### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12675385

Catalog #: 00212ET3E184TC-S

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

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> : 89.1 lb Altitude

Protection degree		: IP55	Moment of inertia (J)	: 0.3424 sq.ft.lb
Design		: B		
Output [HP]		2	2	2
Poles		6	6	6
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		6.00/3.00	7.00/3.50	6.49/3.44
L. R. Amperes [A]		45.0/22.5	42.7/21.3	43.5/23.0
LRC [A]		7.5x(Code K)	6.1x(Code H)	6.7x(Code J)
No load current [A	.]	3.74/1.87	3.69/1.85	3.77/2.00
Rated speed [RPN	Л]	1170	955	960
Slip [%]		2.50	4.50	4.00
Rated torque [ft.lb]	]	8.98	11.0	10.9
Locked rotor torqu	ıe [%]	260	210	250
Breakdown torque	: [%]	370	280	320
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		79s (cold) 44s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)
Noise level <sup>2</sup>		52.0 dB(A)	50.0 dB(A)	50.0 dB(A)
	25%	82.0	85.5	84.3
Efficionov (9/)	50%	84.0	85.3	84.5
Efficiency (%)	75%	86.5	86.4	86.3
	100%	88.5	85.7	86.1
	25%	0.28	0.33	0.30
Power Factor	50%	0.50	0.57	0.53
I OWEI FACIOI	75%	0.62	0.69	0.66
ĺ	100%	0.71	0.76	0.73

Non drive end Foundation loads Drive end

Bearing type 6206 ZZ 6205 ZZ Max. traction : 179 lb Sealing V'Ring Without Max. compression : 268 lb

Bearing Seal

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 6.63A SF 1.00 SFA 6.63A

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



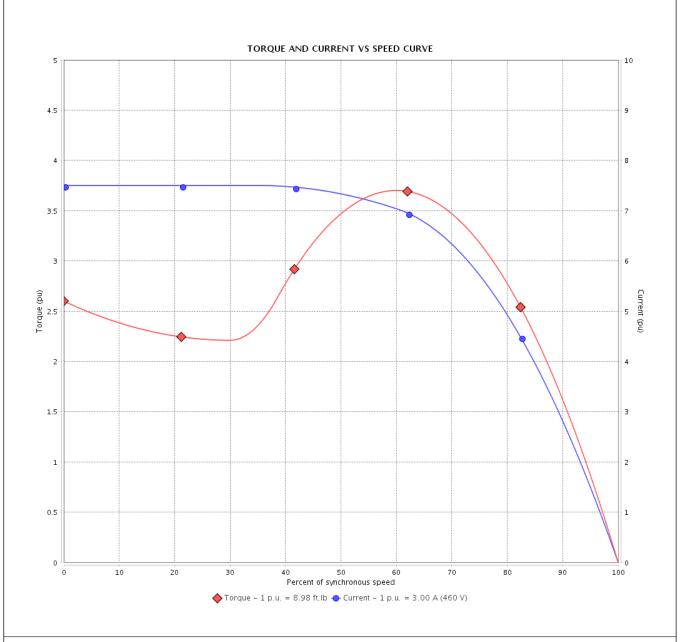
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12675385

Catalog #: 00212ET3E184TC-S



Performance : 230/460 V 60 Hz 6P Rated current : 6.00/3.00 A Moment of inertia (J) : 0.3424 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : F : 8.98 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 260 % : 1.15 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B

Locked rotor time : 79s (cold) 44s (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: 12675385 Catalog #: 00212ET3E184TC-S TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Torque (pu) 1.2 0.6 0.3 40 50 60 Percent of synchronous speed ♦ Torque – 1 p.u. = 11.0 ft.lb ♦ Current – 1 p.u. = 3.50 A (380 V) Performance : 190/380 V 50 Hz 6P Rated current : 7.00/3.50 A Moment of inertia (J) : 0.3424 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1)

Rated torque Locked rotor torq Breakdown torqu Rated speed	ue : 21 e : 28	.0 ft.lb  0 %  30 %  55 rpm	Insulation Service fa Temperatu Design	ctor	: F : 1.15 : 80 K : B	
Locked rotor time	: 0:	s (cold) 0s (hot)				
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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



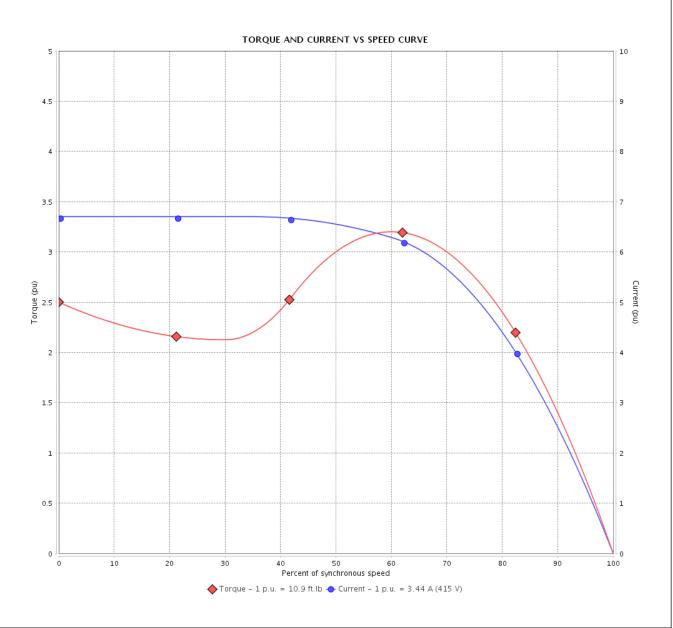
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 12675385

Catalog #: 00212ET3E184TC-S



Performance : 220/415 V 50 Hz 6P Rated current : 6.49/3.44 A Moment of inertia (J) : 0.3424 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 10.9 ft.lb Service factor Locked rotor torque : 250 % : 1.15 Breakdown torque : 320 % 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

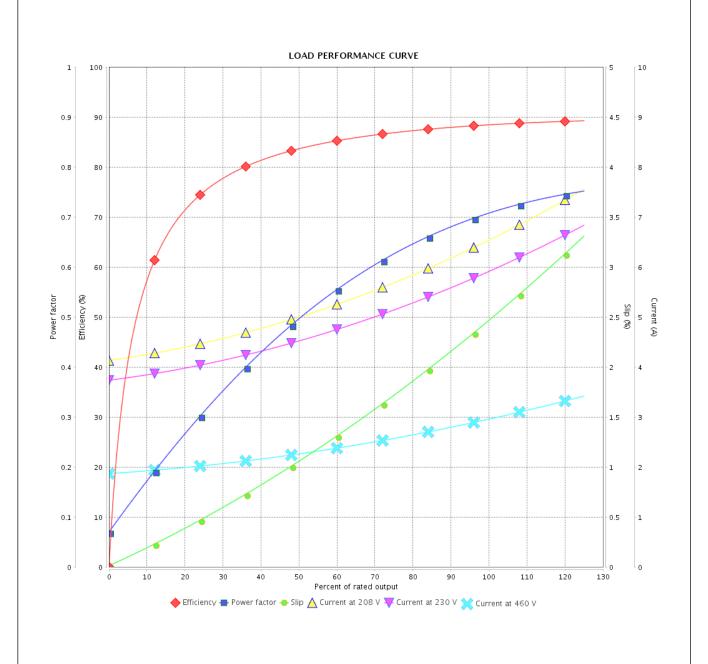


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12675385

Phase

Catalog #: 00212ET3E184TC-S



Performance	: 230/460 V 60 Hz 6P					
Rated current	:	6.00/3.00 A	Moment o	f inertia (J)	: 0.3424 sq.ft.lb	
LRC	:	7.5	Duty cycle	;	: Cont.(S1)	
Rated torque	:	8.98 ft.lb	Insulation	class	: F ` ´	
Locked rotor torque	e :	260 %	Service factor Temperature rise		: 1.15 : 80 K	
Breakdown torque	:	370 %				
Rated speed	:	1170 rpm	Design		: B	
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### LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



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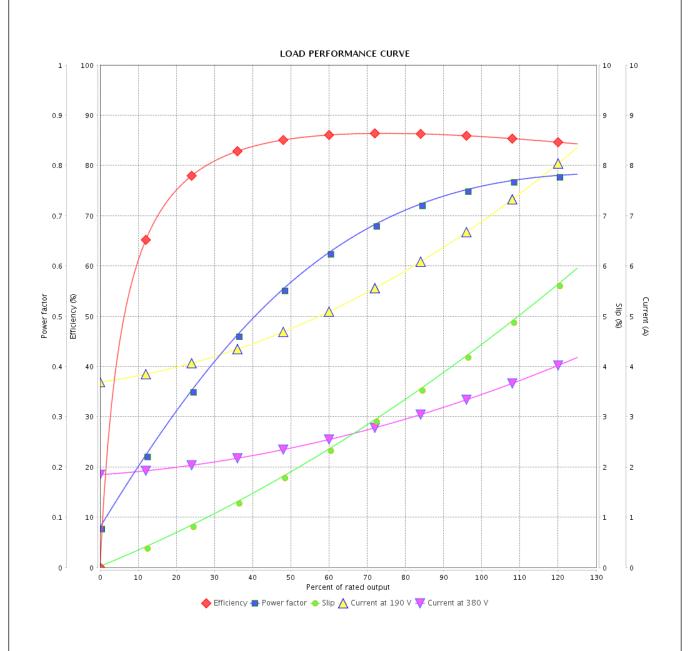
Date

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Product line : NEMA Premium Efficiency Three- Product code : 12675385

Phase

Catalog #: 00212ET3E184TC-S



Performance : 190/380 V 50 Hz 6P : 7.00/3.50 A Rated current Moment of inertia (J) : 0.3424 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 11.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 955 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

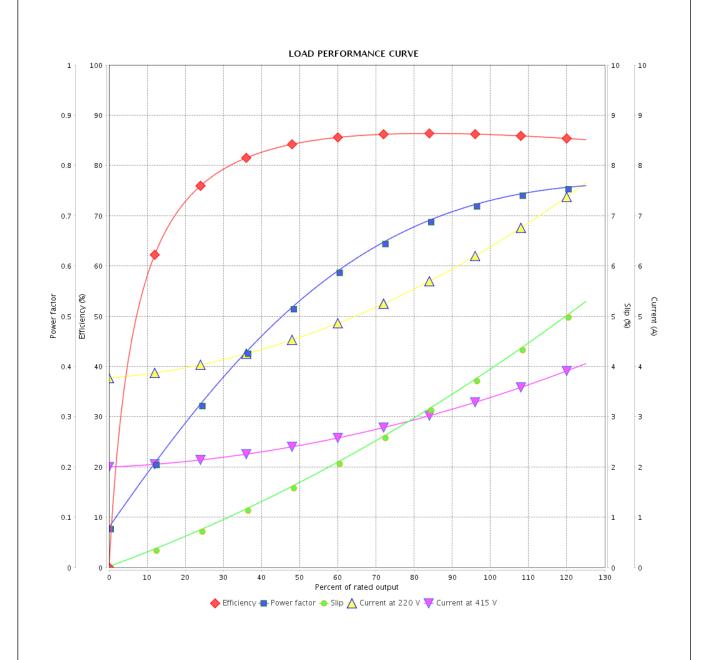


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12675385

Phase

Catalog #: 00212ET3E184TC-S



Performance	: 2	20/415 V 50 Hz 6P				
Rated current : 6.49/3.44 A LRC : 6.7		Duty cycle	Moment of inertia (J) Duty cycle		.lb	
Rated torque Locked rotor torque		0.9 ft.lb 50 %	Insulation Service fa	actor	: F : 1.15	
Breakdown torque Rated speed		20 % Temperature rise 60 rpm Design		: 80 K : B		
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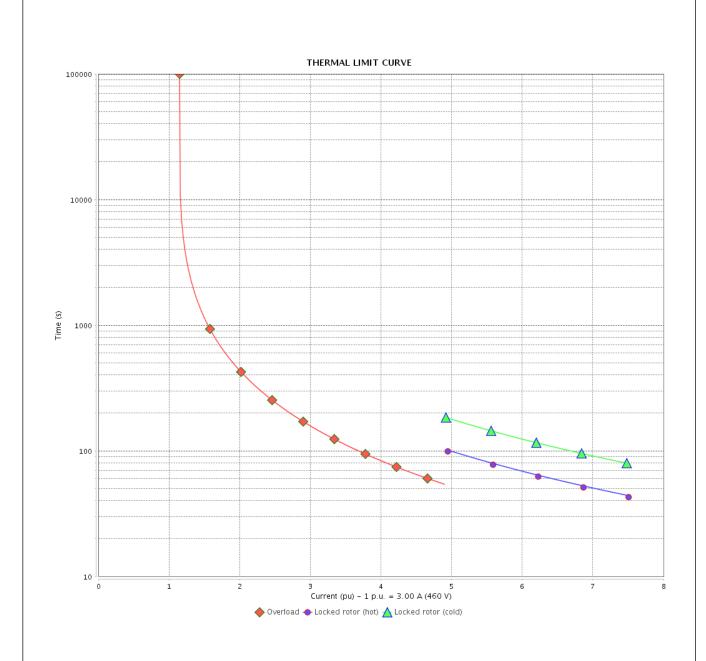


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12675385 00212ET3E1	84TC-S
Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.00/3.00 A : 7.5 : 8.98 ft.lb : 260 % : 370 % : 1170 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.3424 sq.ft.l : Cont.(S1) : F : 1.15 : 80 K : B	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

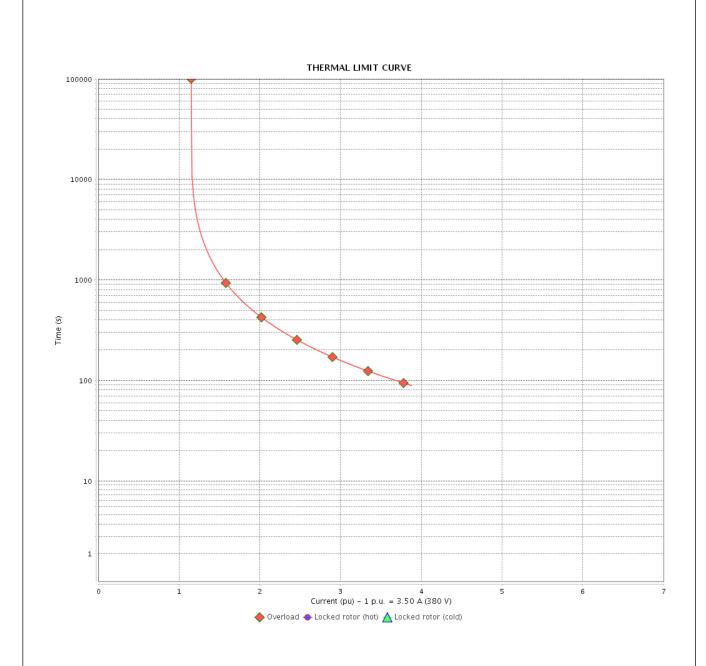


Customer	:				·	
Product line	: F	NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	12675385 00212ET3E1	84TC-S
Performance	: 1	90/380 V 50 Hz 6P				
Rated current LRC Rated torque	: 6	.00/3.50 A .1 1.0 ft.lb	Moment o Duty cycle Insulation		: 0.3424 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu Rated speed	ie : 2	10 % 80 % 55 rpm	Service fa Temperatu Design		: 1.15 : 80 K : B	
Heating constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

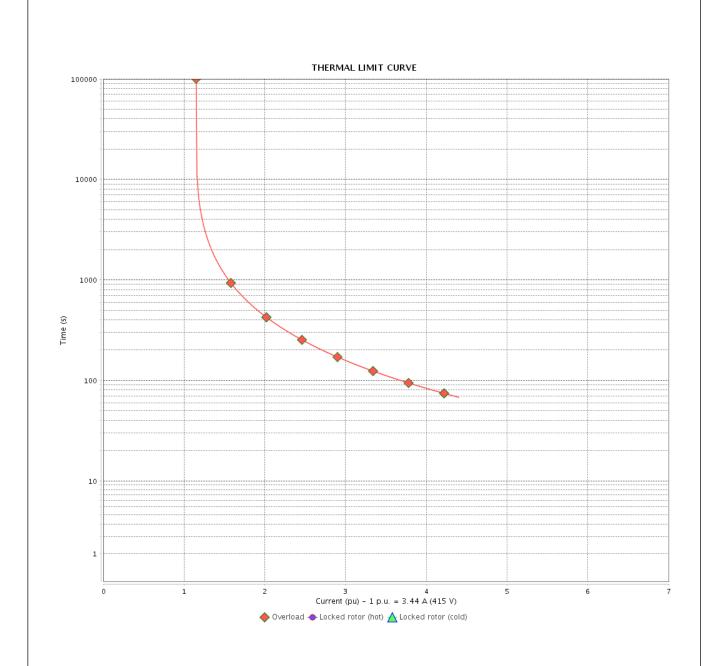


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code :  Catalog # :	12675385 00212ET3E1	84TC-S
Performance	: 220/415 V 50 Hz 6P			
Rated current	: 6.49/3.44 A	Moment of inertia (J)	: 0.3424 sq.ft.ll	 h
LRC	: 6.7	Duty cycle	: Cont.(S1)	-
Rated torque	: 10.9 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 250 % : 320 %	Service factor Temperature rise	: 1.15 : 80 K	
Rated speed	: 960 rpm	Design	: B	
Heating constant Cooling constant				
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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 :

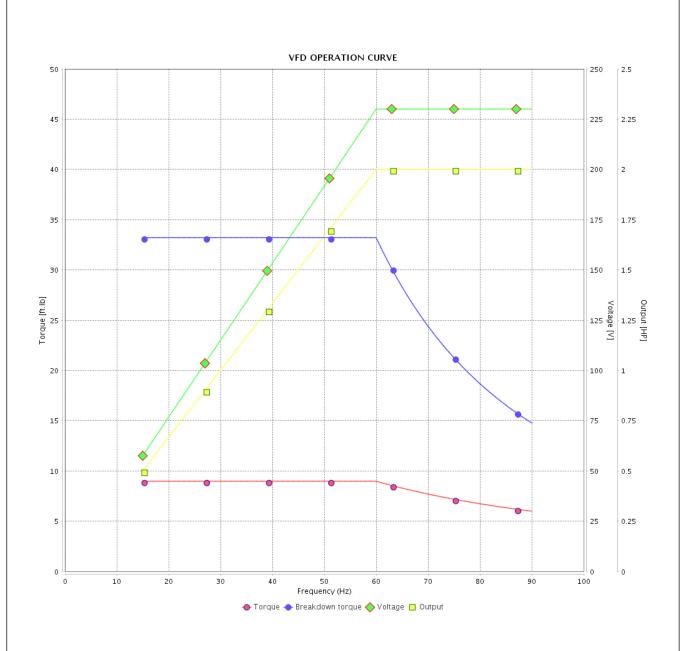
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 00212ET3E184TC-S

12675385

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Danfarmana		220/460 \ / 60     = 6E	7						
Performance		: 230/460 V 60 Hz 6P							
Rated current	: 6	6.00/3.00 A	Moment o	Moment of inertia (J)		: 0.3424 sq.ft.lb			
LRC	: 7	7.5	Duty cycle	Duty cycle		: Cont.(S1)			
Rated torque	: 8	3.98 ft.lb	Insulation class		: F ` ´				
Locked rotor torq	ue : 2	260 %	Service fa	Service factor		: 1.15			
Breakdown torqu		370 %	Temperatu	Temperature rise		: 80 K			
Rated speed	: 1	1170 rpm	Design		: B				
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Date

## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage

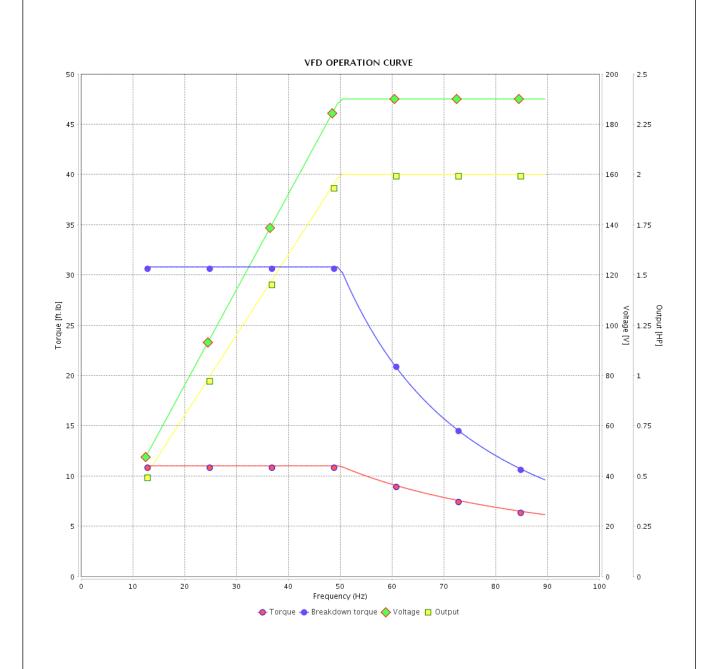


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12675385

Phase

Catalog #: 00212ET3E184TC-S



Performance		: 190/380 V 50 Hz 6P						
Rated current	: 7.	00/3.50 A	Moment of	Moment of inertia (J)		: 0.3424 sq.ft.lb		
LRC	: 6.	.1	Duty cycle	Duty cycle		: Cont.(S1)		
Rated torque	: 1	1.0 ft.lb	Insulation	Insulation class		: F		
Locked rotor torqu	ie : 2°	10 %	Service fa	Service factor		: 1.15		
Breakdown torque	: 28	80 %	Temperati	ure rise	: 80 K			
Rated speed	: 9	: 955 rpm			: B			
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# VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : NEMA Premium Efficiency Three- P

Phase

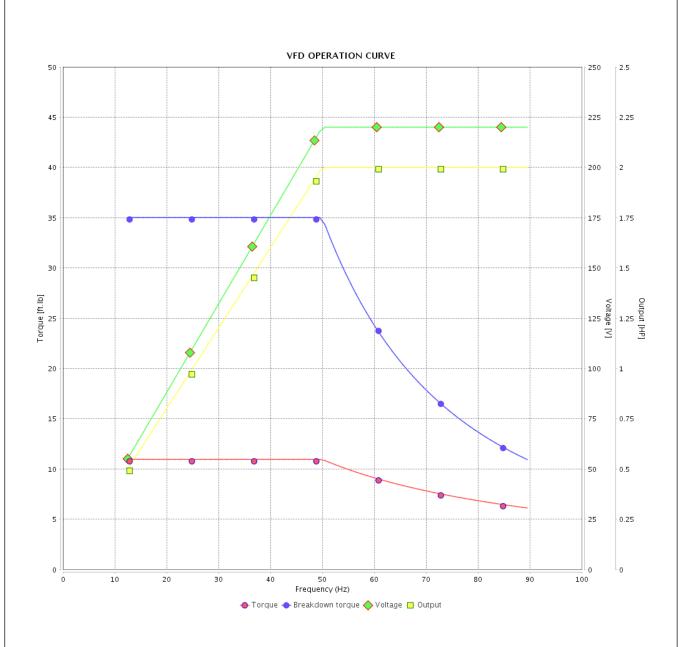
Product code: 12675385

Catalog #: 00212ET3E184TC-S

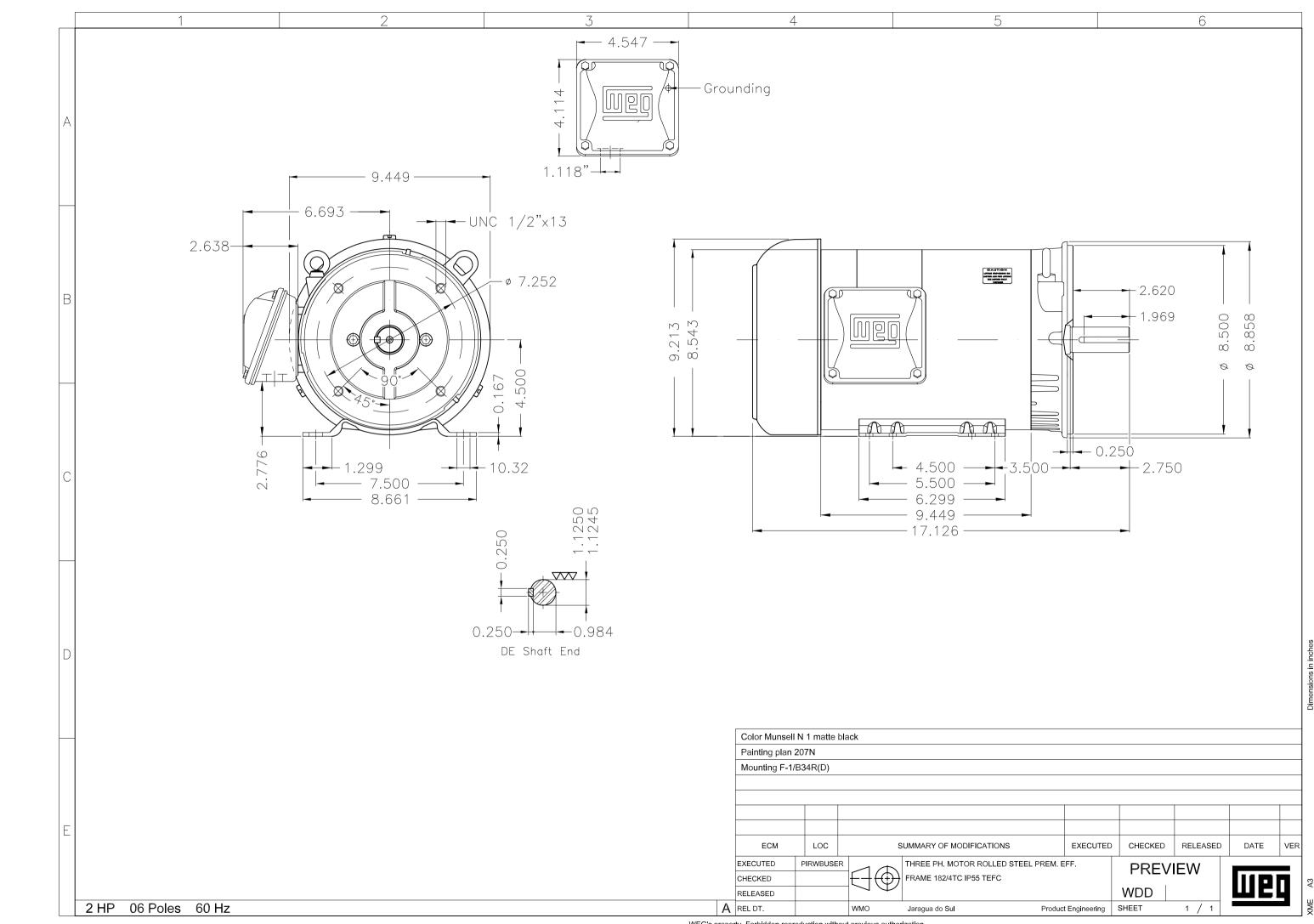
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Performance		: 220/415 V 50 H	Iz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 6.49/3.44 A : 6.7 : 10.9 ft.lb : 250 % : 320 % : 960 rpm	Ir S Tr	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3424 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Premiur NEX

3PT9

MODEL 00212ET3E184TC-S

N01.TE0IC0X0N

12675385

MADE IN MÉXICO

For 60Hz: Class I, Zone 2, IIC Class I, DIv.2, Gr. A,B,C,D - T3 Div 2 Inverter Duty (SF1.00) CT 2:1/VT 1000:1 **&** Energy Verifi (**UL)**US LISTED FOR SAFE AREA

5.00/3.00 5.90/3.45

> 3FA 냃

> > P55

1000 m.a.s.l

F AT 80K

SCI

SH

230/460 1.15

Hz 60

182/4TC

CONT

S/N

01APR2022

For safe area-inverter duty motor For 60Hz use on VPWM 1000:1 VT, 4:1 CT NOM EFF NEMA 955RPM SPM 쌆 50 Hz ODE 6205-22 2.0HP TE CODE 7.00-6.43/3.50-3.41A

IEC 60034-1

SF1.15

190-220/380-415V

88.5%

SABLE @ 208V 6.63A ALTERNATE RATING:

SF1.00 INC. W

TEFC <del>0</del>

**EFF 85.7%** 

8206-ZZ

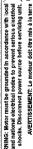
MOBIL POLYREX EM

T2-WHT

T4-YEL

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





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

T6-GRY T8-RED