DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14335224

Phase

Catalog #: 06012ET3G404T-W22

: F-1

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

Insulation class : F Mounting
Duty cycle : Cont.(S1) Rotation¹

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 : 1135 lb
Protection degree : IP55 Moment of inertia (J) : 36.9 sq.ft.lb

Design : B

Output [HP] 60 50 50 60 60

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]		460	380	400	415	380	400	415
Rated current [A]		69.5	69.3	66.5	64.8	85.1	80.3	78.3
L. R. Amperes [A]		493	457	485	505	477	498	525
LRC [A]		7.1x(Code H)	6.6x(Code	7.3x(Code H)	7.8x(Code J)	5.6x(Code F)	6.2x(Code	6.7x(Code
			G)				G)	G)
No load current [A]]	25.0	24.7	26.4	27.7	24.7	26.4	27.7
Rated speed [RPN	/ 1]	1185	985	985	985	980	980	985
Slip [%]		1.25	1.50	1.50	1.50	2.00	2.00	1.50
Rated torque [ft.lb]		266	267	267	267	322	322	320
Locked rotor torqu	Locked rotor torque [%]		180	220	229	150	180	190
Breakdown torque	[%]	229	220	240	260	180	200	220
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		36s (cold)	28s (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 ²		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
Efficiency (%)	50%	94.1	93.3	93.3	93.3	93.6	93.6	93.6
Linciency (70)	75%	94.5	93.4	93.7	93.7	93.0	93.6	93.6
	100%	94.5	93.3	93.4	93.4	92.4	93.0	93.0
	25%		0.48	0.44	0.41	0.54	0.51	0.48
Power Factor	50%	0.74	0.73	0.70	0.67	0.79	0.77	0.74
1-OWEL FACIOI	75%	0.82	0.83	0.82	0.79	0.85	0.84	0.82
	100%	0.86	0.87	0.86	0.85	0.87	0.87	0.86

Bearing type

Drive end Non drive end Foundation loads

6316 C3 6314 C3 Max. traction

Bearing type : 6316 C3 6314 C3 Max. traction : 1545 lb Sealing : WSeal WSeal Max. compression : 2680 lb Lubrication interval : 16000 h

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

Notes

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



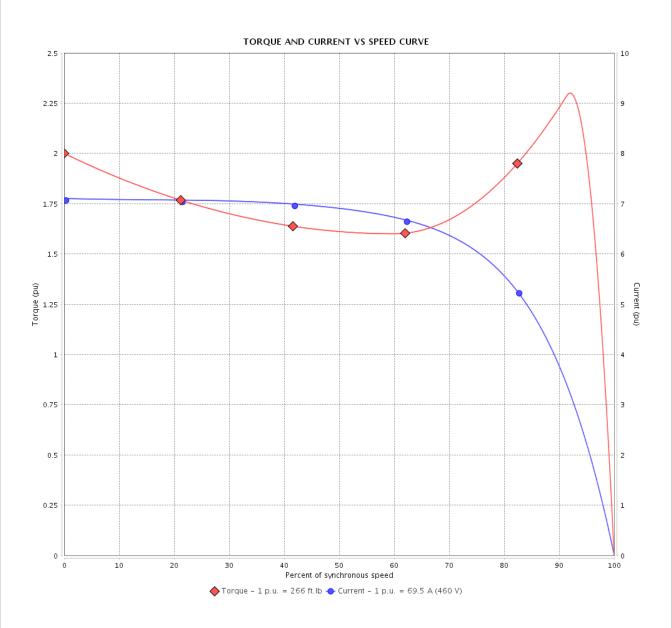
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14335224

Catalog #: 06012ET3G404T-W22



Performance : 460 V 60 Hz 6P Rated current : 69.5 A Moment of inertia (J) : 36.9 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 266 ft.lb : 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)

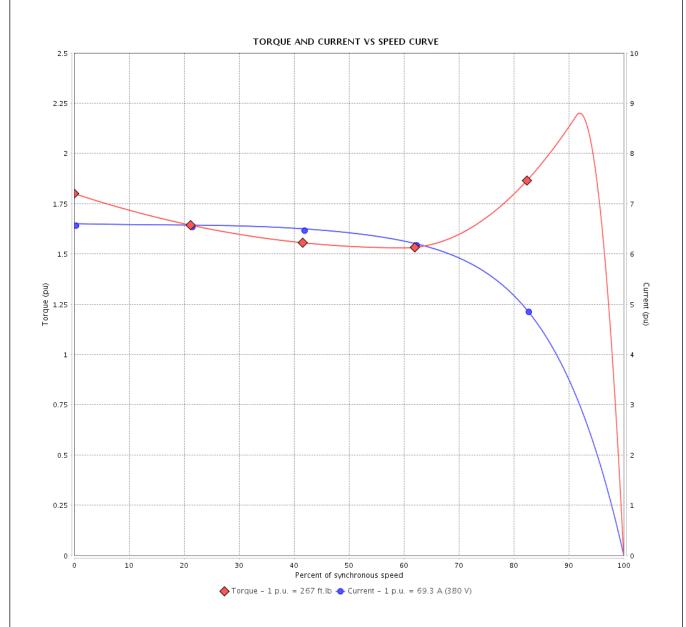
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Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14335224

> Catalog #: 06012ET3G404T-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)	
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)	I		

LOCKED TOTOL TITLE	. 20	os (cola) Tos (Hot)			
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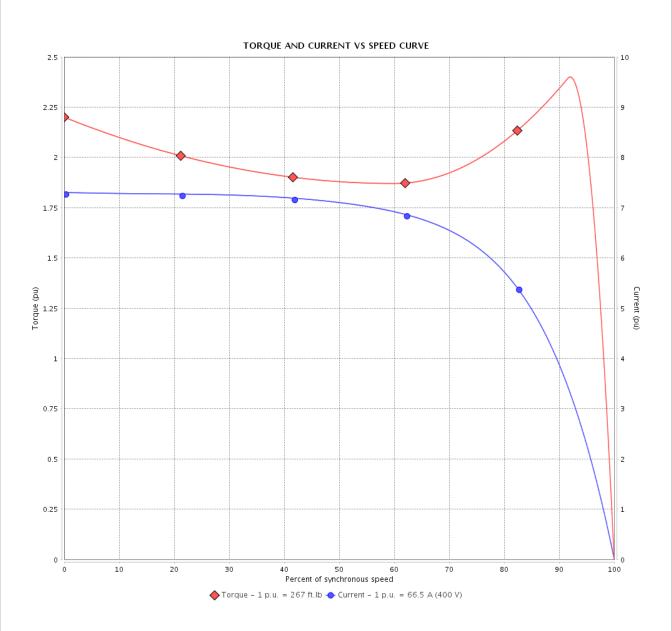


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 14335224

Catalog #: 06012ET3G404T-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: 14335224 Catalog #: 06012ET3G404T-W22 TORQUE AND CURRENT VS SPEED CURVE

2.4										8
2.1		•								7
				*		*				
1.8										6
								•		
1.5									\	
1.2										
0.9										3
0.6										2
0.3										
٥	10	20	30	40	50 of synchronous	60	70	80	90	100

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)			

Locked rotor time	288 (COId) 168 (NOL)			
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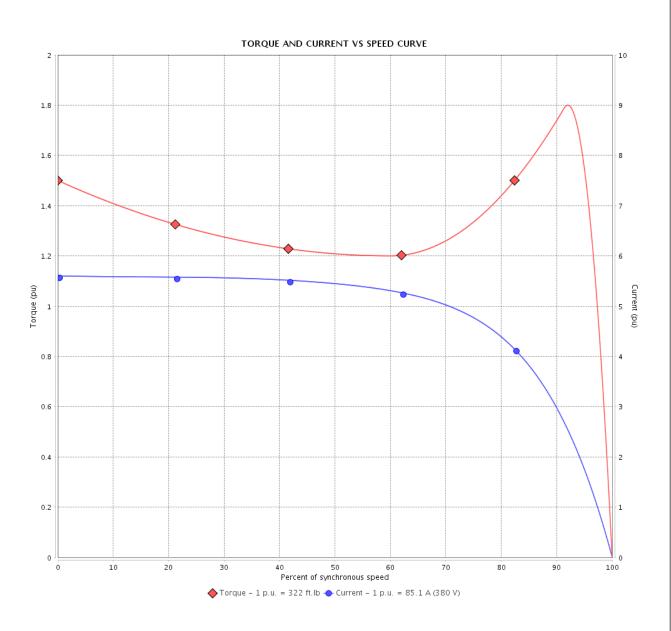


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14335224

Phase

Catalog #: 06012ET3G404T-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 (bot)		

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

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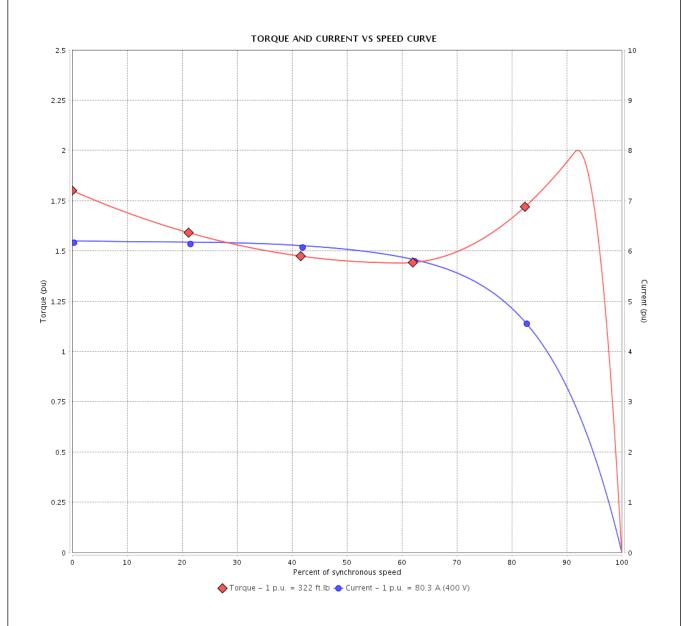


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14335224

Phase

Catalog #: 06012ET3G404T-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)		

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

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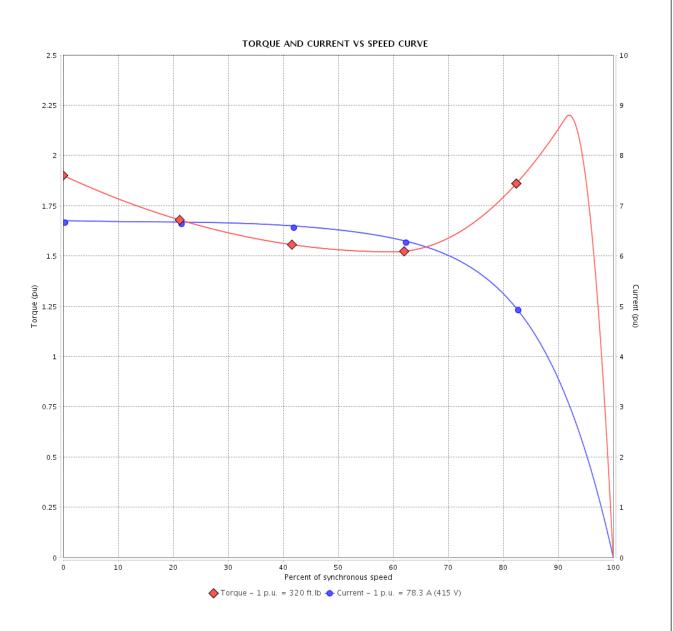
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14335224

Catalog #: 06012ET3G404T-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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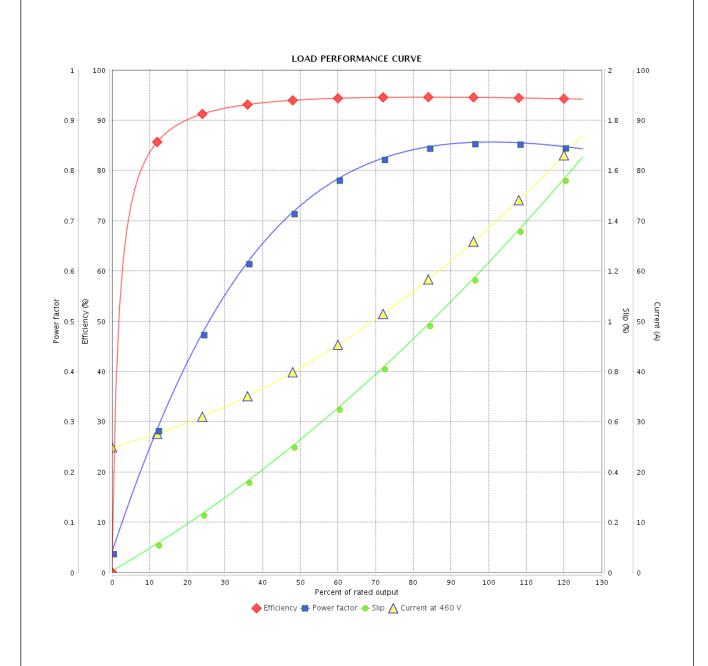
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 14335224

Catalog #: 06012ET3G404T-W22



Performance	: 4	60 V 60 Hz 6P				
Rated current	: 6	9.5 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		200 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	229 %	Temperati	Temperature rise		
Rated speed	: 1	185 rpm	Design		: B	
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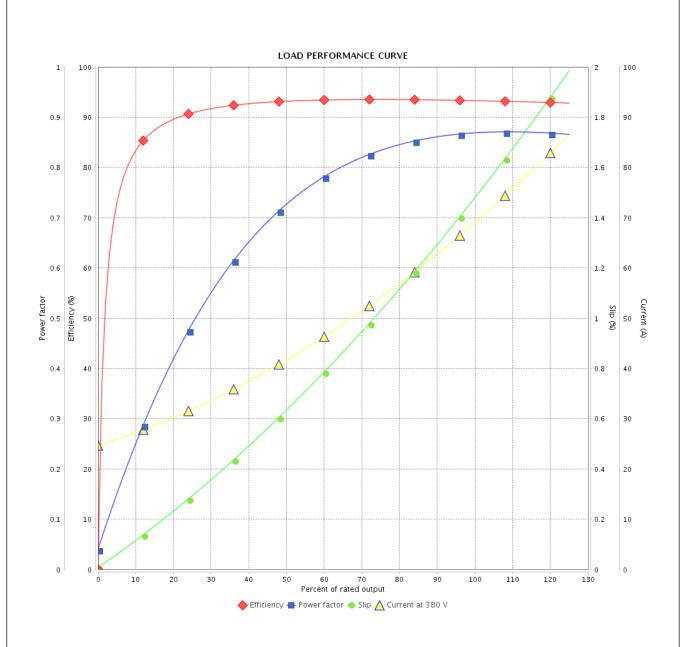
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Phase

Product code: 14335224

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Performance	: 38	30 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 26 que : 18 ie : 22	9.3 A 6 67 ft.lb 80 % 20 % 85 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 36.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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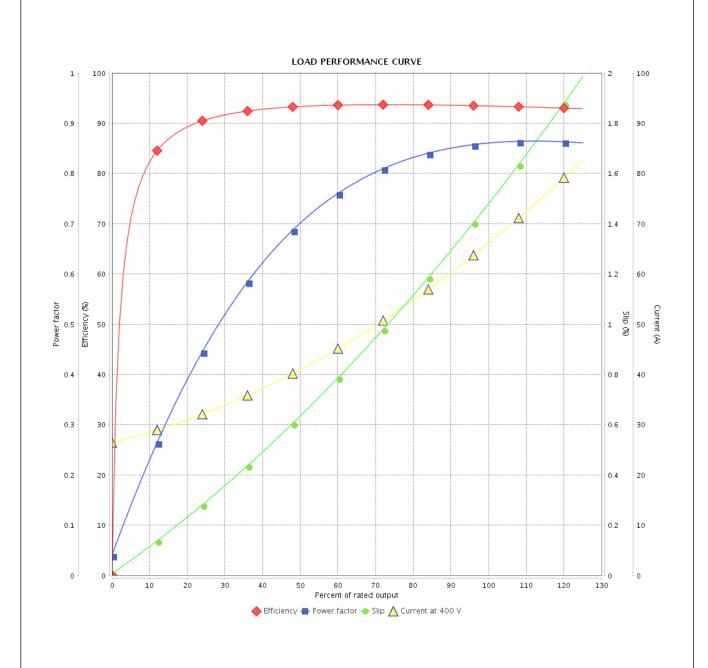


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Product line : NEMA Premium Efficiency Three- Product code : 14335224

Phase

Catalog #: 06012ET3G404T-W22



Performance	: 4	00 V 50 Hz 6P IE3				
Rated current	: 6	6.5 A	Moment o	f inertia (J)	: 36.9 sq.ft.lb	
LRC	: 7	7.3	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	.67 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	40 %	Temperature rise		: 80 K	
Rated speed	: 9	185 rpm	Design		: B	
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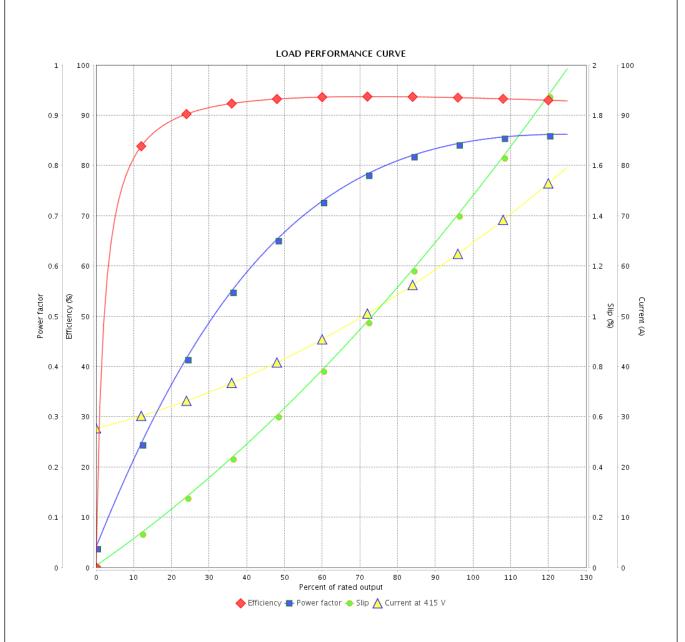


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 14335224

Catalog #: 06012ET3G404T-W22



Performance	: 4	415 V 50 Hz 6P IE3	3			
Rated current	: 6	64.8 A	Moment of	of inertia (J)	: 36.9 sq.ft.lb	
LRC	: 7	7.8	Duty cycle	е	: Cont.(S1)	
Rated torque	: 2	267 ft.lb	Insulation	class	: F	
Locked rotor torque		229 %	Service fa	actor	: 1.00	
Breakdown torque	e : 2	260 %	Temperature rise		: 80 K	
Rated speed	: 9	985 rpm	Design		: B	
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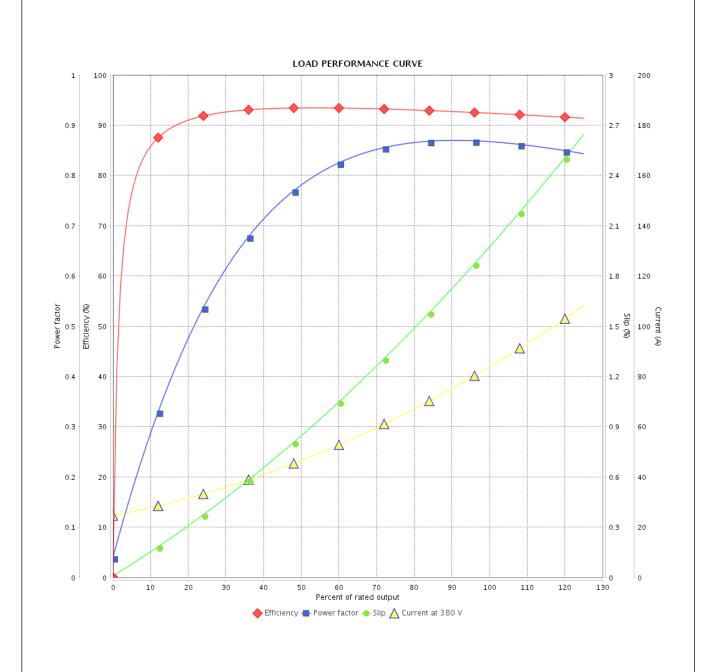
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14335224

Catalog #: 06012ET3G404T-W22



Performance	: 3	380 V 50 Hz 6P IE1				
Rated current	: 8	35.1 A	Moment o	f inertia (J)	: 36.9 sq.ft.lb	
LRC	: 5	5.6	Duty cycle	:	: Cont.(S1)	
Rated torque	: 3	322 ft.lb	Insulation	class	: F	
Locked rotor torque		150 %	Service fa	ctor	: 1.00	
Breakdown torque	: 1	80 %	Temperatu	ıre rise	: 105 K	
Rated speed	: 9	980 rpm	Design		: B	
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Phase

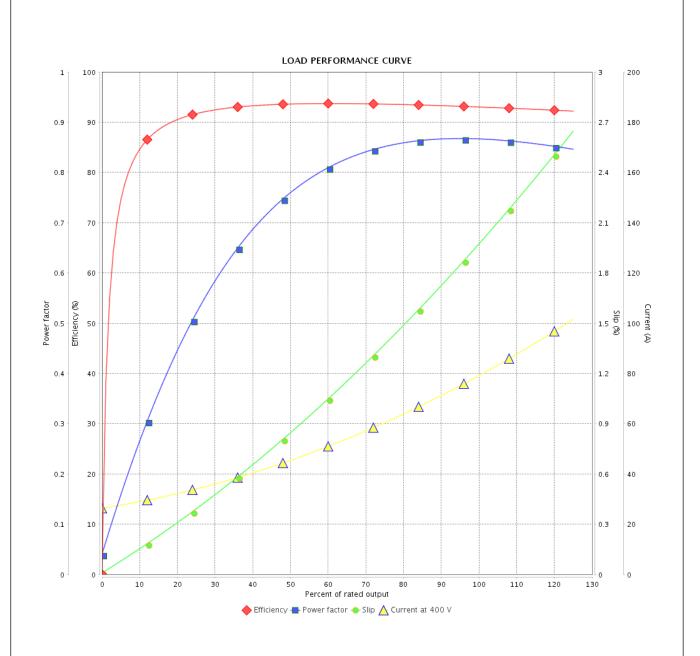
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Performance	: 4	00 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 3 lue : 1 le : 2	: 6.2 Duty cyc : 322 ft.lb Insulation : 180 % Service		sulation class : F ervice factor : 1.00 mperature rise : 105 K		
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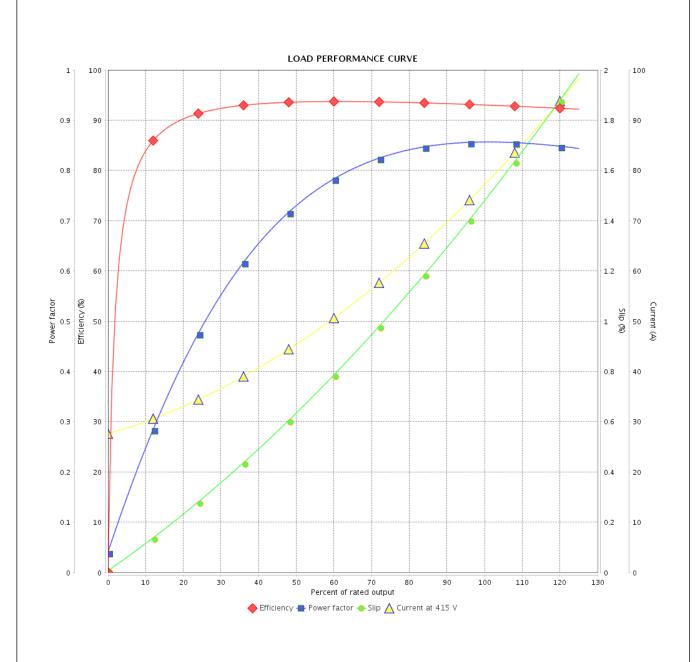
Customer

Product line : NEMA Premium Efficiency Three- Product code : 14335224

Phase

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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) : 36.9 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 105 K Design : B			
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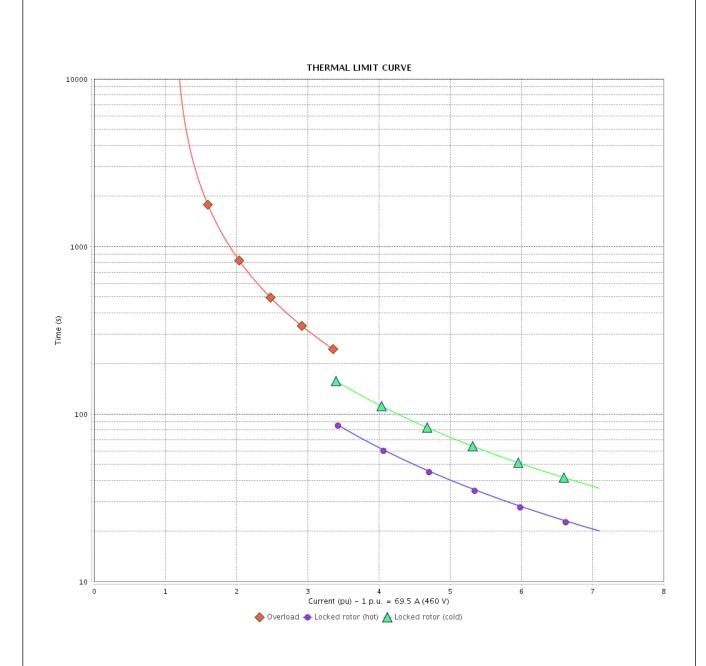


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14335224 06012ET3G40	04T-W22
Performance		: 460 V 60 Hz 6P				
Rated current LRC		: 69.5 A : 7.1	Duty cycle		: 36.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 266 ft.lb : 200 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue	: 229 %	Temperat		: 80 K	
Rated speed		: 1185 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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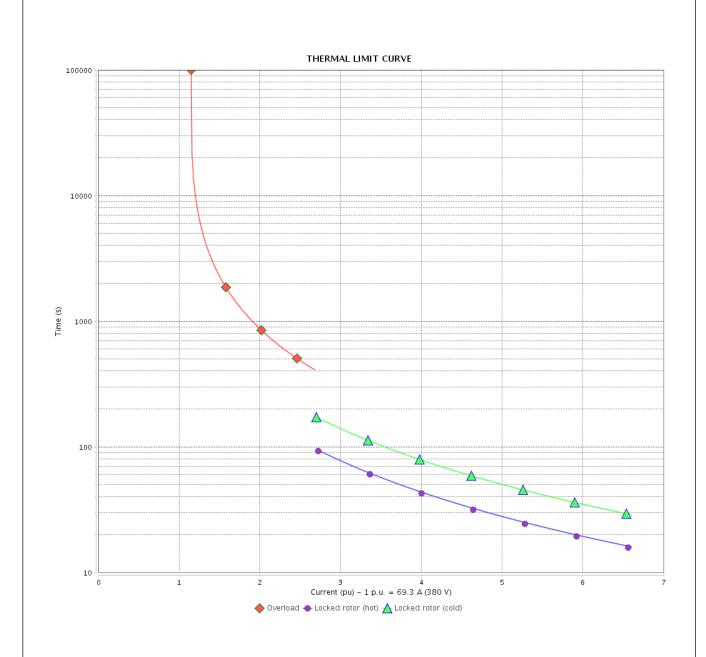


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14335224 06012ET3G40	04T-W22
Performance		: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque	:	: 69.3 A : 6.6 : 267 ft.lb	Moment of Duty cycle Insulation		: 36.9 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que :	: 180 %	Service fa	ictor	: 1.00	
Breakdown torqu Rated speed		: 220 % : 985 rpm	Temperati Design	ure rise	: 80 K : B	
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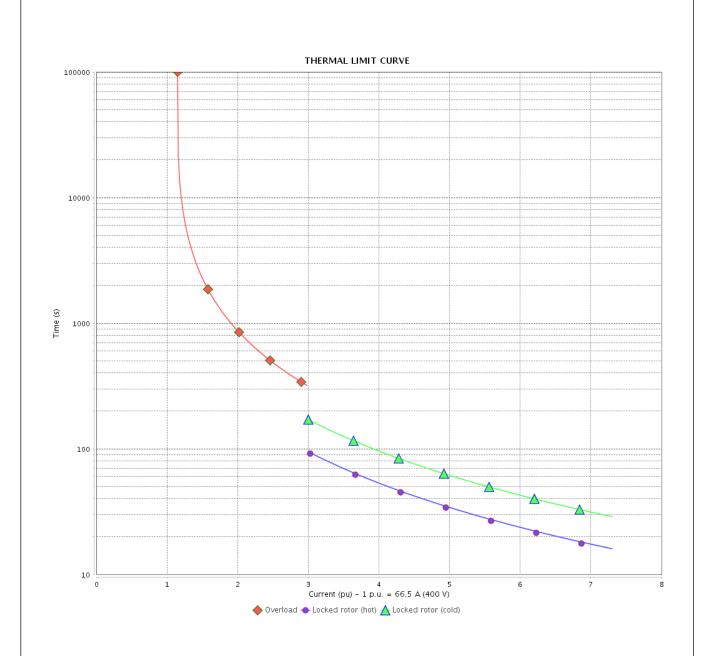


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14335224 06012ET3G40	04T-W22
Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC		: 66.5 A : 7.3	Duty cycle		: 36.9 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 267 ft.lb : 220 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		. 220 % : 240 %	Temperat		: 80 K	
Rated speed		: 985 rpm	Design	· 	: B	
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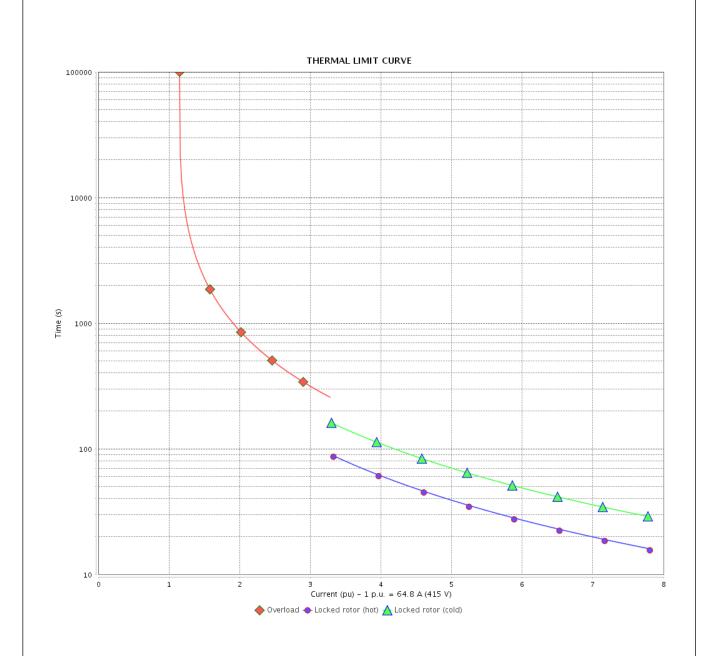


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Product line		NEMA Premium Efficiency hase		Product code :	14335224 06012ET3G4	04T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6 ² : 7. : 26 e : 22 : 26	15 V 50 Hz 6P IE3 4.8 A 8 67 ft.lb 29 % 60 % 85 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 36.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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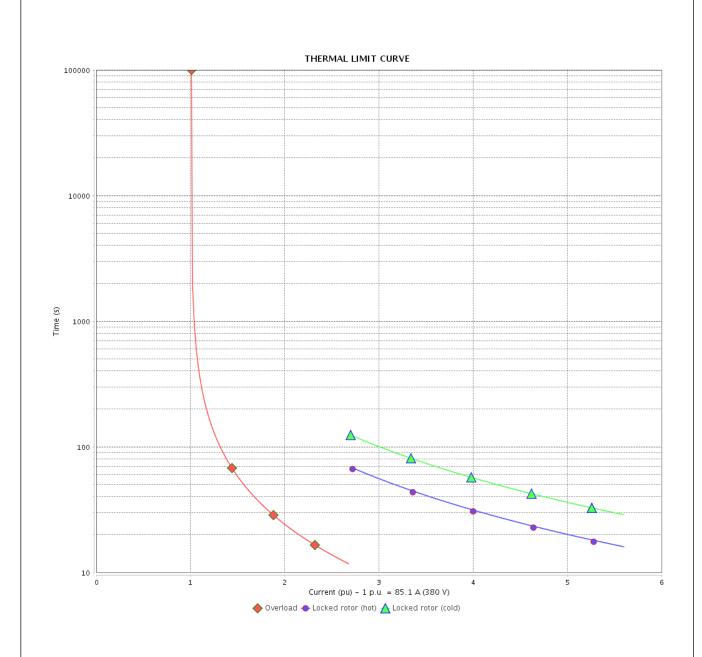


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Product line		: NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	14335224 06012ET3G40)4T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	jue : ie	380 V 50 Hz 6P IE1 85.1 A 5.6 322 ft.lb 150 % 180 % 980 rpm	Moment or 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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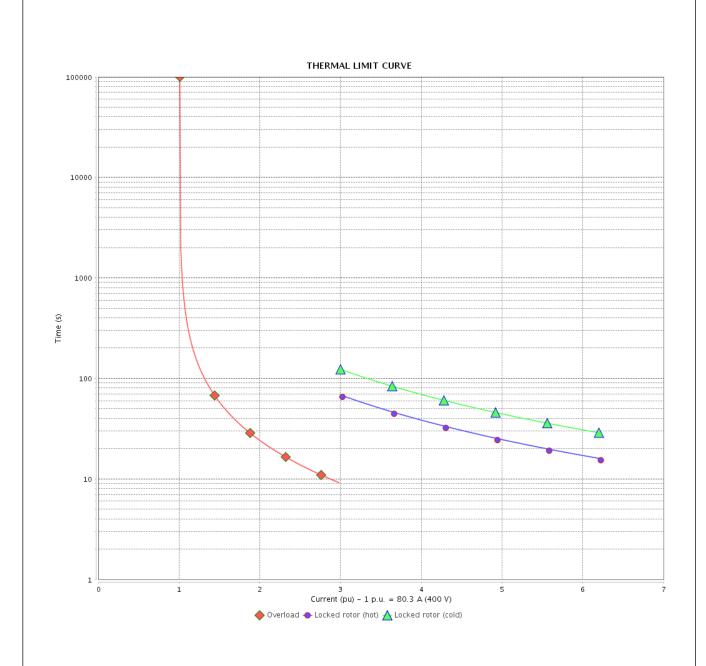


Customer	:					
Product line		NEMA Premium Efficiency l		Product code :	14335224	
			(Catalog # :	06012ET3G4	04T-W22
Performance	: 40	00 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 6. : 32 ue : 18 e : 20	0.3 A .2 22 ft.lb 80 % 00 % 80 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 36.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Heating constant Cooling constant						
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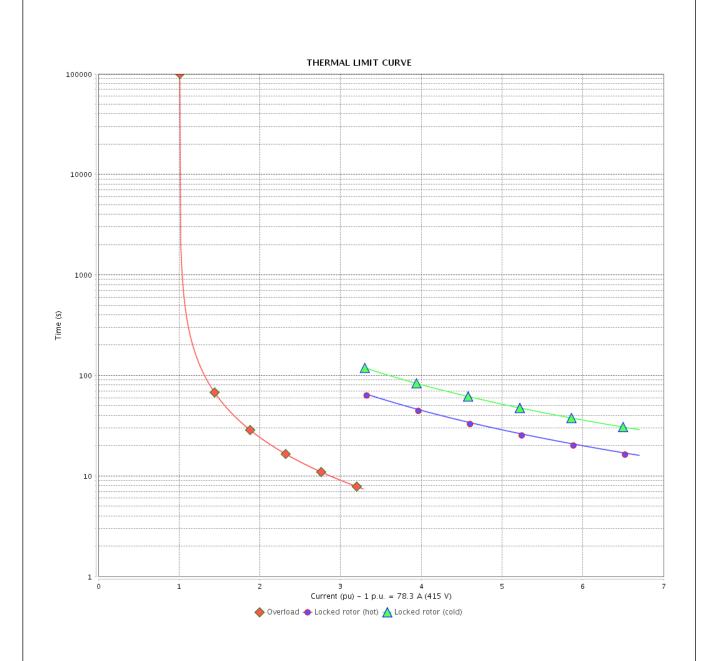


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14335224 06012ET3G40)4T-W22
Performance		: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque		: 78.3 A : 6.7 : 320 ft.lb	Moment of Duty cycle Insulation		: 36.9 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu	que	: 190 % : 220 %	Service fa Temperat	actor	: 1.00 : 105 K	
Rated speed		: 985 rpm	Design	ui C 113C	: B	
Heating constan						
Cooling constant	l	Changes Summary		Performed	Checked	Date
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Product line : NEMA Premium Efficiency Three- Produ

Phase

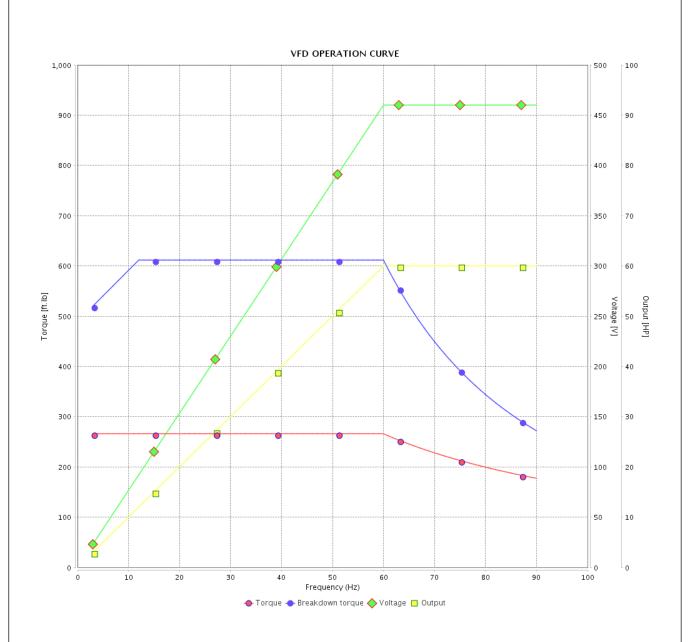
Product code: 14335224

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Performance : 460 V 60 Hz 6P Rated current : 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 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



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Product line : NEMA Premium Efficiency Three- Product code :

Phase

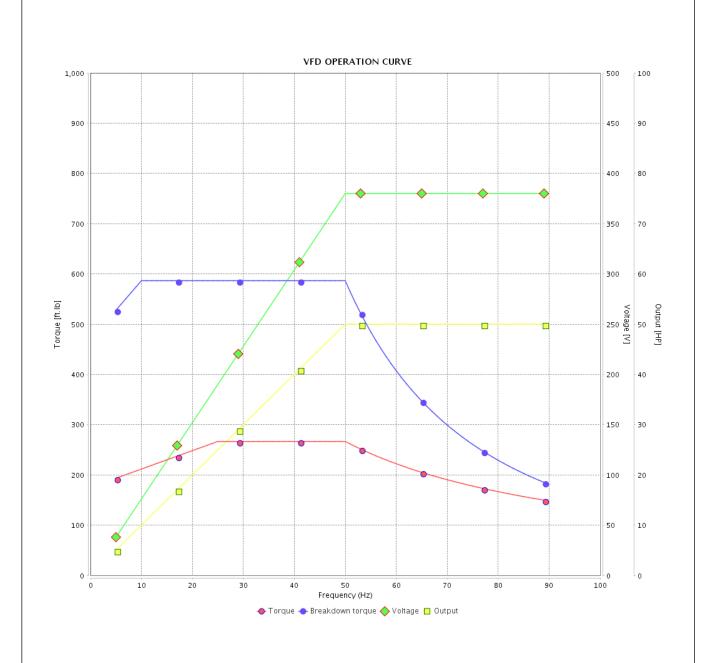
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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.3 A : 6.6 : 267 ft.lb : 180 % : 220 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise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



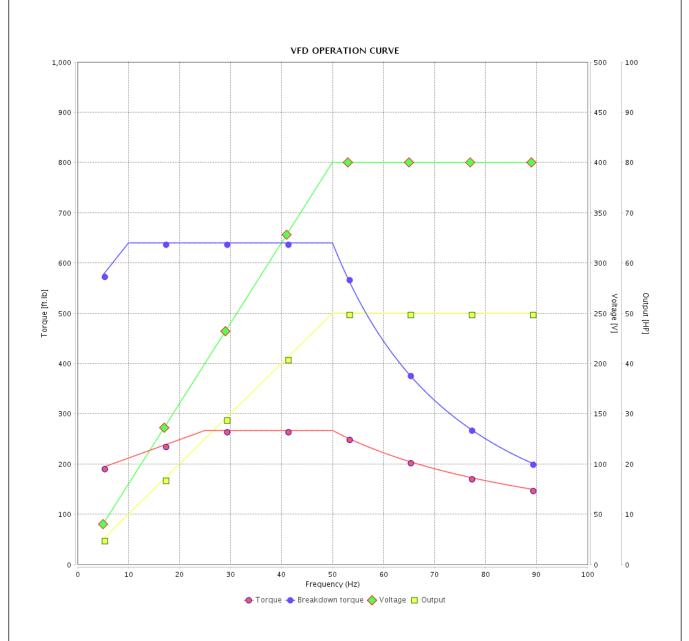
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 14335224

Catalog #: 06012ET3G404T-W22



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

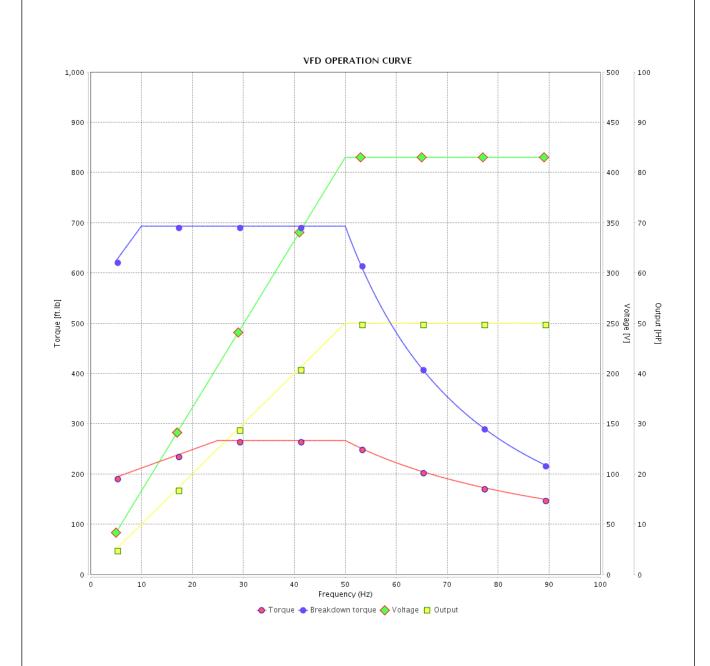


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14335224

Phase

Catalog #: 06012ET3G404T-W22



Performance		: 415 V 50 Hz 6P IE3						
Rated current		4.8 A	A Moment of inertia (J)		: 36.9 sq.ft.lb			
LRC : 7		8	Duty cycle		: Cont.(S1)			
Rated torque	: 20	67 ft.lb	Insulation class		: F			
Locked rotor torque	e : 22	29 %	Service factor		: 1.00			
Breakdown torque	: 20	60 %	Temperature rise		: 80 K			
Rated speed	: 98	: 985 rpm De			: B			
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Product line : NEMA Premium Efficiency Three- Produc

Phase

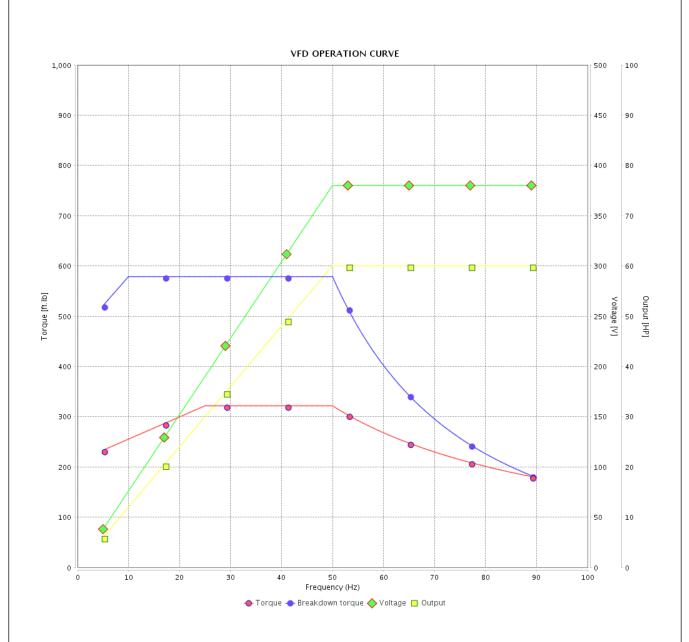
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Performance : 380 V 50 Hz 6P IE1 Rated current : 85.1 A Moment of inertia (J) : 36.9 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 322 ft.lb : F Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 180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

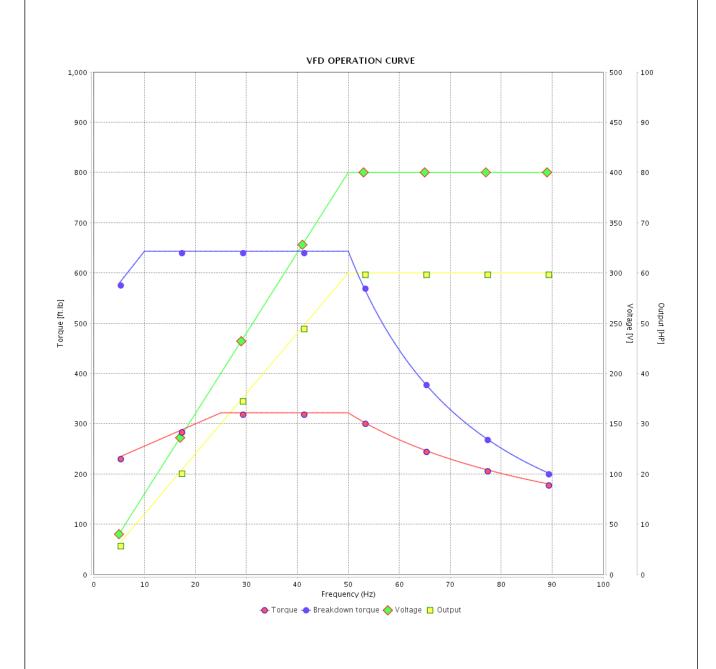
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14335224

Catalog #: 06012ET3G404T-W22



Performance		: 400 V 50 Hz 6P IE2						
Rated current : 8		0.3 A	Moment o	Moment of inertia (J)				
LRC : 6.2		.2	Duty cycle	Duty cycle				
Rated torque : 32		22 ft.lb	Insulation	Insulation class				
Locked rotor torg	jue : 18	80 %	Service fa	Service factor				
Breakdown torque		00 %	Temperati	Temperature rise				
Rated speed	: 98	80 rpm			: B			
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Customer :

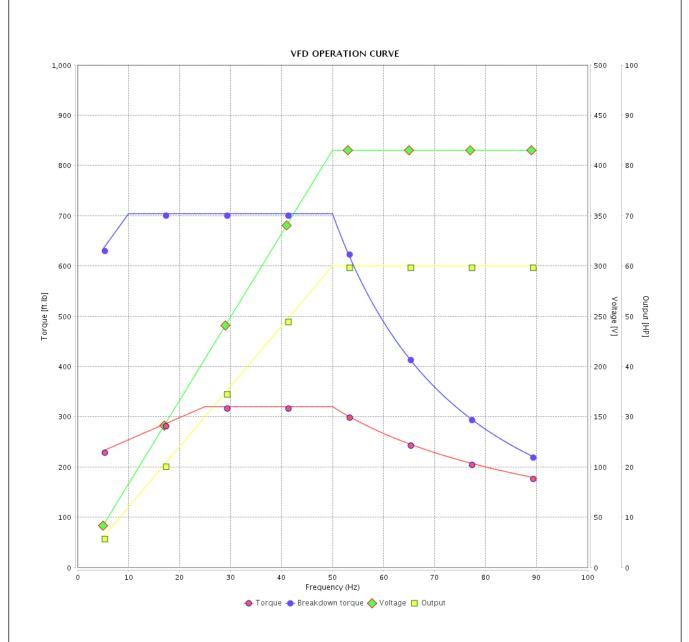
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14335224

Catalog #: 06012ET3G404T-W22

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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)			
Rated torque	: 320 ft.lb Insul		class	: F			
Locked rotor torque	: 190 %	Service factor Temperature rise		: 1.00			
Breakdown torque	: 220 %			: 105 K			
Rated speed	: 985 rpm	Design		: B			
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