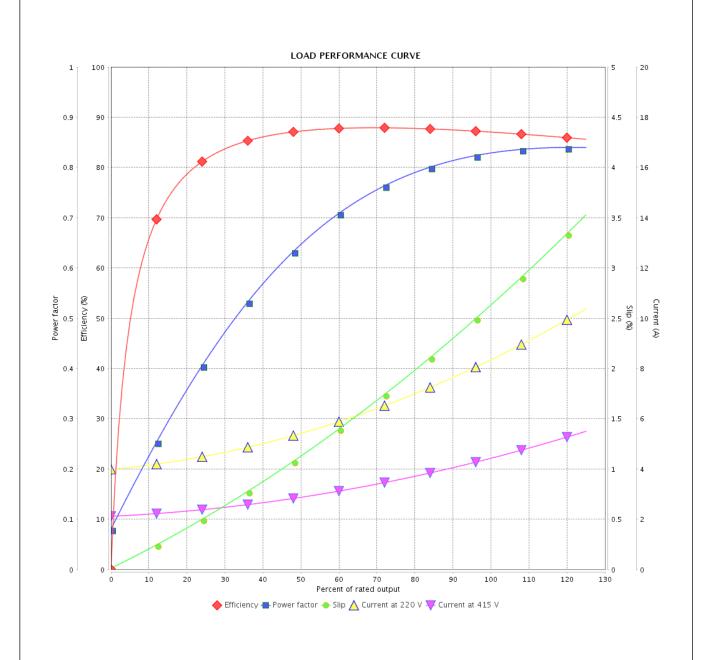


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Product line : NEMA Premium Efficiency Three- Product code : 12675363

Phase

Catalog #: 00318ET3E182TC-S



Performance	: 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 Duty cycle Insulation of Service fac Temperatur Design	class tor	: 0.4017 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
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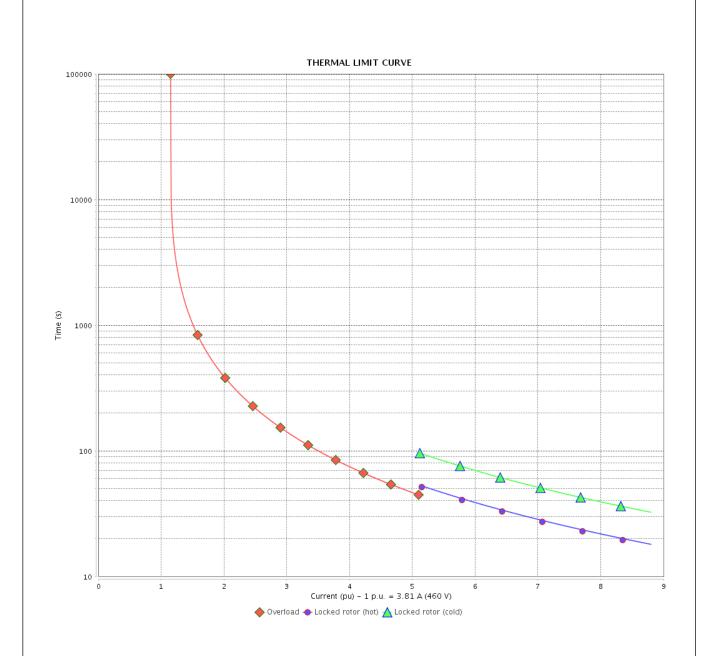


Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code :	12675363 00318ET3E1	82TC-S
Performance		30/460 V 60 Hz 4P		· · · · · · · · · · · · · · · · · · ·	0.4047 61	
Rated current LRC	: 8.		Duty cycle	f inertia (J)	: 0.4017 sq.ft.l : Cont.(S1)	D
Rated torque Locked rotor torque		.93 ft.lb 20 %	Insulation Service fa		: F : 1.15	
Breakdown torque Rated speed	: 30	00 % 765 rpm	Temperatu Design		: 80 K : B	
Heating constant		· P···			· -	
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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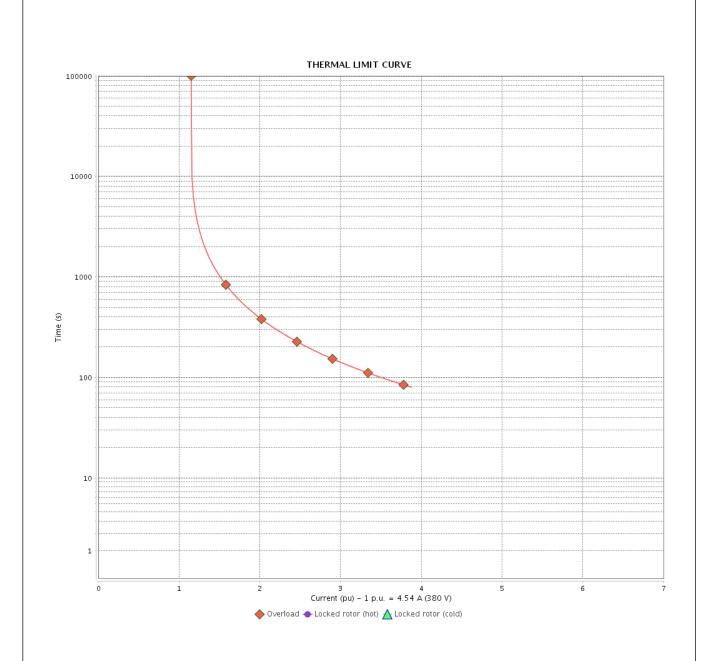


Customer	:				·	
Product line		NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	12675363 00318ET3E1	82TC-S
Performance	:1	190/380 V 50 Hz 4P				
Rated current LRC Rated torque	: S : 6	9.08/4.54 A 6.7 10.8 ft.lb	Moment o Duty cycle Insulation		: 0.4017 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu Rated speed	que : 1 ue : 2	170 % 260 % 1455 rpm	Service fa Temperatu Design	ctor	: 1.15 : 80 K : B	
Heating constan	t					
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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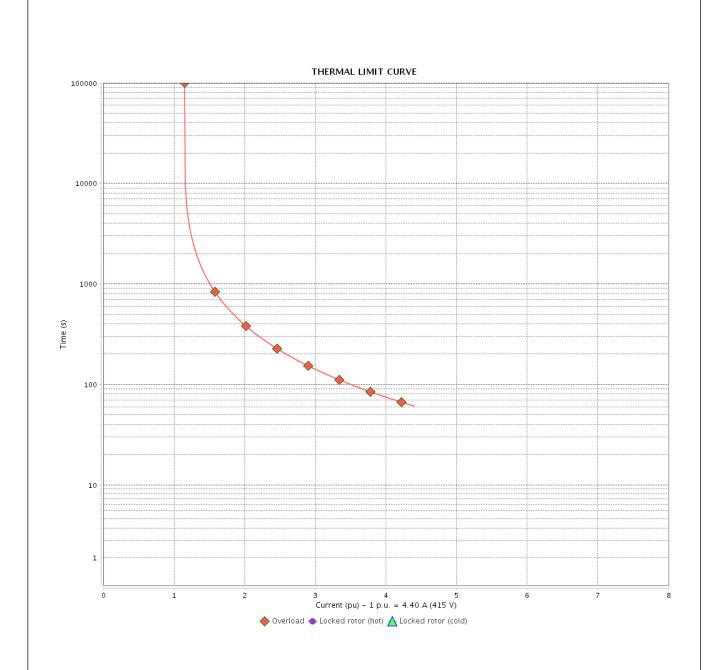


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	12675363	
		Phase		Catalog # :	00318ET3E1	82TC-S
Performance		: 220/415 V 50 Hz 4P		· · · · · · · · · · · · · · · · · · ·	0.4047 6.11	
Rated current LRC		: 8.30/4.40 A : 7.5	Moment of Duty cycl	of inertia (J) e	: 0.4017 sq.ft.ll : Cont.(S1)	0
Rated torque		: 10.8 ft.lb	Insulation	n class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 290 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 1460 rpm	Design	.u. C 1136	: B	
Heating constan	t					
Cooling constant						
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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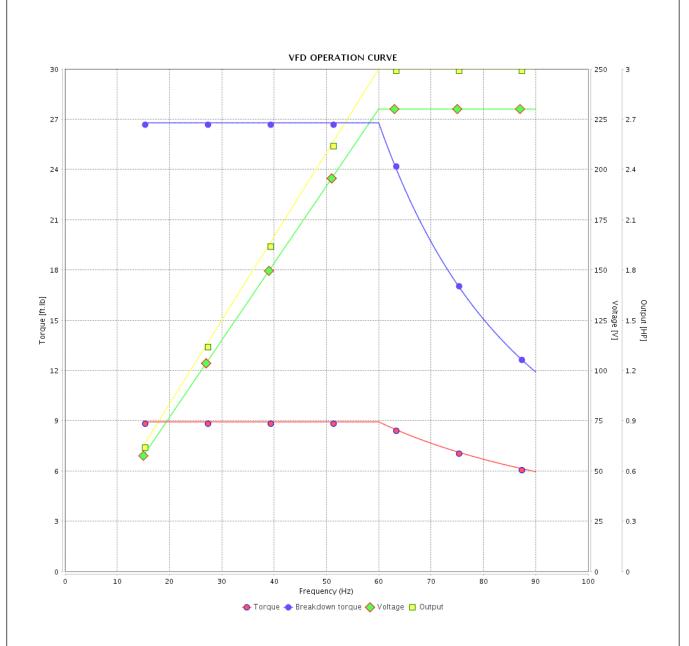
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Performance : 230/460 V 60 Hz 4P : 7.62/3.81 A Rated current Moment of inertia (J) : 0.4017 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.8 Insulation class Rated torque : 8.93 ft.lb : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque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

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VFD OPERATION CURVE

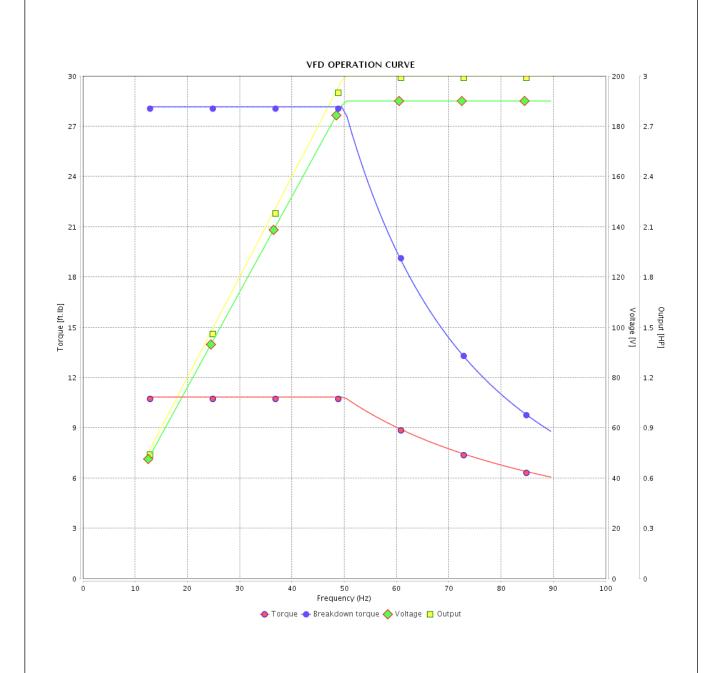
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Performance	: 1	: 190/380 V 50 Hz 4P					
Rated current	: 9	: 9.08/4.54 A		Moment of inertia (J)		: 0.4017 sq.ft.lb	
LRC	: 6	.7	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	: 1	0.8 ft.lb Insulation c		class	ss : F		
Locked rotor tord	que : 1	70 %	Service factor		: 1.15		
Breakdown torqu	ıe : 2	60 % Temperature rise		: 80 K			
Rated speed	: 1	455 rpm Design		: B			
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



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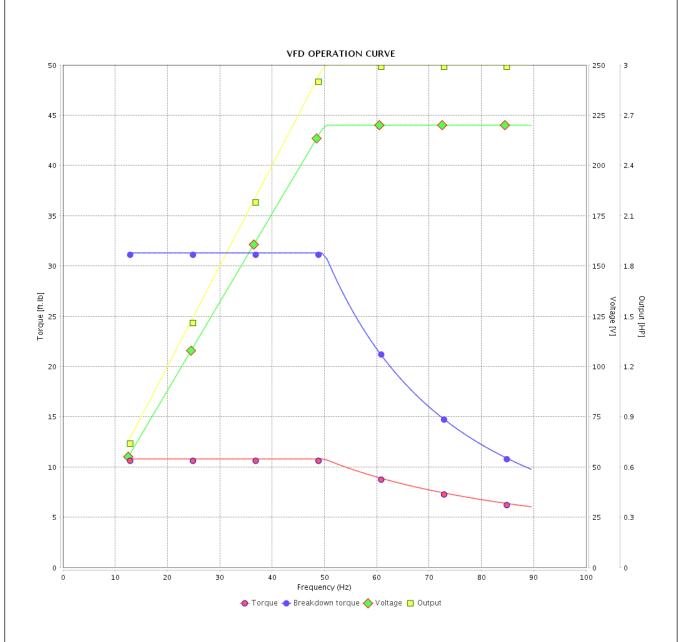
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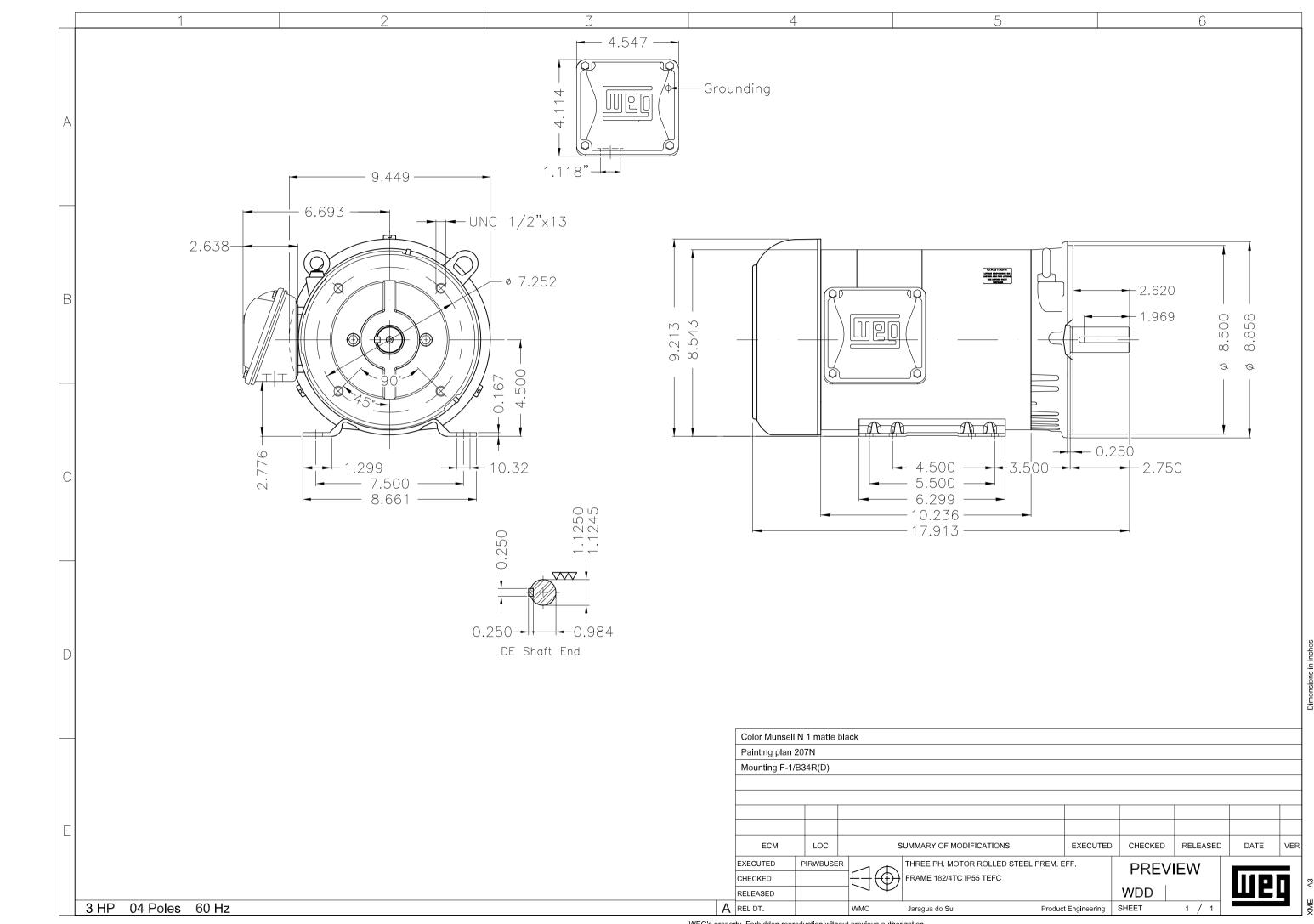
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NEX Prami

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

MODEL 00318ET3E182TC-S

N01.TE0IC0X0N

12675363

MADE IN MÉXICO

Hz 60

182/4TC

CONT

S/N

2APR2022

3.76/4.38

P55

1000 m.a.s.l

F AT 80K

SCI

7.62/3.81 230/460 1.15 89.5%

NOM EFF NEMA 1455RPM

50 Hz

3.0HP

9.08-8.15/4.54-4.32A

ALTERNATE RATING:

ODE 6205-22

8206-ZZ

ZPM 3FA 냃 쌆

> CODE SH

> TEFC 0

43A

SABLE @ 208V 8.

SF1.00 INC. W

IEC 60034-1 For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT. 4:1 CT T2-WHT T6-GRY T8-RED T4-YEL SF1.15 r3-org T7-PNK T9-BRK T5-BLK 1-BLU 190-220/380-415V **EFF 88.7%**

TE

MOBIL POLYREX EM

choc électrique grave. Déconnectez l'alimentation ayant l'entretien de la machine. conformément aux codes électriques locaux et nationaux ann 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