#### DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11432186

Catalog #: 30018ST3QIE449T-W22

Frame : 447/9T 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> : 2970 lb Altitude Moment of inertia (J) : 89.6 sq.ft.lb

Protection degree : IP55

Design : B Output [HP] 300 250 250 250 Poles 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 380 400 415 460

Rated current [A] 337 330 320 311 L. R. Amperes [A] 2056 2144 2239 2145 6.5x(Code G) 6.1x(Code F) 6.7x(Code G) 7.2x(Code H) LRC [A] No load current [A] 95.0 94.0 101 106 Rated speed [RPM] 1780 1480 1480 1485 Slip [%] 1.11 1.33 1.33 1.00 Rated torque [ft.lb] 885 887 887 884 Locked rotor torque [%] 229 210 240 260 Breakdown torque [%] 229 220 250 270 Service factor 1.15 1.00 1.00 1.00 Temperature rise 80 K 105 K 105 K 105 K Locked rotor time 28s (cold) 16s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) Noise level<sup>2</sup> 75.0 dB(A) 71.0 dB(A) 71.0 dB(A) 71.0 dB(A) 25% 95.7 95.5 95.8 94.9 50% 95.8 95.8 95.8 95.4 Efficiency (%) 75% 96.2 95.8 96.2 95.8 96.2 96.2 100% 96.0 96.0

0.54

0.78

0.84

0.87 0.87 Drive end Non drive end Foundation loads

Bearing type 6322 C3 6319 C3 Max. traction : 4878 lb Sealing Inpro/Seal Inpro/Seal Max. compression : 7848 lb

0.53

0.77

0.84

Lubrication interval 6000 h 8000 h Lubricant amount 60 g 45 g Lubricant type

25%

50%

75%

100%

Mobil Polyrex EM

Notes

Power Factor

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.

0.50

0.75

0.83

0.87

0.48

0.73

0.82

0.86

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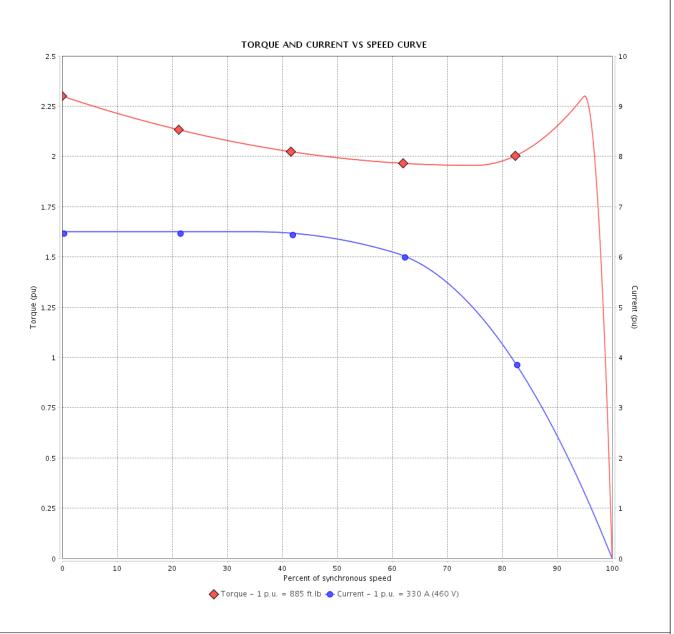
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11432186

Catalog # : 30018ST3QIE449T-W22



Performance : 460 V 60 Hz 4P Rated current : 330 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 885 ft.lb : F Service factor Locked rotor torque : 229 % : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11432186 Catalog #: 30018ST3QIE449T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 887 ft.lb ◆ Current - 1 p.u. = 337 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 337 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 887 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 : 105 K Breakdown torque : 220 % Temperature rise Rated speed : 1480 rpm Design : B Locked rotor time : 18s (cold) 10s (hot) Date Rev. Performed Checked **Changes Summary** 

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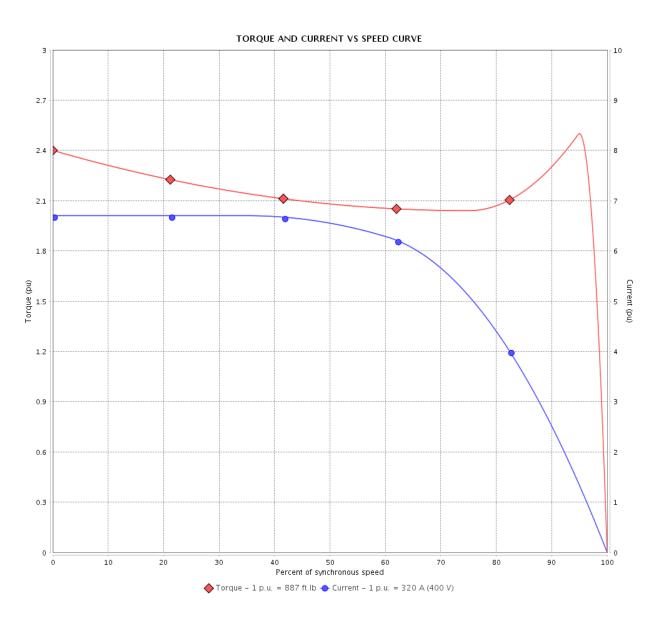
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11432186

Catalog # : 30018ST3QIE449T-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 320 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 887 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 240 % : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 1480 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11432186 Catalog #: 30018ST3QIE449T-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. = 884 ft.lb ◆ Current - 1 p.u. = 311 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 311 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 884 ft.lb : F : 260 % Locked rotor torque Service factor : 1.00 : 105 K Breakdown torque : 270 % Temperature rise Rated speed : 1485 rpm Design : B Locked rotor time : 18s (cold) 10s (hot) Date Performed Checked Rev. **Changes Summary** 

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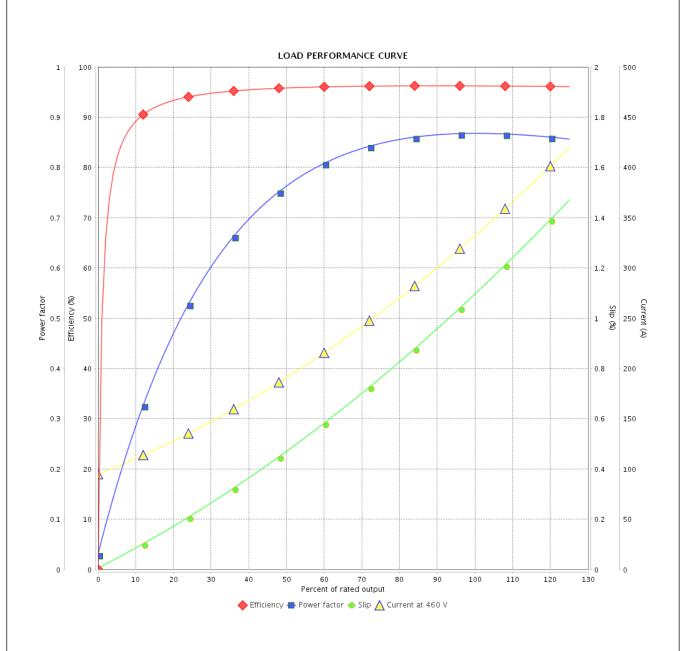
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Phase

Product code: 11432186

Catalog #: 30018ST3QIE449T-W22

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Performance	: 460 V 60 Hz 4P				
Rated current       : 330 A         LRC       : 6.5         Rated torque       : 885 ft.lb         Locked rotor torque       : 229 %         Breakdown torque       : 229 %         Rated speed       : 1780 rpm		Duty cycle Insulation of Service fac	Insulation class Service factor Temperature rise		
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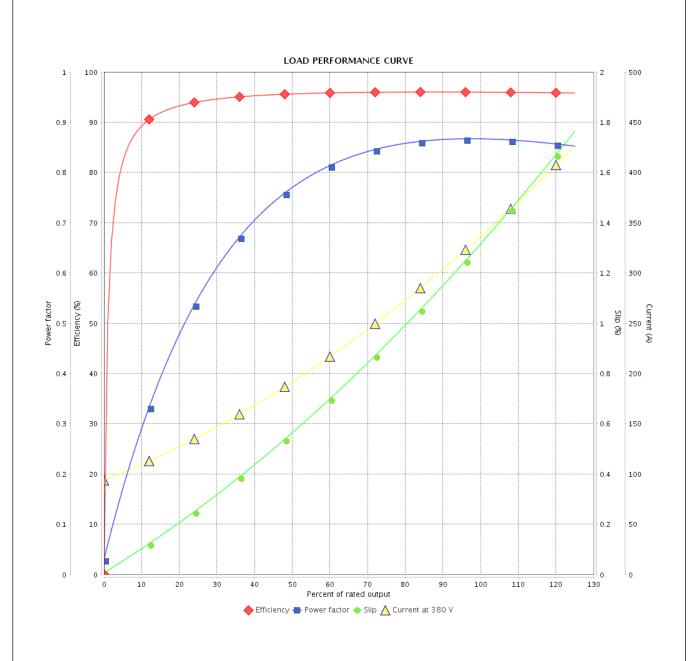
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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 337 A : 6.1 : 887 ft.lb : 210 % : 220 % : 1480 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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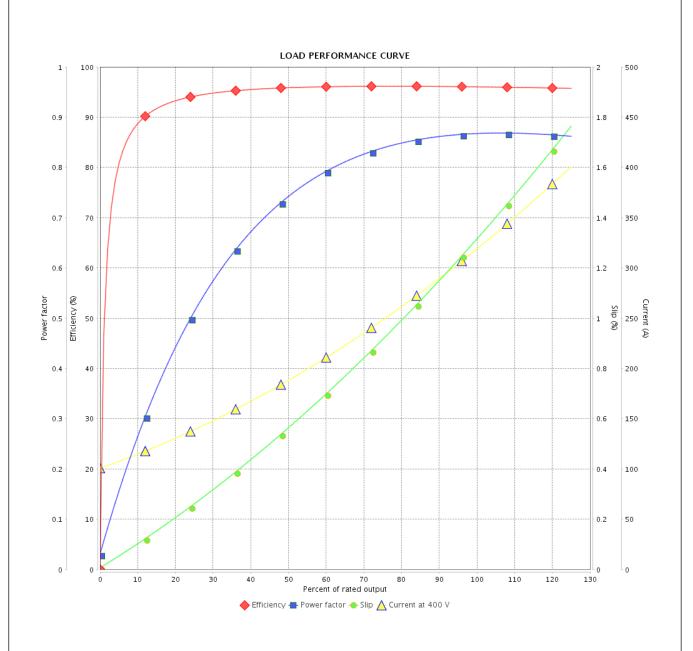
Product line : NEMA Premium Efficiency Three- Product

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Product code: 11432186

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Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 320 A : 6.7 : 887 ft.lb : 240 % : 250 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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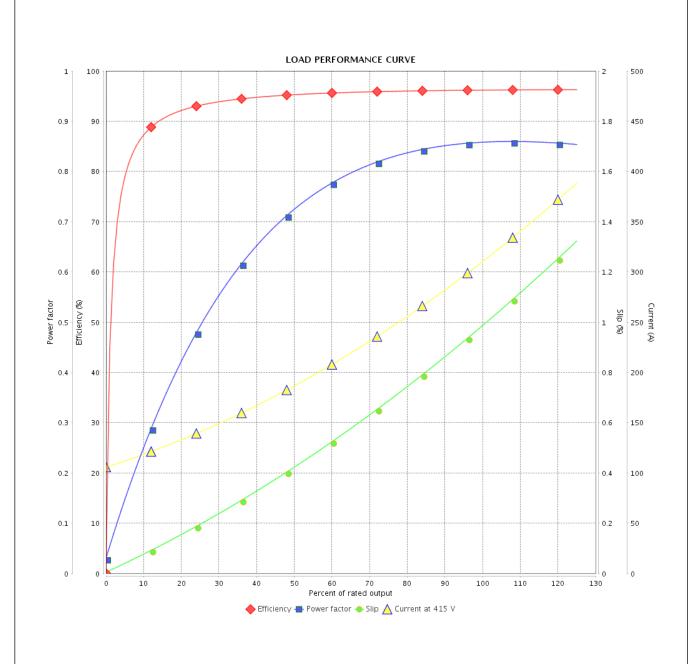
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11432186

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 311 A : 7.2 : 884 ft.lb : 260 % : 270 % : 1485 rpm	Moment of i Duty cycle Insulation of Service fact Temperature Design	lass	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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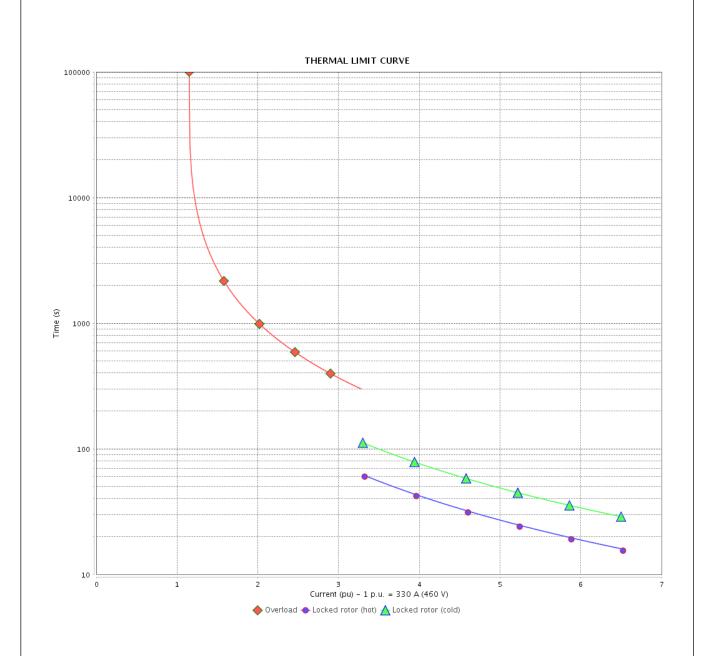


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Product line	: NEMA Premium Efficienc		Product code :	11432186 30018ST3QIE	E449T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 460 V 60 Hz 4P : 330 A : 6.5 : 885 ft.lb : 229 % : 229 % : 1780 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 89.6 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary	200911	Performed	Checked	Date
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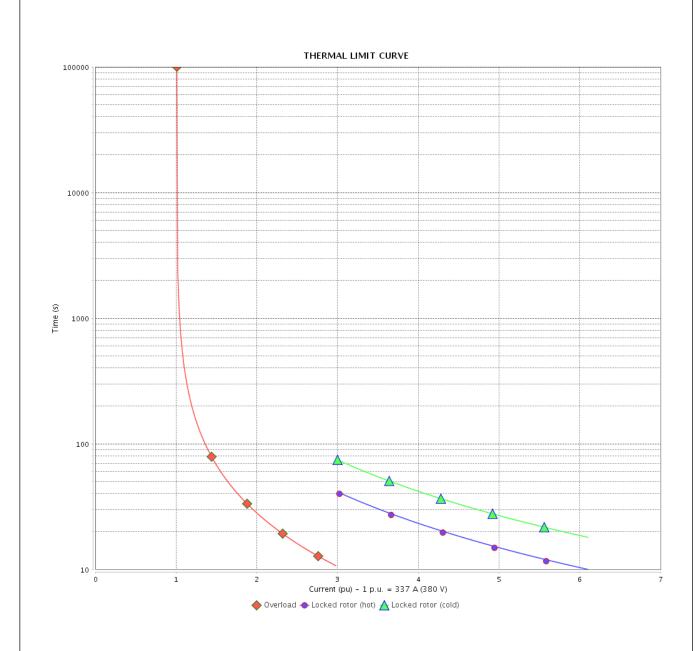


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Product line	: NEMA Premium Efficiency Phase	Three- Product code :  Catalog # :	11432186 30018ST3QIE	=449T-W22
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Performance Rated current	: 380 V 50 Hz 4P IE3 : 337 A	Moment of inertia (J)	: 89.6 sq.ft.lb	
LRC	: 6.1	Duty cycle	: Cont.(S1)	
Rated torque Locked rotor torque	: 887 ft.lb : 210 %	Insulation class Service factor	: F : 1.00	
Breakdown torque	: 220 %	Temperature rise	: 105 K	
Rated speed	: 1480 rpm	Design	: B	
Heating constant Cooling constant				
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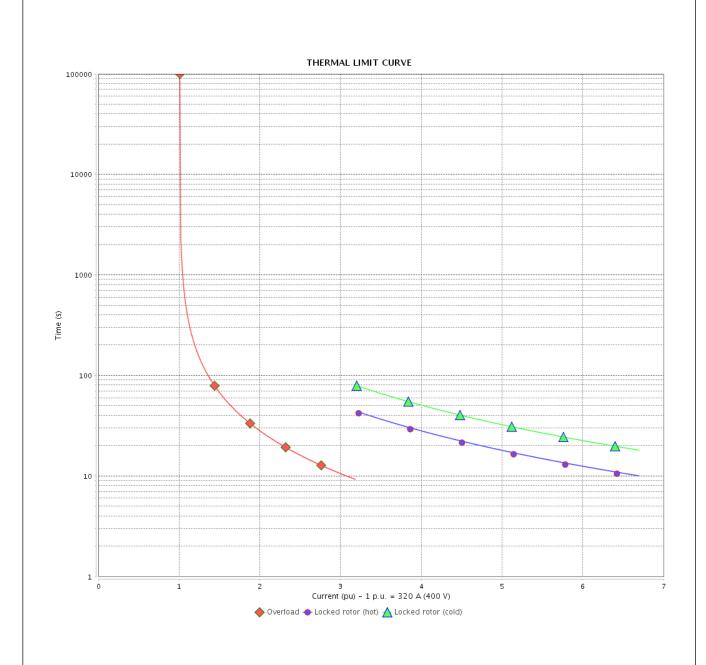


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Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11432186	
		11000		Catalog # :	30018ST3QIE	449T-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current		: 320 A	Moment of	of inertia (J)	: 89.6 sq.ft.lb	
LRC		: 6.7	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor tord		: 887 ft.lb : 240 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 250 %	Temperat		: 105 K	
Rated speed		: 1480 rpm	Design		: B 	
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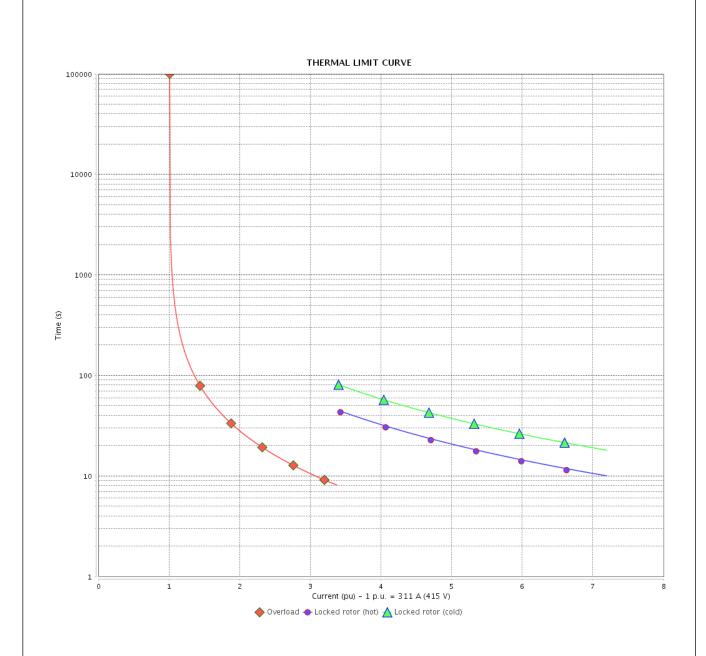


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11432186 30018ST3QII	F449T-W22
Performance	: 415 V 50 Hz 4P IE3	Momento	finartia (I)	: 90 6 ag ft lb	
Rated current LRC	: 311 A : 7.2	Duty cycle	f inertia (J)	: 89.6 sq.ft.lb : Cont.(S1)	
Rated torque	: 884 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 260 % : 270 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed	: 1485 rpm	Design		: B	
Heating constant					
Cooling constant					
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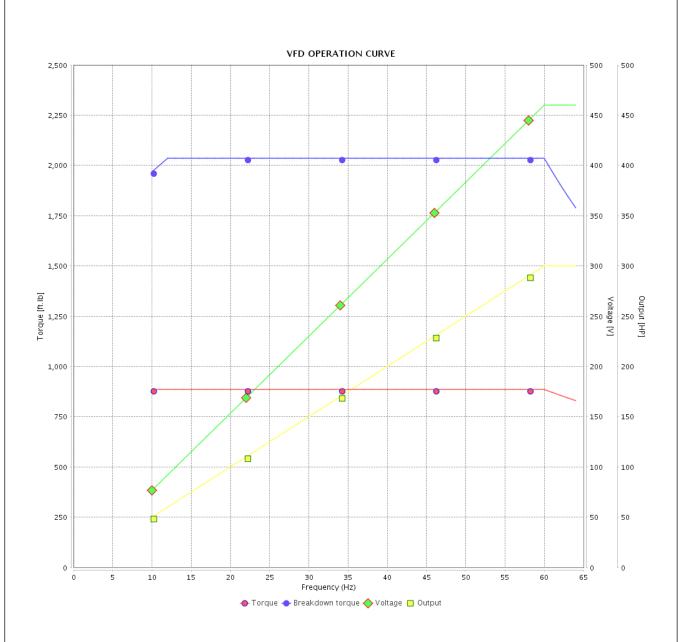
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11432186

Catalog #: 30018ST3QIE449T-W22



Performance : 460 V 60 Hz 4P : 330 A Rated current Moment of inertia (J) : 89.6 sq.ft.lb **LRC** Duty cycle : 6.5 : Cont.(S1) Insulation class Rated torque : 885 ft.lb : F Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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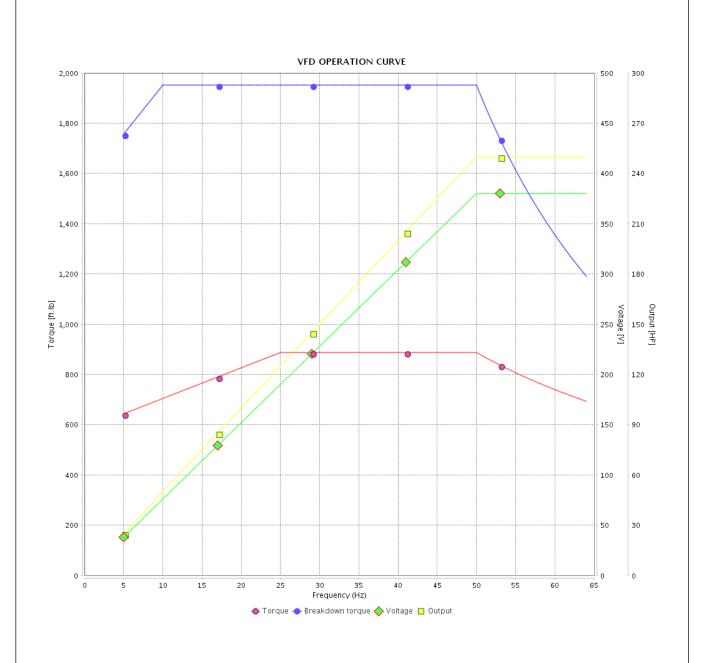
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Product line : NEMA Premium Efficiency Three- Product code : 11432186

Phase

Catalog #: 30018ST3QIE449T-W22

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 337 A : 6.1 : 887 ft.lb : 210 % : 220 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Phase

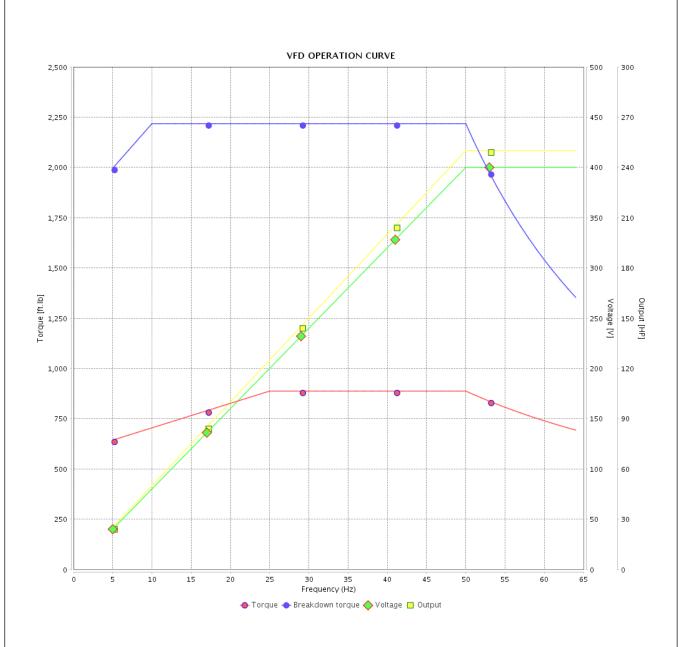
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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 320 A : 6.7 : 887 ft.lb : 240 % : 250 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 89.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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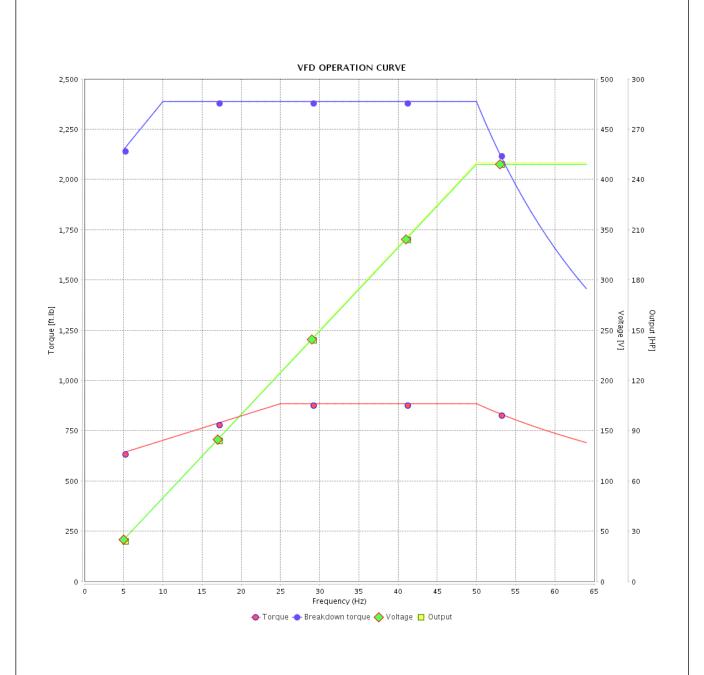
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Product line : NEMA Premium Efficiency Three- Product code :

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Catalog # : 30018ST3QIE449T-W22

11432186



Performance		: 415 V 50 Hz 4P IE3					
Rated current		311 A	Moment of inertia (J)		: 89.6 sq.ft.lb		
LRC		7.2	Duty cycle		: Cont.(S1)		
Rated torque		884 ft.lb	Insulation class		:F		
Locked rotor torque	e :	260 %	Service factor		: 1.00		
Breakdown torque	:	: 270 % T : 1485 rpm C		ıre rise	: 105 K		
Rated speed	:				: B		
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