### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



2

6

50

415

Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11441933

Phase

6

60

230/460

Catalog #: 00212ET3E184T-W22

6

50

400

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)

6

50

380

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 97.7 lb
Protection degree : IP55 Moment of inertia (J) : 0.6210 sq.ft.ll

Protection degree : IP55 Moment of inertia (J) : 0.6210 sq.ft.lb
Design : B

Output [HP] 2 2 2 2

rtated voitage [v]		200/400	000	700	710
Rated current [A]		6.44/3.22	3.66	3.61	3.58
L. R. Amperes [A]		48.3/24.2	22.0	24.2	25.4
LRC [A]		7.5x(Code L)	6.0x(Code J)	6.7x(Code K)	7.1x(Code L)
No load current [A]	]	3.80/1.90	1.90	2.05	2.15
Rated speed [RPM	1]	1170	960	965	965
Slip [%]		2.50	4.00	3.50	3.50
Rated torque [ft.lb]		8.98	10.9	10.9	10.9
Locked rotor torqu	e [%]	300	229	280	310
Breakdown torque	[%]	350	260	310	340
Service factor	Service factor		1.00	1.00	1.00
Temperature rise	Temperature rise		80 K	80 K	80 K
Locked rotor time		55s (cold) 31s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level <sup>2</sup>		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%				
Efficiency (%)	50%	86.5	85.5	85.5	85.0
Liliciency (70)	75%	87.5	86.0	86.5	86.5
	100%	88.5	86.5	87.0	87.0
	25%				
Power Factor	50%	0.46	0.53	0.49	0.46
1 OWELL ACIO	75%	0.58	0.65	0.62	0.59
	100%	0.66	0.72	0.69	0.67

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

Bearing type : 6207 ZZ 6206 ZZ Max. traction : 187 lb Sealing : V'Ring V'Ring Max. compression : 285 lb

Sealing : V'Ring V'Ring Max. compression : 285
Lubrication interval : - Lubricant amount : - -

Mobil Polyrex EM

Notes

Lubricant type

Poles

Frequency [Hz]

Rated voltage [V]

USABLE @208V 7.13A SF 1.15 SFA 8.20A

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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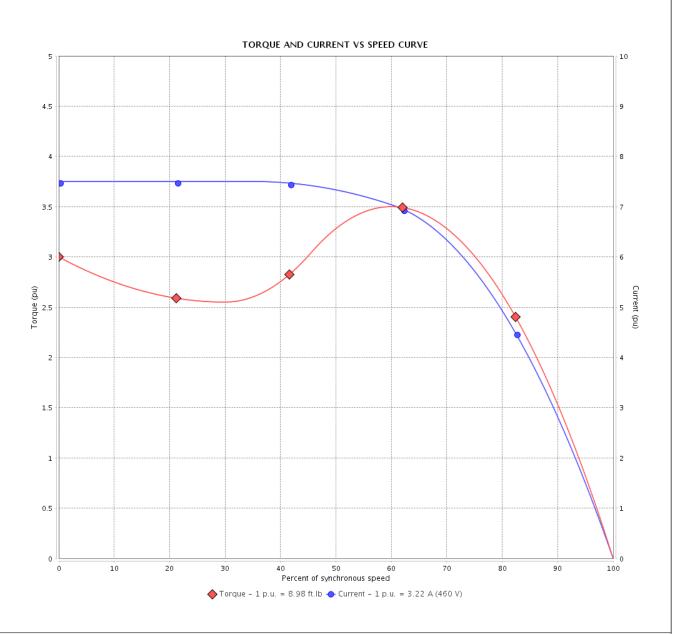
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11441933

Catalog #: 00212ET3E184T-W22



Performance : 230/460 V 60 Hz 6P Rated current : 6.44/3.22 A Moment of inertia (J) : 0.6210 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : F : 8.98 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 300 % : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B

Locked rotor time : 55s (cold) 31s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11441933 Catalog #: 00212ET3E184T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 10.9 ft.lb ◆ Current - 1 p.u. = 3.66 A (380 V) Performance : 380 V 50 Hz 6P IE4 Rated current : 3.66 A Moment of inertia (J) : 0.6210 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 10.9 ft.lb Insulation class : F Rated torque : 229 % Locked rotor torque Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 960 rpm Design : B Locked rotor time : 36s (cold) 20s (hot) Date Rev. Performed Checked **Changes Summary** 

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#### Three Phase Induction Motor - Squirrel Cage



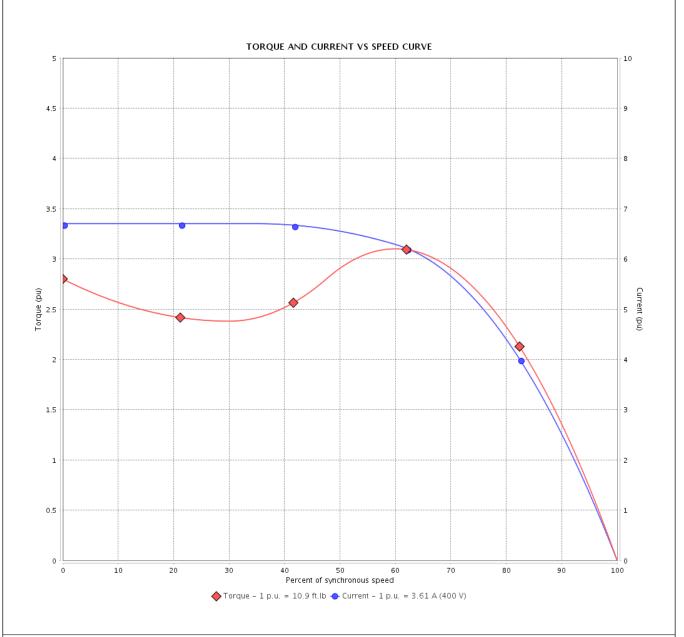
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11441933

Catalog #: 00212ET3E184T-W22



Performance : 400 V 50 Hz 6P IE4 Rated current : 3.61 A Moment of inertia (J) : 0.6210 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : F : 10.9 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 280 % : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 965 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11441933 Catalog #: 00212ET3E184T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 10.9 ft.lb ◆ Current - 1 p.u. = 3.58 A (415 V) Performance : 415 V 50 Hz 6P IE4 Rated current : 3.58 A Moment of inertia (J) : 0.6210 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 10.9 ft.lb Locked rotor torque : 310 % Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 965 rpm Design : B Locked rotor time : 36s (cold) 20s (hot) Rev. Performed Checked Date **Changes Summary** 

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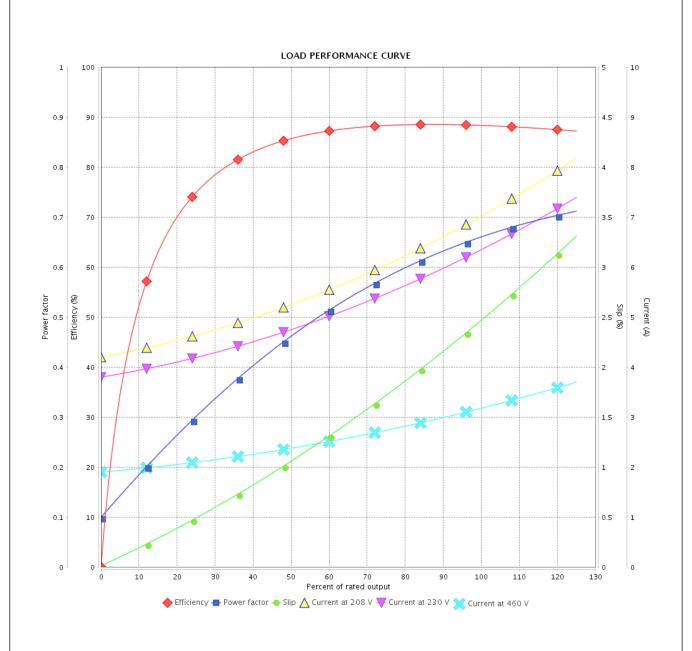
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Product line : NEMA Premium Efficiency Three- Product code : 11441933

Phase

Catalog #: 00212ET3E184T-W22



Performance : 230/460 V 60 Hz 6P Rated current : 6.44/3.22 A Moment of inertia (J) : 0.6210 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.5 : 8.98 ft.lb Insulation class Rated torque : F Locked rotor torque : 300 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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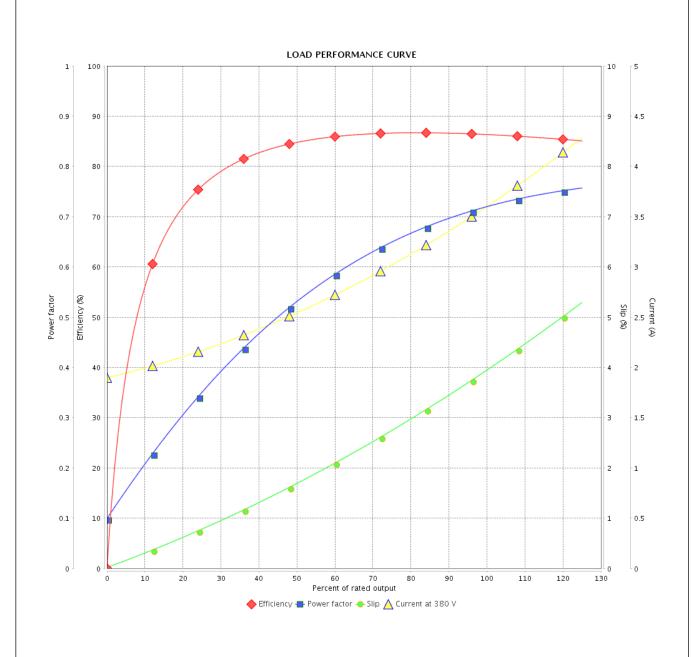


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11441933

Phase

Catalog #: 00212ET3E184T-W22



Performance	: 380 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.66 A : 6.0 : 10.9 ft.lb : 229 % : 260 % : 960 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.6210 sq.ft.l : Cont.(S1) : F : 1.00 : 80 K : B	b
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Phase

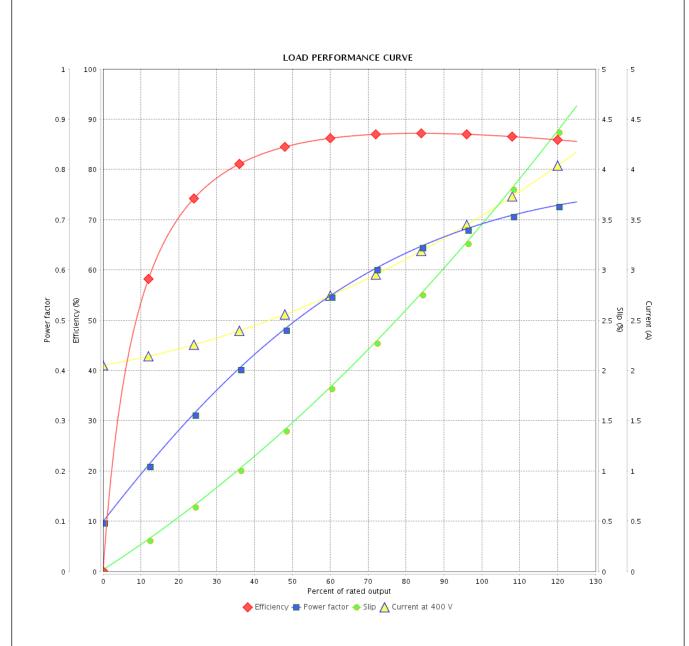
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Performance	: 400 V 50 Hz 6P IE4					
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 3.61 A : 6.7 : 10.9 ft.lb : 280 % : 310 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K		lb
Rated speed	: 965 rpm	Design		: B		
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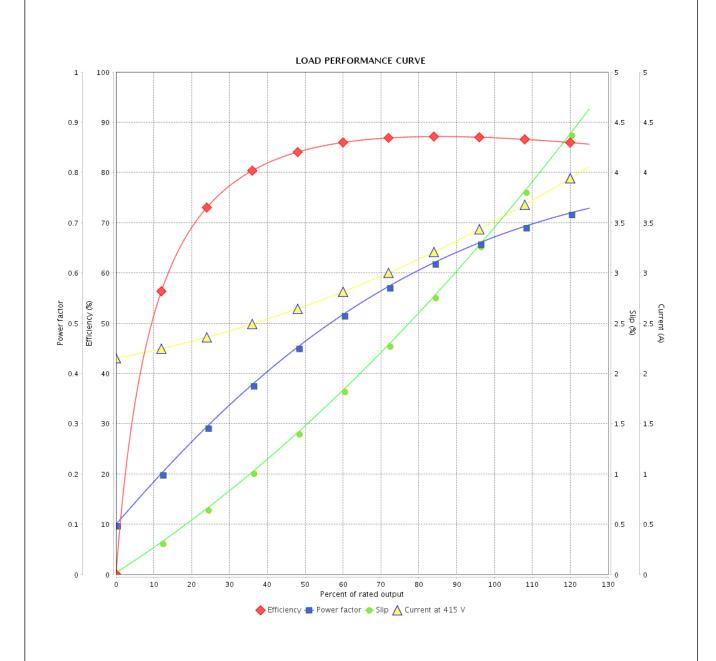


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11441933

Phase

Catalog #: 00212ET3E184T-W22



Performance : 415 V 50 Hz 6P IE4						
Rated current	: 3	.58 A	Moment o	f inertia (J)	: 0.6210 sq.ft.lb	
LRC	: 7	.1	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:1	0.9 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 3	10 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	40 %	Temperati	Temperature rise		
Rated speed	: 9	65 rpm	Design		: B	
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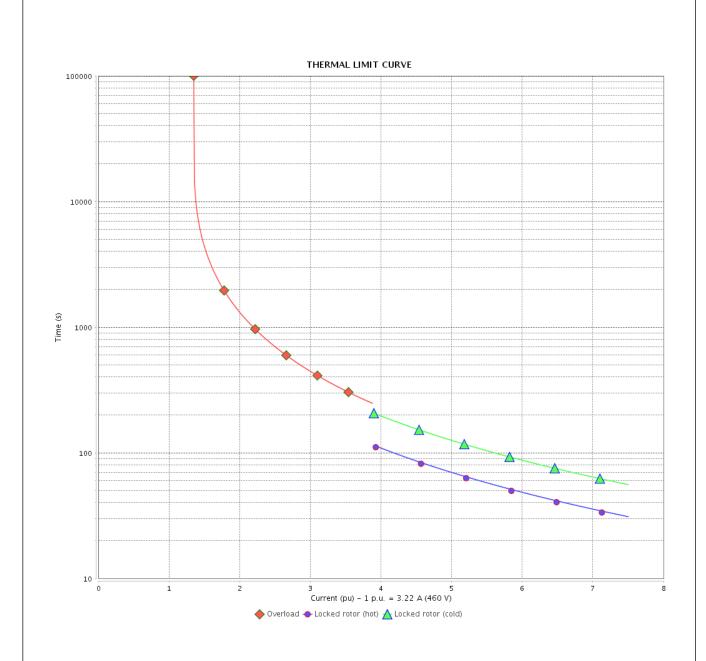


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Customer	:					
Product line	:	NEMA Premium Efficiency	Three-	Product code :	11441933	
	F	11a3C		Catalog # :	00212ET3E	184T-W22
Performance		230/460 V 60 Hz 6P				
Rated current LRC		3.44/3.22 A 7.5	Moment of Duty cycle	of inertia (J)	: 0.6210 sq.ft. : Cont.(S1)	lb
Rated torque	: 8	3.98 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		300 % 350 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		1170 rpm	Design	ui C 119C	: 80 K	
Heating constan			-			
Cooling constan						
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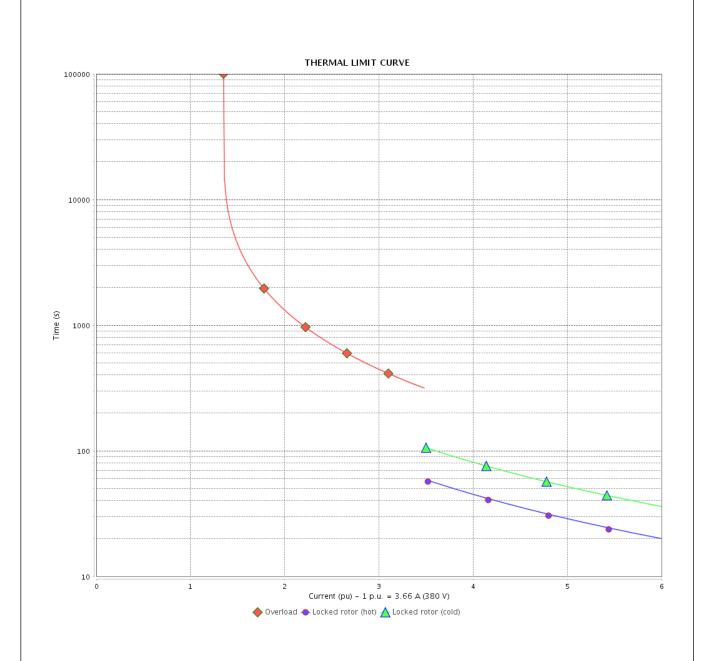


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11441933 00212ET3E1	184T-W22
Performance	: 380 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.66 A : 6.0 : 10.9 ft.lb	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.6210 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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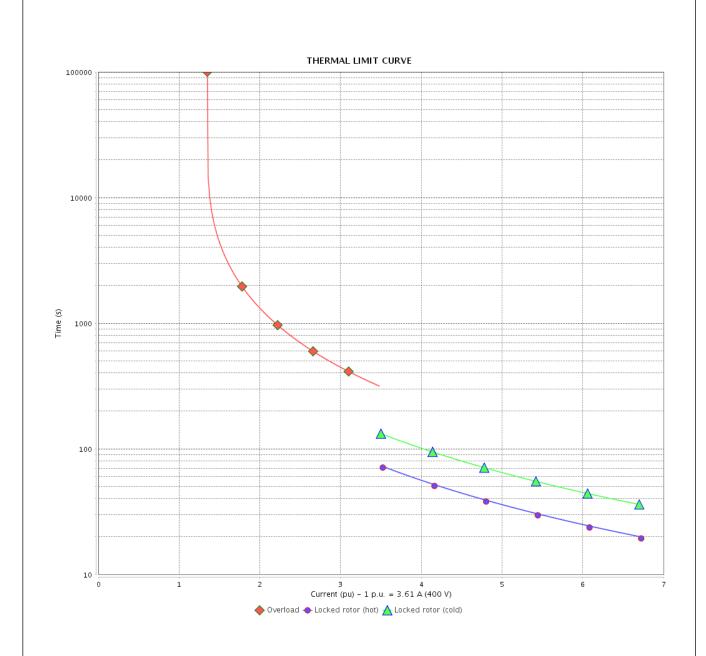


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Product line		: NEMA Premium Efficiency Phase		Product code :	11441933	0.47 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
				Catalog # :	00212ET3E1	84 I -VV22
D. (		400 \ / 50 \ \ . 00 \   54				
Performance Rated current		400 V 50 Hz 6P IE4 3.61 A	Moment o	of inertia (J)	: 0.6210 sq.ft.l	h
LRC	:	6.7	Duty cycle	9	: Cont.(S1)	~
Rated torque Locked rotor torc		10.9 ft.lb 280 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie :	310 %	Temperati		: 80 K : B	
Rated speed		965 rpm	Design		. D	
Heating constant Cooling constant						
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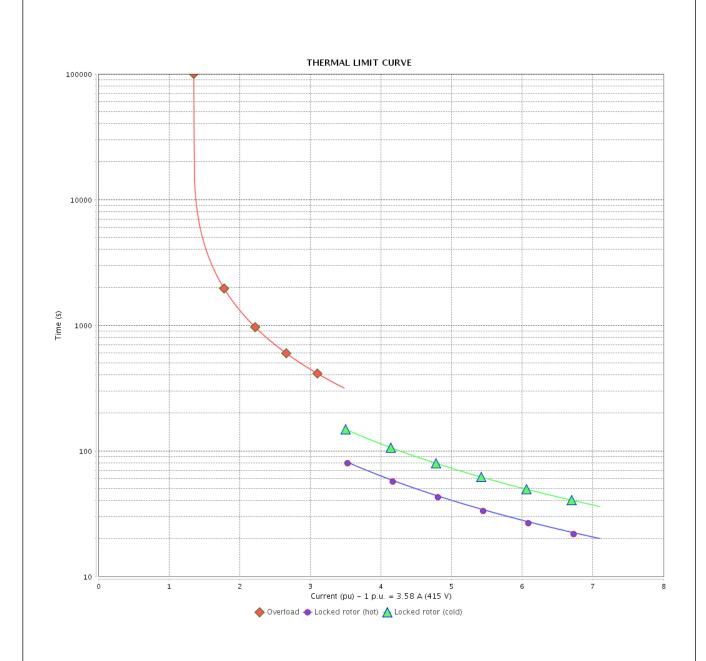


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	11441933	
	Phase		Catalog # :	00212ET3E1	94T W/22
			Catalog # .	00212E13E1	041-4422
Performance	: 415 V 50 Hz 6P IE4				
Rated current LRC	: 3.58 A : 7.1	Moment o	of inertia (J)	: 0.6210 sq.ft.l : Cont.(S1)	b
Rated torque	: 10.9 ft.lb	Insulation	class	: F	
Locked rotor torque	: 310 %	Service fa		: 1.00	
Breakdown torque Rated speed	: 340 % : 965 rpm	Temperatu Design	ure rise	: 80 K : B	
Heating constant		1			
Cooling constant					
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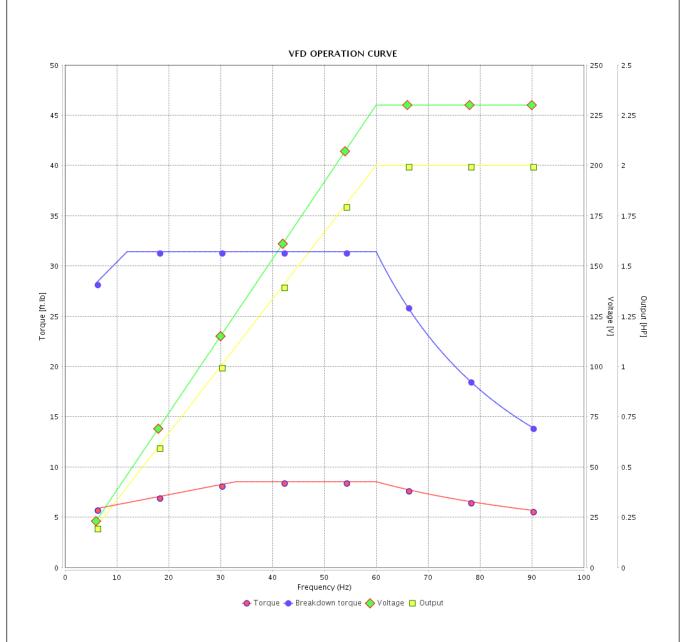
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Product line : NEMA Premium Efficiency Three- Produc

Phase

Product code: 11441933

Catalog #: 00212ET3E184T-W22



Performance : 230/460 V 60 Hz 6P Rated current : 6.44/3.22 A Moment of inertia (J) : 0.6210 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : 8.98 ft.lb Insulation class Rated torque : F Locked rotor torque : 300 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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#### Three Phase Induction Motor - Squirrel Cage



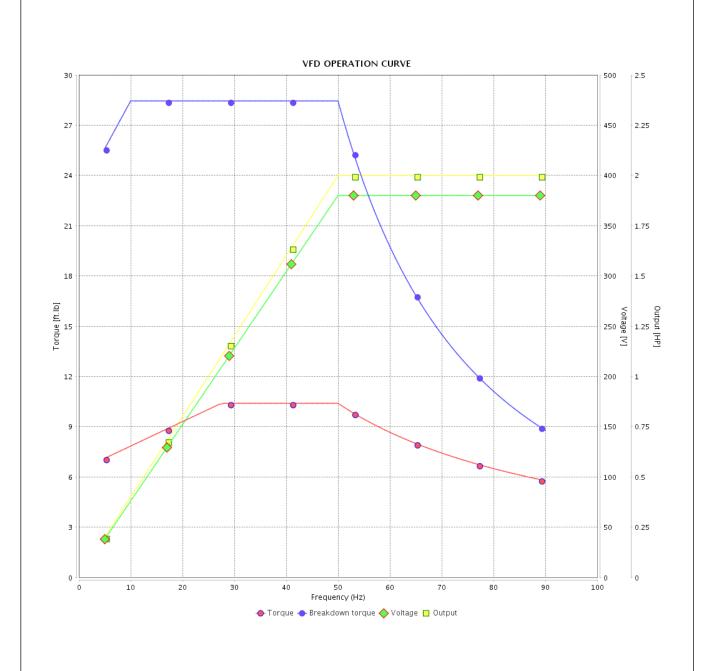
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00212ET3E184T-W22

11441933



Performance		80 V 50 Hz 6P IE4					
Rated current		.66 A	Moment o	Moment of inertia (J)		lb	
LRC : 6.		.0	Duty cycle	Duty cycle			
Rated torque :		0.9 ft.lb	Insulation	Insulation class			
Locked rotor torqu	ue : 22	29 %	Service fa	Service factor			
Breakdown torque		60 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 90	60 rpm	Design	Design			
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Product line : NEMA Premium Efficiency Three-

Phase

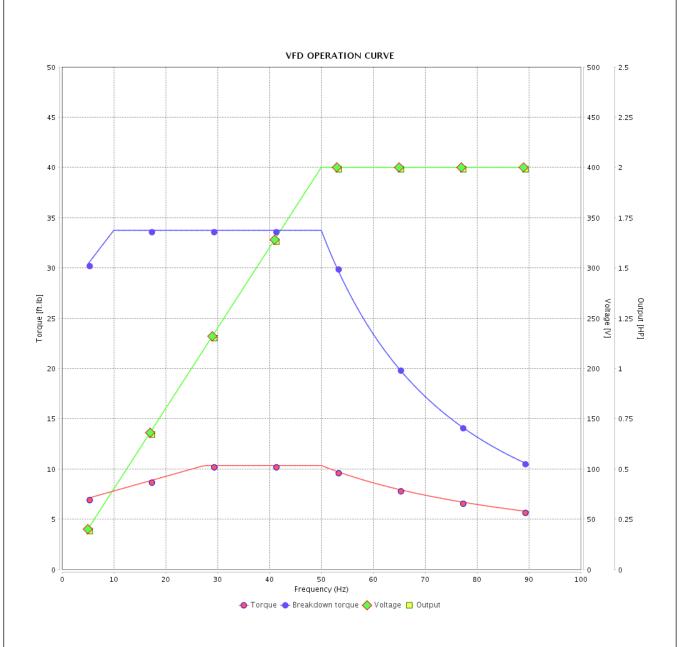
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Performance	: 4	100 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 jue : 2 ie : 3	8.61 A 6.7 10.9 ft.lb 280 % 810 % 965 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.6210 sq.ft.ll : Cont.(S1) : F : 1.00 : 80 K : B	0
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#### Three Phase Induction Motor - Squirrel Cage



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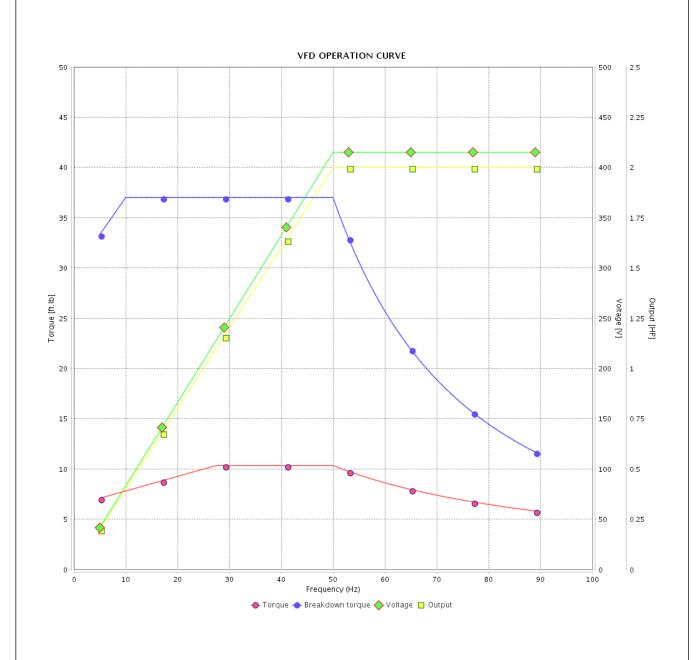
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00212ET3E184T-W22

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		·		·	
Performance	: 415 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.58 A : 7.1 : 10.9 ft.lb : 310 % : 340 % : 965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6210 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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