#### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14334992

883

Catalog #: 20012ET3G505-W22

Frame : 504/5T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

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

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 2459 lb Altitude Moment of inertia (J) Protection degree : IP55 : 145 sq.ft.lb

Design : B Output [HP] 200 175 175 175 200 200 200 Poles 6 6 6 6 6 6 6 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 460 380 400 415 380 400 415 Rated current [A] 237 247 284 241 235 271 265 L. R. Amperes [A] 1469 1359 1494 1598 1363 1491 1590 LRC [A] 6.2x(Code 5.5x(Code F) 6.2x(Code | 6.8x(Code H)|4.8x(Code D)|5.5x(Code F)| 6.0x(Code G) G) G) No load current [A] 85.0 81.0 86.0 91.0 81.0 86.0 91.0 Rated speed [RPM] 1190 985 990 990 985 990 990 Slip [%] 1.50 0.83 1.50 1.00 1.00 1.00 1.00

928

928

1070

1060

1060

0.83

Rated torque [ft.lb] Locked rotor torque [%] 220 190 220 240 170 190 210 Breakdown torque [%] 180 229 210 240 250 210 220 Service factor 1.15 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 27s (cold) Locked rotor time 37s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 21s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) Noise level<sup>2</sup> 70.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 25% 94.5 94.4 94.1 94.0 95.3 94.9 94.9 50% 95.0 94.8 94.5 94.4 95.0 95.0 95.0 Efficiency (%) 75% 95.4 95.1 95.1 95.1 95.0 95.0 95.0 100% 94.5 95.8 95.4 95.4 95.4 95.0 95.0 25% 0.46 0.48 0.44 0.42 0.52 0.48 0.46 50% 0.70 0.71 0.67 0.65 0.76 0.72 0.70 Power Factor 75% 0.80 0.82 0.79 0.78 0.83 0.81 0.80

100% 0.83 0.85 0.83 0.82 0.85 0.84 Drive end Non drive end Foundation loads Bearing type 6319 C3 6316 C3 Max. traction : 4370 lb

933

WSeal WSeal Max. compression : 6829 lb Sealing Lubrication interval 13000 h 16000 h Lubricant amount 45 g 34 g

Mobil Polyrex EM

Notes

Lubricant type

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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#### Three Phase Induction Motor - Squirrel Cage



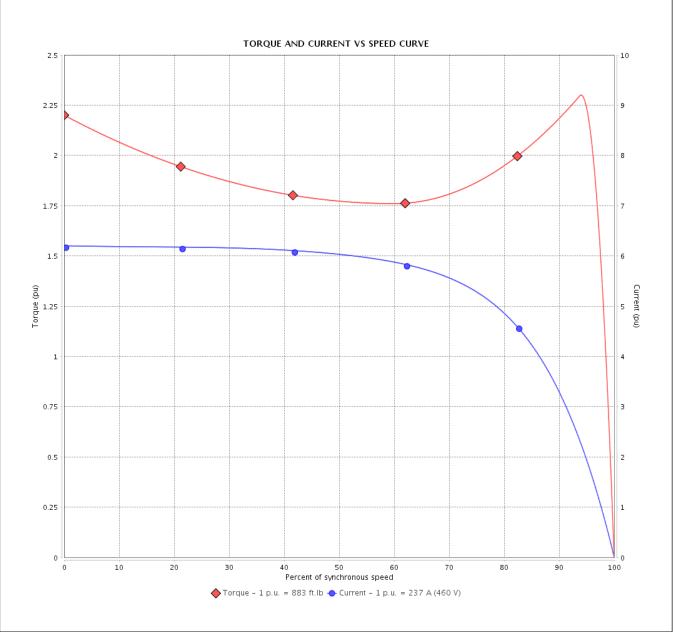
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14334992

Catalog #: 20012ET3G505-W22



Performance : 460 V 60 Hz 6P Rated current : 237 A Moment of inertia (J) : 145 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : F : 883 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 220 % : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1190 rpm Design : B

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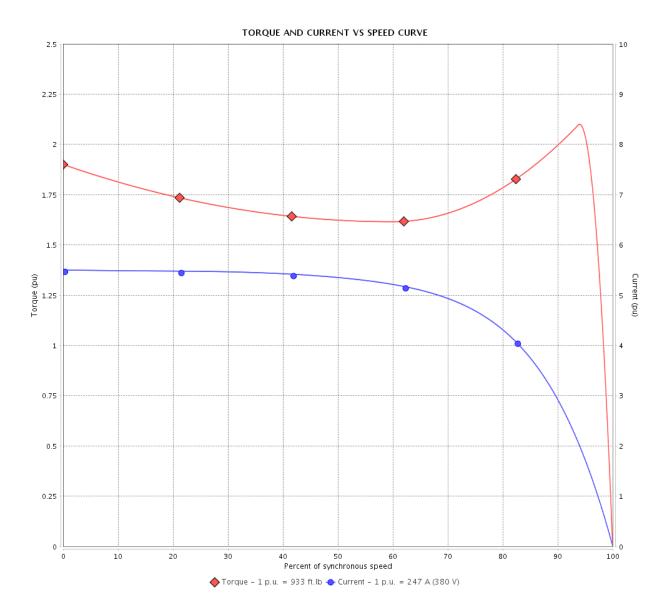
#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14334992

Catalog # : 20012ET3G505-W22



Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 247 A	Moment of inertia (J)	: 145 sq.ft.lb	
LRC	: 5.5	Duty cycle	: Cont.(S1)	
Rated torque	: 933 ft.lb	Insulation class	: F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	

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#### Three Phase Induction Motor - Squirrel Cage



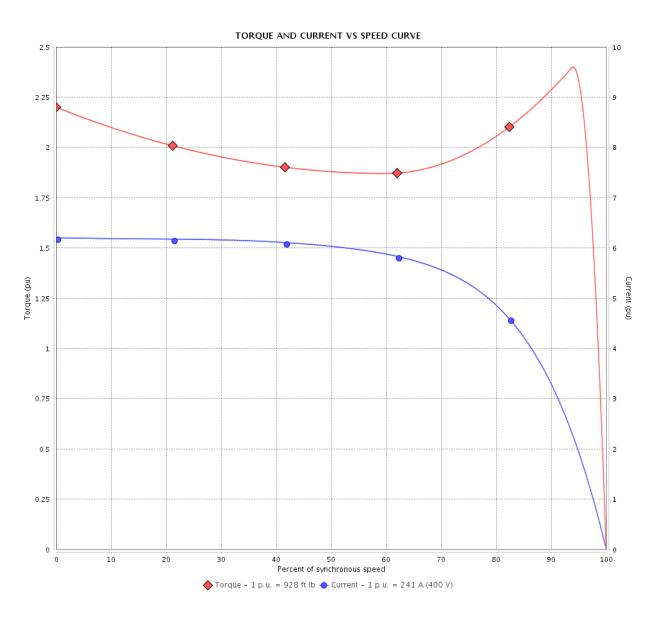
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14334992

Catalog #: 20012ET3G505-W22



Performance : 400 V 50 Hz 6P IE3 Rated current : 241 A Moment of inertia (J) : 145 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : F : 928 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : B : 990 rpm Design

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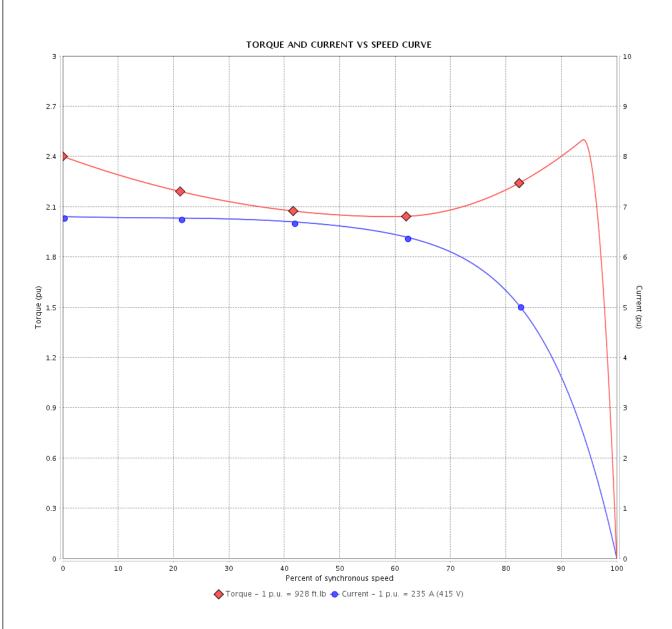


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14334992

Phase

Catalog #: 20012ET3G505-W22



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 235 A	Moment of inertia (J)	: 145 sq.ft.lb	
LRC	: 6.8	Duty cycle	: Cont.(S1)	
Rated torque	: 928 ft.lb	Insulation class	:F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 990 rpm	Design	: B	

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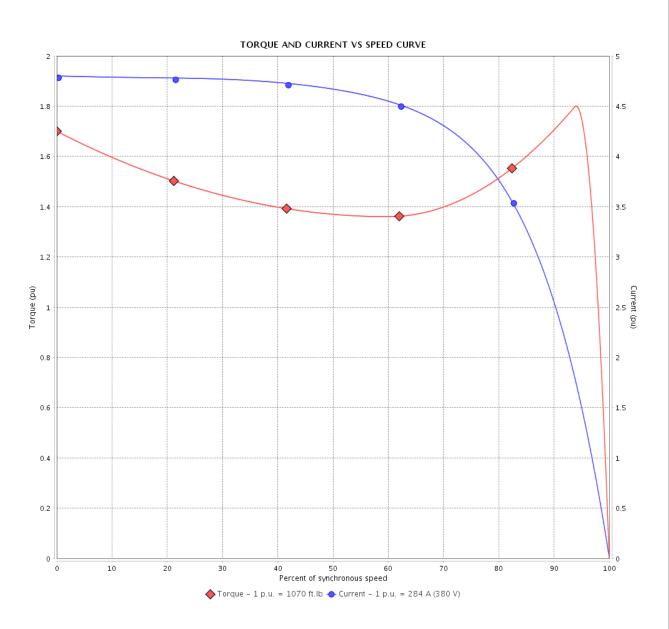
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14334992

Catalog #: 20012ET3G505-W22



Performance	: 380 V 50 Hz 6P IE1			
Rated current	: 284 A	Moment of inertia (J)	: 145 sq.ft.lb	
LRC	: 4.8	Duty cycle	: Cont.(S1)	
Rated torque	: 1070 ft.lb	Insulation class	:F	
Locked rotor torque	: 170 %	Service factor	: 1.00	
Breakdown torque	: 180 %	Temperature rise	: 105 K	
Rated speed	: 985 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			

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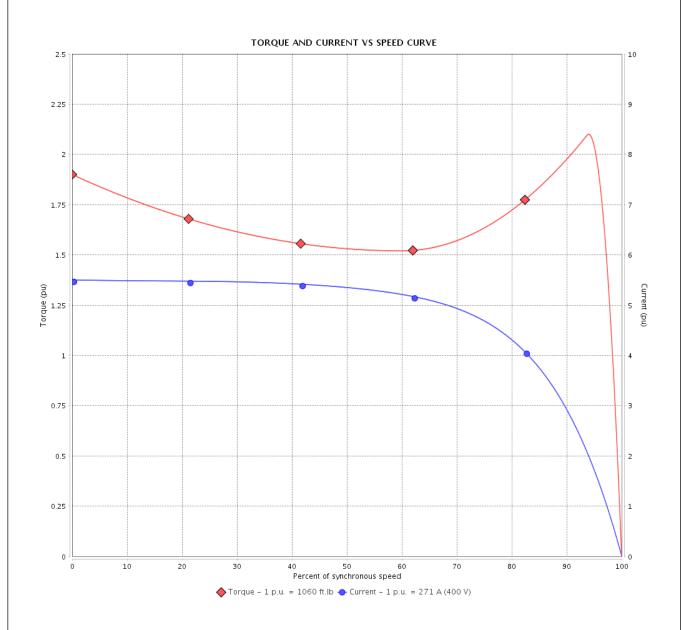
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14334992

Catalog #: 20012ET3G505-W22



Performance	: 400 V 50 Hz 6P IE2		
Rated current	: 271 A	Moment of inertia (J)	: 145 sq.ft.lb
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 1060 ft.lb	Insulation class	:F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 990 rpm	Design	: B
Locked rotor time	· 27s (cold) 15s (hot)		

LOCKCU TOLOT LITT	. 2	73 (cold) 103 (flot)			
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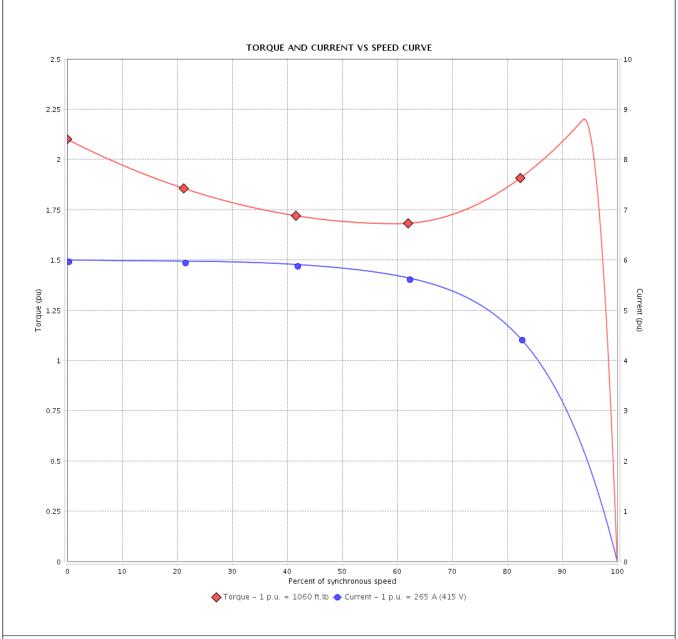
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 20012ET3G505-W22

14334992



Performance : 415 V 50 Hz 6P IE2

Rated current : 265 A
LRC : 6.0
Rated torque : 1060 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 220 %
Rated speed : 990 rpm

Moment of inertia (J) : 145 sq.ft.lb

Duty cycle : Cont.(S1)

Insulation class : F

Service factor : 1.00 Temperature rise : 105 K Design : B

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Customer

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Date

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Product line : NEMA Premium Efficiency Three- Product code : 14334992

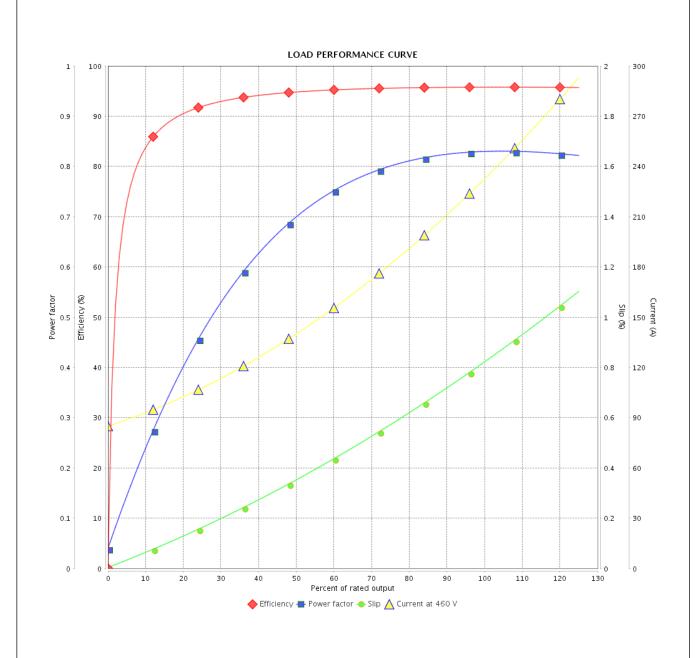
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Performance	: 460 V 60 Hz 6P	,			
LRC : 6.2 Rated torque : 883 ft.lb Locked rotor torque : 220 % Breakdown torque : 229 %		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

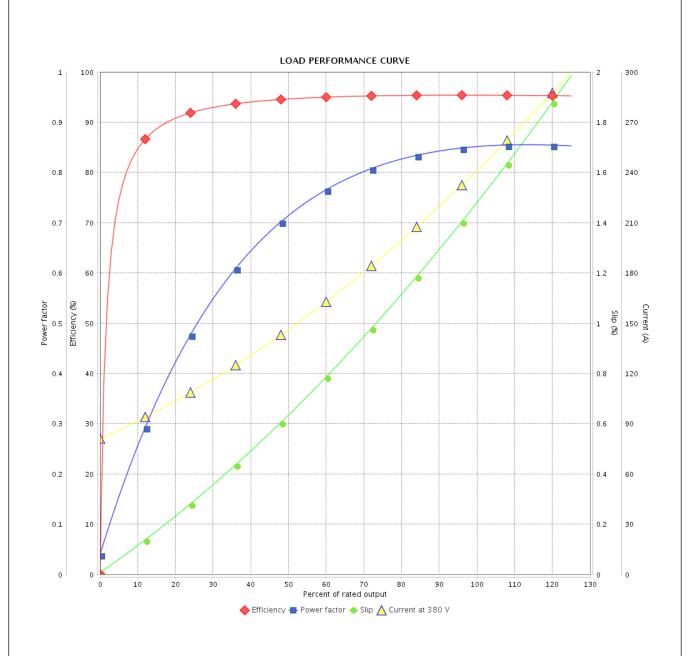


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14334992

Phase

Catalog # : 20012ET3G505-W22



Performance : 380 V 50 Hz 6P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 247 A : 5.5 : 933 ft.lb : 190 % : 210 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 985 rpm	Design		: B	
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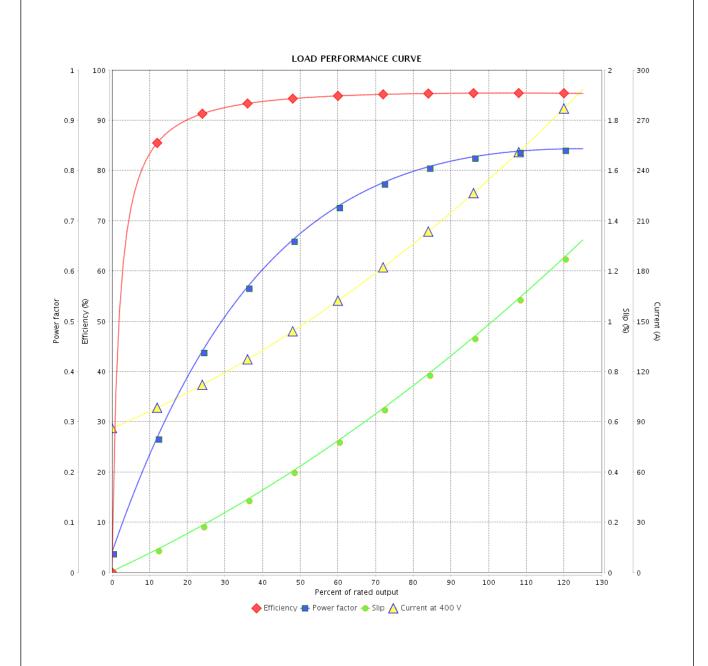
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14334992

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Performance	mance : 400 V 50 Hz 6P IE3					
Rated current		241 A	41 A Moment of inertia (J)		: 145 sq.ft.lb	
LRC		3.2	Duty cycle	)	: Cont.(S1)	
Rated torque		928 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	220 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	240 %	Temperature rise		: 80 K	
Rated speed	: 9	990 rpm	Design		: B	
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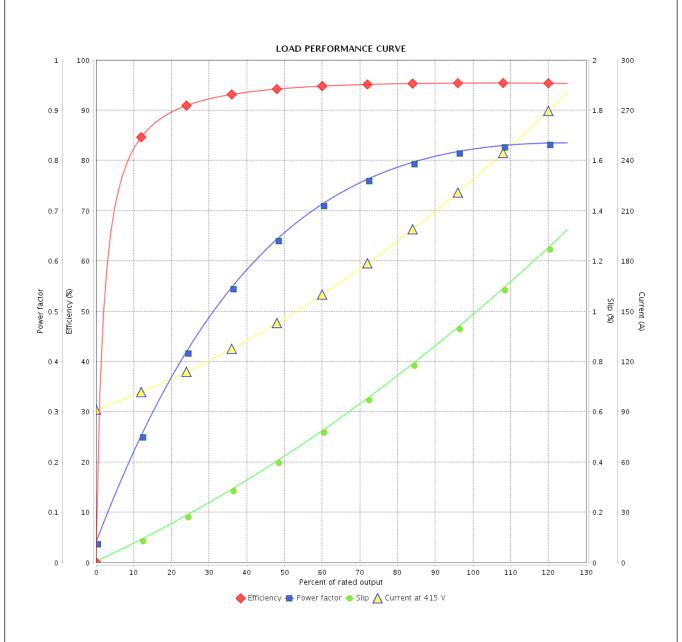
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Performance	:	: 415 V 50 Hz 6P	IE3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: que :	235 A 6.8 928 ft.lb 240 % 250 % 990 rpm	Moment Duty cyc Insulation Service f Tempera Design	n class actor	: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

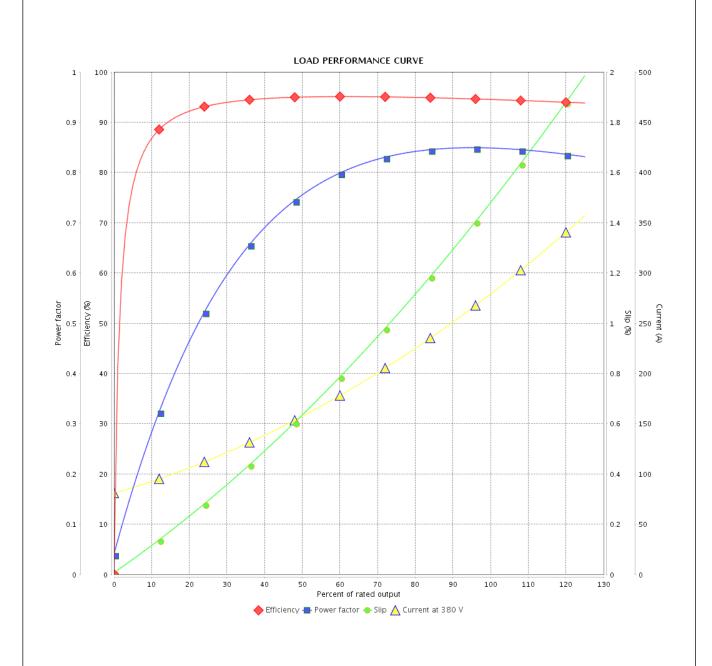


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14334992

Phase

Catalog #: 20012ET3G505-W22



Performance	:	380 V 50 Hz 6P IE1	30 V 50 Hz 6P IE1			
Rated current : 284 A		Moment o	f inertia (J)	: 145 sq.ft.lb		
LRC	:	4.8	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque		1070 ft.lb	Insulation	class	: F	
Locked rotor torque		170 %	Service fa	ctor	: 1.00	
Breakdown torque	:	180 %	Temperati	ıre rise	: 105 K	
Rated speed	:	985 rpm Design			: B	
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#### Three Phase Induction Motor - Squirrel Cage

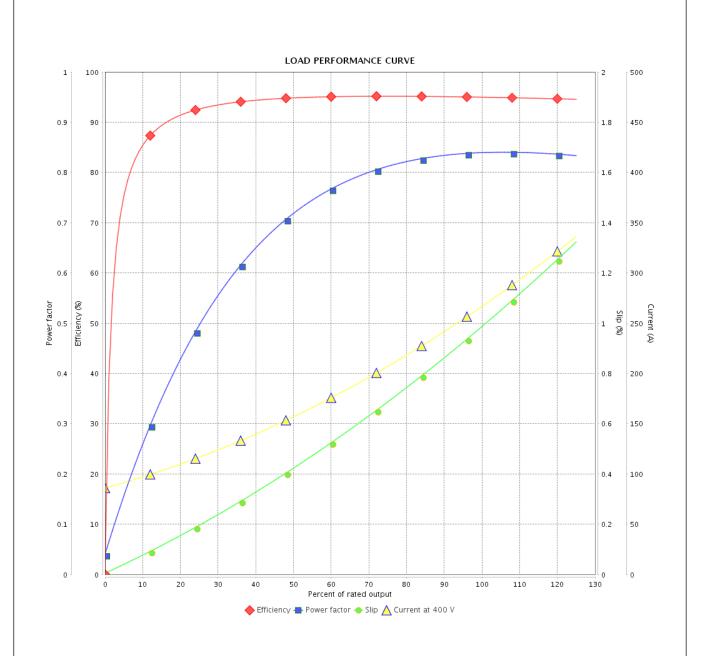


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14334992

Phase

Catalog # : 20012ET3G505-W22



Performance : 400 V 50 Hz 6P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 271 A : 5.5 : 1060 ft.lb : 190 % : 210 % : 990 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

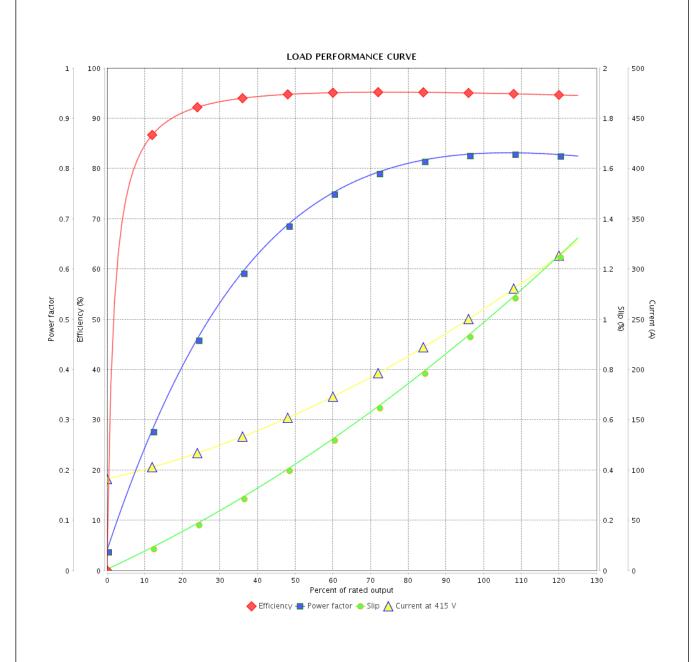


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14334992

Phase

Catalog #: 20012ET3G505-W22



Performance	: 4	115 V 50 Hz 6P IE2				
Rated current	ated current : 265 A		Moment o	f inertia (J)	: 145 sq.ft.lb	
LRC	: 6	3.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:1	1060 ft.lb	Insulation	class	: F	
Locked rotor torque : 210 %		Service fa	ctor	: 1.00		
Breakdown torque	: 2	220 % Temperature rise Design		ıre rise	: 105 K	
Rated speed	: 9				: B	
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### Three Phase Induction Motor - Squirrel Cage

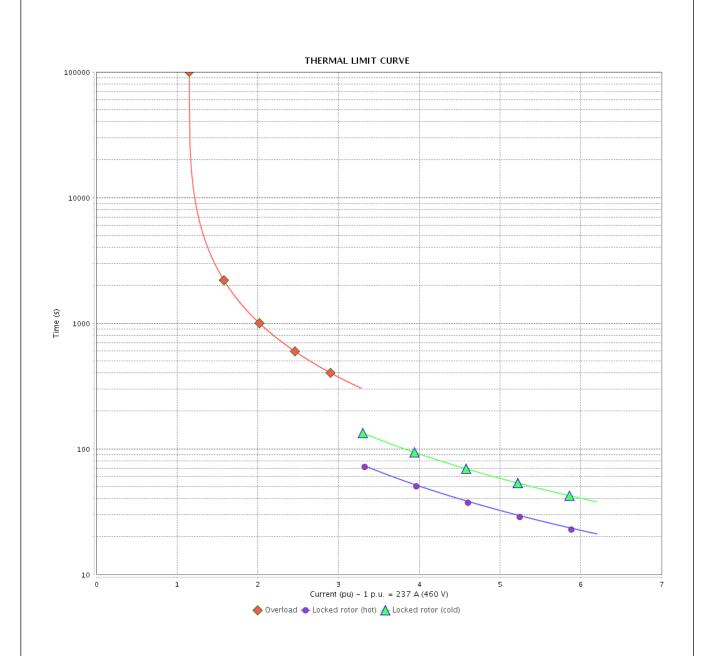


Customer	:				
Product line	: NEMA Premium Effic Phase		Product code : Catalog # :	14334992 20012ET3G5	05-W22
D (					
Performance Rated current	: 460 V 60 Hz 6P : 237 A	Moment	of inertia (J)	: 145 sq.ft.lb	
LRC	: 6.2	Duty cycle	е	: Cont.(S1)	
Rated torque	: 883 ft.lb : 220 %	Insulation Service fa		: F : 1.15	
Locked rotor torque Breakdown torque	: 220 % : 229 %	Temperat		: 1.15 : 80 K	
Rated speed	: 1190 rpm	Design		: B	
Heating constant					
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

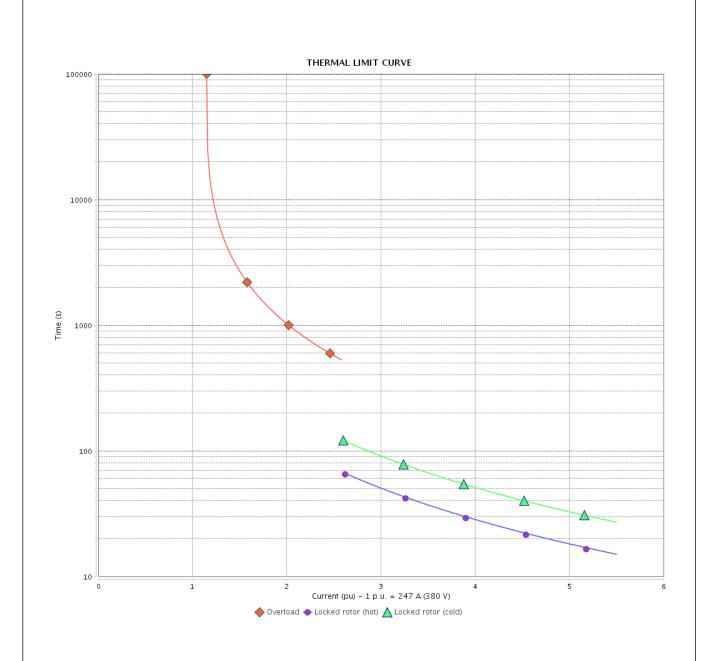


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Customer	•				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	14334992	
	1 11000	(	Catalog # :	20012ET3G5	05-W22
Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 247 A : 5.5 : 933 ft.lb : 190 % : 210 %	Duty cycle Insulation Service fa Temperatu	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 985 rpm	Design		: B	
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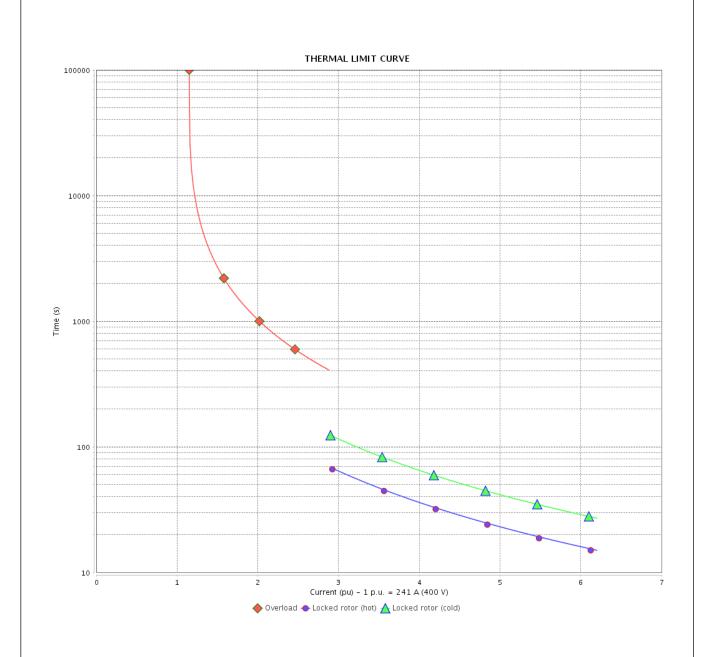


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Product line		NEMA Premium Efficiency hase		Product code :	14334992 20012ET3G5	05-W22
Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 24 : 6. : 92 yue : 22 ie : 24	41 A	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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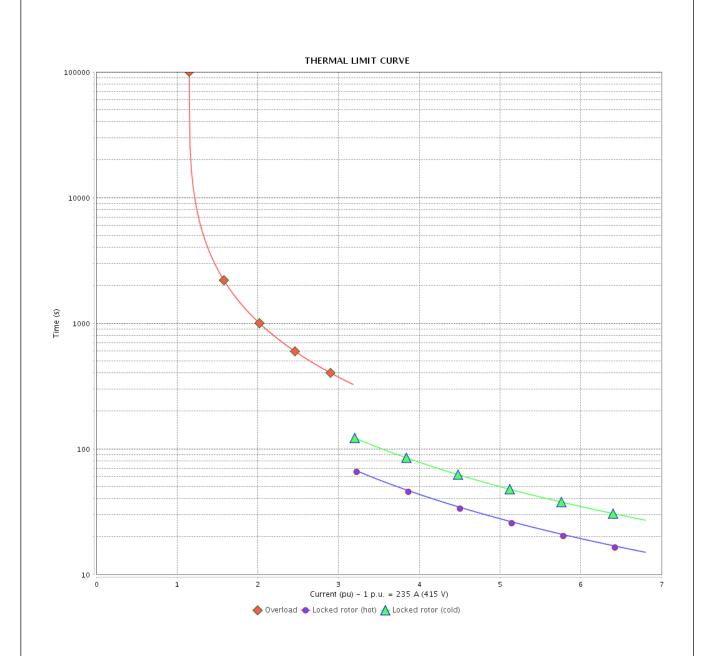


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14334992 20012ET3G5	05-W22
Performance		: 415 V 50 Hz 6P IE3				
Rated current		: 235 A	Moment of	of inertia (J)	: 145 sq.ft.lb	
LRC		: 6.8	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		: 928 ft.lb : 240 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 250 %	Temperat		: 80 K	
Rated speed		: 990 rpm	Design		: B	
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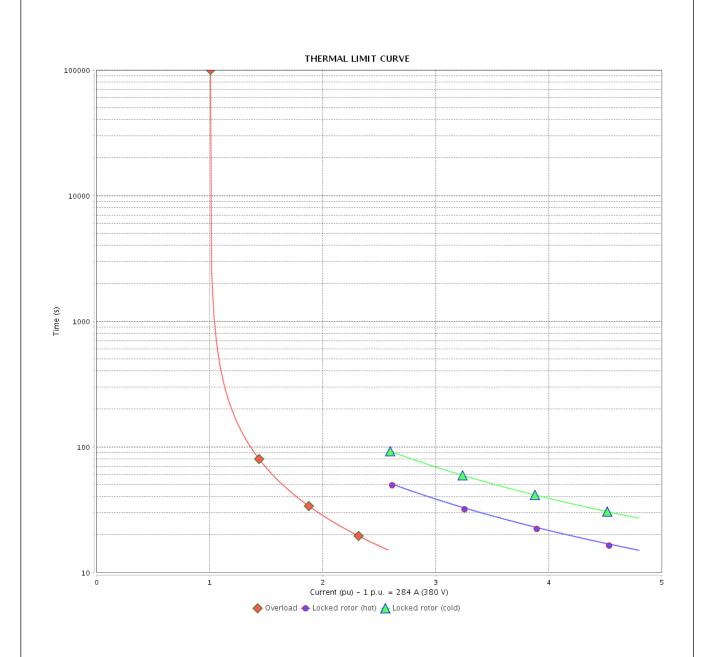


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	14334992	
		(	Catalog # :	20012ET3G5	05-W22
Performance	: 380 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 284 A : 4.8 : 1070 ft.lb : 170 % : 180 % : 985 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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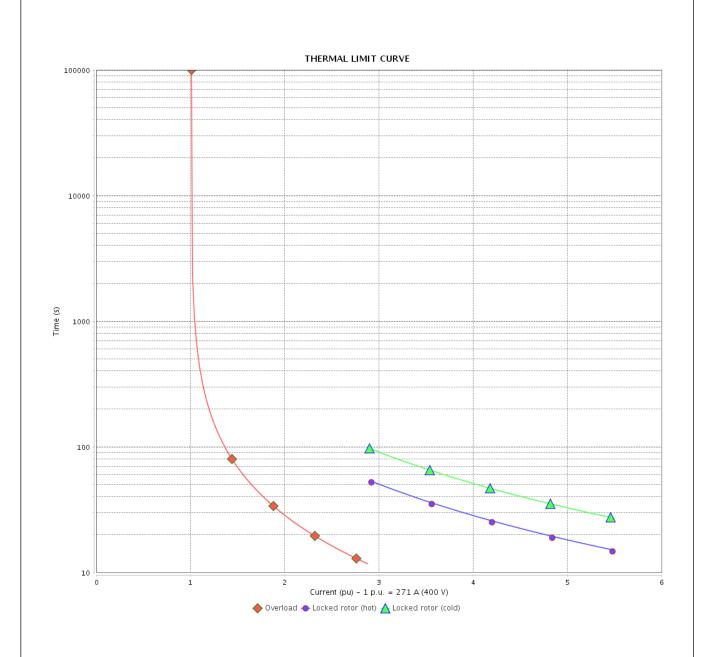


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Customer	:			
Product line	: NEMA Premium Efficiency Phase		14334992	
		Catalog #:	20012ET3G505-\	N22
Performance	: 400 V 50 Hz 6P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 271 A : 5.5 : 1060 ft.lb : 190 % : 210 % : 990 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Heating constant Cooling constant				
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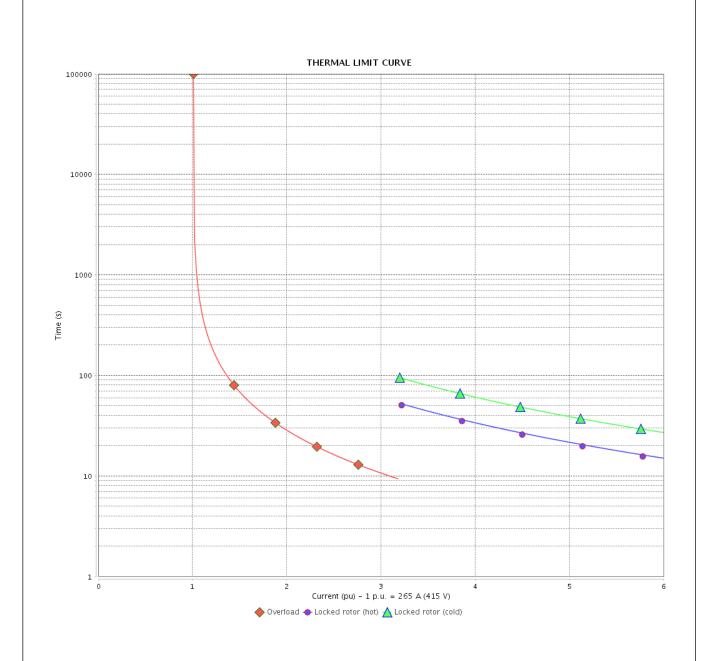


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14334992 20012ET3G50	05-W22
Performance		: 415 V 50 Hz 6P IE2	Mamanta	of in autic ( I)	. 445 an # 15	
Rated current LRC		: 265 A : 6.0	Duty cycle		: 145 sq.ft.lb : Cont.(S1)	
Rated torque		: 1060 ft.lb : 210 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		: 210 % : 220 %	Temperat		: 1.00 : 105 K	
Rated speed		: 990 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

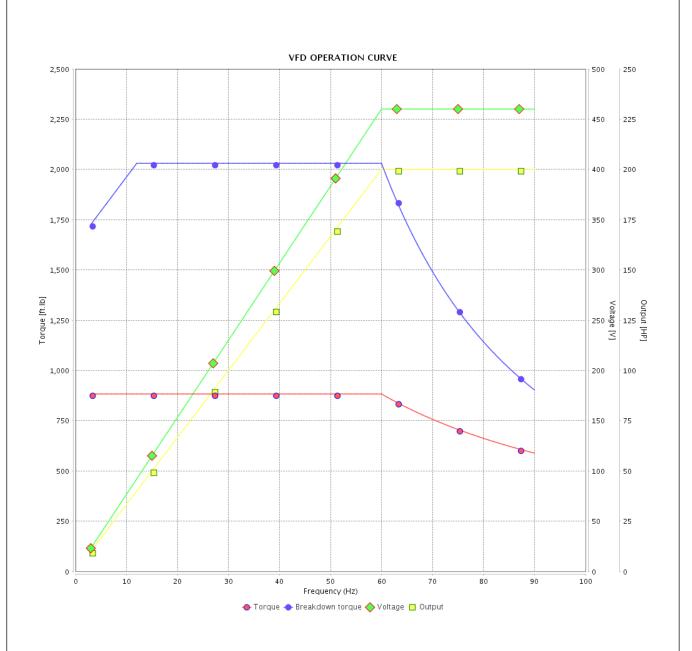
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14334992

Catalog #: 20012ET3G505-W22



Performance : 460 V 60 Hz 6P : 237 A Rated current Moment of inertia (J) : 145 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 : 883 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1190 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

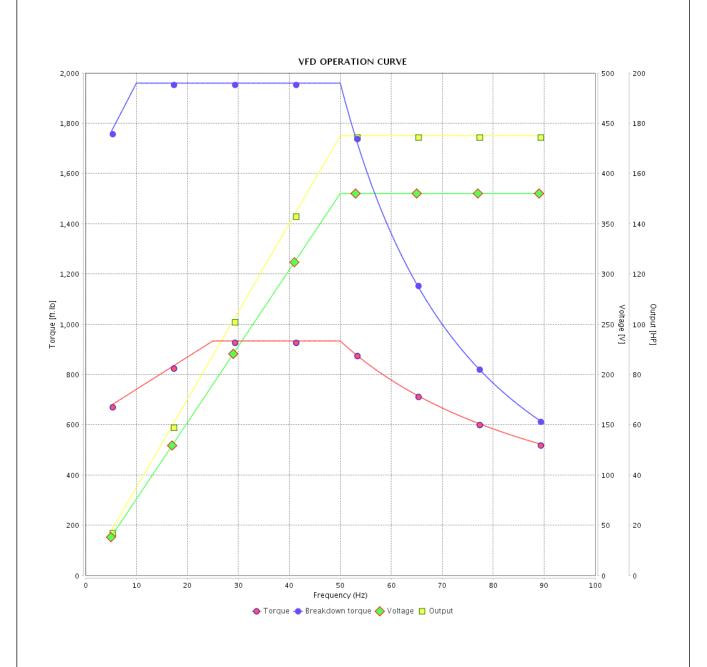


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14334992

Phase

Catalog #: 20012ET3G505-W22



Performance	: 3	80 V 50 Hz 6P IE3				
Rated current	: 2	47 A	Moment o	f inertia (J)	: 145 sq.ft.lb	
LRC	: 5	.5	Duty cycle	!	: Cont.(S1)	
Rated torque	: 9	33 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	90 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	10 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 9	85 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : NEMA Premium Efficiency Three- Produc

Phase

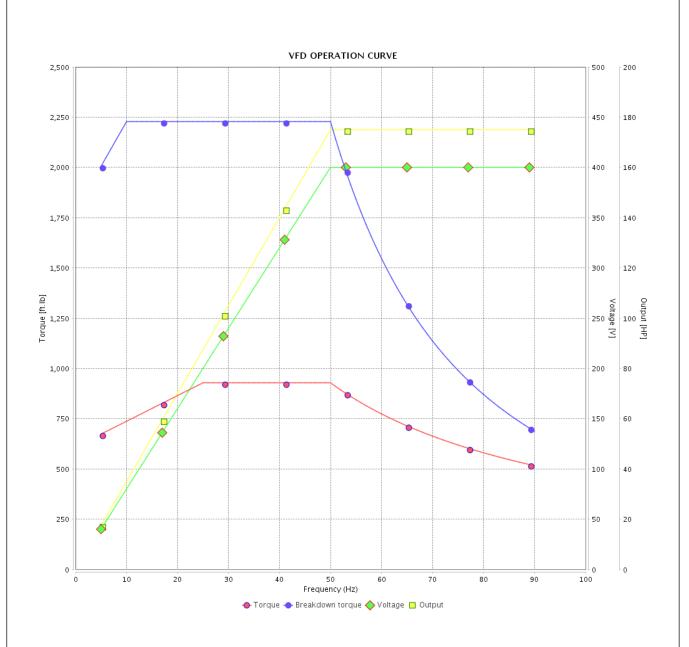
Product code: 14334992

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Revision



Performance		: 400 V 50 Hz 6	P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ie	: 241 A : 6.2 : 928 ft.lb : 220 % : 240 % : 990 rpm		Moment of Duty cycle Insulation Service fa Temperatu	class ctor	: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Su	ummary		Performed	Checked	Date
Performed by							

#### Three Phase Induction Motor - Squirrel Cage



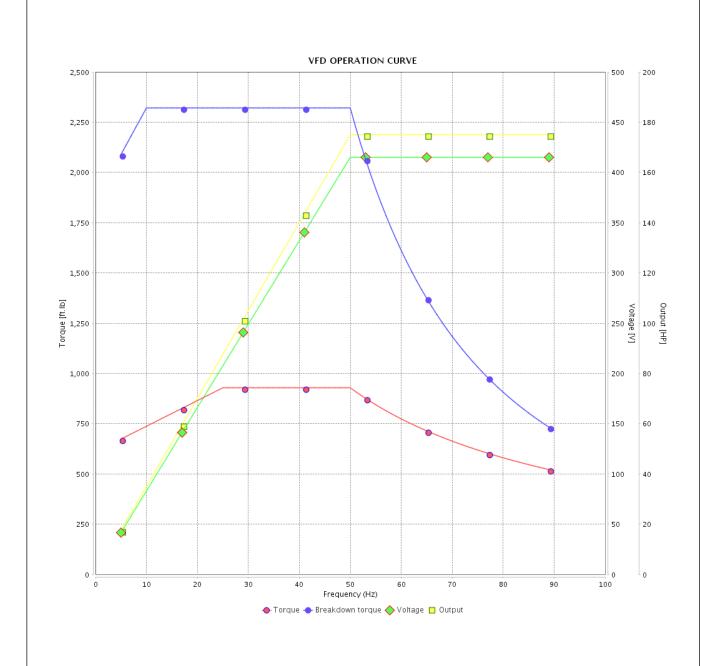
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code : 14334992

Catalog #: 20012ET3G505-W22



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current LRC Rated torque	: 6 : 9:	28 ft.lb Insulation class		Duty cycle Insulation class		
Locked rotor tord Breakdown torqu Rated speed	ie : 2	40 % 50 % 90 rpm	Service fa Temperati Design		: 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

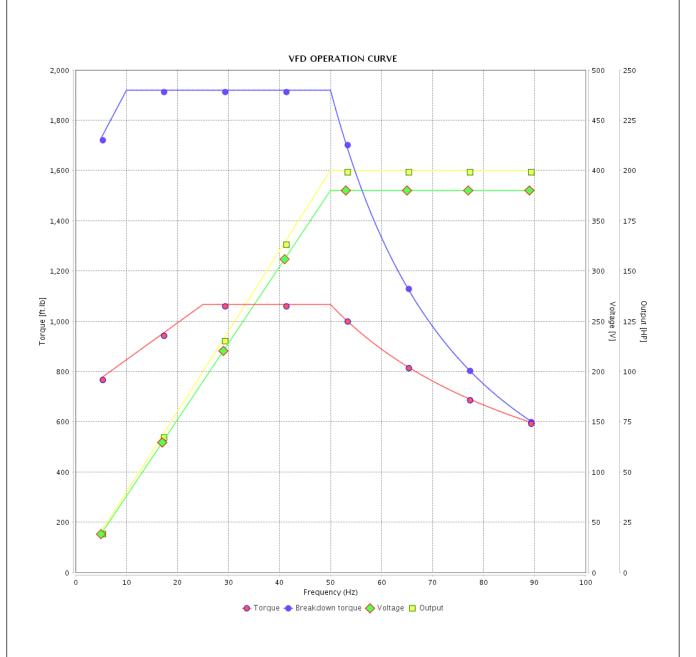


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14334992

Phase

Catalog # : 20012ET3G505-W22



Performance : 380 V 50 Hz 6P IE1					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 284 A : 4.8 : 1070 ft.lb : 170 % : 180 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

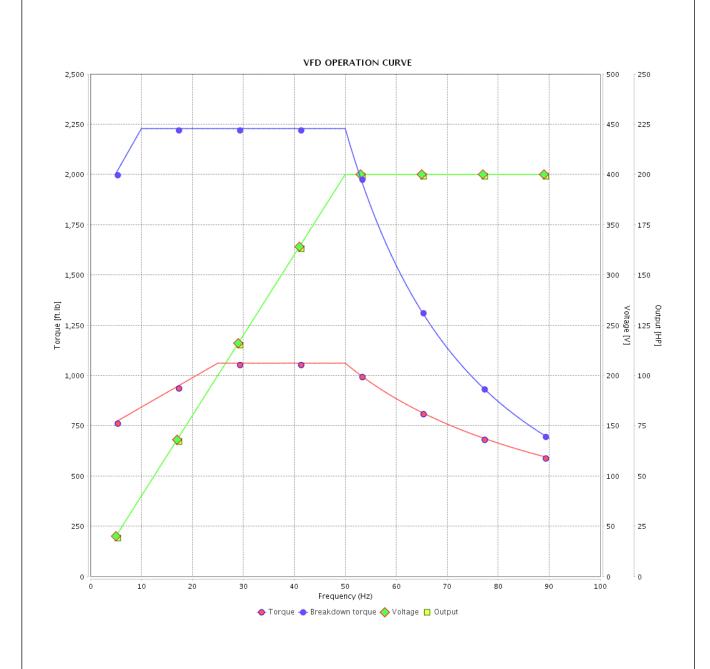


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14334992

Phase

Catalog #: 20012ET3G505-W22



Performance	: 4	00 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5 : 1 e : 1 : 2	71 A .5 060 ft.lb 90 % 10 % 90 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

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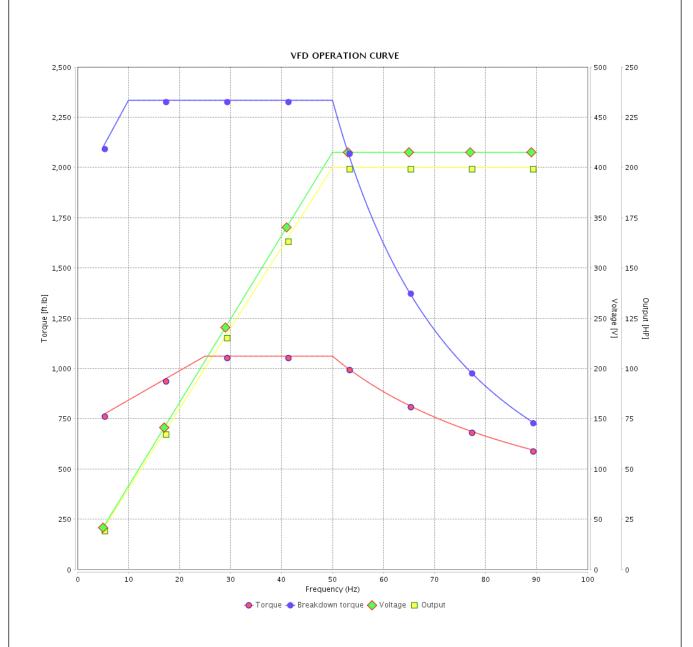
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Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 14334992

Catalog # : 20012ET3G505-W22



Performance	: 415 V 50 Hz 6P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 265 A : 6.0 : 1060 ft.lb : 210 % : 220 % : 990 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 145 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
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