DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14428062

Phase

Catalog #: 07512ET3E405JP-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 : 1089 lb

Protection degre	е	: IP55		Momer	nt of inertia (J)) : 4	0.2 sq.ft.lb	
Design		: B						
Output [HP]		75	60	60	60	75	75	75
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		170/84.9	85.5	83.2	82.1	104	99.3	95.7
L. R. Amperes [A]		1087/543	547	574	599	541	566	593
LRC [A]		6.4x(Code	6.4x(Code	6.9x(Code H)	7.3x(Code J)	5.2x(Code E)	5.7x(Code F)	6.2x(Code
		G)	G)					G)
No load current [A		60.0/30.0	29.7	31.8	33.5	29.7	31.8	33.5
Rated speed [RPN	/ 1]	1184	985	985	985	978	981	983
Slip [%]		1.33	1.50	1.50	1.50	2.20	1.90	1.70
Rated torque [ft.lb]		333	320	320	320	403	401	401
Locked rotor torqu	e [%]	229	200	240	270	170	190	210
Breakdown torque	[%]	229	240	270	290	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		30s (cold)	61s (cold)	57s (cold)	54s (cold)	25s (cold)	25s (cold)	25s (cold)
		17s (hot)	34s (hot)	32s (hot)	30s (hot)	14s (hot)	14s (hot)	14s (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	93.3	93.3	91.4	92.0	92.1
Efficiency (%)	50%	94.1	93.5	93.5	93.5	91.8	92.4	92.4
Linderity (70)	75%	94.5	94.0	94.0	94.0	92.2	92.8	92.8
	100%	94.5	94.1	94.1	94.1	92.4	93.0	93.0

Drive end Non drive end Foundation loads

0.40

0.62

0.75

0.83

0.38

0.60

0.74

0.81

Bearing type : 6314 C3 6314 C3 | Max. traction : 2101 lb Sealing : Lip Seal Lip Seal Max. compression : 3190 lb Lubrication interval : 17000 h

0.44

0.66

0.79

0.85

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

0.49

0.74

0.83

0.86

Notes

Power Factor

USABLE @208V 188A SF 1.10 SFA 207A

25%

50%

75%

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.

0.55

0.79

0.85

0.87

0.51

0.76

0.84

0.86

0.49

0.74

0.83

0.86

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Three Phase Induction Motor - Squirrel Cage



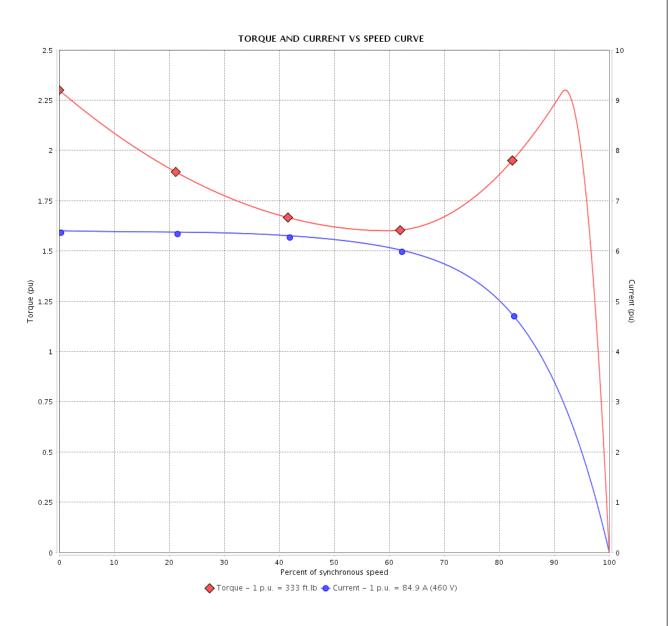
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14428062

Catalog #: 07512ET3E405JP-W22



: 230/460 V 60 Hz 6P Performance Rated current : 170/84.9 A Moment of inertia (J) : 40.2 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 333 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1184 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14428062 Catalog #: 07512ET3E405JP-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆Torque - 1 p.u. = 320 ft.lb ◆ Current - 1 p.u. = 85.5 A (380 V) : 380 V 50 Hz 6P IE3 Performance Rated current : 85.5 A Moment of inertia (J) : 40.2 sq.ft.lb LRC : 6.4 Duty cycle : Cont.(S1) Rated torque : 320 ft.lb Insulation class : F : 200 % : 1.00 Locked rotor torque Service factor : 240 % Breakdown torque Temperature rise : 80 K

Rated speed	: 98	5 rpm	Design		: B	
Locked rotor time	e : 6°	1s (cold) 34s (hot)				
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Three Phase Induction Motor - Squirrel Cage



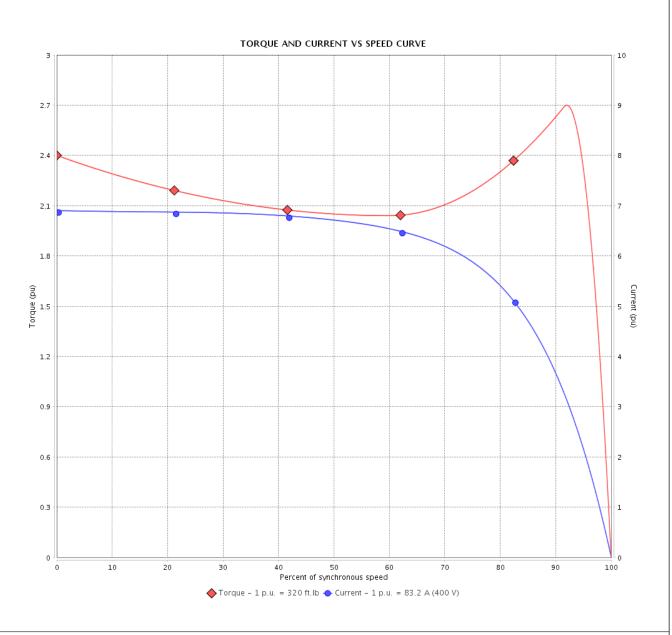
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 14428062

Catalog #: 07512ET3E405JP-W22



Performance : 400 V 50 Hz 6P IE3 Rated current : 83.2 A Moment of inertia (J) : 40.2 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 320 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

Locked rotor time : 57s (cold) 32s (hot)

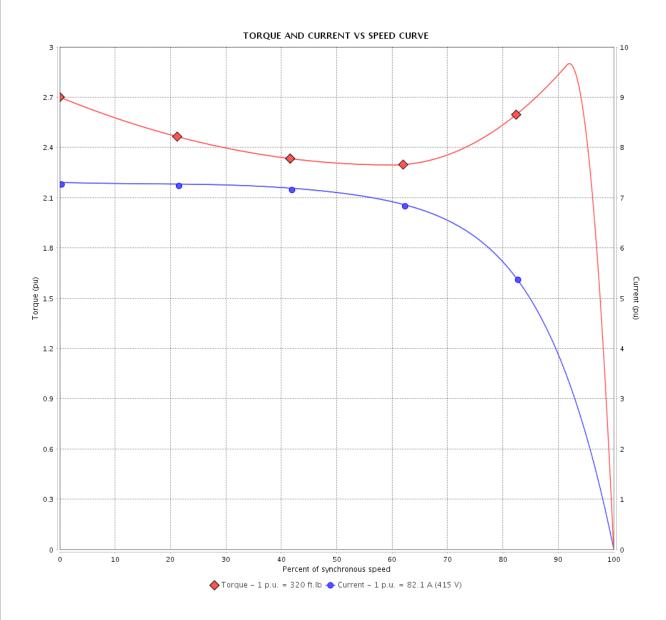
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Customer Product line : NEMA Premium Efficiency Three-Product code: 14428062

> Catalog #: 07512ET3E405JP-W22



Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 82.1 A	Moment of inertia (J)	: 40.2 sq.ft.lb	
LRC	: 7.3	Duty cycle	: Cont.(S1)	
Rated torque	: 320 ft.lb	Insulation class	: F	
Locked rotor torque	: 270 %	Service factor	: 1.00	
Breakdown torque	: 290 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	
Locked rotor time	: 54s (cold) 30s (hot)			

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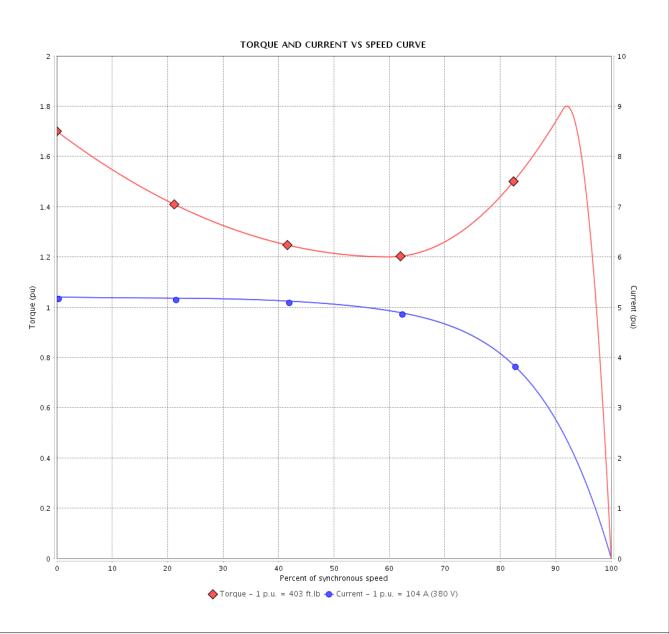


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14428062

Phase

Catalog #: 07512ET3E405JP-W22



Performance	: 380 V 50 Hz 6P IE1		
Rated current	: 104 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 403 ft.lb	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 180 %	Temperature rise	: 105 K
Rated speed	: 978 rpm	Design	: B
Looked reter time	: 25c (cold) 14c (bot)		

Locked rotor time : 25s (cold) 14s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14428062 Catalog #: 07512ET3E405JP-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current (pu)

: 400 V 50 Hz 6P IE1			
: 99.3 A	Moment of inertia (J)	: 40.2 sq.ft.lb	
: 5.7	Duty cycle	: Cont.(S1)	
: 401 ft.lb	Insulation class	: F	
: 190 %	Service factor	: 1.00	
: 200 %	Temperature rise	: 105 K	
: 981 rpm	Design	: B	
	: 99.3 A : 5.7 : 401 ft.lb : 190 % : 200 %	: 99.3 A Moment of inertia (J) : 5.7 Duty cycle : 401 ft.lb Insulation class : 190 % Service factor : 200 % Temperature rise	: 99.3 A Moment of inertia (J) : 40.2 sq.ft.lb : 5.7 Duty cycle : Cont.(S1) : 401 ft.lb Insulation class : F : 190 % Service factor : 1.00 : 200 % Temperature rise : 105 K

40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 401 ft.lb ◆ Current - 1 p.u. = 99.3 A (400 V)

Locked rotor time : 25s (cold) 14s (hot)

0.5

0.25

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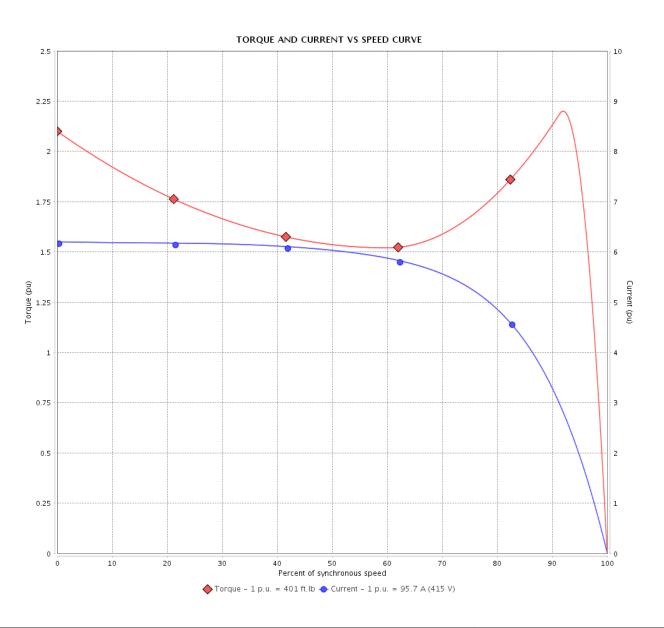
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14428062

Catalog #: 07512ET3E405JP-W22



Performance	: 415 V 50 Hz 6P IE1		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 95.7 A : 6.2 : 401 ft.lb : 210 % : 220 % : 983 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B
Locked rotor time	: 25s (cold) 14s (hot)		

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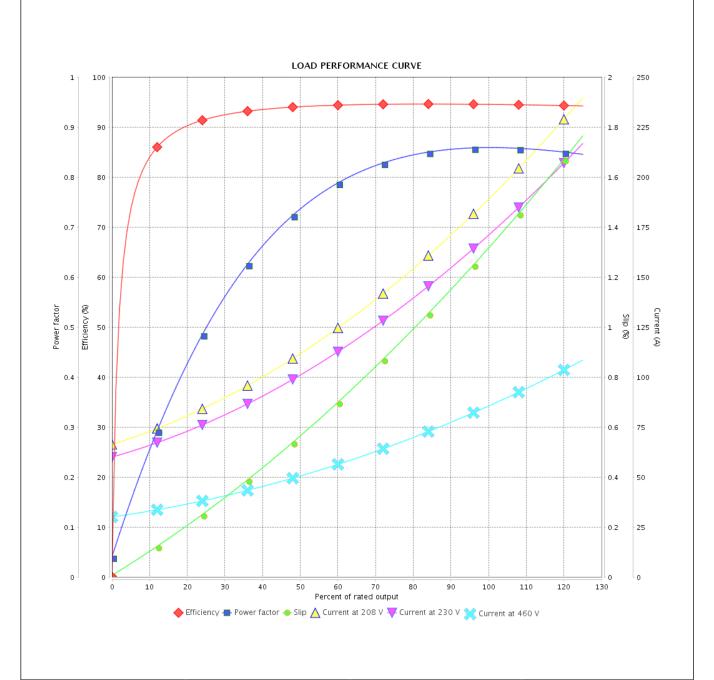


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Product line : NEMA Premium Efficiency Three- Product code : 14428062

Phase

Catalog #: 07512ET3E405JP-W22



Performance	:	230/460 V 60 Hz 6P				
Rated current	:	170/84.9 A	Moment o	f inertia (J)	: 40.2 sq.ft.lb	
LRC	:	6.4	Duty cycle	;	: Cont.(S1)	
Rated torque : 333		333 ft.lb	Insulation	class	: F	
Locked rotor torque : 229 %		229 %	Service fa	ctor	: 1.25	
Breakdown torque	e :	229 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1184 rpm	Design		: B	
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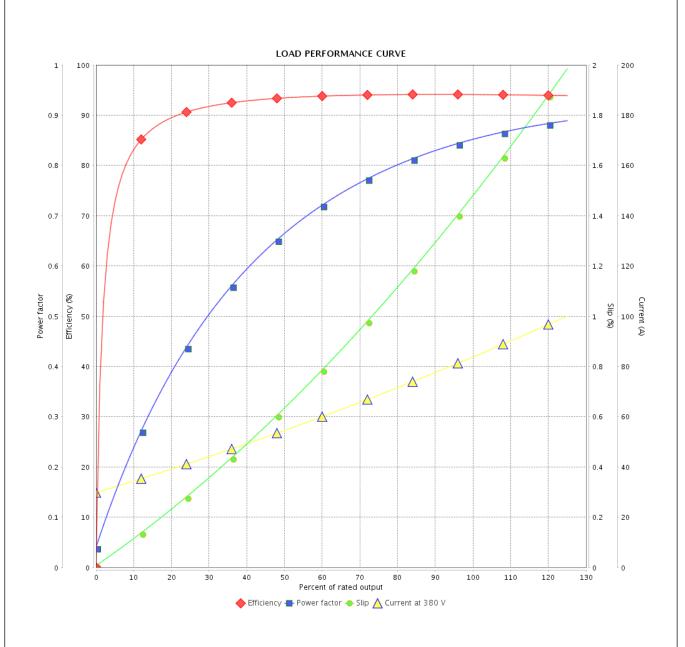
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Product line : NEMA Premium Efficiency Three-

Product code: 14428062

Catalog #: 07512ET3E405JP-W22



D (000 \ / 50 \ \ 00 \ 150				
Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 85.5 A : 6.4 : 320 ft.lb : 200 % : 240 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperation	class actor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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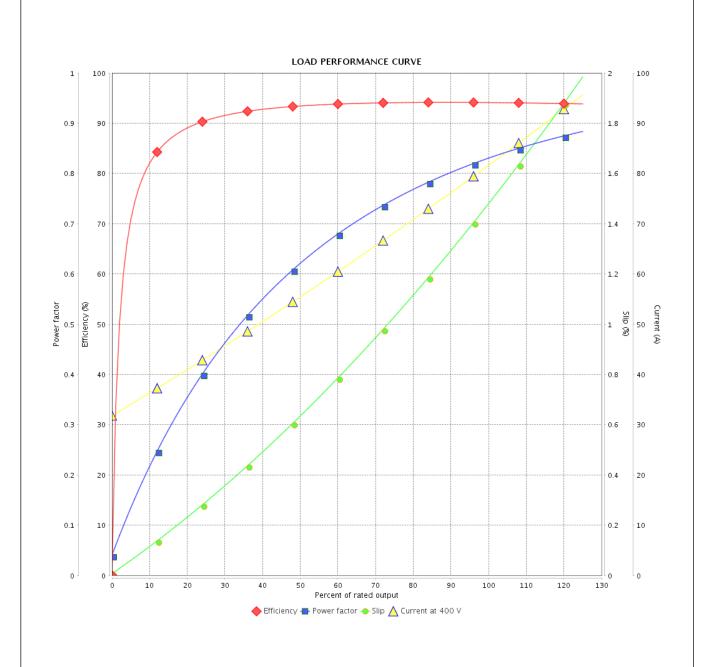


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14428062

Phase

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Performance	: : 4	100 V 50 Hz 6P IE3	3			
Rated current	: 8	33.2 A	Moment o	f inertia (J)	: 40.2 sq.ft.lb	
LRC	: 6	3.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	320 ft.lb	Insulation	class	: F	
Locked rotor torqu	ocked rotor torque : 240 %		Service fa	ctor	: 1.00	
Breakdown torque	: 2	270 % Temperat		ıre rise	: 80 K	
Rated speed	: 9	985 rpm	Design		: B	
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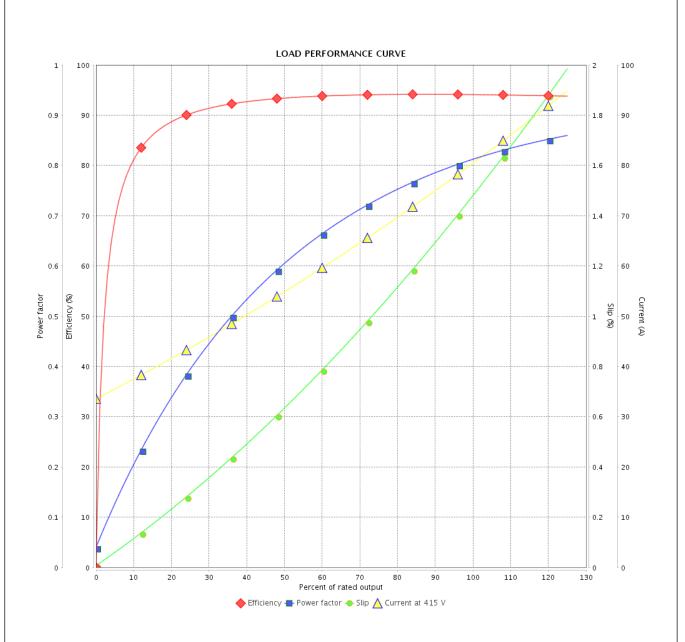
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14428062

Catalog #: 07512ET3E405JP-W22



Performance	: 415 V 50 Hz 6P IE3				
Rated current	: 82.1 A	Moment of	of inertia (J)	: 40.2 sq.ft.lb	
LRC : 7.3 Duty cycle		Э	: Cont.(S1)		
Rated torque	: 320 ft.lb	270 % Service factor		: F : 1.00 : 80 K	
Locked rotor torque	: 270 %				
Breakdown torque	: 290 %				
Rated speed	: 985 rpm	Design		: B	
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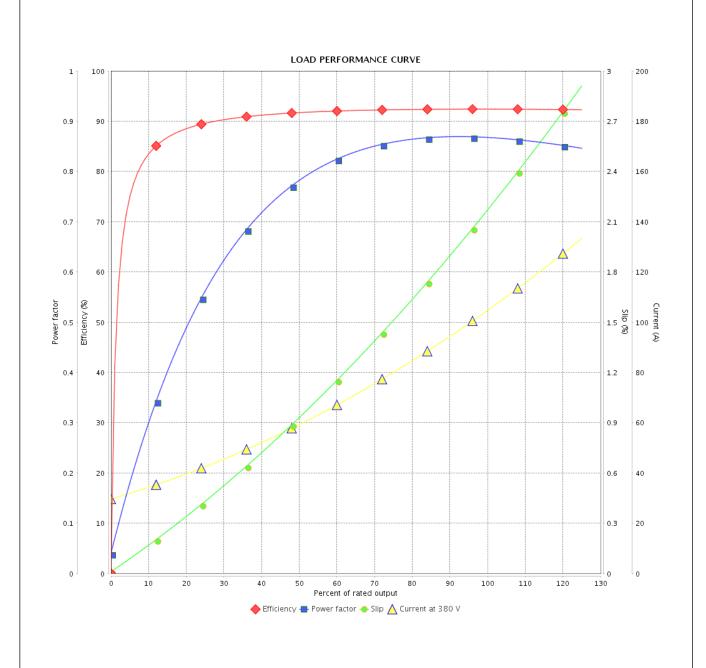
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14428062

Catalog #: 07512ET3E405JP-W22



Performance	: 3	80 V 50 Hz 6P IE1				
Rated current	: 1	04 A	Moment o	f inertia (J)	: 40.2 sq.ft.lb	
LRC	: 5	5.2	Duty cycle	;	: Cont.(S1)	
Rated torque : 40		03 ft.lb	Insulation	class	: F	
Locked rotor torque : '		70 %	Service fa	ctor	: 1.00	
Breakdown torque		80 %	Temperature rise		: 105 K	
Rated speed	: 9	78 rpm	Design		: B	
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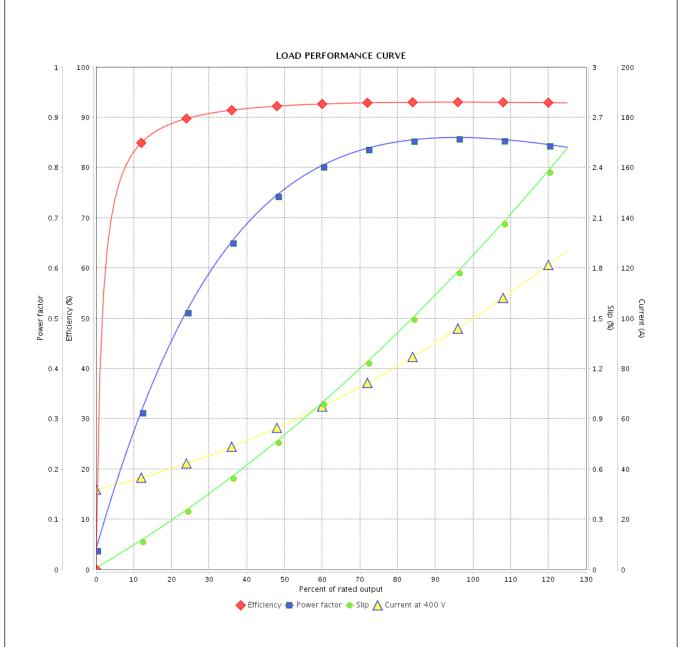
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Phase

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Performance	: 400 V 50 Hz 6P IE1				
Rated current	: 99.3 A Moment of		nertia (J)	: 40.2 sq.ft.lb	
LRC : 5.7		Duty cycle		: Cont.(S1)	
Rated torque	: 401 ft.lb	Insulation c	lass	: F	
Locked rotor torque	: 190 %	Service factor		: 1.00	
Breakdown torque	: 200 %	Temperature rise		: 105 K	
Rated speed	: 981 rpm	Design		: B	
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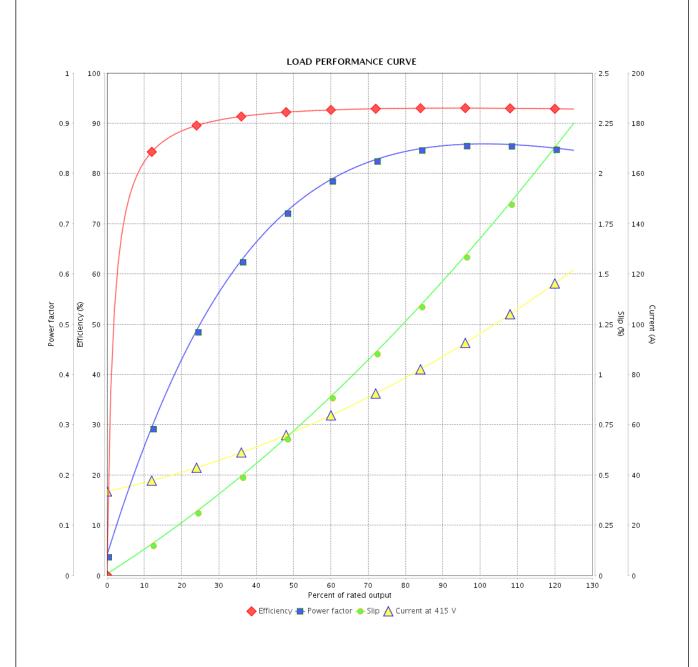


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14428062

Phase

Catalog #: 07512ET3E405JP-W22



Performance	: 4	15 V 50 Hz 6P IE1				
Rated current	: 9	95.7 A	Moment o	f inertia (J)	: 40.2 sq.ft.lb	
LRC	: 6	5.2	Duty cycle	!	: Cont.(S1)	
Rated torque	: 4	01 ft.lb	Insulation class		: F	
Locked rotor torqu	sked rotor torque : 210 %		Service fa	ctor	: 1.00	
Breakdown torque : 220 %		220 %	Temperature rise		: 105 K	
Rated speed	: 9	983 rpm	Design		: B	
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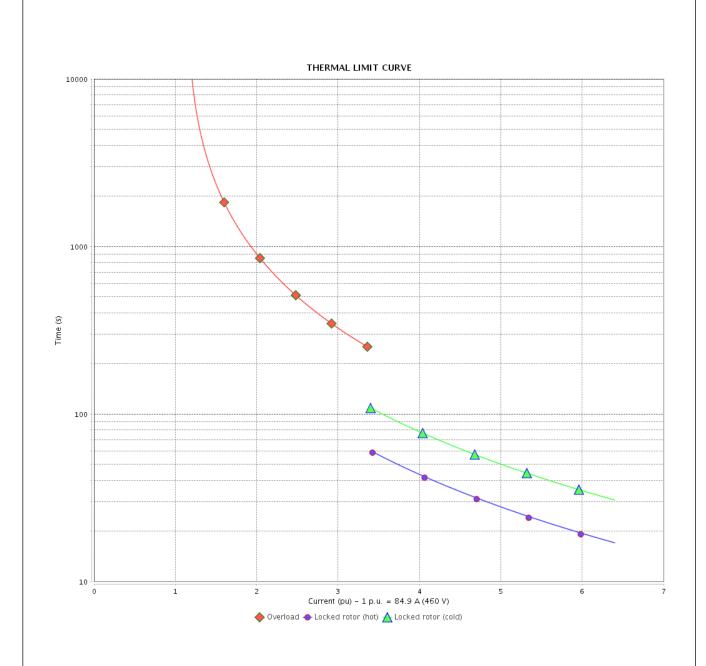


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	14428062 07512ET3E40	05JP-W22
Performance		30/460 V 60 Hz 6P	T	6 : (: ()	40.0 6.11	
Rated current LRC	: 17 : 6.	70/84.9 A 4	Moment o Duty cycle	f inertia (J)	: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque	: 33	33 ft.lb	Insulation	class	: F	
Locked rotor torqu Breakdown torque		29 % 29 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		184 rpm	Design		: B	
Heating constant						
Cooling constant						
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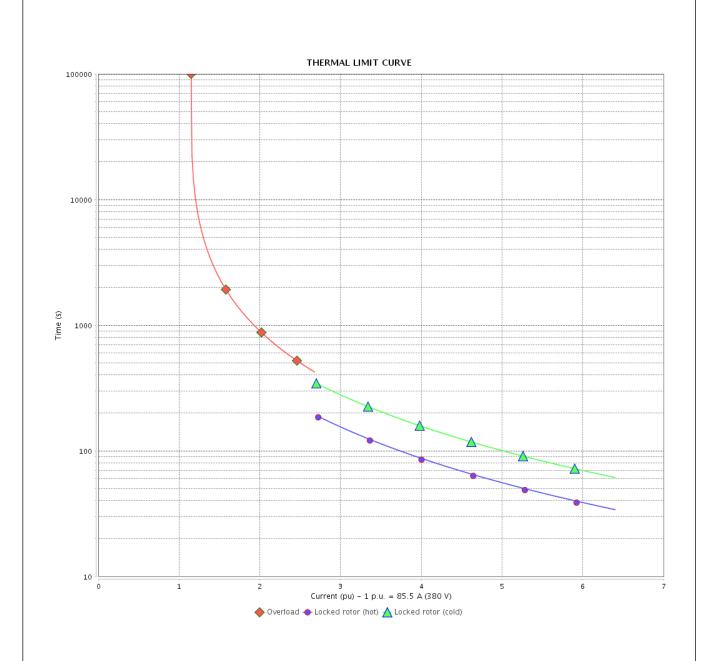


Customer	:					
Product line	: N	NEMA Premium Efficiency hase	Three-	Product code :	14428062	
	11	liase		Catalog # :	07512ET3E4	05JP-W22
Performance		80 V 50 Hz 6P IE3				
Rated current LRC	: 85 : 6.	5.5 A 4	Moment o	f inertia (J)	: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque	: 32	20 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		00 % 40 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		35 rpm	Design	5 1100	: B	
Heating constant						
Cooling constant					0	
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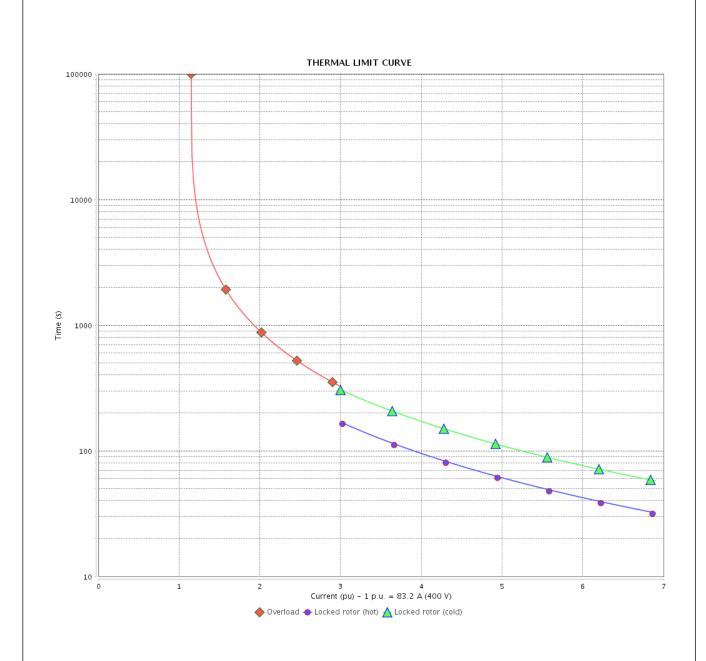


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14428062 07512ET3E40	05JP-W22
Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque		: 83.2 A : 6.9 : 320 ft.lb	Moment of Duty cycle Insulation		: 40.2 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu	que	: 240 % : 270 %	Service fa Temperat	actor	: 1.00 : 80 K	
Rated speed		: 985 rpm	Design	uio 1136	: B	
Heating constan						
Cooling constant	l	Changes Summary		Performed	Checked	Date
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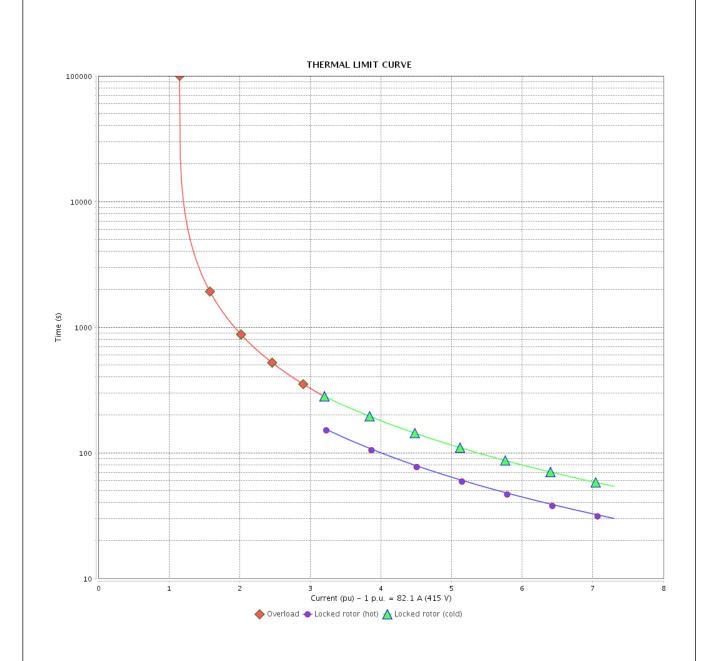


Customer	:					
Product line		NEMA Premium Efficiency hase	Three-	Product code :	14428062	
	• •	11430		Catalog # :	07512ET3E40)5JP-W22
Performance		15 V 50 Hz 6P IE3				
Rated current LRC	: 82 : 7.	2.1 A 3	Moment o Duty cycle	f inertia (J)	: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque	: 32	20 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		70 % 90 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		35 rpm	Design		: B	
Heating constant						
Cooling constant		Channa O		Dorf !	Oh!!	D-t-
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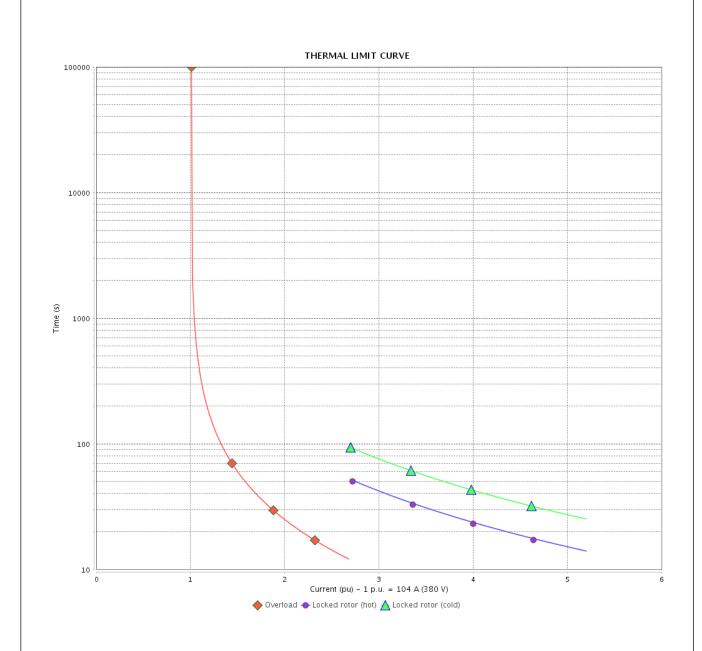


Customer	:				
Product line	: NEMA Premium Effic	iency Three-	Product code :	14428062	
	Phase		Catalog # :	07512ET3E4	05JP-W22
Performance	: 380 V 50 Hz 6P IE1				
Rated current	: 104 A	Moment of	of inertia (J)	: 40.2 sq.ft.lb	
LRC Rated torque	: 5.2 : 403 ft.lb	Duty cycle Insulation	e Lolass	: Cont.(S1) : F	
Locked rotor torque	: 170 %	Service fa	actor	: 1.00	
Breakdown torque Rated speed	: 180 % : 978 rpm	Temperat Design	ure rise	: 105 K : B	
	. στο τριτι	Design			
Heating constant Cooling constant					
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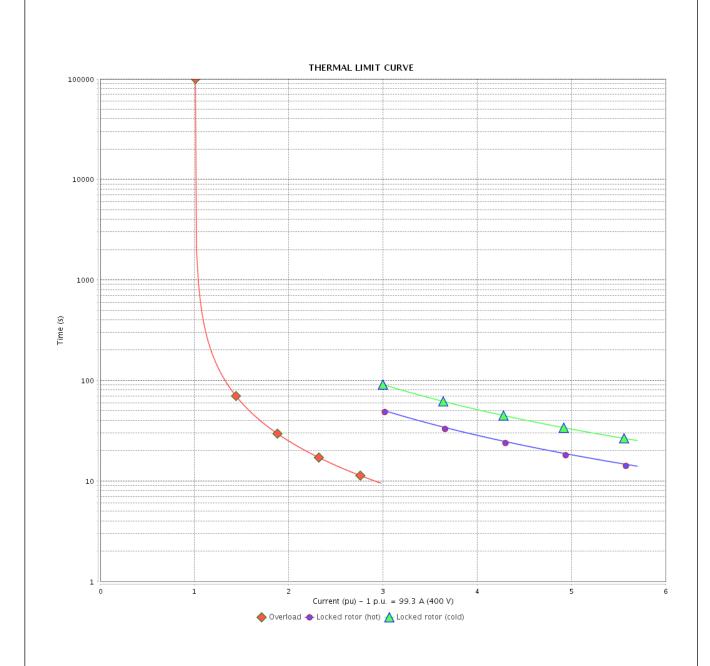


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14428062 07512ET3E40	05JP-W22
Performance		: 400 V 50 Hz 6P IE1				
Rated current LRC		: 99.3 A : 5.7	Moment of Duty cycle	of inertia (J) e	: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque		: 401 ft.lb : 190 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu	ue	: 200 %	Temperat		: 105 K	
Rated speed		: 981 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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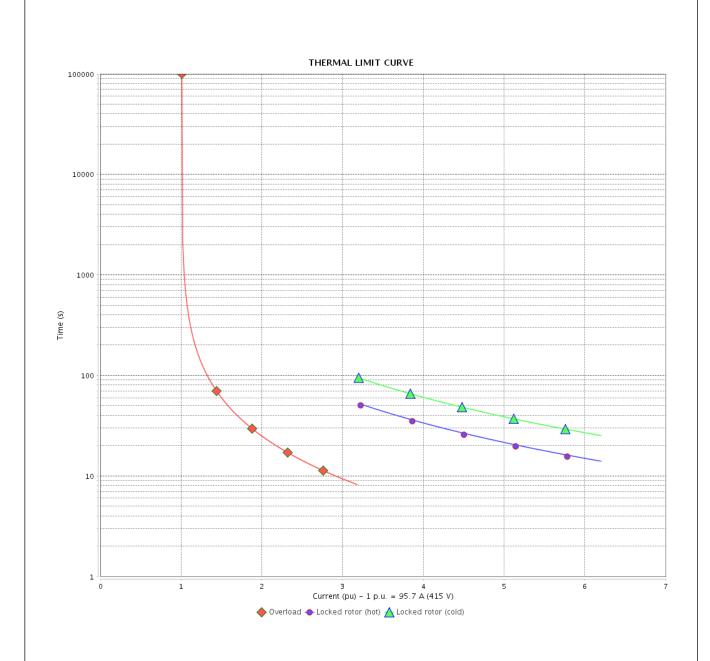


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14428062 07512ET3E40	95JP-W22
Performance		: 415 V 50 Hz 6P IE1				
Rated current LRC		: 95.7 A : 6.2	Duty cycle		: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque		: 401 ft.lb : 210 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		: 210 % : 220 %	Temperat		: 1.00 : 105 K	
Rated speed		: 983 rpm	Design		: B	
Heating constant						
Cooling constant	l .	Changes Summers		Performed	Checked	Data
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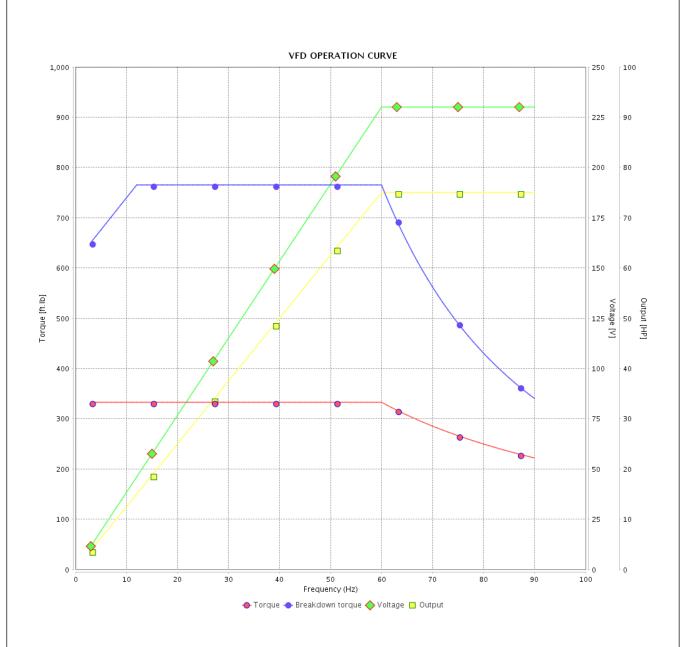
Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 14428062

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D . (200/400 \ / 00 05				
Performance		230/460 V 60 Hz 6F	,			
Rated current		170/84.9 A	1	Moment of inertia (J)		
		6.4	Duty cycle	Duty cycle		
Rated torque	ated torque : 333 ft.lb Insulation class		: F			
		229 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie : 2	229 %	Temperati	Temperature rise		
Rated speed	: 1	1184 rpm	Design		: B	
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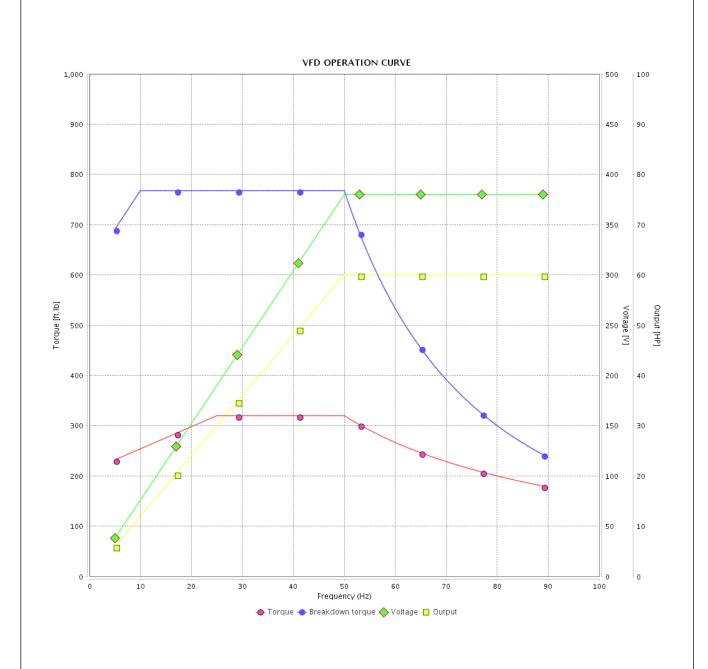
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14428062



Performance	: 38	80 V 50 Hz 6P IE3				
LRC : 6.4 Rated torque : 320 ft.lb Locked rotor torque : 200 % Breakdown torque : 240 %		Duty cycle Insulation Service fa	Moment of inertia (J) : 40.2 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
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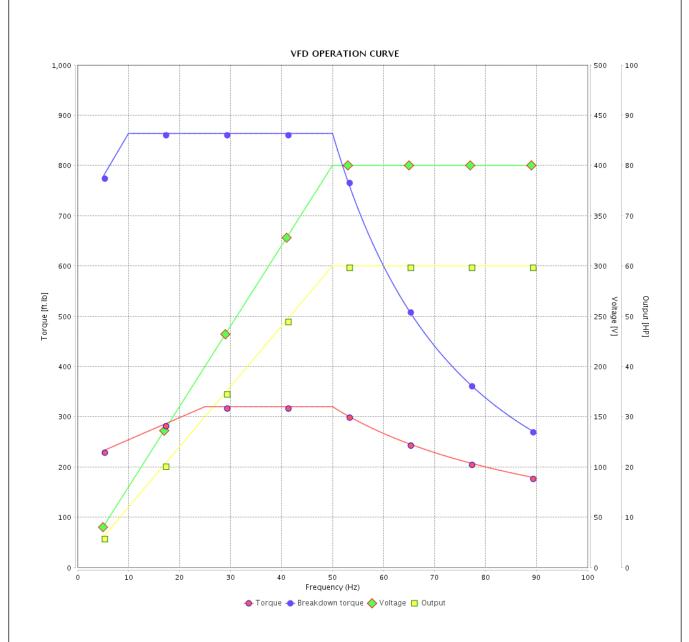
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14428062

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Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 32 que : 24 ue : 27	3.2 A 9 20 ft.lb 10 % 70 % 85 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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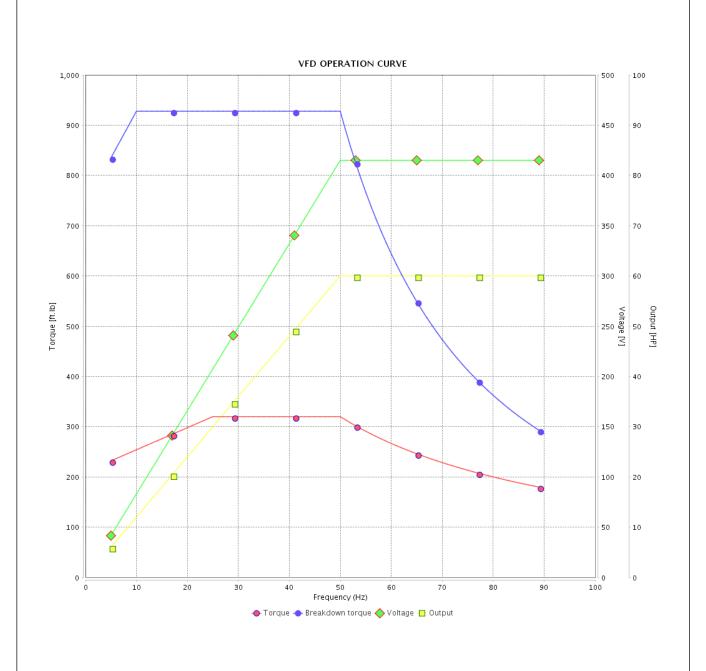


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Product line : NEMA Premium Efficiency Three- Product code : 14428062

Phase

Catalog #: 07512ET3E405JP-W22



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current : 8		2.1 A	Moment of inertia (J)		: 40.2 sq.ft.lb	
LRC : 7.0		.3	Duty cycle		: Cont.(S1)	
Rated torque : 3		20 ft.lb	Insulation class		: F	
Locked rotor torqu	e : 2	70 %	Service factor		: 1.00	
Breakdown torque	: 2	90 %	Temperati	ıre rise	: 80 K	
Rated speed	: 9	85 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

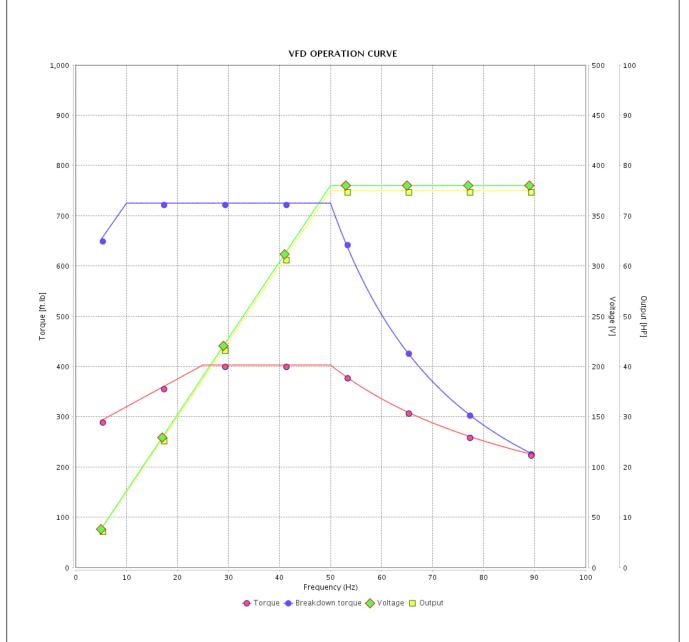
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Performance	:	380 V 50 Hz 6P IE	1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: : : : : : : :	104 A 5.2 403 ft.lb 170 % 180 % 978 rpm	Duty cy Insulation Service	on class	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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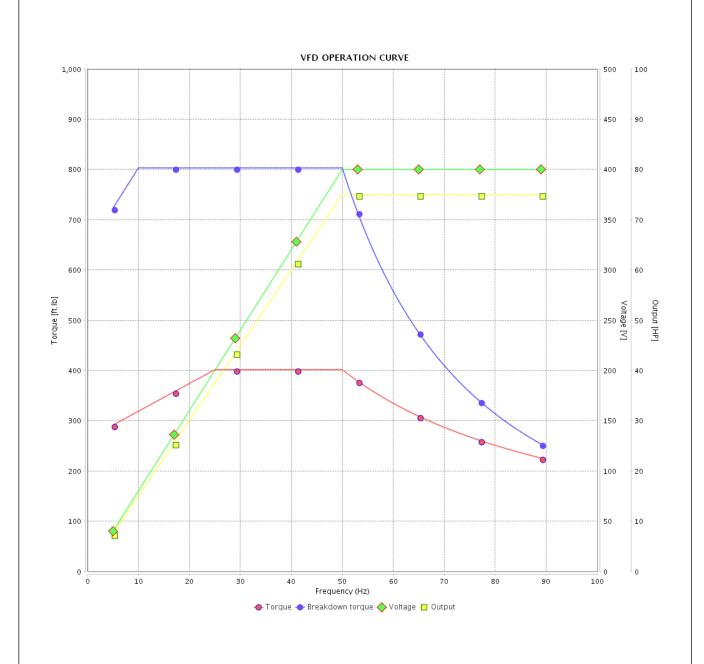
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14428062

Catalog #: 07512ET3E405JP-W22



Performance	: 4	00 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5. : 40 e : 19 : 20	99.3 A Moment of inertia (J)		class ctor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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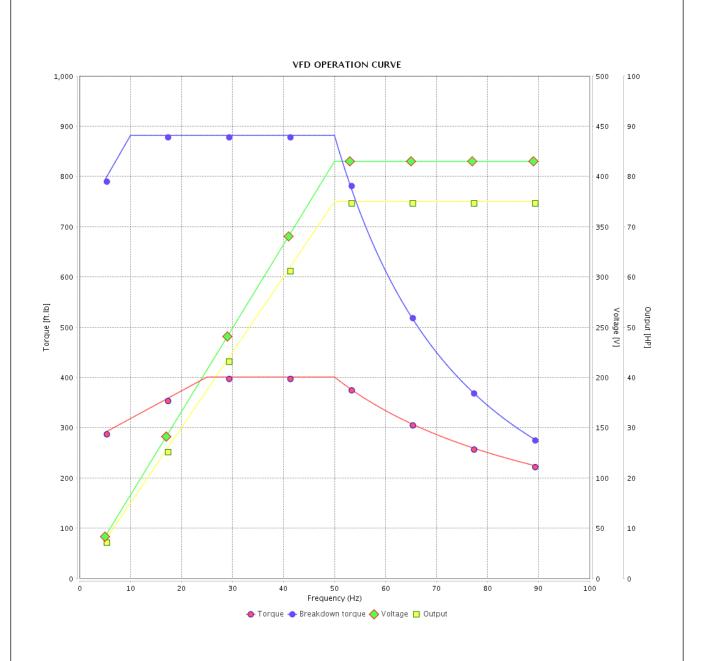
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07512ET3E405JP-W22

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Performance	: 415 V 50 Hz 6P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 95.7 A : 6.2 : 401 ft.lb : 210 % : 220 % : 983 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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