#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11355046

Phase

Catalog #: 06012ET3E404T-W22

Frame : 404/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

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

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 1140 lb

Protection degree : IP55 | Moment of inertia (J) : 36.9 sq.ft.lb

Design : B Output [HP] 60 50 50 50 60 60 60 Poles 6 6 6 6 6 6 6 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 230/460 400 415 380 400 380 415 Rated current [A] 139/69.5 66.5 85.1 80.3 69.3 64.8 78.3 L. R. Amperes [A] 987/493 457 485 505 477 498 525 6.7x(Code LRC [A] 7.1x(Code H) 6.6x(Code 7.3x(Code H) 7.8x(Code J) 5.6x(Code F) 6.2x(Code G) G) G) No load current [A] 50.0/25.0 24.7 26.4 27.7 24.7 26.4 27.7 Rated speed [RPM] 1185 985 985 985 980 980 985 1.25 2.00 Slip [%] 1.50 1.50 1.50 2.00 1.50 Rated torque [ft.lb] 266 267 267 267 322 322 320 Locked rotor torque [%] 200 180 220 229 150 180 190 Breakdown torque [%] 180 229 220 240 260 200 220 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 80 K 105 K Temperature rise 80 K 80 K 80 K 105 K 105 K 28s (cold) Locked rotor time 36s (cold) 28s (cold) 28s (cold) 28s (cold) 28s (cold) 28s (cold) 20s (hot) 16s (hot) 16s (hot) 16s (hot) 16s (hot) 16s (hot) 16s (hot) Noise level<sup>2</sup> 68.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 25% 94.0 93.3 93.4 93.4 94.0 94.0 94.0 50% 94.1 93.3 93.3 93.3 93.6 93.6 93.6 Efficiency (%) 75% 94.5 93.4 93.7 93.7 93.0 93.6 93.6 100% 93.3 92.4 94.5 93.4 93.4 93.0 93.0 25% 0.48 0.48 0.44 0.41 0.54 0.51 0.48 50% 0.74 0.73 0.70 0.67 0.79 0.77 0.74 Power Factor 75% 0.82 0.83 0.82 0.79 0.85 0.84 0.82

 0.86
 0.87
 0.86
 0.85

 Drive end
 Non drive end
 Foundation loads

Bearing type : 6316 C3 6314 C3 Max. traction : 1542 lb
Sealing : WSeal WSeal Max. compression : 2682 lb
Lubrication interval : 16000 h

Lubricant amount : 34 g 27 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 154A SF 1.10 SFA 169A

100%

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.

0.87

0.87

0.86

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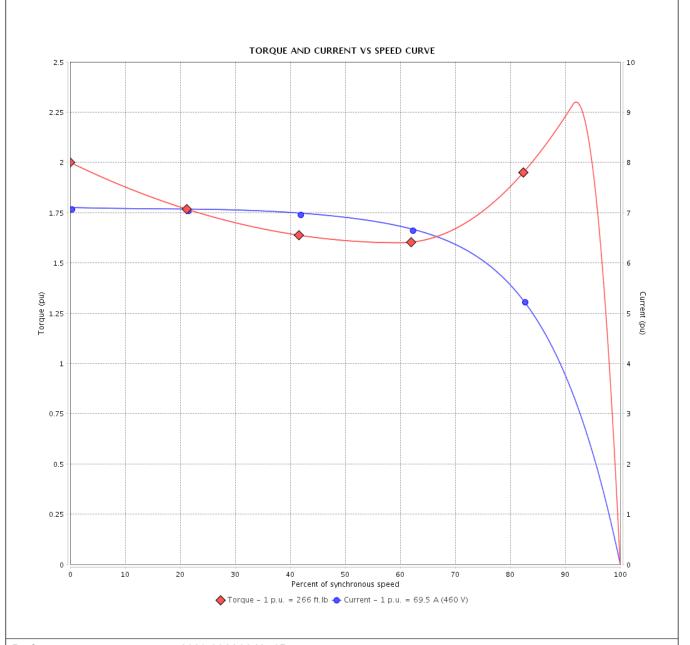


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11355046

Catalog #: 06012ET3E404T-W22



: 230/460 V 60 Hz 6P Performance Rated current : 139/69.5 A Moment of inertia (J) : 36.9 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 266 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed

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

: 1185 rpm

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Design

: B



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11355046 Catalog #: 06012ET3E404T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 (pd) 1.25 0.5 0.25 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 267 ft.lb ◆ Current - 1 p.u. = 69.3 A (380 V)

Performance	: 380 V 50 Hz 6P IE3		
Rated current	: 69.3 A	Moment of inertia (J)	: 36.9 sq.ft.lb
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 267 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B
Locked rotor time	: 28s (cold) 16s (hot)		

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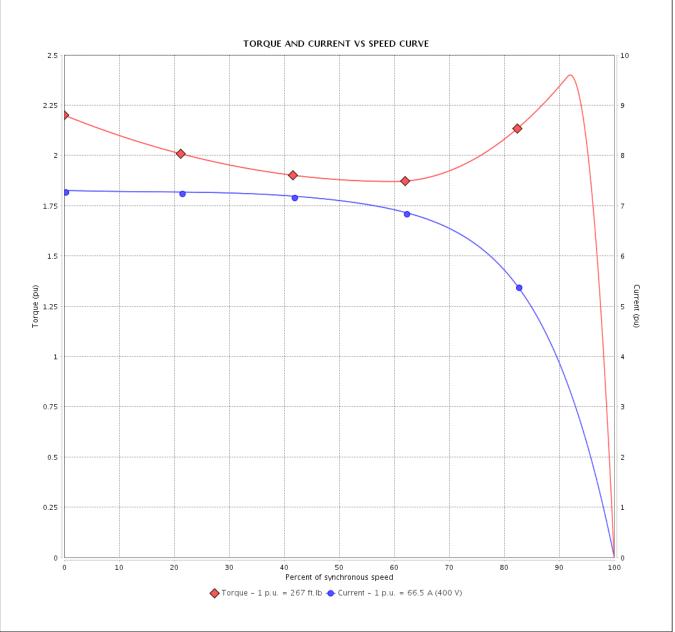
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11355046

Catalog #: 06012ET3E404T-W22



Performance : 400 V 50 Hz 6P IE3 Rated current : 66.5 A Moment of inertia (J) : 36.9 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : 267 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 985 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: 11355046 Catalog #: 06012ET3E404T-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. = 267 ft.lb ◆ Current - 1 p.u. = 64.8 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 64.8 A Moment of inertia (J) : 36.9 sq.ft.lb **LRC** : 7.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 267 ft.lb : F : 229 % Locked rotor torque Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 28s (cold) 16s (hot)

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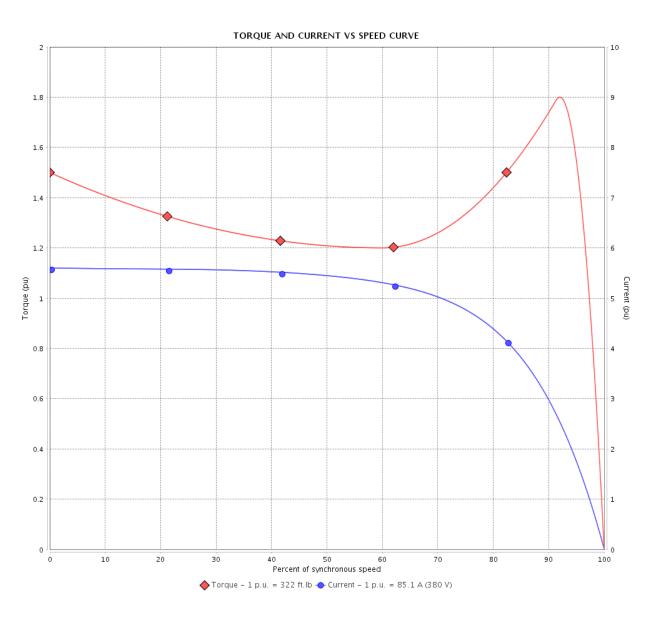


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11355046

Phase

Catalog #: 06012ET3E404T-W22



Performance	: 380 V 50 Hz 6P IE1		
Rated current	: 85.1 A	Moment of inertia (J)	: 36.9 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 322 ft.lb	Insulation class	:F
Locked rotor torque	: 150 %	Service factor	: 1.00
Breakdown torque	: 180 %	Temperature rise	: 105 K
Rated speed	: 980 rpm	Design	: B

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

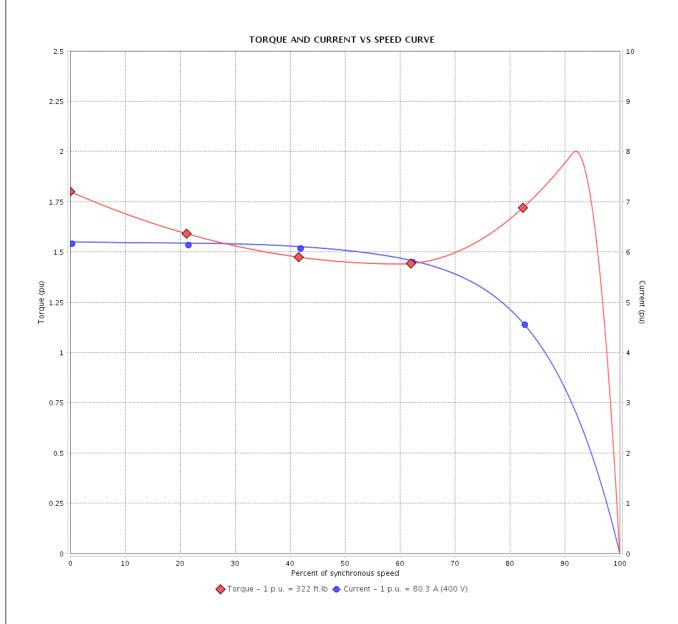
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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11355046

> Catalog #: 06012ET3E404T-W22



Performance	: 400 V 50 Hz 6P IE2		
Rated current	: 80.3 A	Moment of inertia (J)	: 36.9 sq.ft.lb
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 322 ft.lb	Insulation class	:F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 980 rpm	Design	: B
Locked rotor time	: 28s (cold) 16s (hot)		

Looked rotor time	. 20	36 (6614) 166 (1161)			
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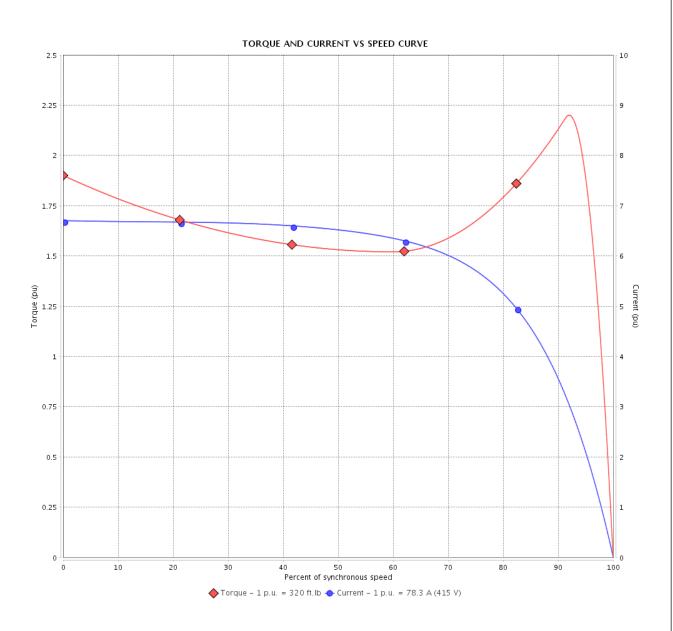
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11355046

Catalog #: 06012ET3E404T-W22



Performance	: 415 V 50 Hz 6P IE2		
Rated current	: 78.3 A	Moment of inertia (J)	: 36.9 sq.ft.lb
LRC Rated torque	: 6.7 : 320 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 985 rpm	Design	: B

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

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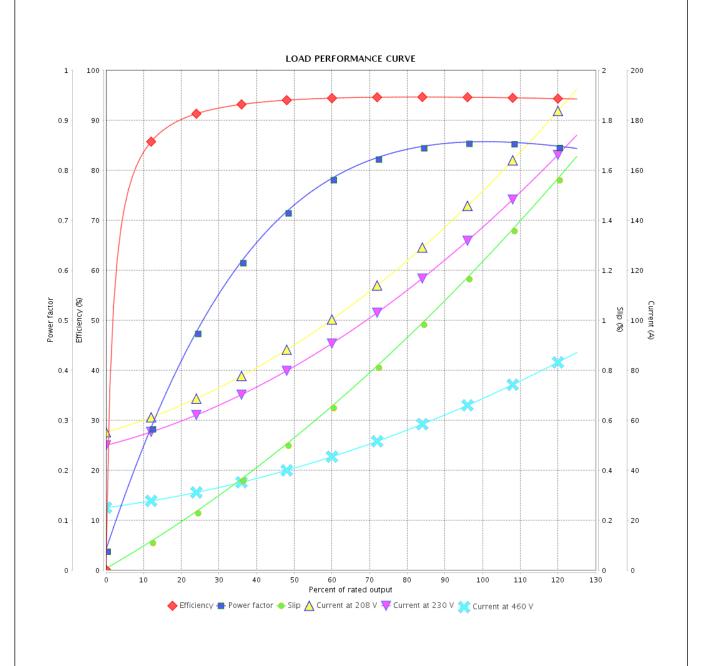


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11355046

Phase

Catalog #: 06012ET3E404T-W22



Performance	: 2	30/460 V 60 Hz 6P				
Rated current	: 1	39/69.5 A	Moment o	f inertia (J)	: 36.9 sq.ft.lb	
LRC	: 7	<b>'.1</b>	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 2	66 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	00 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	29 %	Temperature rise		: 80 K	
Rated speed	: 1	185 rpm	Design		: B	
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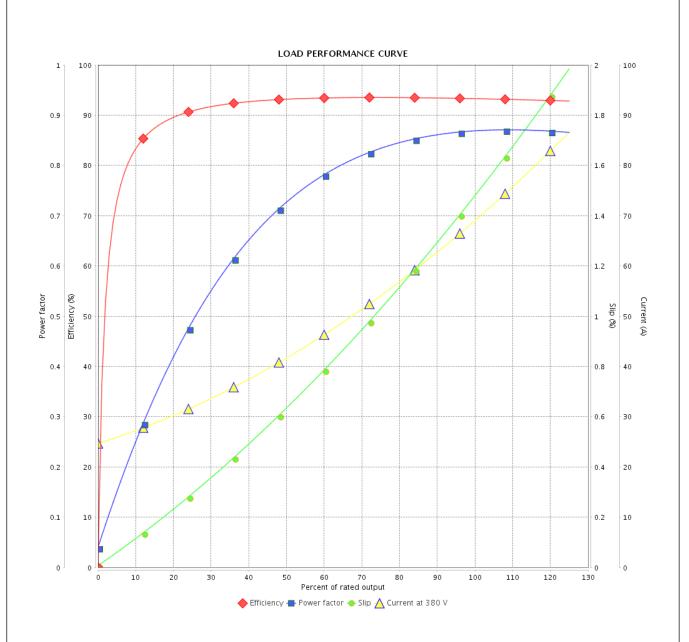
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11355046

Catalog #: 06012ET3E404T-W22



Performance	: 380 V 50 Hz 6P IE3			
1 enormance	. 300 V 30 112 01 1123			
Rated current	: 69.3 A	Moment of inertia (J)	: 36.9 sq.ft.l	lb
LRC	: 6.6	Duty cycle	: Cont.(S1)	
Rated torque : 267 ft.lb		Insulation class	: F	
Locked rotor torque	: 180 %	Service factor	: 1.00	
Breakdown torque	: 220 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	
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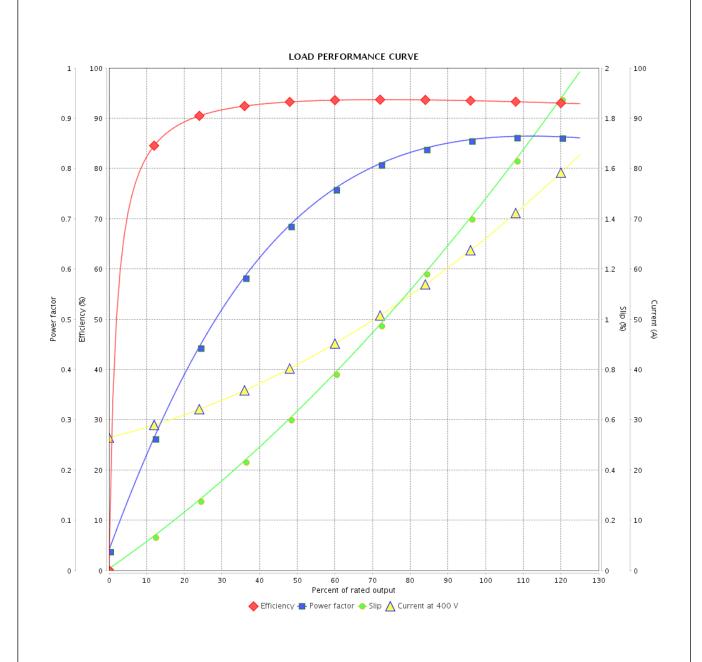


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11355046

Phase

Catalog #: 06012ET3E404T-W22



			· · · · · · · · · · · · · · · · · · ·			
Performance		400 V 50 Hz 6P IE3	3			
Rated current	: 6	66.5 A	Moment o	f inertia (J)	: 36.9 sq.ft.lb	
LRC	: 7	7.3	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 2	267 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	220 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	240 %	7 Temperature rise		: 80 K	
Rated speed	: 9	985 rpm Design			: B	
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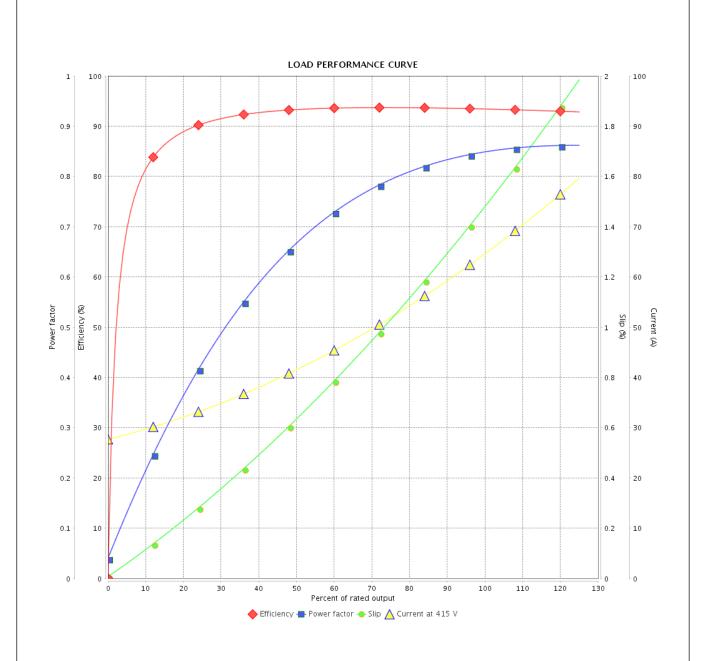
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 06012ET3E404T-W22

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Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	ated current : 64.8 A		Moment o	of inertia (J)	: 36.9 sq.ft.lb	
LRC	: 7	7.8	Duty cycle	e	: Cont.(S1)	
Rated torque	: 2	67 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : 2	29 %	Service fa	actor	: 1.00	
Breakdown torque		60 %	Temperat	ure rise	: 80 K	
Rated speed	: 9	85 rpm	Design		: B	
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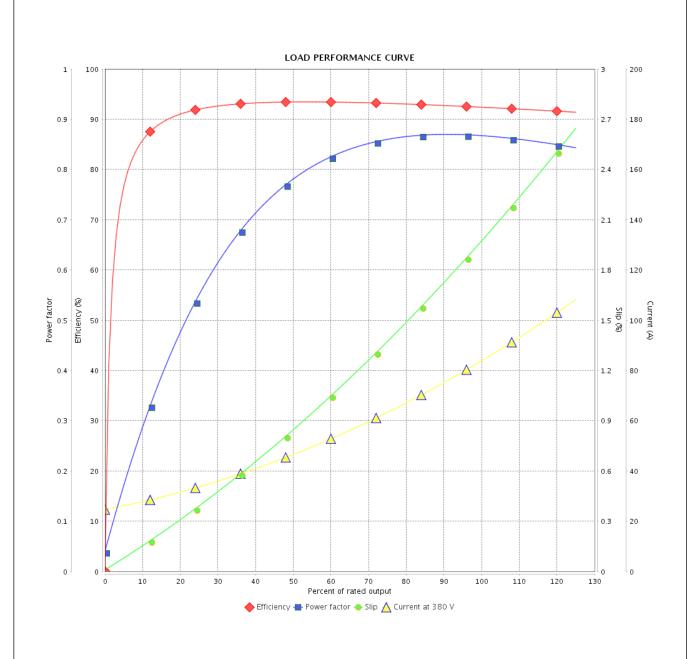
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11355046

Phase

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Performance	: 380 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 85.1 A : 5.6 : 322 ft.lb : 150 % : 180 % : 980 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 36.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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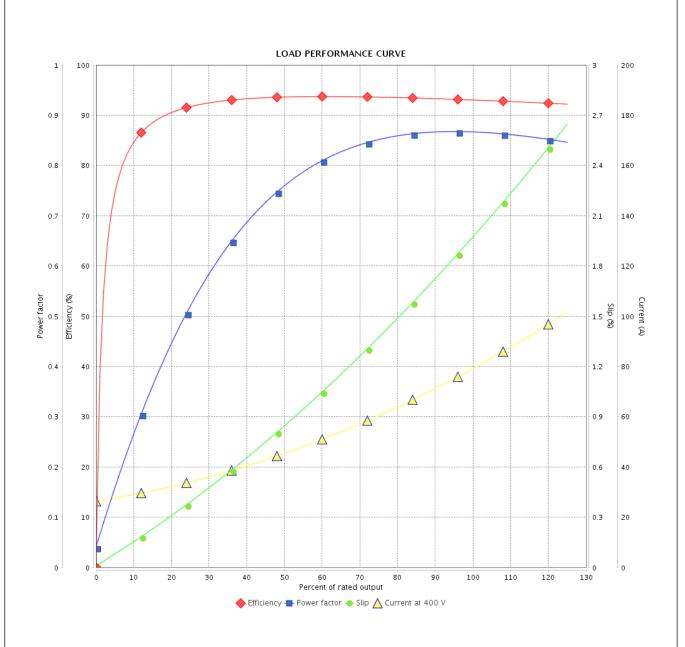
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Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11355046

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Performance	: 400 V 50 Hz 6P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 80.3 A : 6.2 : 322 ft.lb : 180 % : 200 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 36.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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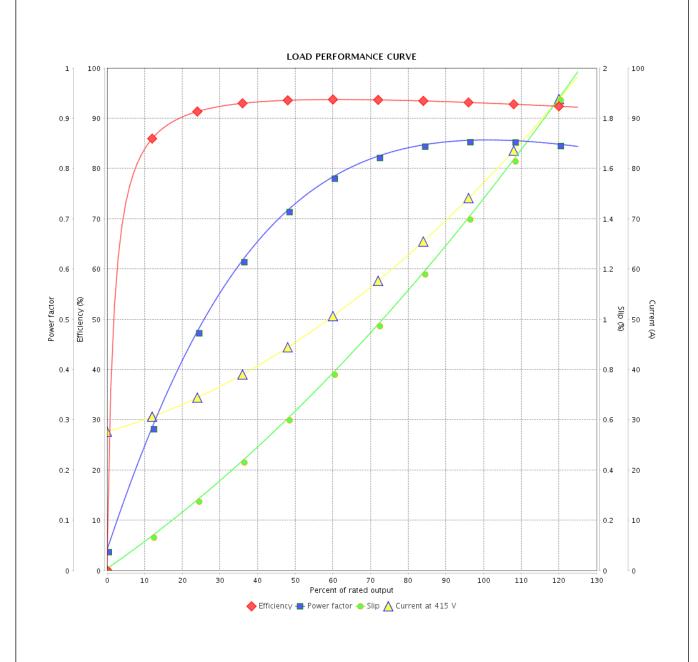


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11355046

Phase

Catalog #: 06012ET3E404T-W22



Performance	: 4	15 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torc	: 6. : 3: que : 1!	20 ft.lb 90 %	Duty cycle Insulation Service fa	class actor	: 36.9 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torqu Rated speed		20 % 85 rpm	Temperature rise Design		: 105 K : B	
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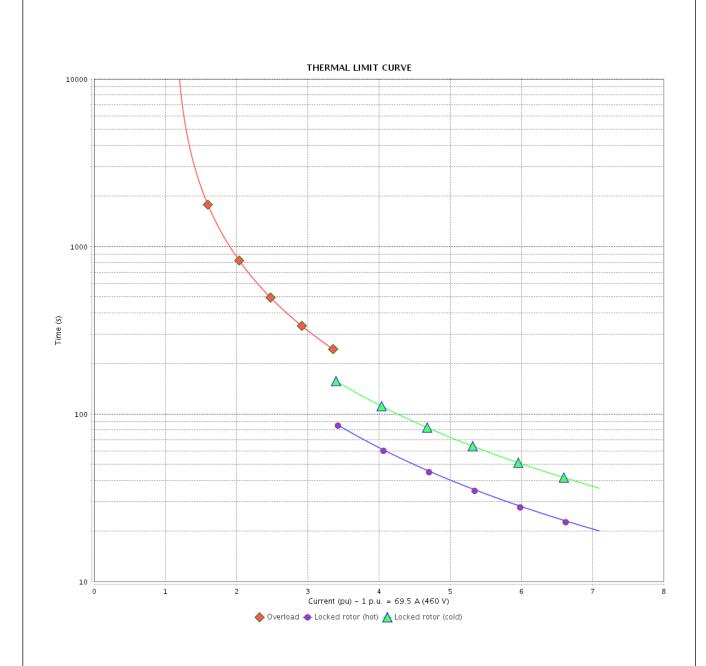


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	11355046 06012ET3E404T-	.W22
				<b></b>
Performance	: 230/460 V 60 Hz 6P			
Rated current	: 139/69.5 A	Moment of inertia (J)	: 36.9 sq.ft.lb	
LRC Rated torque	: 7.1 : 266 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 200 %	Service factor	: 1.25	
Breakdown torque Rated speed	: 229 % : 1185 rpm	Temperature rise Design	: 80 K : B	
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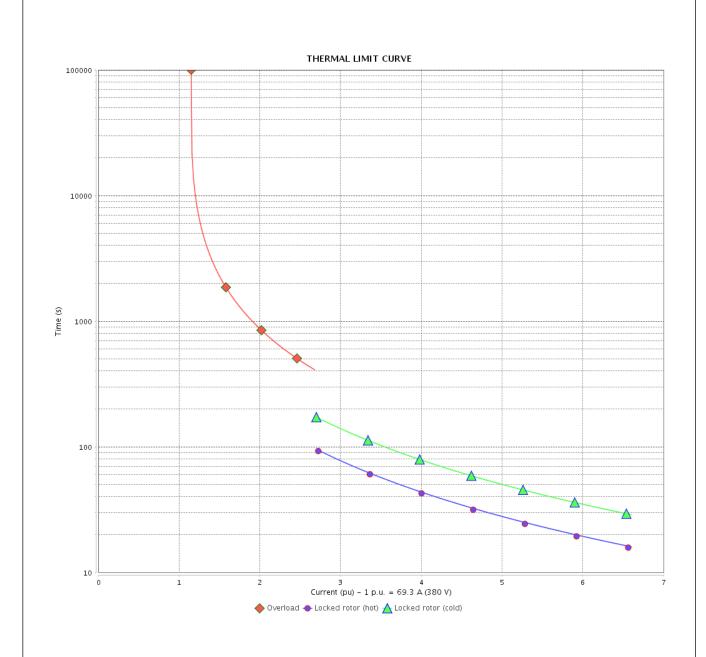


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11355046 06012ET3E40	)4T-W22
Performance		: 380 V 50 Hz 6P IE3				
Rated current LRC		: 69.3 A : 6.6	Moment of Duty cycle	of inertia (J)	: 36.9 sq.ft.lb : Cont.(S1)	
Rated torque		: 267 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 180 % : 220 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 985 rpm	Design		: B	
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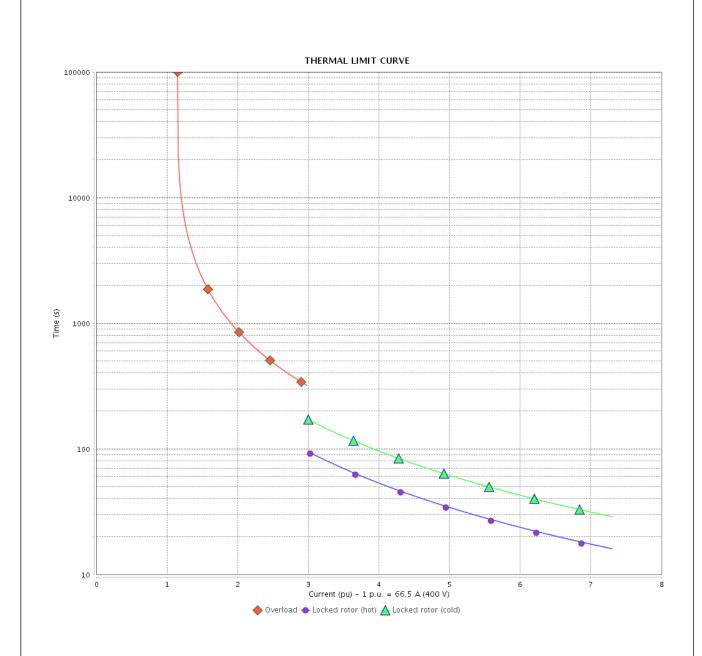


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Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11355046 06012ET3E4	
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Performance	: 400 V 50 Hz 6P IE3	Messer	finantic (I)	.0000.11	
Rated current LRC	: 66.5 A : 7.3	Moment o	of inertia (J)	: 36.9 sq.ft.lb : Cont.(S1)	
Rated torque	: 267 ft.lb	Insulation	class	: F	
Locked rotor torque	: 220 %	Service fa		: 1.00	
Breakdown torque Rated speed	: 240 % : 985 rpm	Temperatu Design	ure rise	: 80 K : B	
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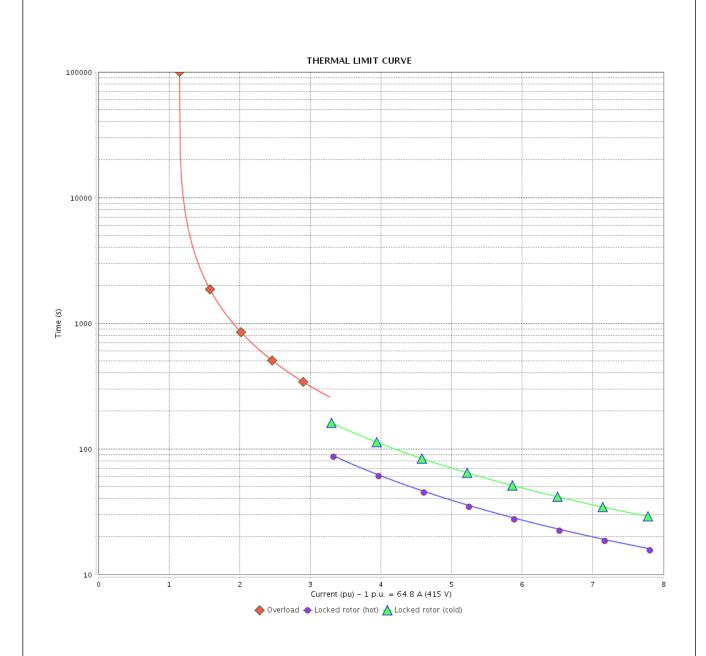


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11355046 06012ET3E40	)4T-W22
Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC		: 64.8 A : 7.8	Duty cycle		: 36.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 267 ft.lb : 229 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue :	: 260 %	Temperat		: 80 K	
Rated speed		: 985 rpm	Design		: B	
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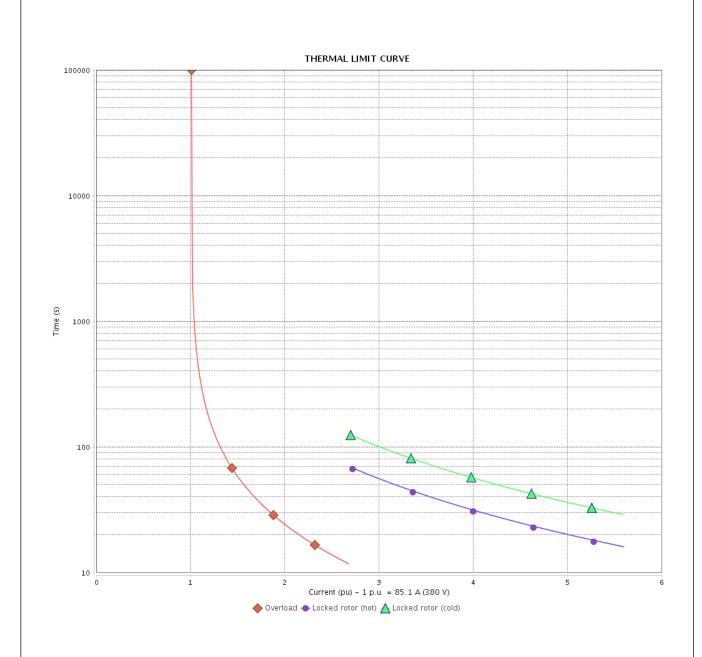


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11355046 06012ET3E40	04T-W22
Performance		: 380 V 50 Hz 6P IE1				
Rated current LRC		: 85.1 A : 5.6	Moment of Duty cycle	of inertia (J) e	: 36.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 322 ft.lb : 150 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu		: 180 %	Temperat		: 1.00 : 105 K	
Rated speed		: 980 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage

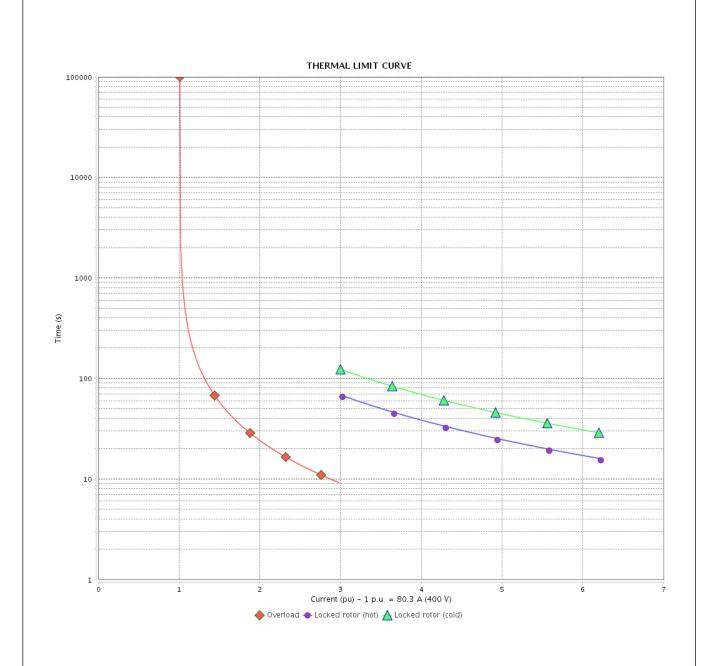


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11355046 06012ET3E40	)4T-W22
Performance		: 400 V 50 Hz 6P IE2				
Rated current LRC		: 80.3 A : 6.2	Duty cycle		: 36.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 322 ft.lb : 180 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 200 %	Temperat		: 105 K	
Rated speed		: 980 rpm	Design		: B	
Heating constant Cooling constant						
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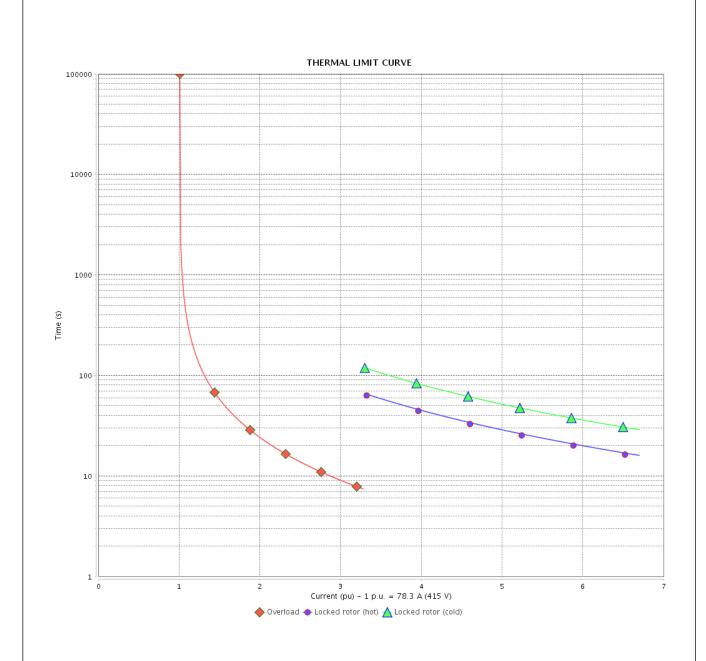


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11355046 06012ET3E40	04T-W22
Performance		: 415 V 50 Hz 6P IE2				
Rated current LRC		: 78.3 A : 6.7	Moment of Duty cycle	of inertia (J) e	: 36.9 sq.ft.lb : Cont.(S1)	
Rated torque		: 320 ft.lb : 190 %	Insulation Service fa	class	: F	
Locked rotor tord Breakdown torqu		: 190 % : 220 %	Temperat		: 1.00 : 105 K	
Rated speed		: 985 rpm	Design		: B	
Heating constant						
Cooling constant	Ţ.	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Produc

Phase

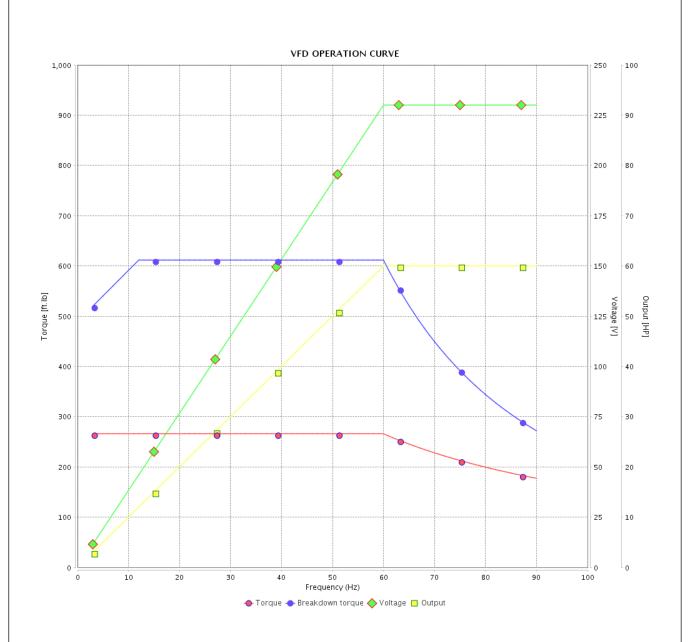
Product code: 11355046

Catalog #: 06012ET3E404T-W22

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Performance : 230/460 V 60 Hz 6P : 139/69.5 A Rated current Moment of inertia (J) : 36.9 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 266 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code :

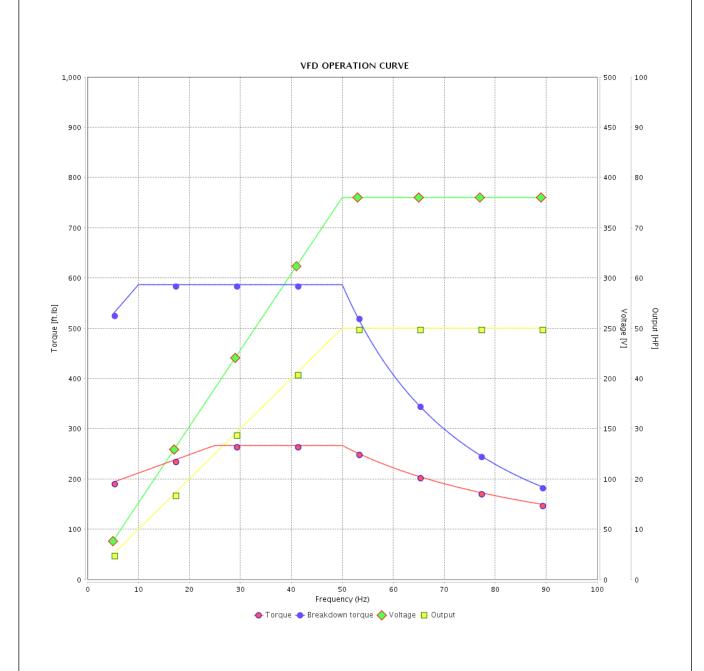
Phase

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11355046

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC	: 69.3 A : 6.6	Moment of inertia (J) Duty cycle		: 36.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Prockdown torque	: 267 ft.lb : 180 % : 220 %	Insulation class Service factor Temperature rise		: F : 1.00 : 80 K	
Breakdown torque Rated speed	: 985 rpm	Design	156	: B	
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Product line : NEMA Premium Efficiency Three- Product

Phase

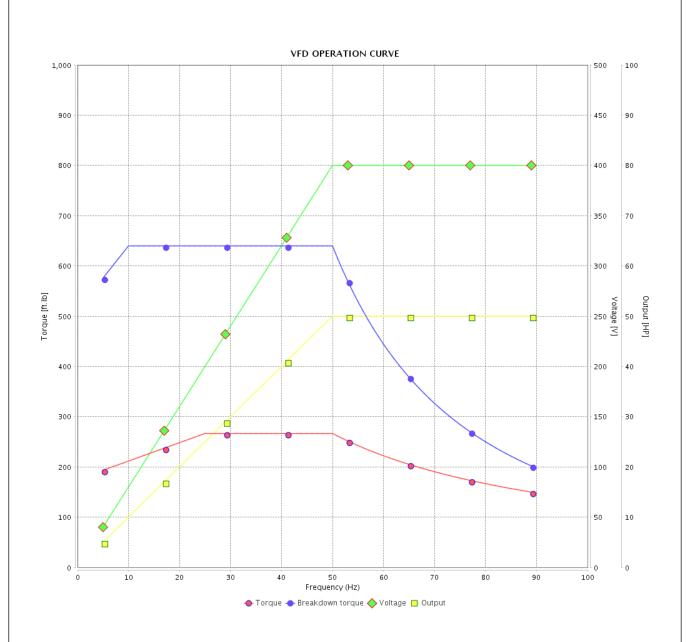
Product code: 11355046

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Revision



Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	lue le	: 66.5 A : 7.3 : 267 ft.lb : 220 % : 240 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	ı class actor	: 36.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

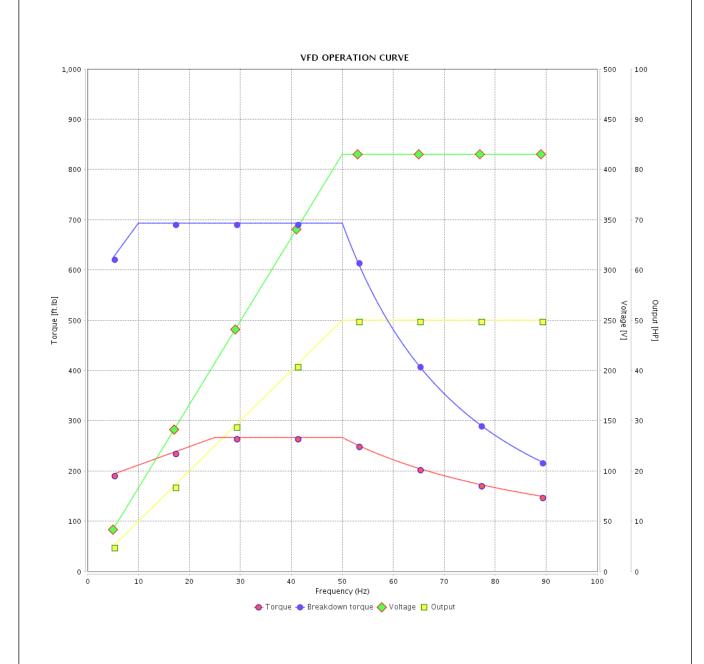


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11355046

Phase

Catalog #: 06012ET3E404T-W22



Performance	. 1	15 V 50 Hz 6P IE3				
renomiance	. 4	15 V 50 HZ 6P IE3				
Rated current	: 64	34.8 A Moment of inert		f inertia (J)	: 36.9 sq.ft.lb	
LRC	: 7.	8	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 20	67 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 22	29 %	Service fa	ctor	: 1.00	
Breakdown torque		60 %	Temperati	Temperature rise		
Rated speed	: 98	B5 rpm Design		: B		
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#### Three Phase Induction Motor - Squirrel Cage



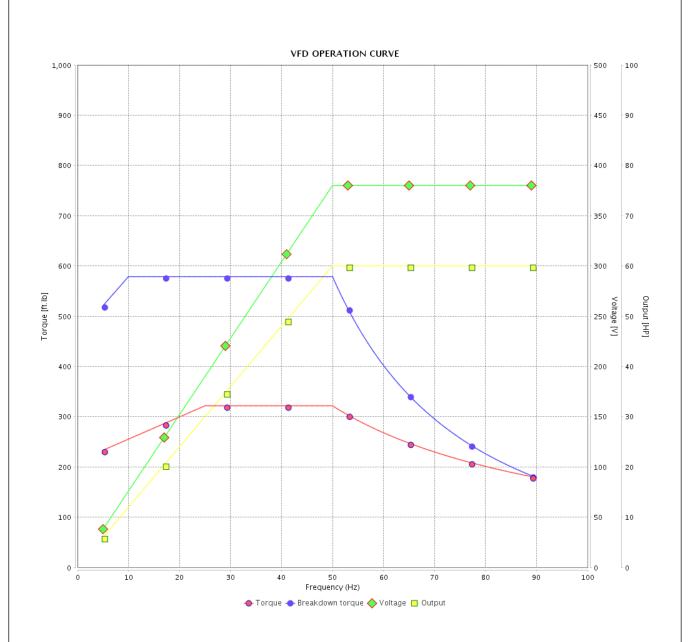
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11355046

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Performance	: 38	80 V 50 Hz 6P IE1				
Rated current		5.1 A	Moment of inertia (J)		: 36.9 sq.ft.lb : Cont.(S1)	
LRC Rated torque	: 5. <sup>1</sup> : 32	o 22 ft.lb		Duty cycle Insulation class		
Locked rotor torqu		50 %		Service factor		
Breakdown torque Rated speed	•		ure rise	: 105 K : B		
Nateu speeu	. 90	о тріті	Design		. Б	
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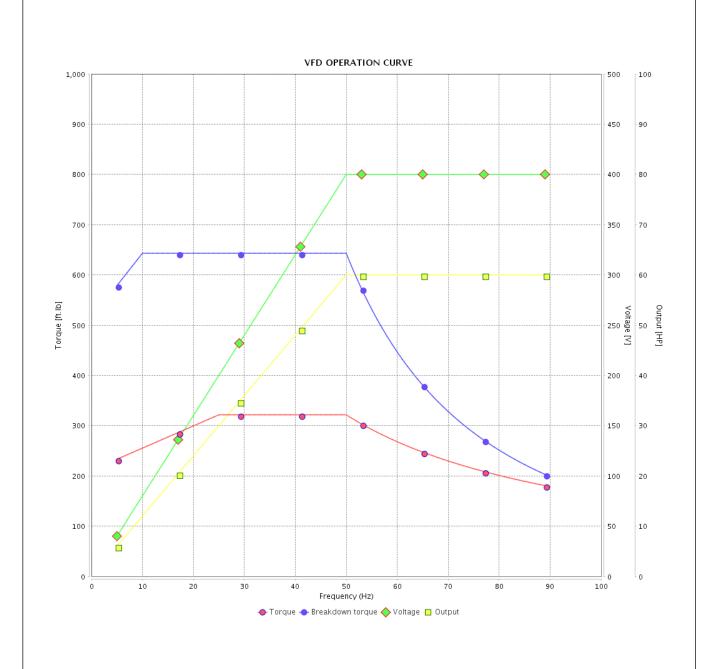
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance		: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque	: 6.	: 80.3 A : 6.2 : 322 ft.lb		of inertia (J)	: 36.9 sq.ft.lb : Cont.(S1) : F	
Locked rotor torq Breakdown torqu	jue : 18	80 % 00 %	Insulation class Service factor Temperature rise		: 1.00 : 105 K	
Rated speed		: 980 rpm		Design		
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Product line : NEMA Premium Efficiency Three-

Phase

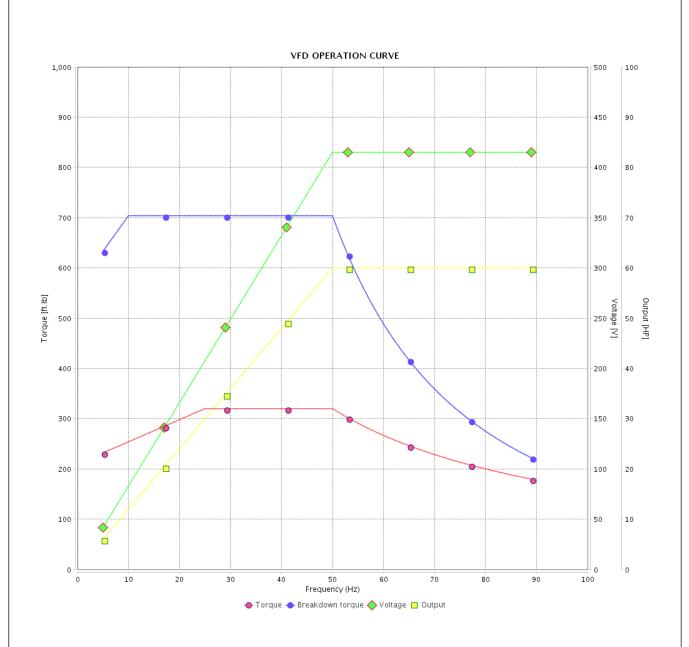
Product code: 11355046

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Performance : 415 V 50 Hz 6P IE2 : 78.3 A Rated current Moment of inertia (J) : 36.9 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 320 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 985 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

