DATA SHEET

Three Phase Induction Motor - Squirrel Cage



125

925

7.4x(Code H)

0.88

Customer

Product line : NEMA Premium Efficiency Three-Product code: 11506320

Catalog #: 12536XT3G444TS

128

870

6.8x(Code G)

0.89

Frame : 444/5TS Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

134

831

6.2x(Code F)

: 1000 m.a.s.l. Approx. weight³ : 2039 lb Altitude Moment of inertia (J) : 31.2 sq.ft.lb

: IP55 Protection degree

Rated current [A]

L. R. Amperes [A]

LRC [A]

Design	: B			
Output [HP]	125	100	100	
Poles	2	2	2	
Frequency [Hz]	60	50	50	
Rated voltage [V]	460	380	400	

134

884

6.6x(Code G)

No load current [A] 32.5 32.1 34.1 35.5 Rated speed [RPM] 3575 2975 2975 2980 Slip [%] 0.69 0.83 0.83 0.67 Rated torque [ft.lb] 184 177 177 176 Locked rotor torque [%] 200 190 210 229 Breakdown torque [%] 250 229 260 290 Service factor 1.15 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 39s (cold) 22s (hot) 54s (cold) 30s (hot) 54s (cold) 30s (hot) 54s (cold) 30s (hot) Noise level² 86.0 dB(A) 83.0 dB(A) 83.0 dB(A) 83.0 dB(A) 25% 92.4 93.5 93.0 92.4 50% 93.0 93.6 93.6 93.0 Efficiency (%) 75% 94.5 94.5 94.5 94.5 94.5 100% 95.0 95.0 95.0 25% 0.61 0.60 0.57 0.55 50% 0.79 0.83 0.83 0.81 Power Factor 75% 0.88 0.88 0.87 0.86

> 0.90 0.89 Drive end Non drive end Foundation loads

> > 3604 h

Bearing type 6314 C3 6314 C3 Max. traction : 342 lb Sealing Oil Seal Lip Seal Max. compression : 2381 lb

Lubricant amount 27 g 27 g Mobil Polyrex EM Lubricant type

3604 h

100%

Notes

Lubrication interval

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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DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		

Thermal protection

		<u> </u>		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11506320 Catalog #: 12536XT3G444TS 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. = 184 ft.lb ◆ Current - 1 p.u. = 134 A (460 V) Performance : 460 V 60 Hz 2P Rated current : 134 A Moment of inertia (J) : 31.2 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 184 ft.lb : F : 200 % Locked rotor torque Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3575 rpm Design : B Locked rotor time : 39s (cold) 22s (hot) Performed Checked Date Rev. **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage



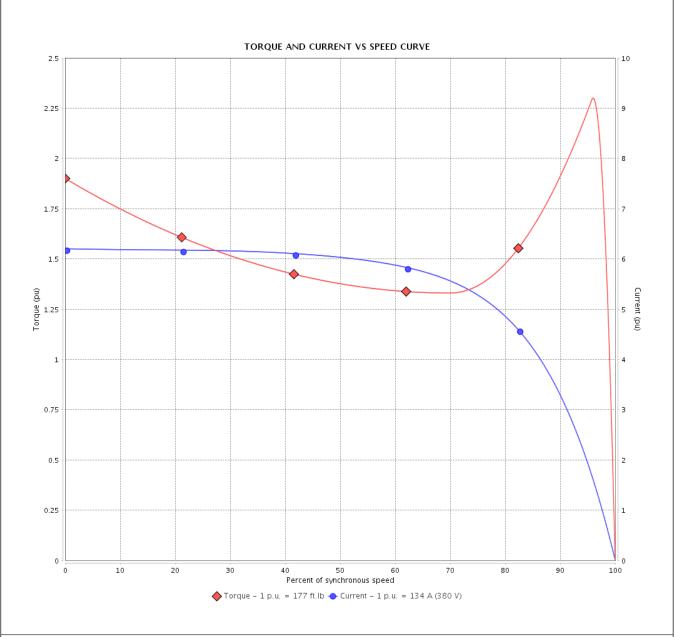
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11506320

Catalog #: 12536XT3G444TS



Performance : 380 V 50 Hz 2P IE2 Rated current : 134 A Moment of inertia (J) : 31.2 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2975 rpm Design : B

Locked rotor time : 54s (cold) 30s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11506320 Catalog #: 12536XT3G444TS 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. = 177 ft.lb ◆ Current - 1 p.u. = 128 A (400 V) Performance : 400 V 50 Hz 2P IE3 Rated current : 128 A Moment of inertia (J) : 31.2 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 177 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2975 rpm Design : B Locked rotor time : 54s (cold) 30s (hot) Rev. Performed Checked Date **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage

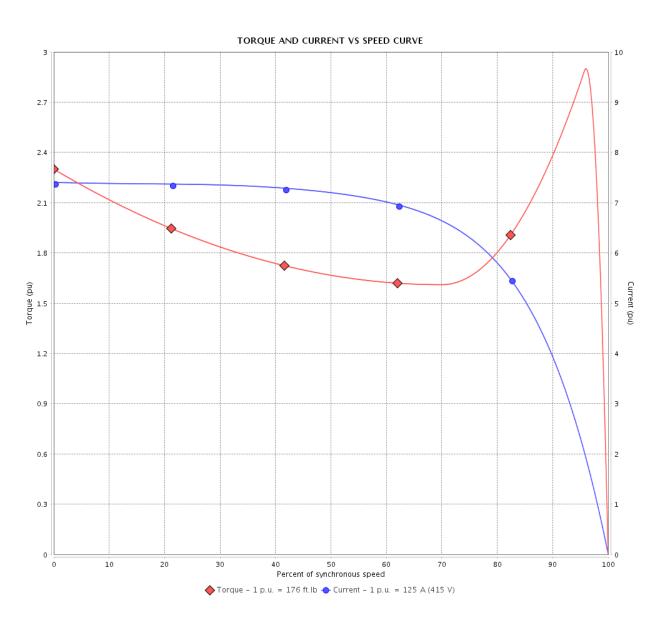


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11506320

Phase

Catalog #: 12536XT3G444TS



Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 125 A	Moment of inertia (J)	: 31.2 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 176 ft.lb	Insulation class	:F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 2980 rpm	Design	: B

Locked rotor time : 54s (cold) 30s (hot)

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Customer

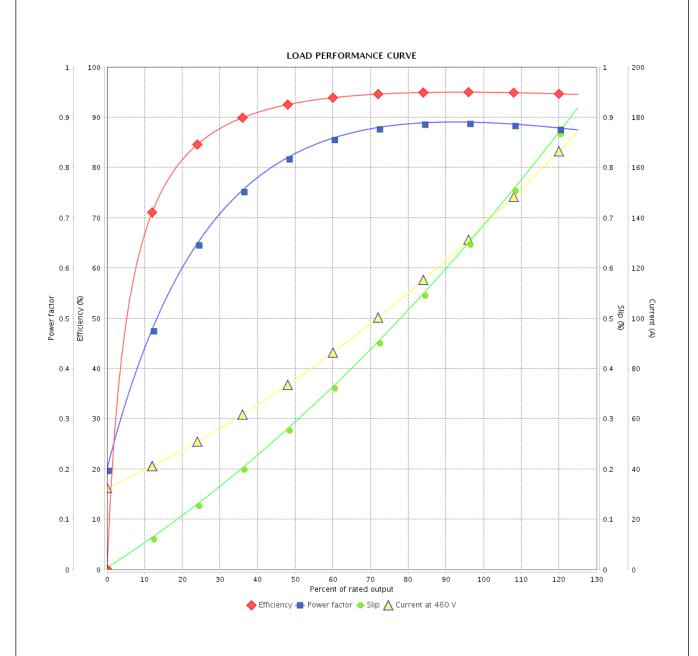
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Product line : NEMA Premium Efficiency Three- Product code : 11506320

Phase

Catalog #: 12536XT3G444TS



Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 134 A : 6.6 : 184 ft.lb : 200 % : 250 % : 3575 rpm	Moment of Duty cycle Insulation c Service fact Temperatur Design	lass	: 31.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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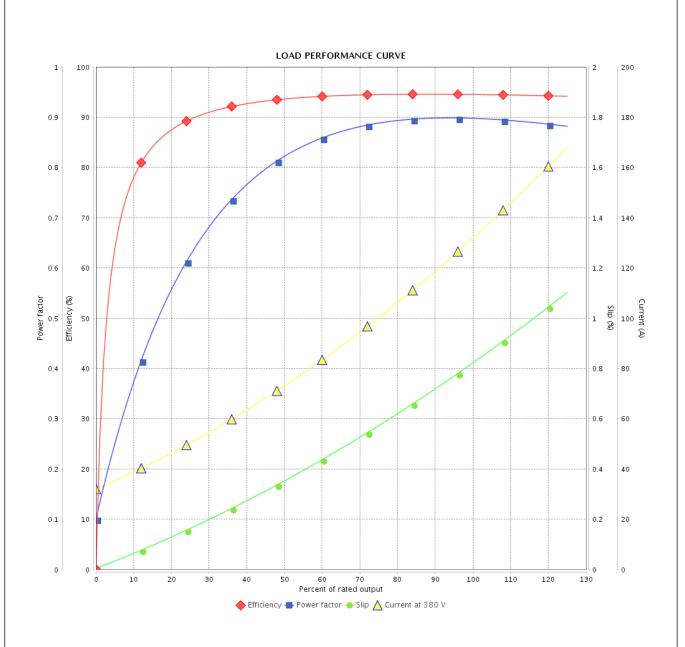
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Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11506320

Catalog #: 12536XT3G444TS



Performance	:	380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	134 A 6.2 177 ft.lb 190 % 229 % 2975 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 31.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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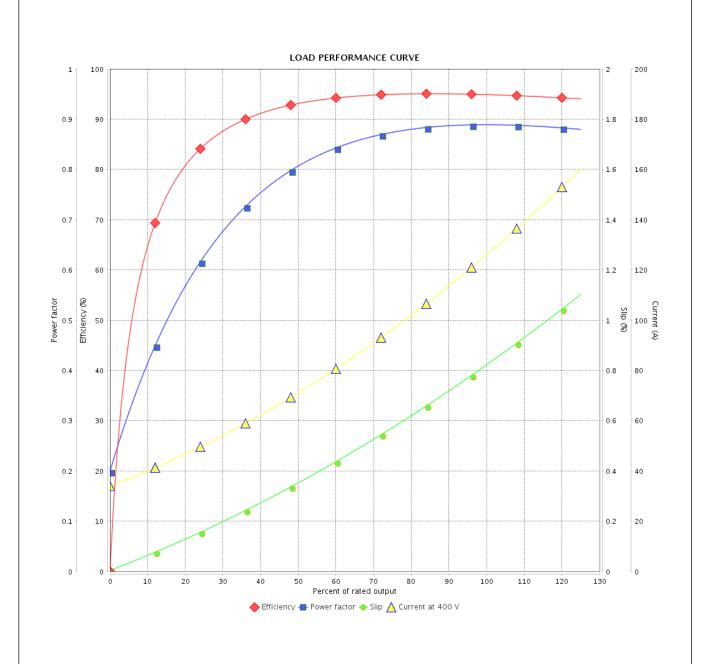


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11506320

Phase

Catalog #: 12536XT3G444TS



Performance	: 4	00 V 50 Hz 2P IE3			,	
Rated current				Moment of inertia (J)		
LRC	: 6		Duty cycle		: 31.2 sq.ft.lb : Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation		: F	
Locked rotor torqu	e : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	.60 %	Temperati	ıre rise	: 80 K	
Rated speed	: 2	975 rpm	Design		: B	
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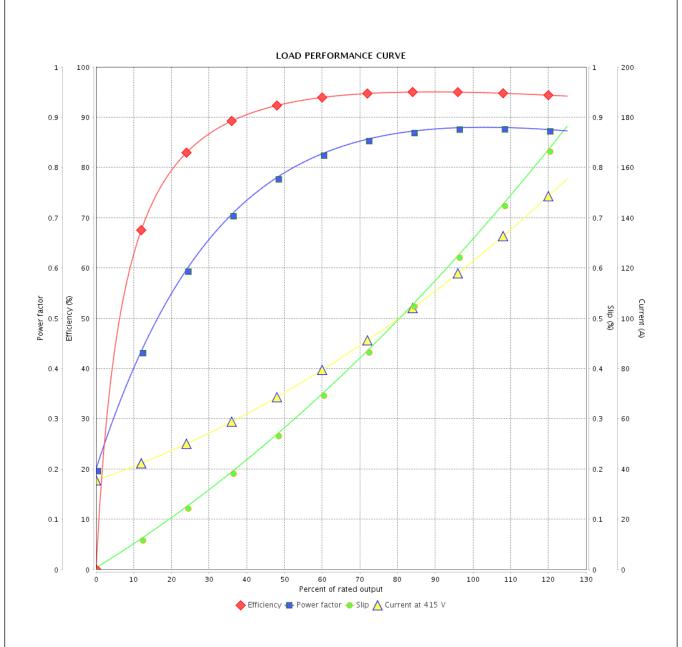
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11506320

Catalog #: 12536XT3G444TS



Performance : 415 V 50 Hz 2P IE3 : 125 A Rated current Moment of inertia (J) : 31.2 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 176 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 2980 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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Three Phase Induction Motor - Squirrel Cage

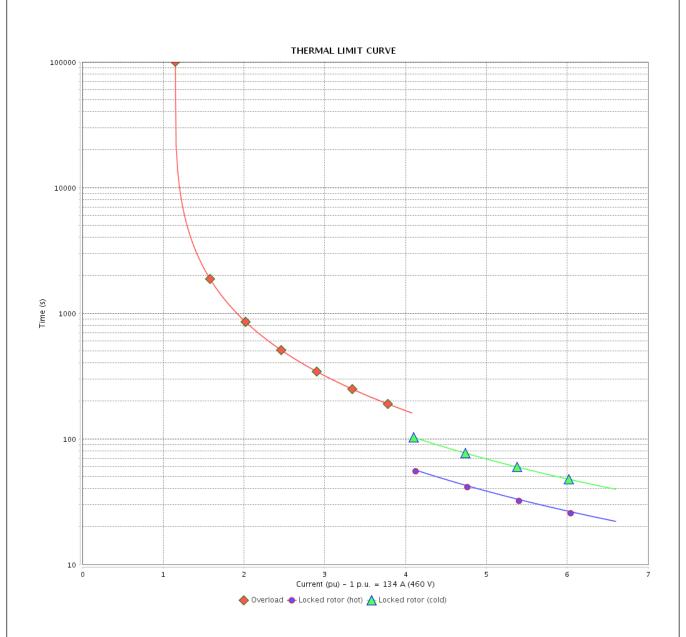


Product line		NEMA Premium Efficiency Th	iree- Pr	oduct code :	11506320	
	·	ndoc	Ca	atalog # :	12536XT3G4	144TS
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 1 : 6 : 1 que : 2 ue : 2	.6 E 84 ft.lb II 00 % S 50 % T	Moment of i Outy cycle nsulation cl Service fact emperature Design	ass or	: 31.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 1 : 6 : 1 que : 2 ue : 2 : 3	34 A 6 E 84 ft.lb II 50 % T	Outy cycle nsulation cl Service fact	ass or	: Cont.(S1) : F : 1.15 : 80 K	
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	: 1 : 6 : 1 que : 2 ue : 2 : 3	34 A 6 E 84 ft.lb II 50 % T	Outy cycle nsulation cl Service fact emperature	ass or	: Cont.(S1) : F : 1.15 : 80 K	
Rated current .RC Rated torque .ocked rotor torq Breakdown torqu Rated speed	: 1 : 6 : 1 que : 2 ue : 2 : 3	34 A 6 E 84 ft.lb II 50 % T	Outy cycle nsulation cl Service fact emperature	ass or	: Cont.(S1) : F : 1.15 : 80 K	Date
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constan Cooling constan	: 1 : 6 : 1 que : 2 ue : 2 : 3	34 A .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6	Outy cycle nsulation cl Service fact emperature	ass or e rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed Heating constan Cooling constan	: 1 : 6 : 1 que : 2 ue : 2 : 3	34 A .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6	Outy cycle nsulation cl Service fact emperature	ass or e rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed Heating constan Cooling constan Rev.	: 1 : 6 : 1 que : 2 ue : 2 : 3	34 A .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6 .6	Outy cycle nsulation cl Service fact emperature	ass or e rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date

Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

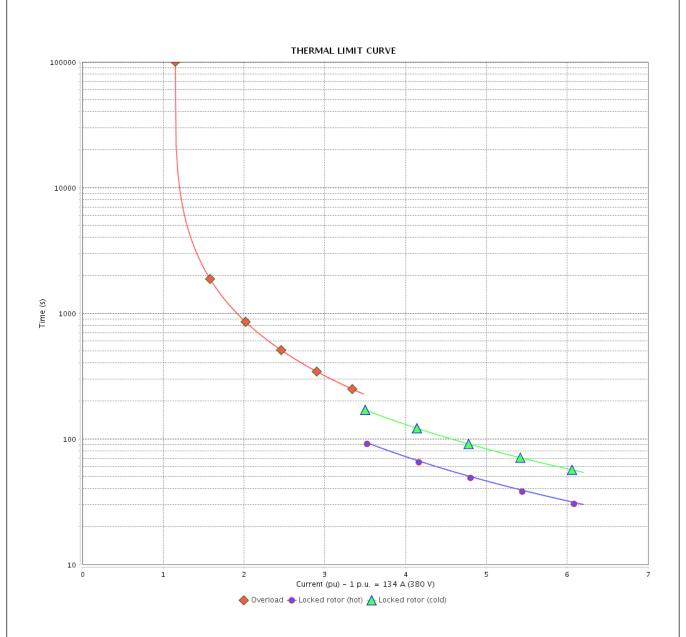


Product line	:1	NEMA Premium Efficiency 1	Three-	Product code :	11506320	
	Р	hase		Catalog # :	12536XT3G4	444TS
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 1; : 6. : 1 que : 1; ue : 2	80 V 50 Hz 2P IE2 34 A .2 77 ft.lb 90 % 29 % 975 rpm	Moment of Duty cycle Insulation Service for Temperat Design	n class actor	: 31.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 1; : 6. : 1 que : 19 ue : 2; : 29	34 A .2 77 ft.lb 90 % 29 %	Duty cycle Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.00 : 80 K	
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constan Cooling constan	: 1; : 6. : 1 que : 19 ue : 2; : 29	34 A .2 77 ft.lb 90 % 29 % 975 rpm	Duty cycle Insulation Service fa Temperat	e n class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current .RC Rated torque .ocked rotor tord Breakdown torqu Rated speed	: 1; : 6. : 1 que : 19 ue : 2; : 29	34 A .2 77 ft.lb 90 % 29 %	Duty cycle Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed Heating constant Cooling constant Rev.	: 1; : 6. : 1 que : 19 ue : 2; : 29	34 A .2 77 ft.lb 90 % 29 % 975 rpm	Duty cycle Insulation Service fa Temperat	e n class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constan Cooling constan	: 1; : 6. : 1 que : 19 ue : 2; : 29	34 A .2 77 ft.lb 90 % 29 % 975 rpm	Duty cycle Insulation Service fa Temperat	e n class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date

Three Phase Induction Motor - Squirrel Cage



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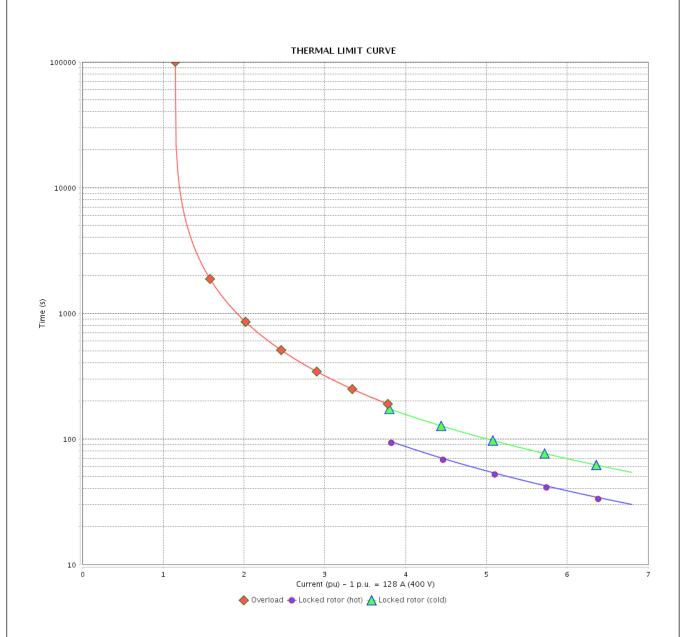


Customer	:					
Product line	: N Pl	NEMA Premium Efficiency [*] hase		Product code : Catalog # :	11506320 12536XT3G	444TS
Performance	: 40	00 V 50 Hz 2P IE3				
Rated current	: 12 : 6.	28 A	Moment o	of inertia (J)	: 31.2 sq.ft.lb	
LRC Rated torque		8 77 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		10 %	Service fa		: 1.00	
Breakdown torqu Rated speed		60 % 975 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constan		•	<u> </u>			
Cooling constant						
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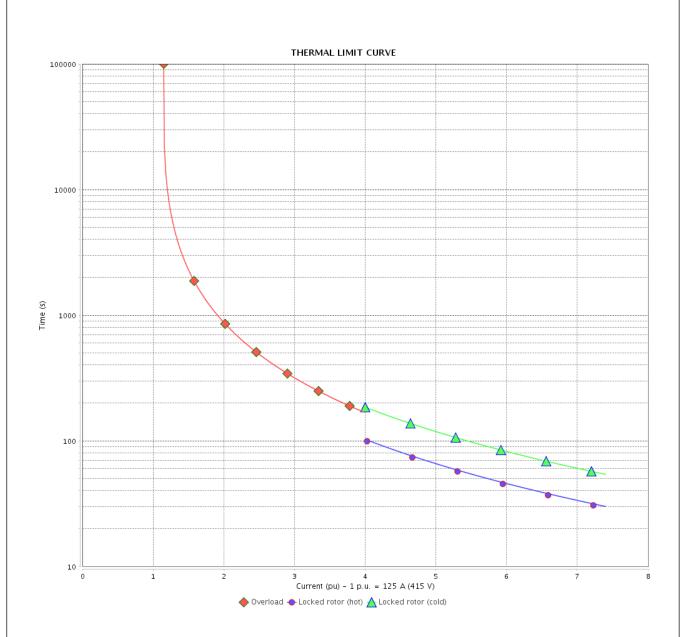


Product line		NEMA Premium Efficiency T	hree-	Product code :	11506320	
	F	Phase	1	Catalog # :	12536XT3G4	144TS
Performance Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 1 : 7 : 1 que : 2 ue : 2	.4 76 ft.lb 29 % 90 %	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 31.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rated current LRC Rated torque Locked rotor tor Breakdown torq	: 1 : 7 : 1 que : 2 ue : 2 : 2	25 A .4 76 ft.lb 29 % 90 %	Duty cycle Insulation Service fa Temperatu	e class ctor	: Cont.(S1) : F : 1.00 : 80 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 1 : 7 : 1 que : 2 ue : 2 : 2	25 A .4 76 ft.lb 29 % 90 %	Duty cycle Insulation Service fa Temperatu	e class ctor	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constan	: 1 : 7 : 1 que : 2 ue : 2 : 2	25 A .4 76 ft.lb 29 % 90 % 980 rpm	Duty cycle Insulation Service fa Temperatu	class ctor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	: 1 : 7 : 1 que : 2 ue : 2 : 2	25 A .4 76 ft.lb 29 % 90 % 980 rpm	Duty cycle Insulation Service fa Temperatu	class ctor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed Heating constan Cooling constan Rev.	: 1 : 7 : 1 que : 2 ue : 2 : 2	25 A .4 76 ft.lb 29 % 90 % 980 rpm	Duty cycle Insulation Service fa Temperatu	class ctor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date

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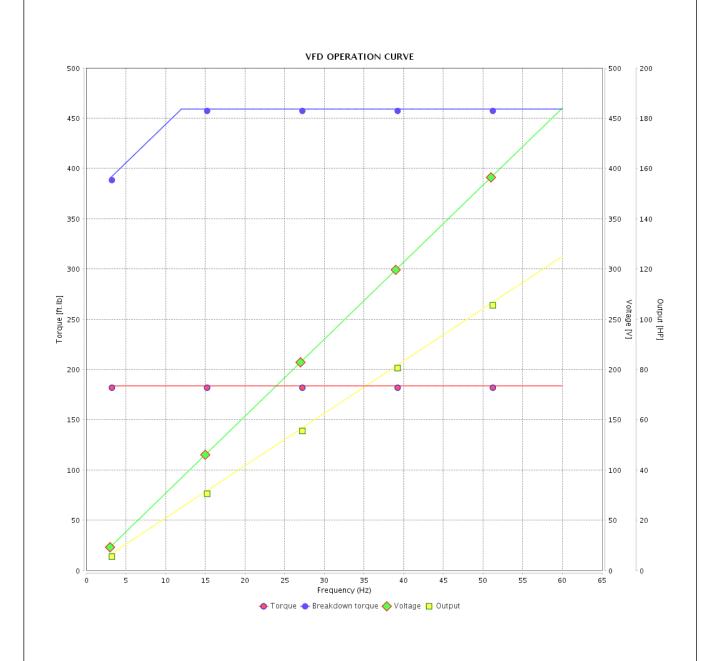
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11506320

Catalog #: 12536XT3G444TS



Performance	:	460 V 60 Hz 2P				
Rated current	Rated current : 134 A		Moment o	Moment of inertia (J)		
LRC	:	6.6	Duty cycle	;	: Cont.(S1)	
Rated torque	:	184 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	200 %	Service fa	ctor	: 1.15	
Breakdown torque		250 %	Temperati	ıre rise	: 80 K	
Rated speed	:	3575 rpm	Design		: B	
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Customer :

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Date

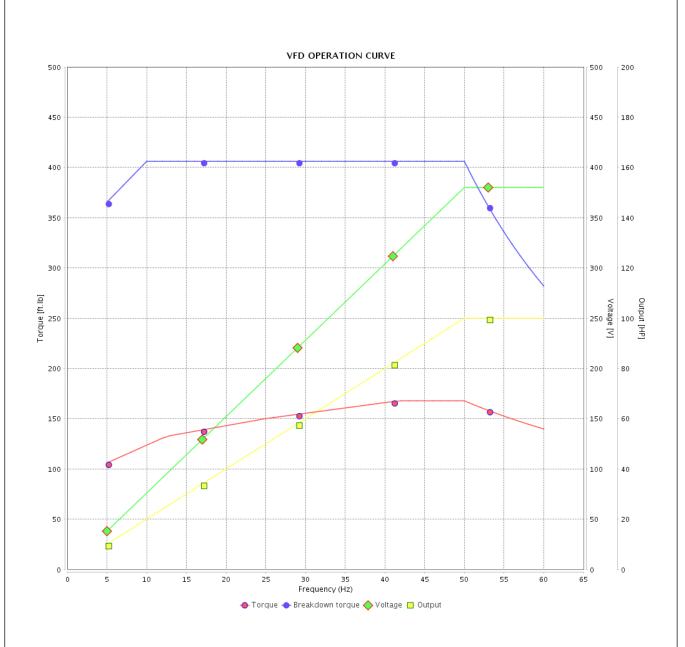
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11506320

Catalog #: 12536XT3G444TS



Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 134 A : 6.2 : 177 ft.lb : 190 % : 229 % : 2975 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 31.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



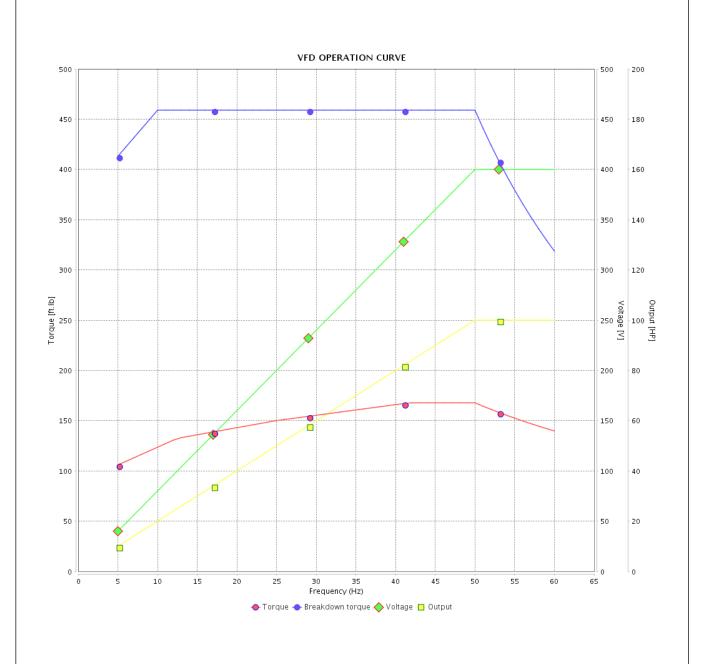
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 12536XT3G444TS

11506320



Performance	: 4	00 V 50 Hz 2P IE3				
Rated current : 128 A		Moment o	Moment of inertia (J)			
LRC	: 6	.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	60 %	Temperature rise		: 80 K	
Rated speed	: 2	975 rpm	Design		: B	
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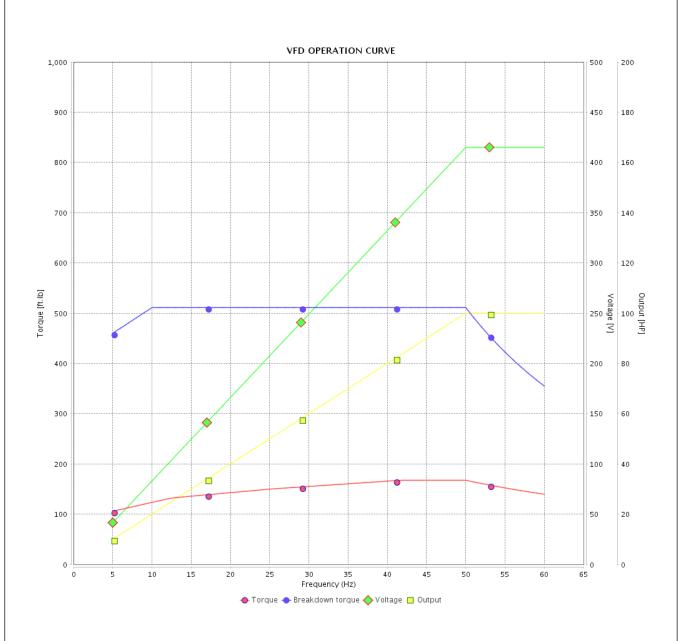
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11506320

Catalog #: 12536XT3G444TS



Performance	: 415 V 50 Hz 2P IE3				
Rated current	: 125 A	Moment of inertia (J)		: 31.2 sq.ft.lb	
LRC	: 7.4	Duty cycle	•	: Cont.(S1)	
Rated torque	: 176 ft.lb	Insulation class		: F	
Locked rotor torque	: 229 %	Service fa	ctor	: 1.00	
Breakdown torque	: 290 %	Temperature rise		: 80 K	
Rated speed	: 2980 rpm	Design		: B	
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