DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14333167

Phase

Catalog #: 06012ET3E404JP-W22

Frame : 404/5JP 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 : 1036 lb

: 36.9 sq.ft.lb Protection degree : IP55 Moment of inertia (J) 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] 230/460 400 380 400 380 415 415 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 LRC [A] 6.7x(Code 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 2.00 Slip [%] 1.25 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 level² 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

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

0.86

0.85

Bearing type : 6314 C3 6314 C3 | Max. traction : 1594 lb Sealing : Lip Seal Lip Seal Max. compression : 2630 lb

0.87

Lubrication interval : 17000 h 17000 h Lubricant amount : 27 g 27 g Lubricant type : Mobil Polyrex EM

0.86

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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Three Phase Induction Motor - Squirrel Cage



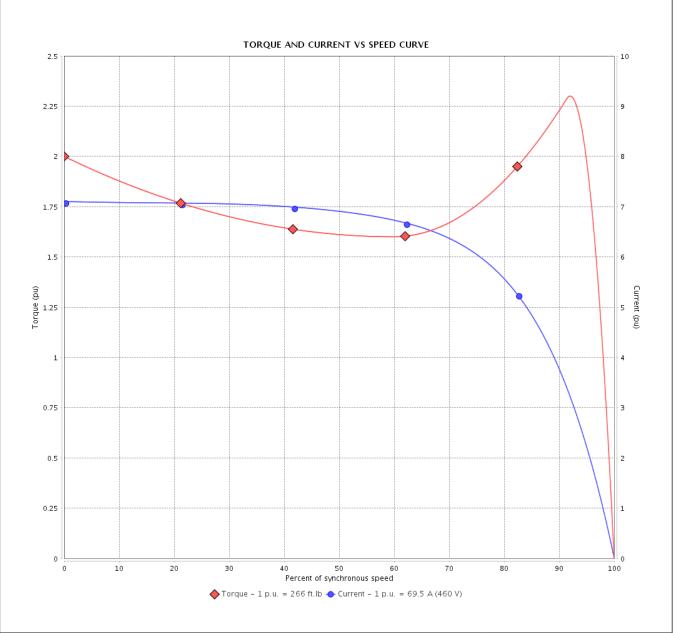
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14333167

Catalog #: 06012ET3E404JP-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 : 1185 rpm Design : B

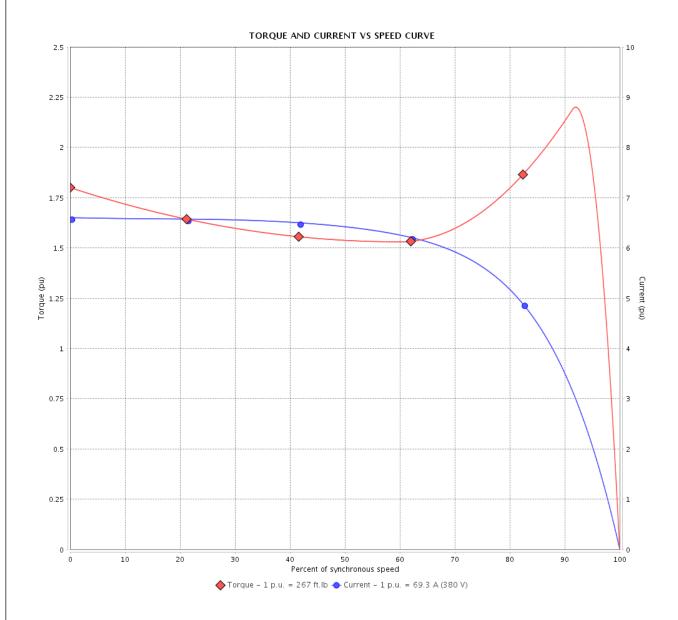
Locked rotor time : 36s (cold) 20s (hot)

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Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14333167 Catalog #: 06012ET3E404JP-W22



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) : 267 ft.lb Insulation class : F Rated torque : 1.00 Locked rotor torque : 180 % Service factor : 80 K Breakdown torque : 220 % Temperature rise : B Rated speed : 985 rpm Design Locked rotor time : 28s (cold) 16s (hot)

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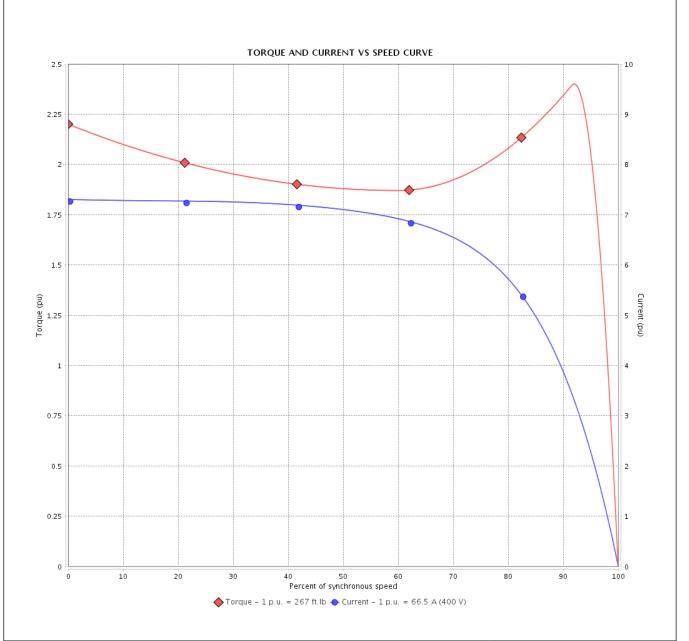
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 06012ET3E404JP-W22

14333167



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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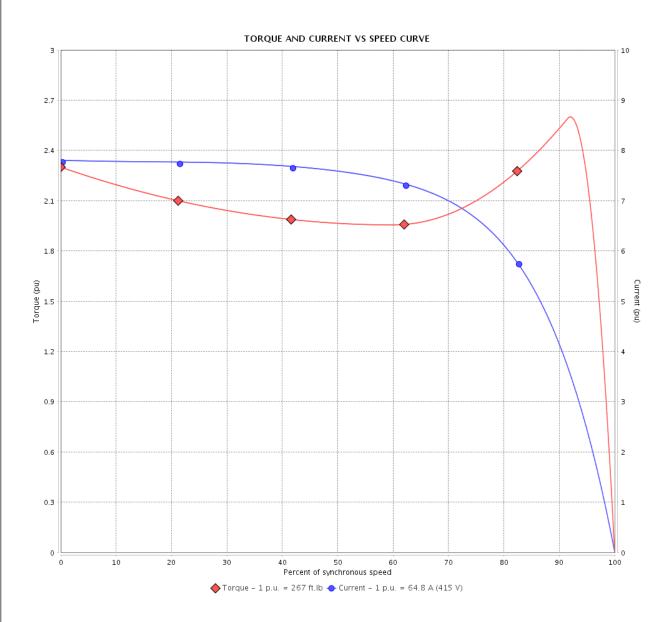
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Customer Product line

: NEMA Premium Efficiency Three-Product code: 14333167

> Catalog #: 06012ET3E404JP-W22



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)	
Rated torque	: 267 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	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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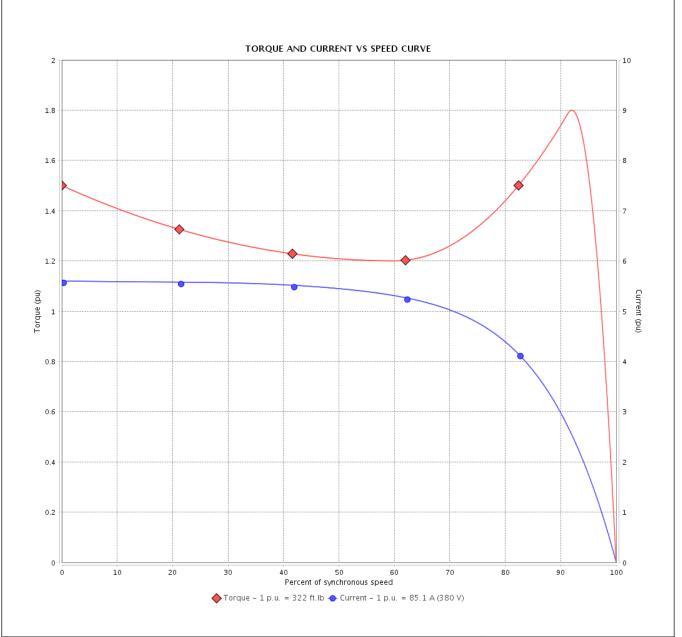


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Product line : NEMA Premium Efficiency Three- Product code : 14333167

Phase

Catalog #: 06012ET3E404JP-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) Insulation class Rated torque : 322 ft.lb : 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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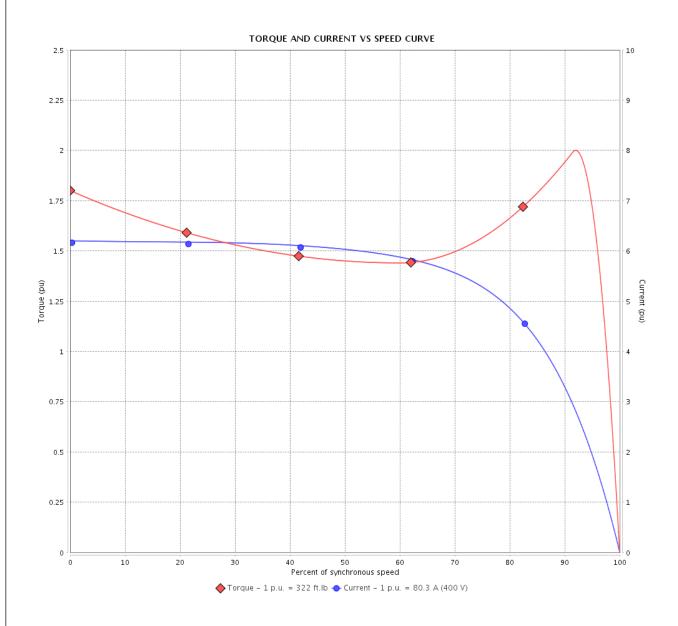
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 14333167

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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)			

LOCKEU TOLOT LITTLE	. 20	os (cola) Tos (Hot)			
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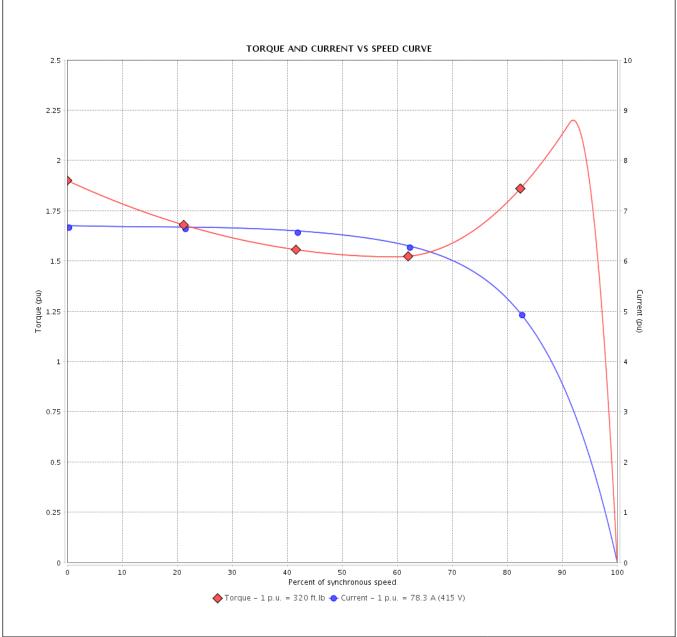
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14333167

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Performance : 415 V 50 Hz 6P IE2 Rated current : 78.3 A 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

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

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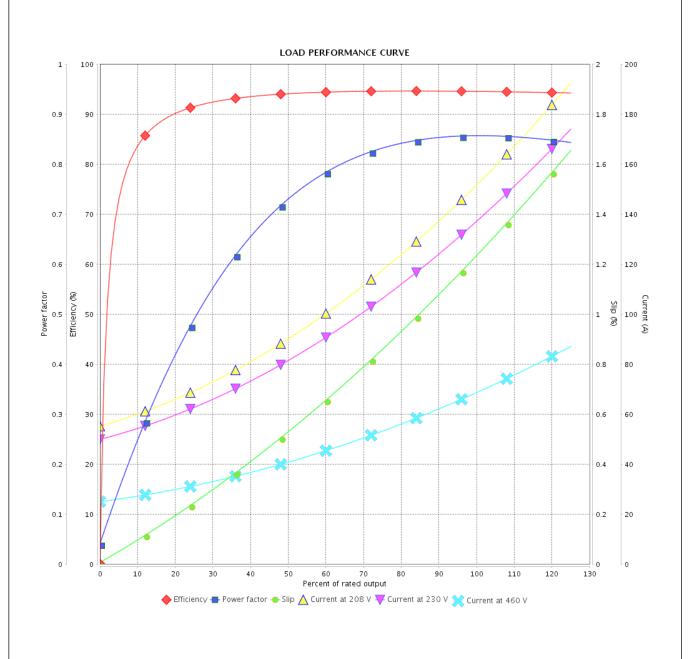
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	:	230/460 V 60 Hz 6P				
Rated current	:	139/69.5 A	Moment o	f inertia (J)	: 36.9 sq.ft.lb	
LRC	:	7.1	Duty cycle)	: Cont.(S1)	
Rated torque	:	266 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	200 %	Service fa	ctor	: 1.25	
Breakdown torque	:	229 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1185 rpm	Design		: B	
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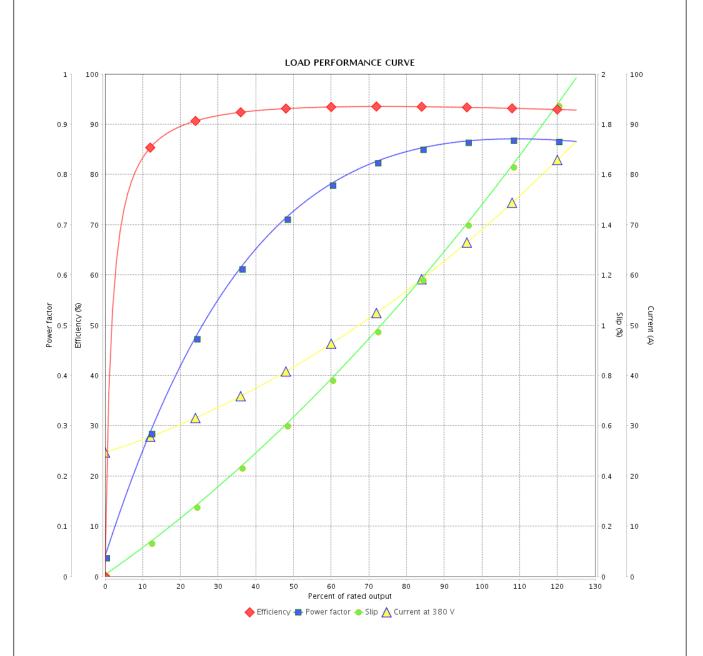
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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycl Insulation Service for Temperat Design	n class actor	: 36.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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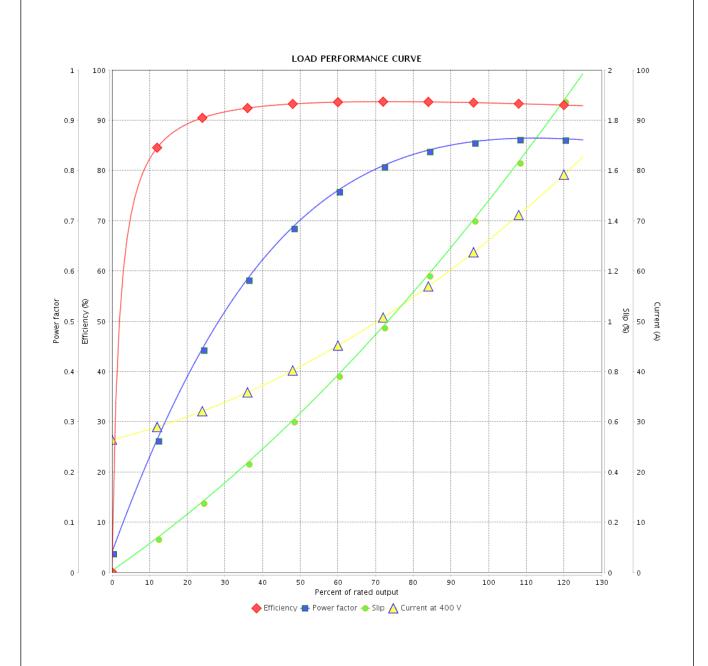
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Product line : NEMA Premium Efficiency Three-Product code: 14333167

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Performance	: 4	100 V 50 Hz 6P IE3				
Rated current	: 6	66.5 A	Moment o	f inertia (J)	: 36.9 sq.ft.lb	
LRC		7.3	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	267 ft.lb	Insulation	class	: F	
Locked rotor torque		220 %	Service fa	ctor	: 1.00	
Breakdown torqu	ue : 2	240 %	Temperature rise		: 80 K	
Rated speed	: 9	85 rpm Design			: B	
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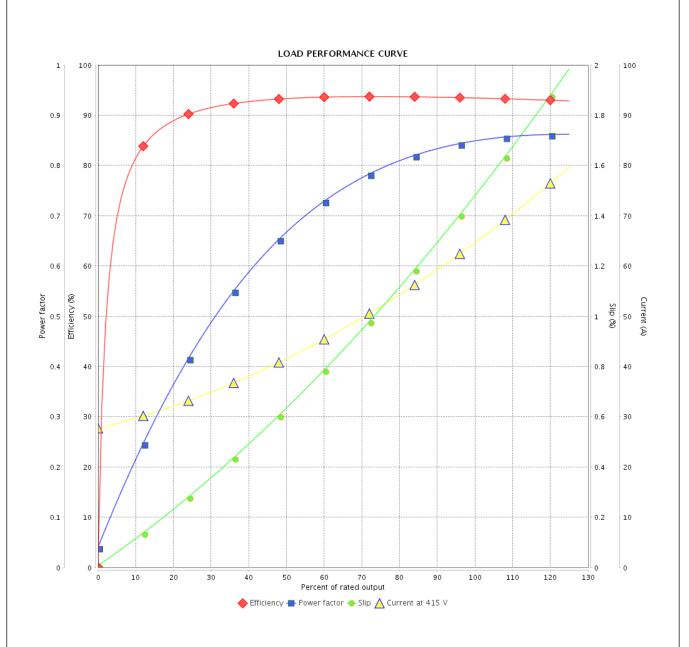
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				1	
Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC			a (J)	: 36.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 267 ft.lb : 229 %	Insulation class Service factor		: F : 1.00	
Breakdown torque : 260 % Rated speed : 985 rpm		Temperature rise Design		: 80 K : B	
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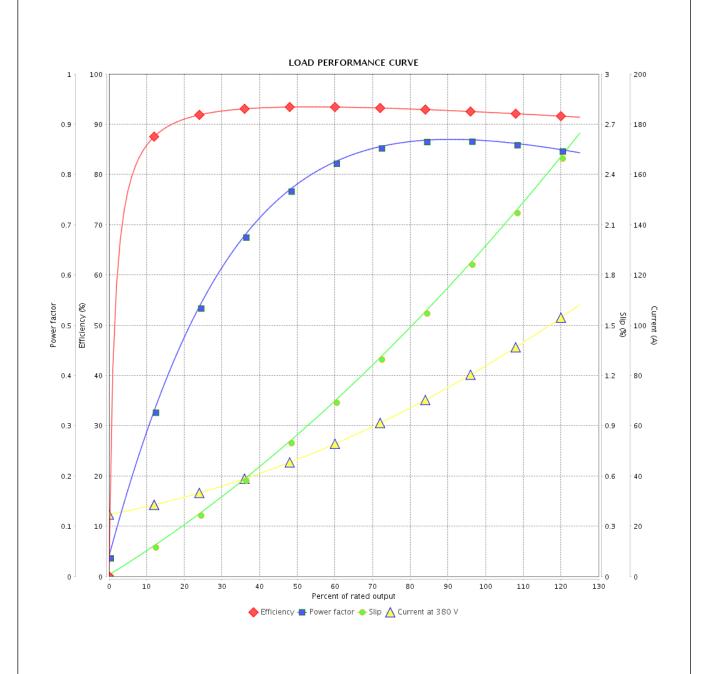


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Product line : NEMA Premium Efficiency Three- Product code : 14333167

Phase

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Performance	: 3	80 V 50 Hz 6P IE1				
Rated current	: 8	5.1 A	Moment o	f inertia (J)	: 36.9 sq.ft.lb	
LRC	: 5	.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	22 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1:	50 %	Service fa	ctor	: 1.00	
		80 %	Temperature rise		: 105 K	
Rated speed	: 9	30 rpm	Design		: B	
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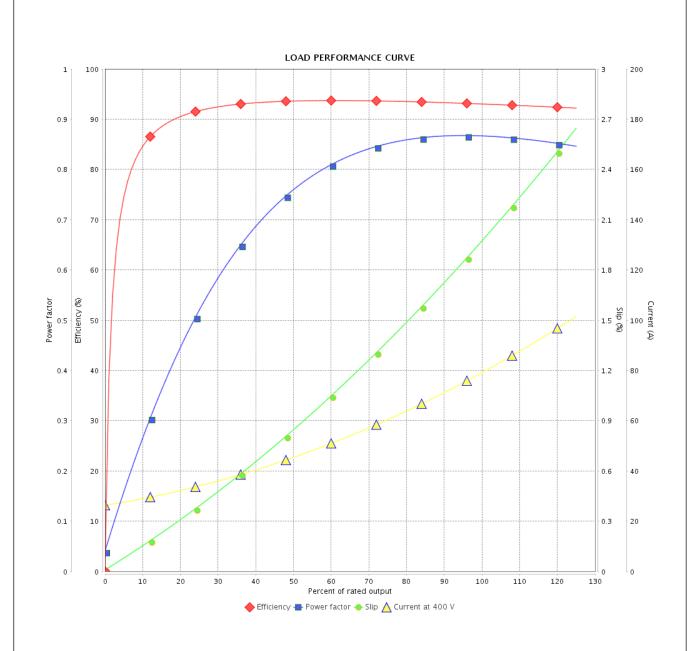
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Performance	: 400 V 50 Hz 6P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 80.3 A : 6.2 : 322 ft.lb : 180 % : 200 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 36.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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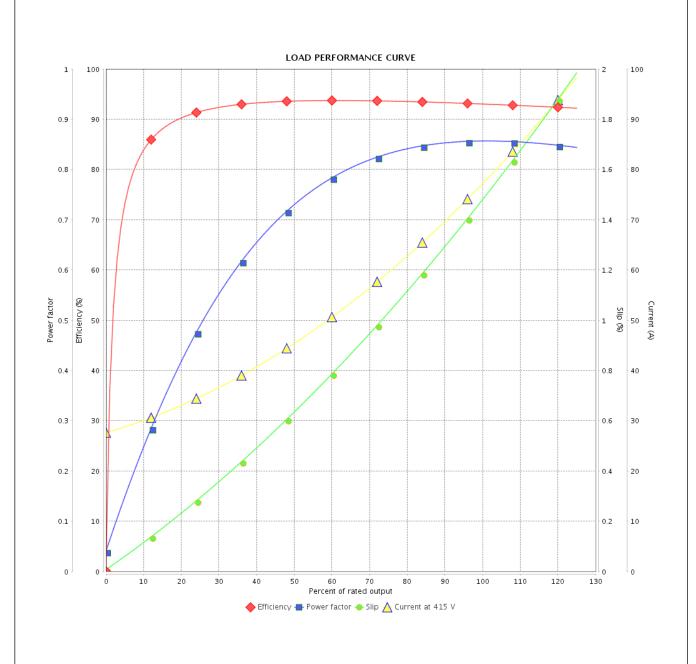


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14333167

Phase

Catalog # : 06012ET3E404JP-W22



Performance	: 4	415 V 50 Hz 6P IE2				
Rated current	:	78.3 A	Moment o	f inertia (J)	: 36.9 sq.ft.lb	
LRC	: (6.7	Duty cycle	}	: Cont.(S1)	
Rated torque	: ;	320 ft.lb	Insulation	class	: F	
Locked rotor torque		190 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	220 %	Temperatu	Temperature rise		
Rated speed	: 9	985 rpm	Design		: B	
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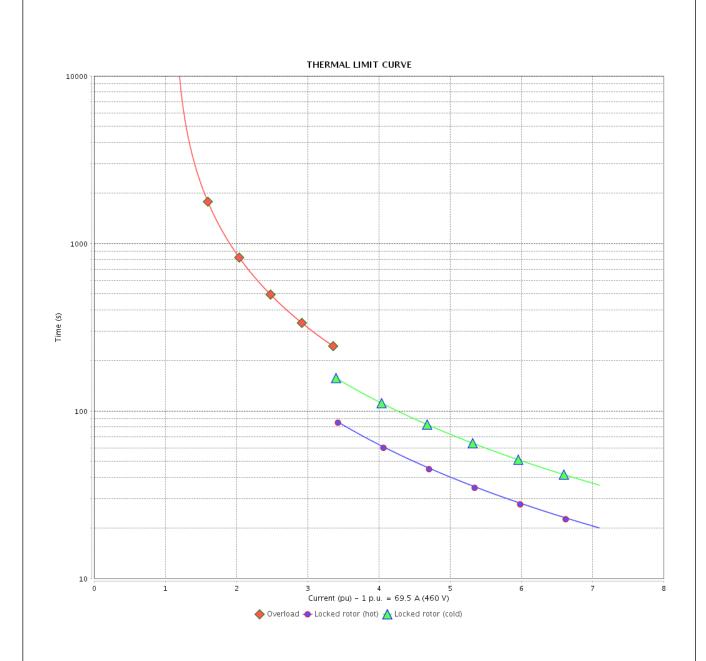


Customer	:					
Product line	: t Pl	NEMA Premium Efficiency ⁻ hase		Product code :	14333167 06012ET3E40	04JP-W22
Performance		30/460 V 60 Hz 6P				
Rated current LRC	: 7.		Moment of Duty cycle		: 36.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		66 ft.lb 00 %	Insulation Service fac		: F : 1.25	
Breakdown torqu	ie : 22	29 %	Temperatu		: 80 K	
Rated speed		185 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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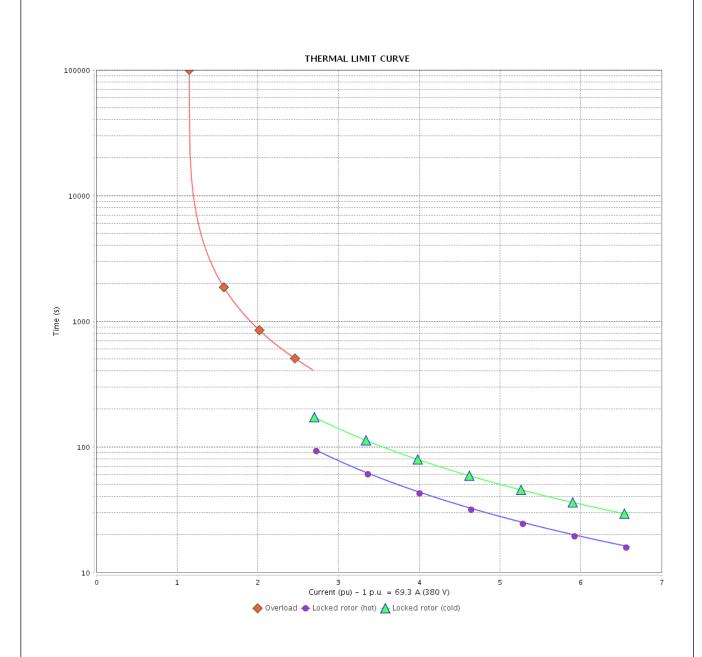


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14333167 06012ET3E40)4JP-W22
Performance		: 380 V 50 Hz 6P IE3				
Rated current LRC		: 69.3 A : 6.6	Duty cycle		: 36.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 267 ft.lb : 180 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu	ue	: 220 %	Temperat		: 80 K	
Rated speed Heating constan		: 985 rpm	Design		: B	
Cooling constant						
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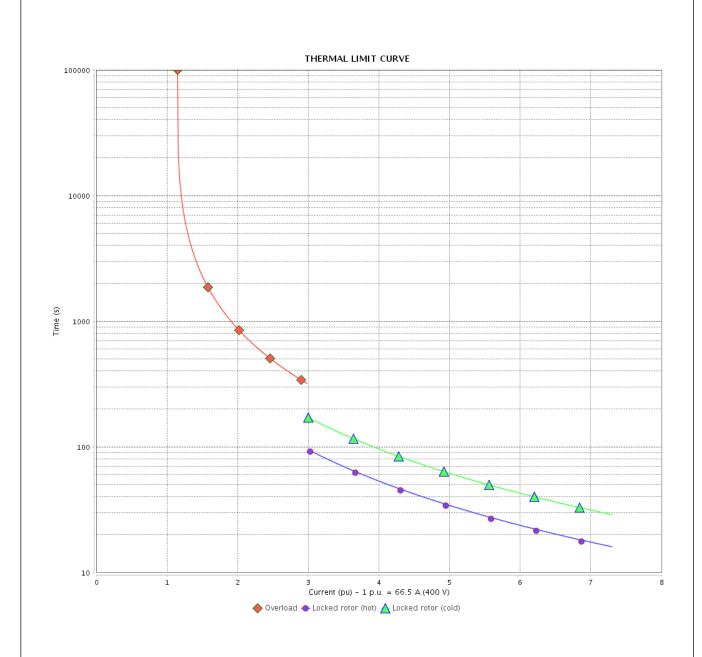


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14333167 06012ET3E40)4JP-W22
Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC		: 66.5 A : 7.3	Duty cycle		: 36.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 267 ft.lb : 220 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed	ue	: 240 % : 985 rpm	Temperat Design		: 80 K : B	
Heating constan		r			- -	
Cooling constan						
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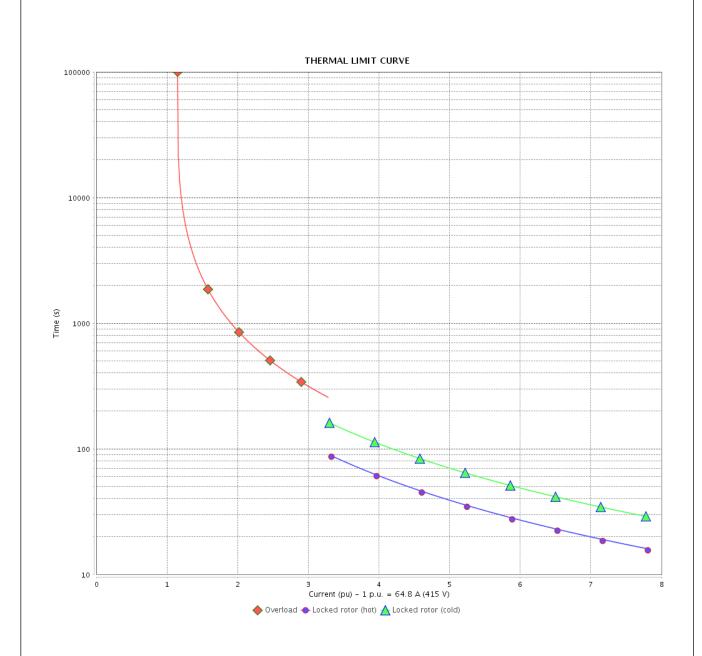


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14333167 06012ET3E40)4JP-W22
Performance		: 415 V 50 Hz 6P IE3	N 44	Character (II)	00.0	
Rated current LRC		: 64.8 A : 7.8	Duty cycle		: 36.9 sq.ft.lb : Cont.(S1)	
Rated torque		: 267 ft.lb	Insulation		: F	
Locked rotor tord Breakdown torqu		: 229 % : 260 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 985 rpm	Design		: B	
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Cooling constan	t 	Changes Commercial		Dorform	Chaskad	Data
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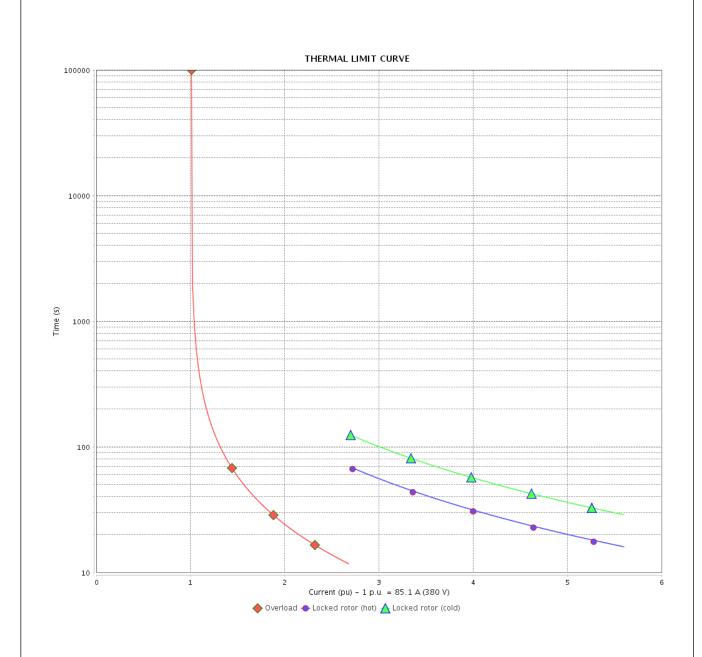


Customer	:				
Product line	: NEMA Premium Efficie Phase		Product code :	14333167 06012ET3E40)4JP-W22
Performance	: 380 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 85.1 A : 5.6 : 322 ft.lb : 150 % : 180 % : 980 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 36.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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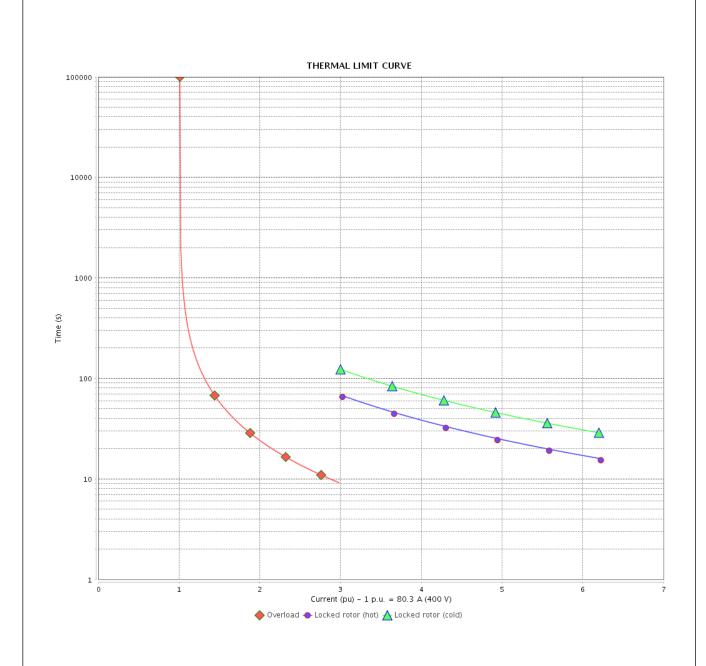


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14333167 06012ET3E40)4JP-W22
Performance		: 400 V 50 Hz 6P IE2				
Rated current LRC		: 80.3 A : 6.2	Duty cycle		: 36.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 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	t .	Changes Summary		Performed	Checked	Date
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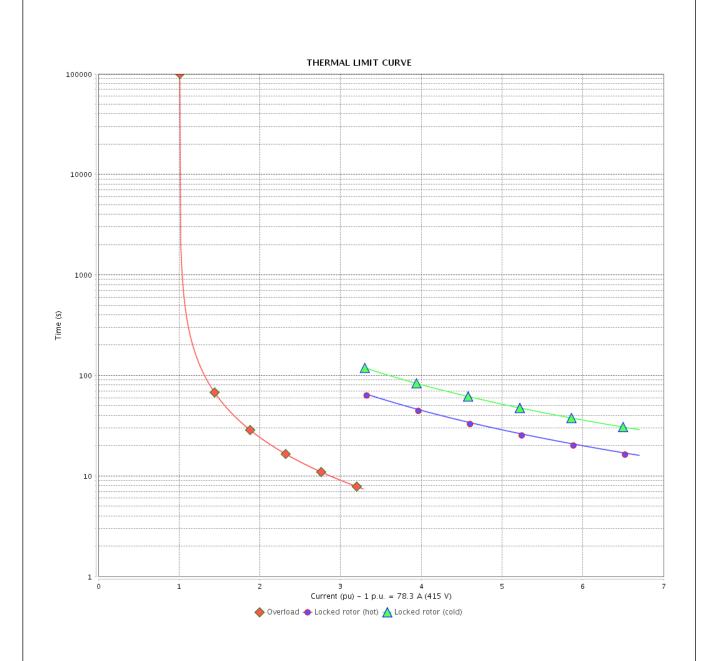


Customer	:					
Product line		NEMA Premium Efficiency l		Product code :	14333167	
			(Catalog # :	06012ET3E40	04JP-W22
Performance	: 41	15 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 6. : 32 se : 19	3.3 A 7 20 ft.lb 90 % 20 % 35 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 36.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
		ľ				
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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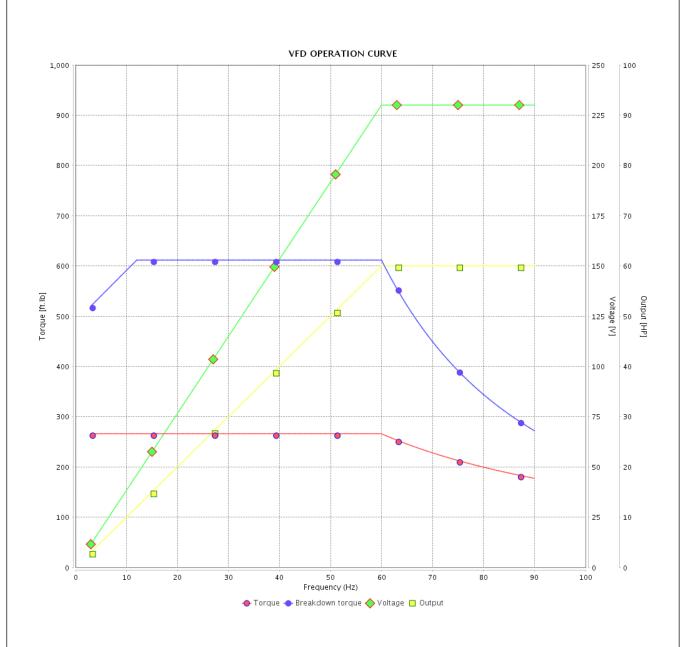
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Phase

Product code: 14333167

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



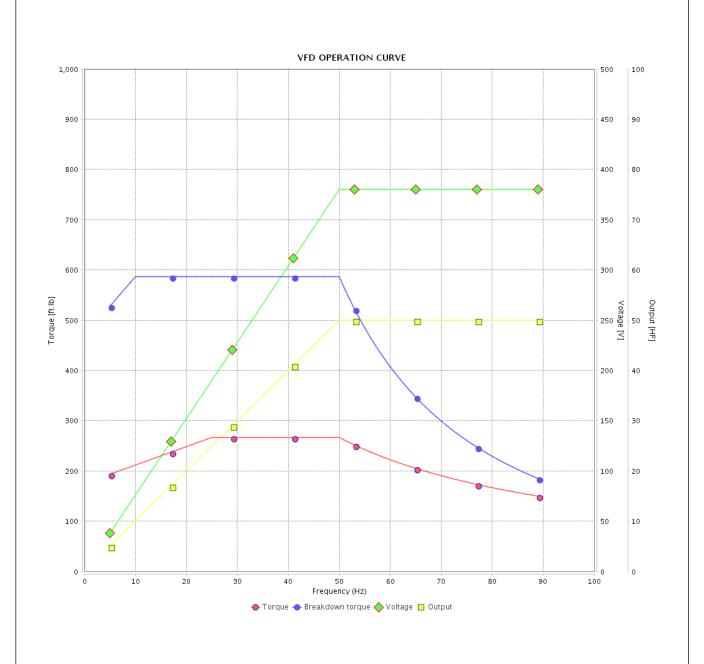
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 06012ET3E404JP-W22

14333167



Performance	: 3	80 V 50 Hz 6P IE3				
Rated current	: 6	9.3 A	Moment o	f inertia (J)	: 36.9 sq.ft.lb	
LRC	: 6	.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	67 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	80 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	20 %	Temperati	ıre rise	: 80 K	
Rated speed	: 9	85 rpm	Design		: B	
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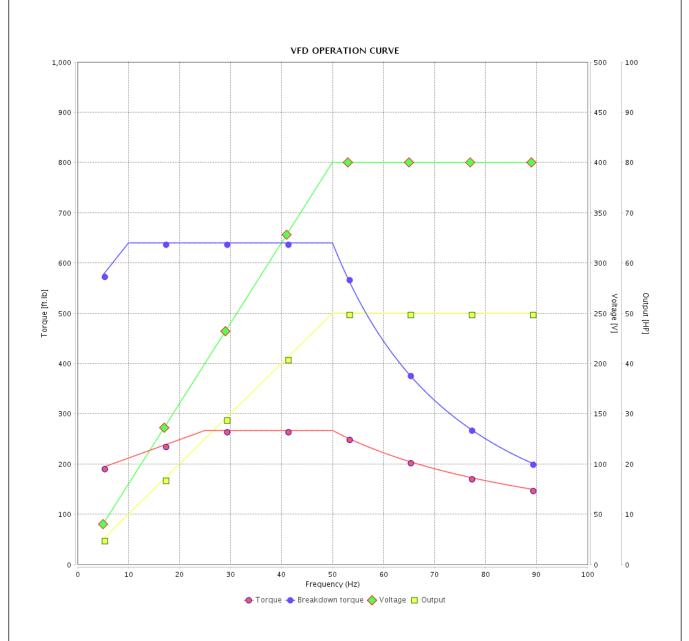
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 14333167

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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 66.5 A : 7.3 : 267 ft.lb : 220 % : 240 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 36.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

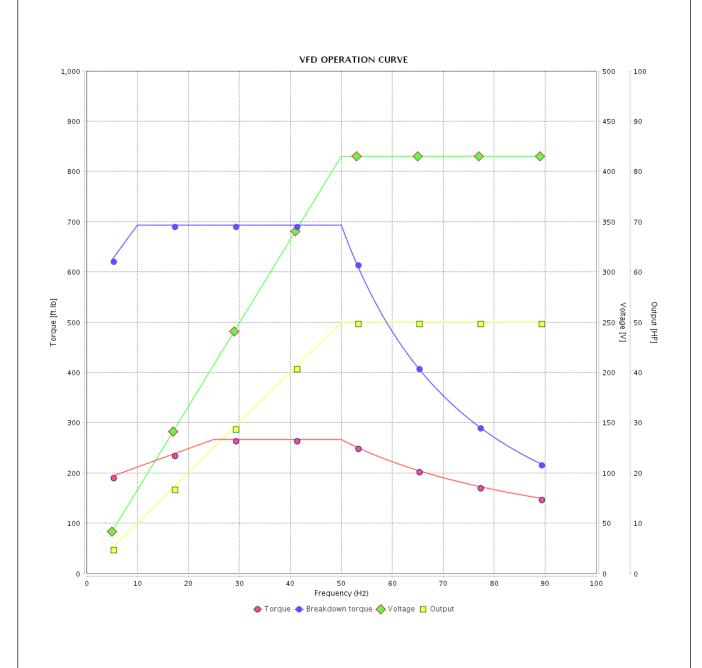


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 06012ET3E404JP-W22

14333167



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 64	4.8 A	Moment o	of inertia (J)	: 36.9 sq.ft.lb	
LRC	: 7.	.8	Duty cycle	, ,	: Cont.(S1)	
Rated torque	: 20	67 ft.lb	Insulation		: F ` ´	
Locked rotor torq	ue : 2:	29 %	Service fa	ictor	: 1.00	
Breakdown torqu	e : 20	60 %	Temperati	ure rise	: 80 K	
Rated speed	: 98	85 rpm	Design		: B	
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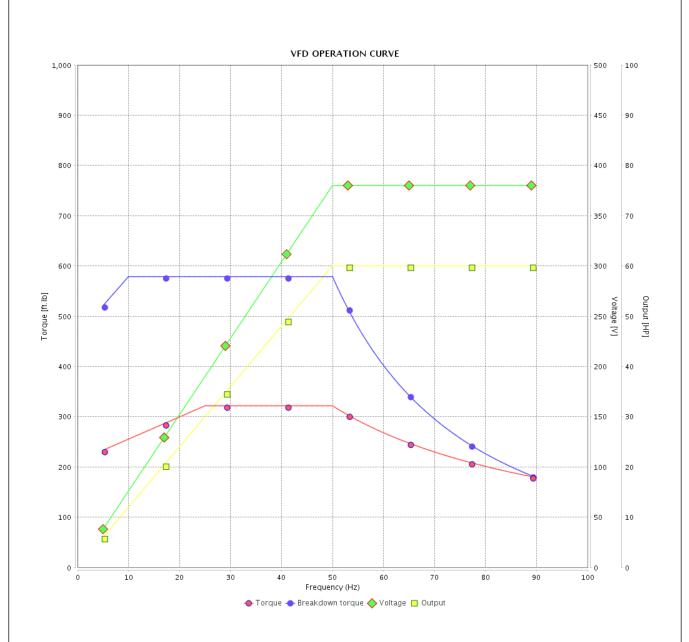
Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 14333167

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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) : 322 ft.lb Insulation class Rated torque : F Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 180 % Temperature rise : 105 K Rated speed : 980 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

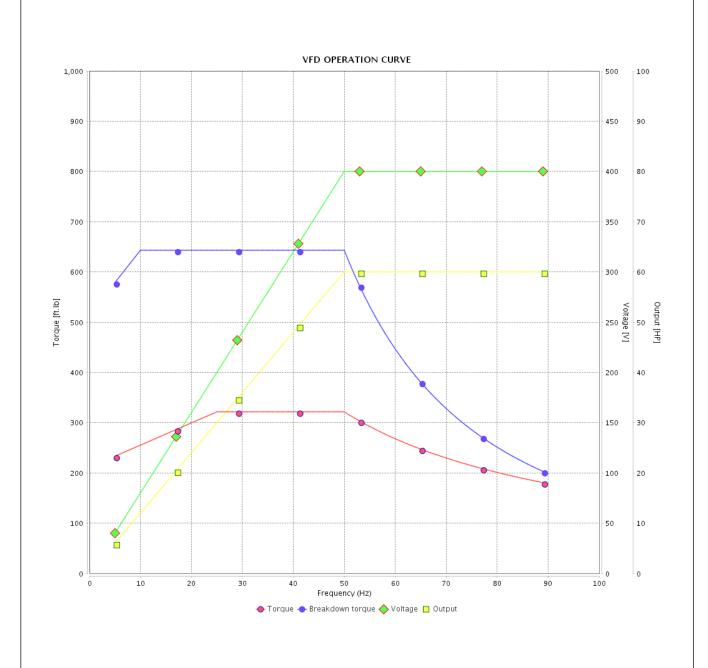
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14333167

Catalog #: 06012ET3E404JP-W22



Performance	: 4	00 V 50 Hz 6P IE2				
Rated current	: 8	0.3 A	.3 A Moment of inertia		: 36.9 sq.ft.lb	
LRC	: 6	.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	22 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	80 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	00 %	Temperatu	ıre rise	: 105 K	
Rated speed	: 9	80 rpm	Design		: B	
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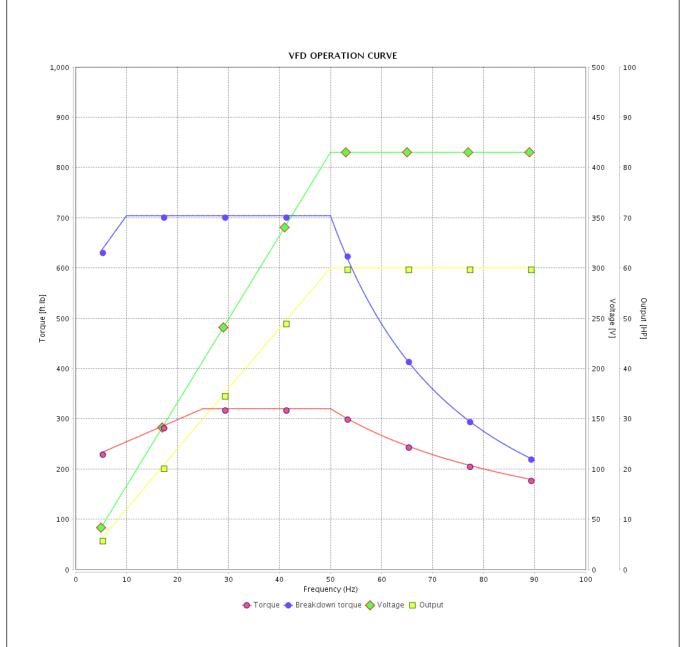
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14333167

Catalog #: 06012ET3E404JP-W22

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Performance	: 415 V 50 Hz 6P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 78.3 A : 6.7 : 320 ft.lb : 190 % : 220 % : 985 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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