DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11458915

Catalog #: 07512ET3G405T-W22

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Starting method Ambient temperature : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 1187 lb

: IP55 Protection degree Moment of inertia (J) : 40.2 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]		460	380	400	415	380	400	415
Rated current [A]		84.9	85.5	83.2	82.1	104	99.3	95.7
L. R. Amperes [A]		543	547	574	599	541	566	593
LRC [A]		6.4x(Code	_	6.9x(Code H)				
		G)	G)	,	,	,	,	G)
No load current [A	1	30.0	29.7	31.8	33.5	29.7	31.8	33.5
Rated speed [RPN		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]	1	333	320	320	320	403	401	401
Locked rotor torqu		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
Linciency (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
	25%	0.49	0.44	0.40	0.38	0.55	0.51	0.49
Power Factor	50%	0.74	0.66	0.62	0.60	0.79	0.76	0.74
I OWELL ACIOI	75%	0.83	0.79	0.75	0.74	0.85	0.84	0.83
	100%	0.86	0.85	0.83	0.81	0.87	0.86	0.86

Drive end Non drive end Foundation loads

Bearing type 6316 C3 6314 C3 Max. traction : 2053 lb Sealing WSeal WSeal : 3239 lb Max. compression Lubrication interval 16000 h 17000 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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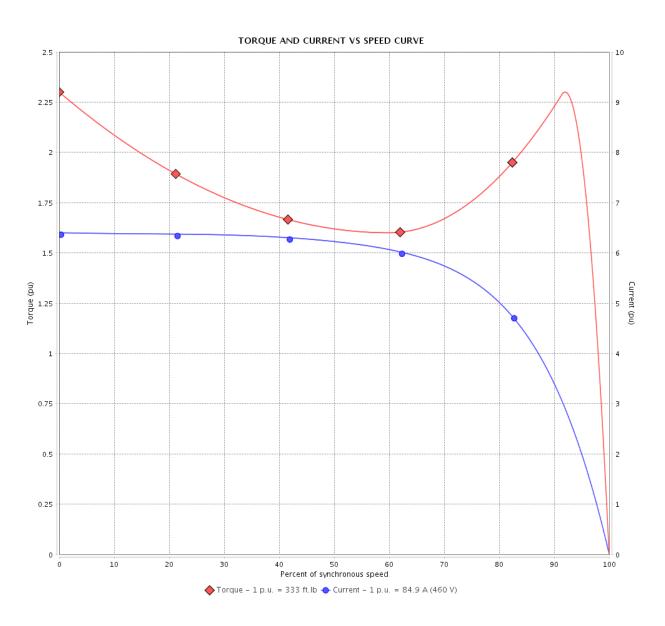
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 11458915

Catalog #: 07512ET3G405T-W22



Performance : 460 V 60 Hz 6P Rated current : 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: 11458915 Catalog #: 07512ET3G405T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (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) Performance : 380 V 50 Hz 6P IE3 Rated current : 85.5 A Moment of inertia (J) : 40.2 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 320 ft.lb Insulation class : F Rated torque : 200 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 240 % Temperature rise Rated speed : B : 985 rpm Design Locked rotor time : 61s (cold) 34s (hot)

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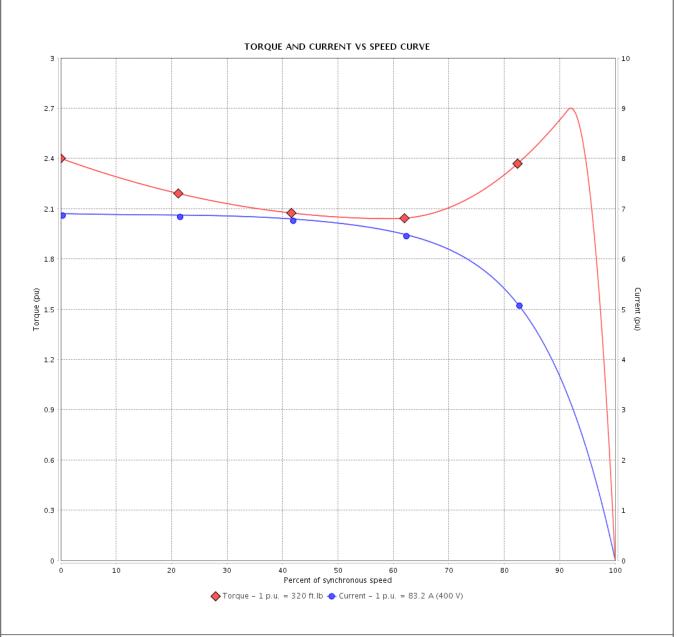
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 11458915

Catalog #: 07512ET3G405T-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

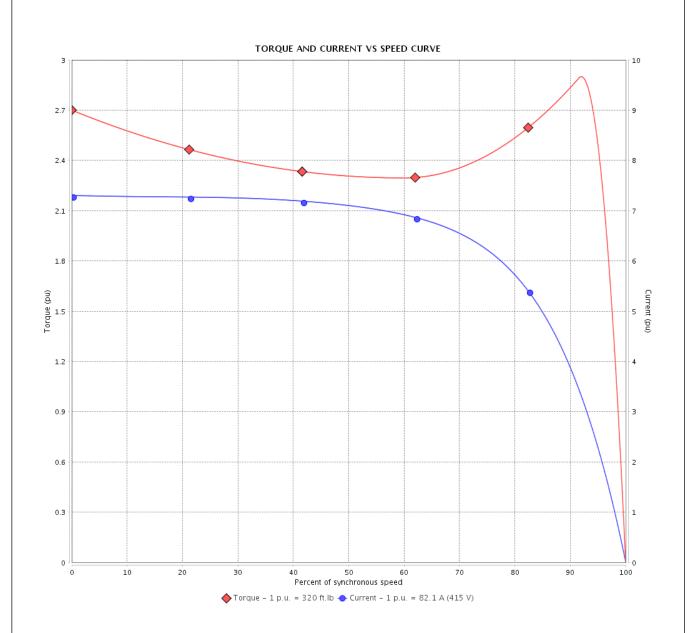
Locked rotor time : 57s (cold) 32s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11458915 Catalog #: 07512ET3G405T-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) : 320 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K : B Rated speed : 985 rpm Design Locked rotor time : 54s (cold) 30s (hot)

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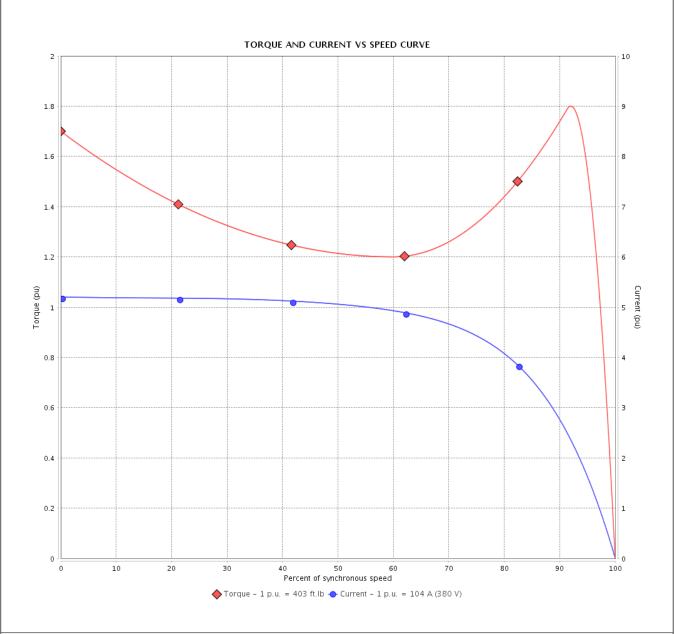
Customer :

Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 11458915

Catalog #: 07512ET3G405T-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) : 403 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.00 : 180 % Breakdown torque Temperature rise : 105 K Rated speed : 978 rpm Design : B

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

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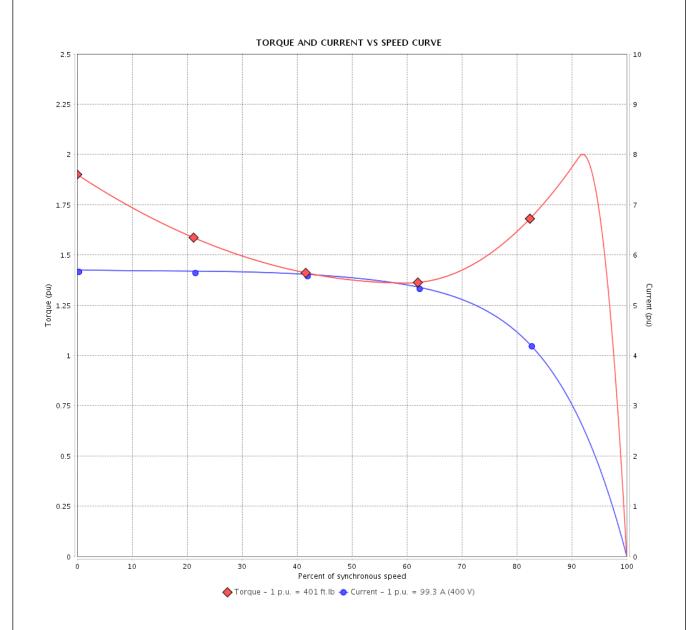
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11458915

Catalog #: 07512ET3G405T-W22



Performance	: 400 V 50 Hz 6P IE1		
Rated current	: 99.3 A	Moment of inertia (J)	: 40.2 sq.ft.lb
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 401 ft.lb	Insulation class	:F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 981 rpm	Design	: B
Locked rotor time	· 25s (cold) 14s (hot)		

LOCKCU TOLOT LITTE	. 2	55 (COId) 145 (HOL)			
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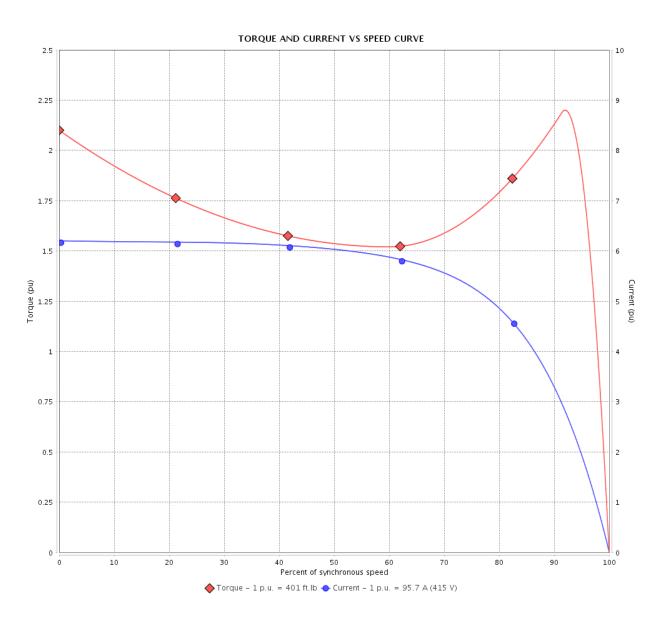


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11458915

Phase

Catalog #: 07512ET3G405T-W22



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

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

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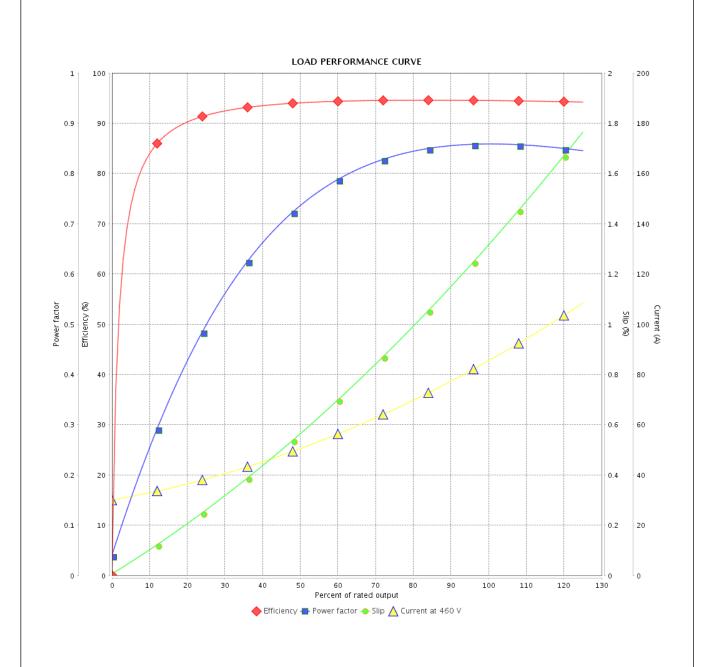


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11458915

Phase

Catalog #: 07512ET3G405T-W22



Performance	: 4	160 V 60 Hz 6P				
Rated current	: 8	34.9 A	Moment o	f inertia (J)	: 40.2 sq.ft.lb	
LRC	: 6	6.4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	333 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	229 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	229 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	1184 rpm	Design		: B	
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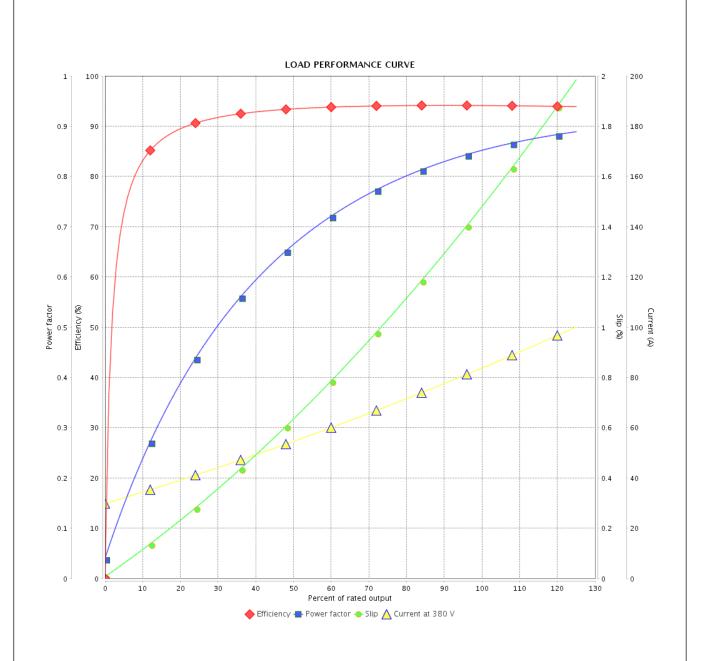
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07512ET3G405T-W22

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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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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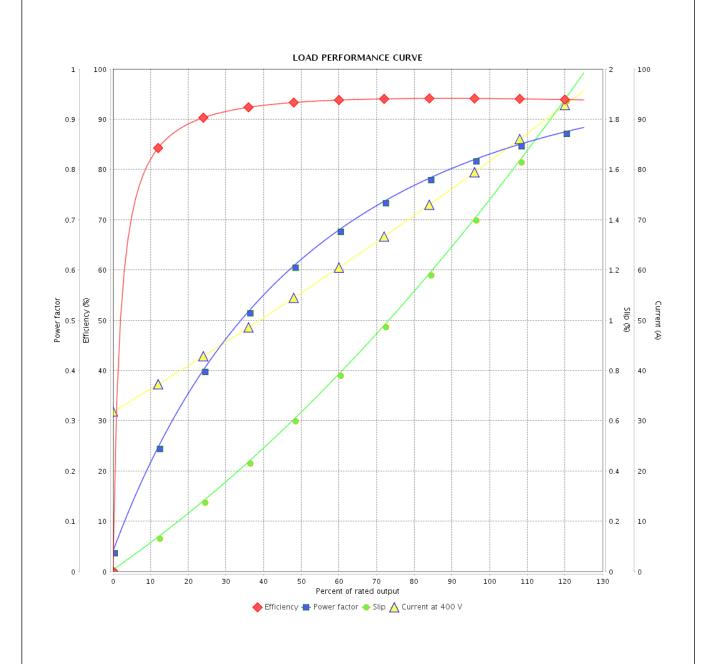


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Product line : NEMA Premium Efficiency Three- Product code : 11458915

Phase

Catalog #: 07512ET3G405T-W22



Performance	: 4	400 V 50 Hz 6P IE3	}			
Rated current	: 8	83.2 A	Moment o	f inertia (J)	: 40.2 sq.ft.lb	
LRC	: (6.9	Duty cycle	, ,	: Cont.(S1)	
Rated torque	: :	320 ft.lb	Insulation		: F ` ´	
Locked rotor torqu	e : 2	240 %	Service fa	Service factor		
Breakdown torque	: 1	270 %			: 80 K	
Rated speed	: 9	985 rpm			: B	
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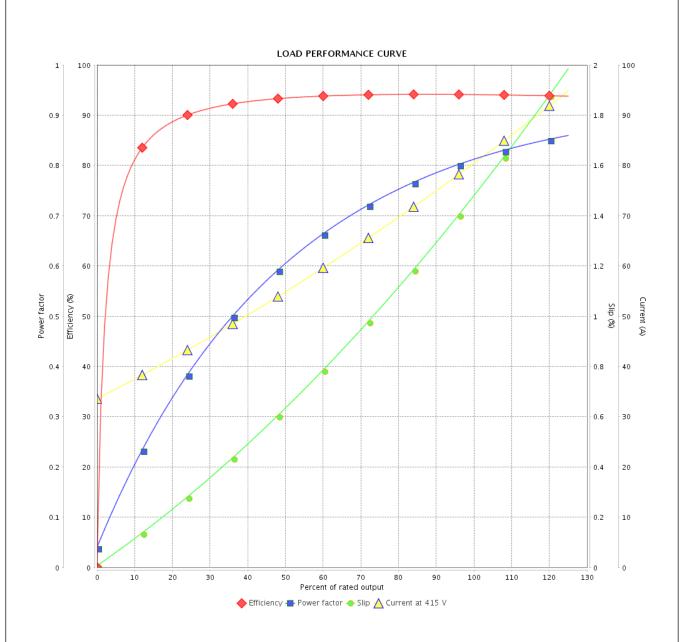
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11458915

Catalog #: 07512ET3G405T-W22



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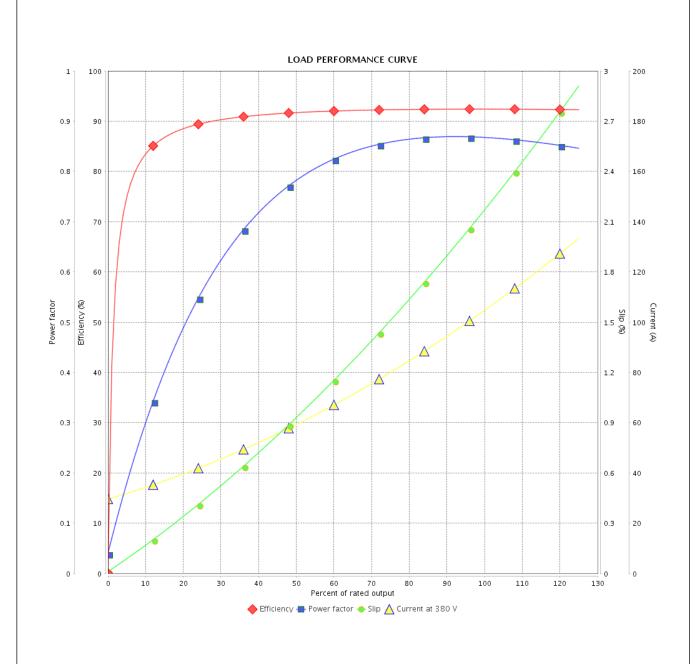
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11458915

Phase

Catalog #: 07512ET3G405T-W22

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Performance	: 380 V 50 Hz 6P IE1				
Rated current : 104 A Moment of LRC : 5.2 Duty cycle Rated torque : 403 ft.lb Insulation c Locked rotor torque : 170 % Service fact Breakdown torque : 180 % Temperatur Rated speed : 978 rpm Design		n class : F actor : 1.00			
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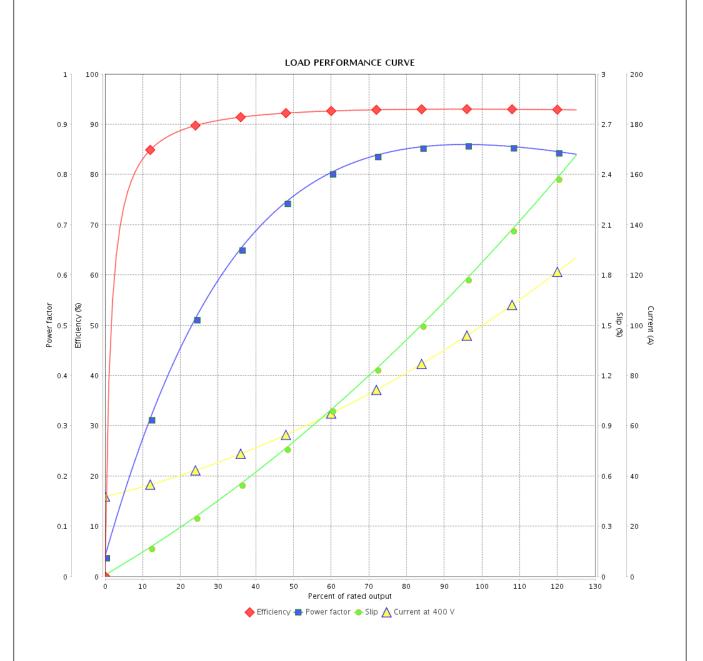


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11458915

Phase

Catalog #: 07512ET3G405T-W22



Performance	: 4	00 V 50 Hz 6P IE1				
Rated current	: 9	9.3 A	Moment of	of inertia (J)	: 40.2 sq.ft.lb	
LRC	: 5	5.7	Duty cycle	е	: Cont.(S1)	
Rated torque	: 4	01 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : 1	90 %	Service factor		: 1.00	
Breakdown torque : 200 %		Temperat	ure rise	: 105 K		
Rated speed	: 9	81 rpm	Design		: B	
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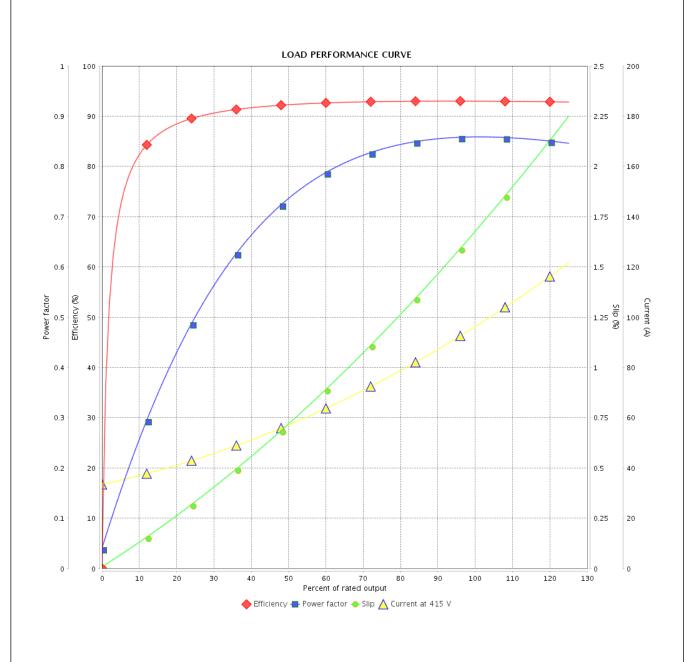


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11458915

Phase

Catalog #: 07512ET3G405T-W22



Performance	: 4	415 V 50 Hz 6P IE1				
Rated current	: 9	95.7 A	Moment o	f inertia (J)	: 40.2 sq.ft.lb	
LRC	: (6.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 4	401 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	210 %	Service fa	ctor	: 1.00	
Breakdown torque		220 %	Temperature rise		: 105 K	
Rated speed	: 9	983 rpm	Design		: B	
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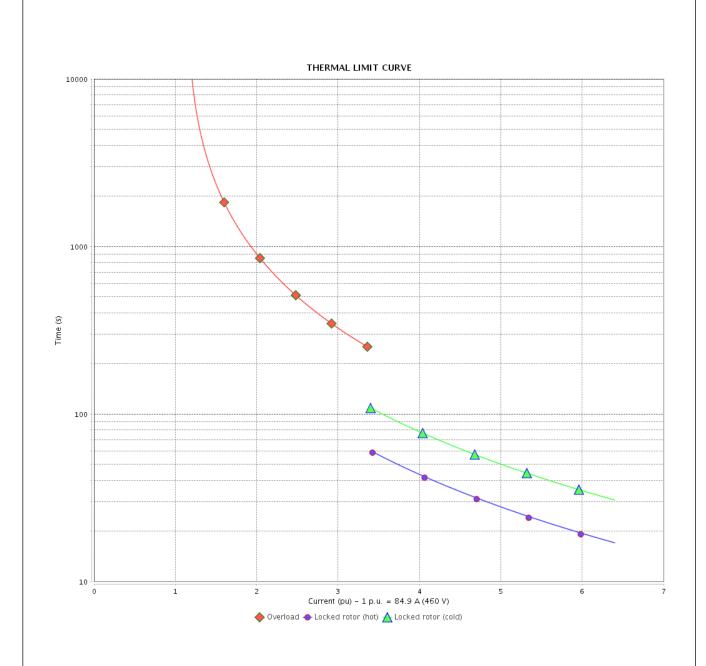


Customer	:	:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11458915 07512ET3G4	05T-W22
Performance	: -	460 V 60 Hz 6P				
Rated current LRC		84.9 A 6.4	Moment of Duty cycle	of inertia (J)	: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque	::	333 ft.lb 229 %	Insulation Service fa	class	: F : 1.25	
Locked rotor torque Breakdown torque		229 % 229 %	Temperati		: 1.25 : 80 K	
Rated speed		1184 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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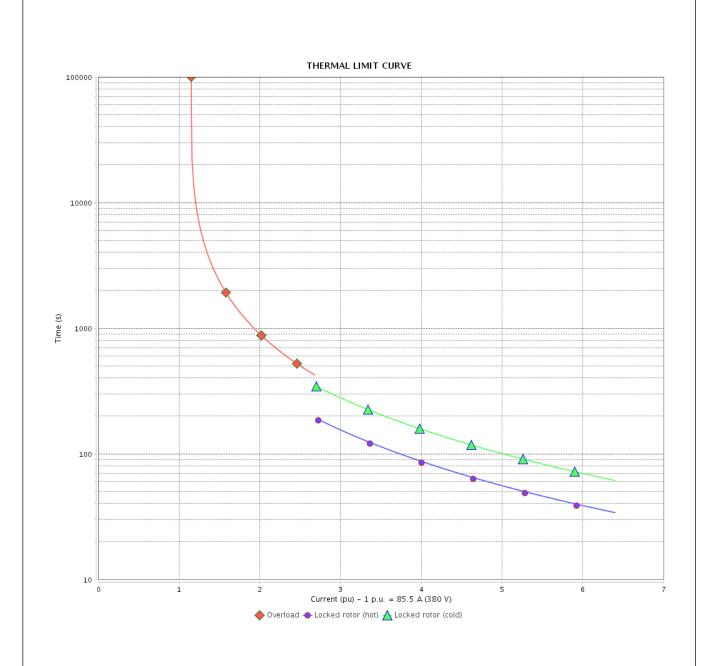


Product line : NEMA Premium Efficiency Three-Product of Phase Catalog #		
Phase		
Catalog #		
	t: 07512ET3G40	5T-W22
Performance : 380 V 50 Hz 6P IE3		
Rated current : 85.5 A Moment of inertia (LRC : 6.4 Duty cycle Rated torque : 320 ft.lb Insulation class Locked rotor torque : 200 % Service factor Breakdown torque : 240 % Temperature rise Rated speed : 985 rpm Design	J) : 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant		
Cooling constant Changes Summany Parto	rmod Chaoliad	Data
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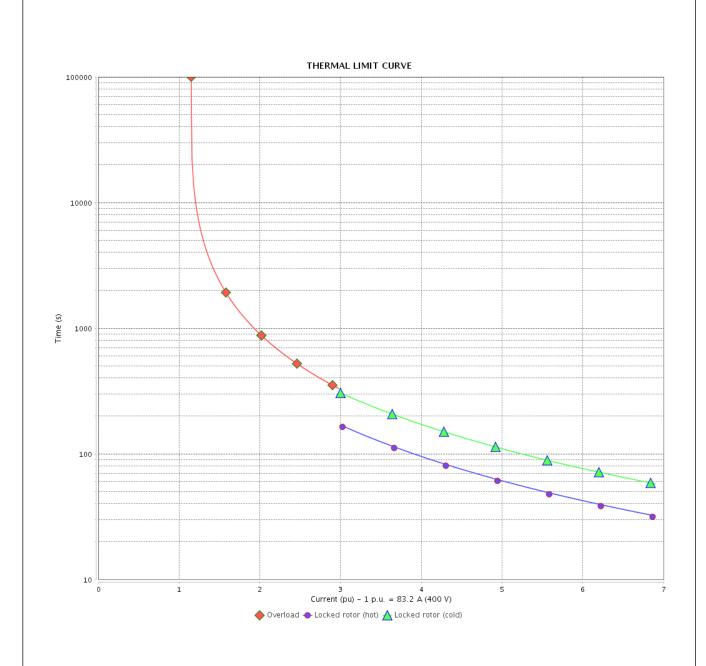


Customer	:				
	•				
Product line	: NEMA Premium Efficiency ¹ Phase	Three-	Product code :	11458915	
	THOSE	(Catalog # :	07512ET3G40	05T-W22
Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC	: 83.2 A : 6.9	Moment of Duty cycle	f inertia (J)	: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque	: 320 ft.lb	Insulation	class	: F	
Locked rotor torque	: 240 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed	: 270 % : 985 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant					
Cooling constant		1			
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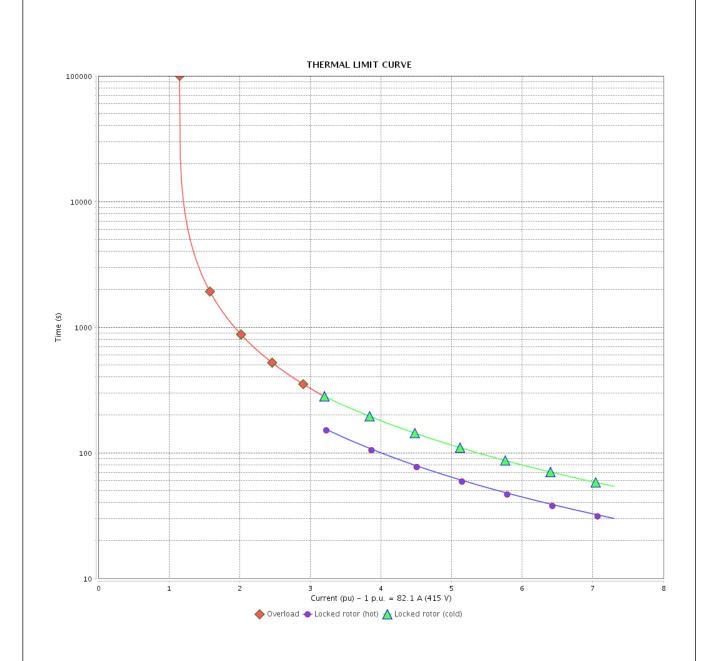


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11458915 07512ET3G40	05T-W22
Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC		: 82.1 A : 7.3	Duty cycle		: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 320 ft.lb : 270 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 290 %	Temperat		: 80 K	
Rated speed		: 985 rpm	Design		: B	
Heating constan						
Cooling constant	Ţ	Changes Summers		Performed	Checked	Date
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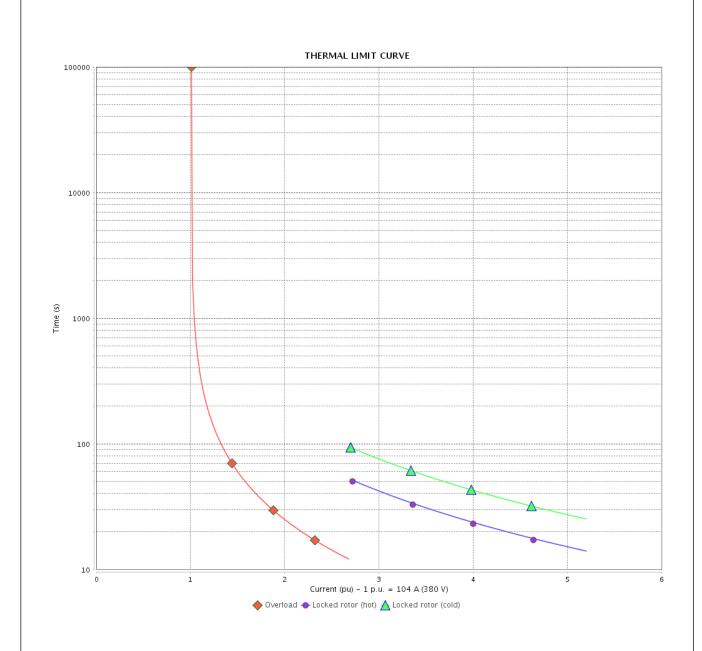


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11458915 07512ET3G40	05T-W22
Performance		: 380 V 50 Hz 6P IE1				
Rated current		: 104 A	Moment o	of inertia (J)	: 40.2 sq.ft.lb	
LRC Rated torque		: 5.2 : 403 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 170 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 180 % : 978 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constan	t					
Cooling constant	t					
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Three Phase Induction Motor - Squirrel Cage



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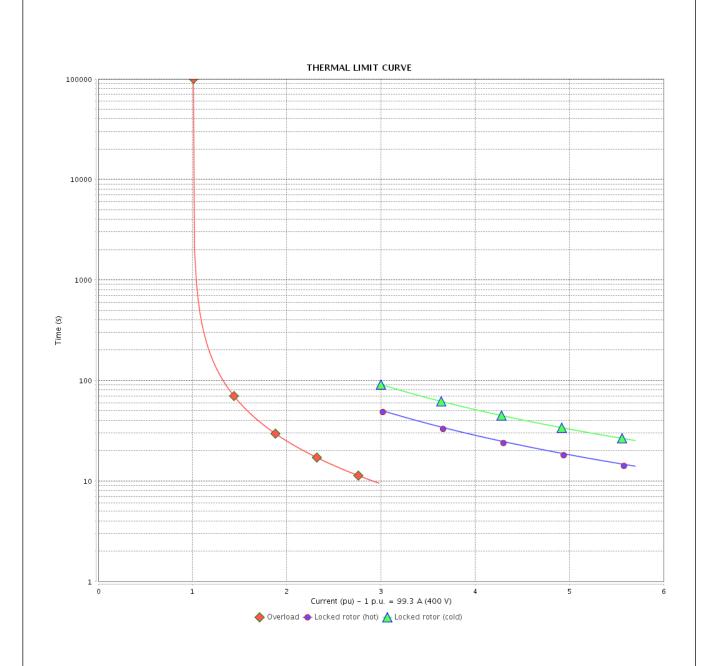


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11458915 07512ET3G40	05T-W22
				<u> </u>		
Performance		: 400 V 50 Hz 6P IE1				
Rated current LRC		: 99.3 A : 5.7	Moment of Duty cycle	of inertia (J)	: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque		: 401 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 190 % : 200 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 981 rpm	Design	uic lise	: B	
Heating constan						
Cooling constan	t					
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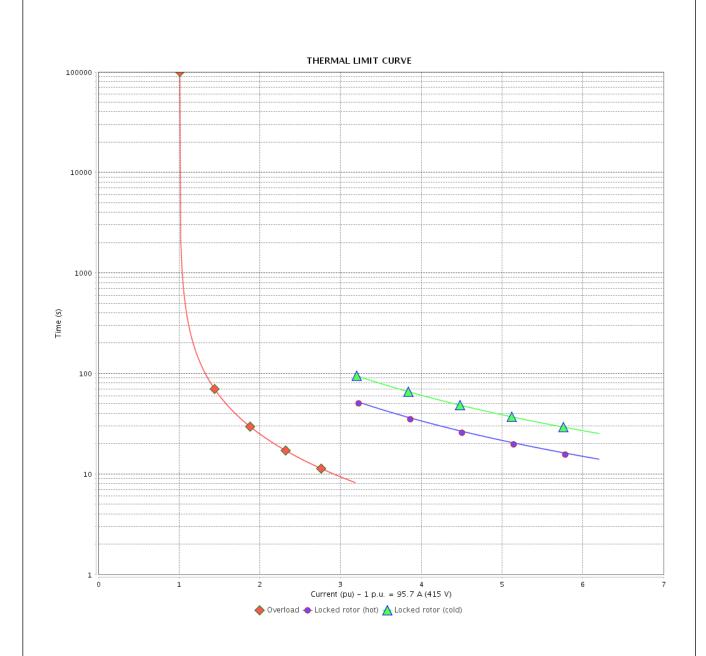


Customer	:			-	
	•				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11458915	
	i ilase	(Catalog # :	07512ET3G4	05T-W22
Performance	: 415 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 95.7 A : 6.2 : 401 ft.lb : 210 % : 220 % : 983 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
	· r ···	7 - 3			
Heating constant Cooling constant					
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Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product of

Phase

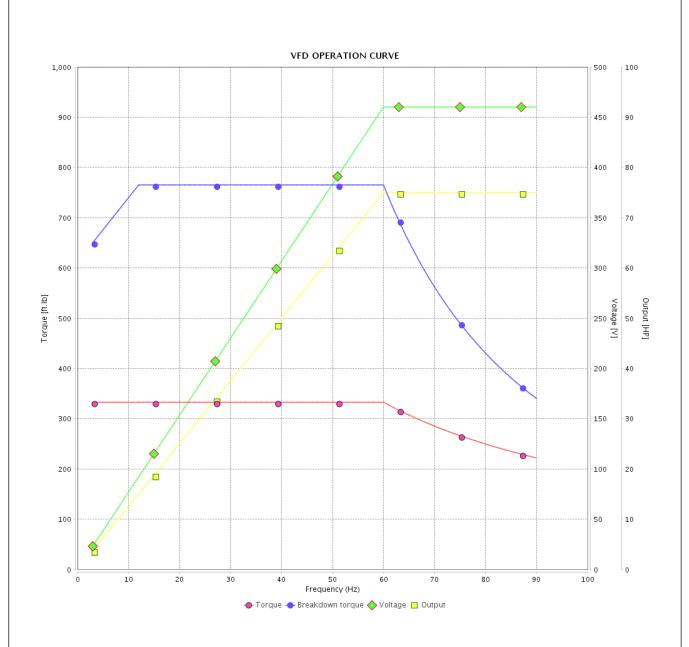
Product code: 11458915

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

Three Phase Induction Motor - Squirrel Cage

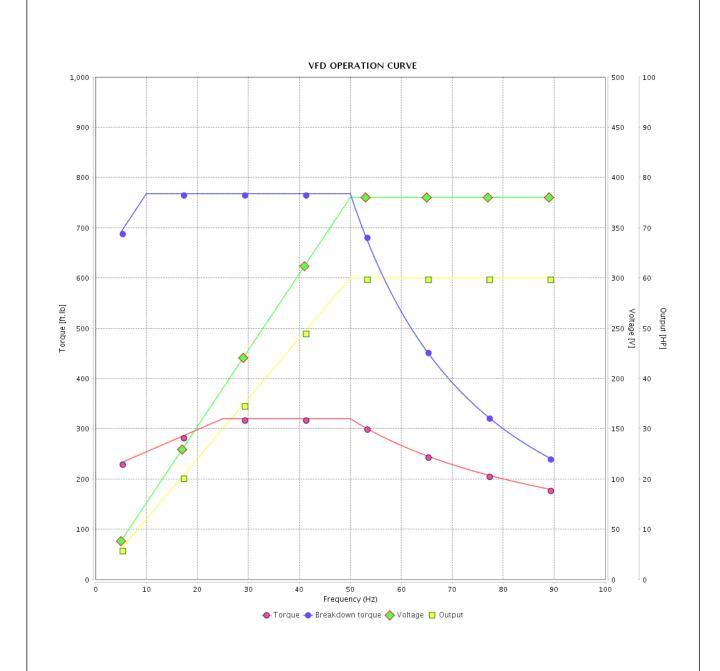


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Product line : NEMA Premium Efficiency Three- Product code : 11458915

Phase

Catalog #: 07512ET3G405T-W22



Performance	: 3	80 V 50 Hz 6P IE3				
Rated current	: 8	: 85.5 A Mome		f inertia (J)	: 40.2 sq.ft.lb	
LRC	: 6	4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3:	20 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 20	00 %	Service fa	ctor	: 1.00	
Breakdown torque	: 24	40 %	Temperati	ıre rise	: 80 K	
Rated speed	: 98	85 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Product

Phase

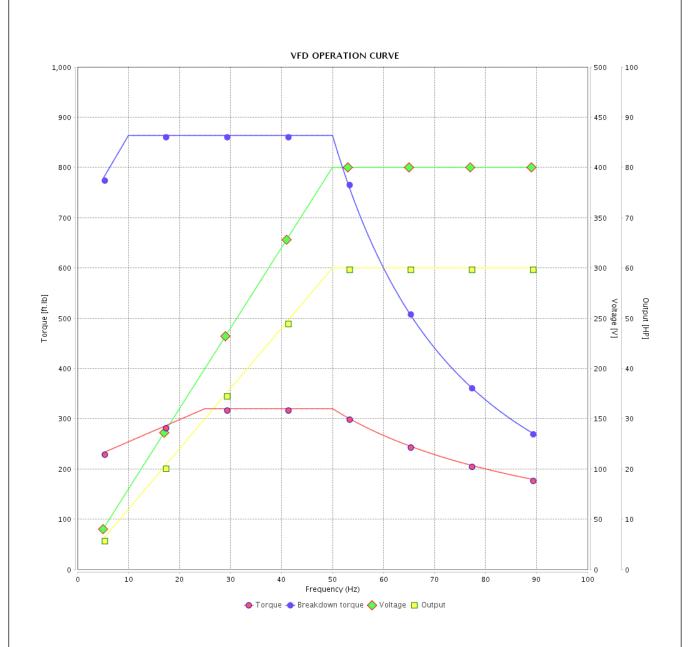
Product code: 11458915

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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) : 320 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

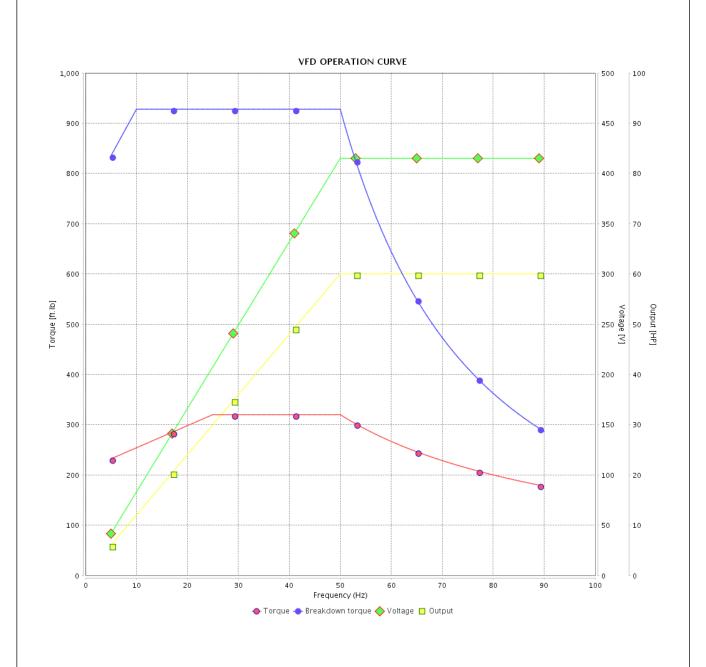


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11458915

Phase

Catalog #: 07512ET3G405T-W22



Performance	· 1	15 V 50 Hz 6P IE3				
			1			
Rated current	: 82	2.1 A	Moment o	f inertia (J)	: 40.2 sq.ft.lb	
LRC	: 7.	.3	Duty cycle	;	: Cont.(S1)	
Rated torque	: 32	20 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	70 %	Service fa	ctor	: 1.00	
Breakdown torque		90 %	Temperature rise		: 80 K	
Rated speed	: 98	85 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

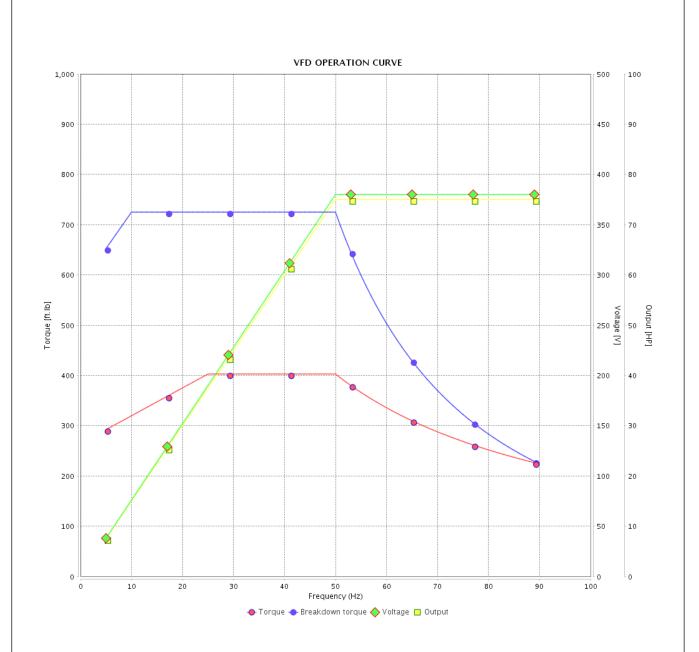
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Performance	: 380 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 104 A : 5.2 : 403 ft.lb : 170 % : 180 % : 978 rpm	Moment of inertia (J) : 40.2 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 105 K Design : B		: Cont.(S1) : F : 1.00 : 105 K	
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Three Phase Induction Motor - Squirrel Cage

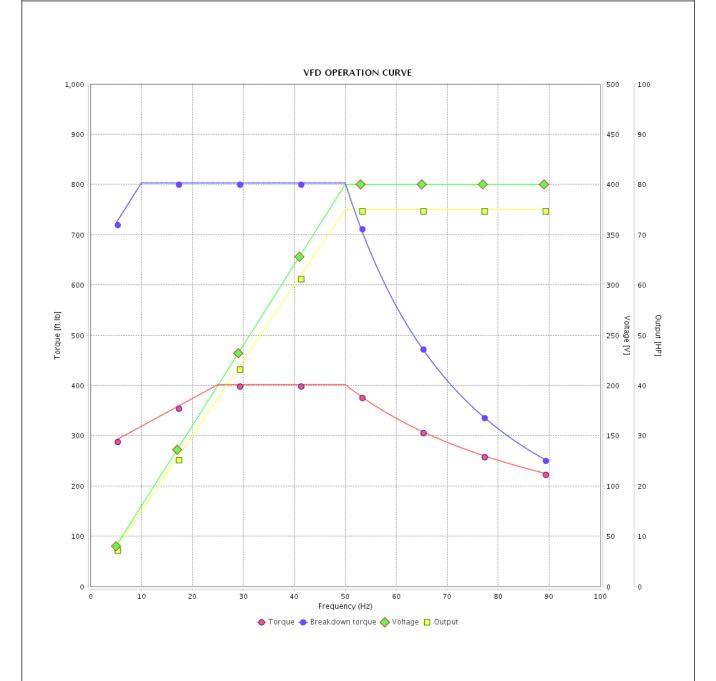


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Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 07512ET3G405T-W22

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Performance	: 40	00 V 50 Hz 6P IE1				
Rated current	: 99	9.3 A Moment of inertia (J		of inertia (J)	: 40.2 sq.ft.lb	
LRC	: 5.	.7	Duty cycle	e ` ´	: Cont.(S1)	
Rated torque	: 40	01 ft.lb	Insulation	class	: F	
Locked rotor torg	ue : 19	90 %	Service fa	ictor	: 1.00	
Breakdown torqu	ie : 20	00 %	Temperati	ure rise	: 105 K	
Rated speed	: 98	81 rpm	Design		: B	
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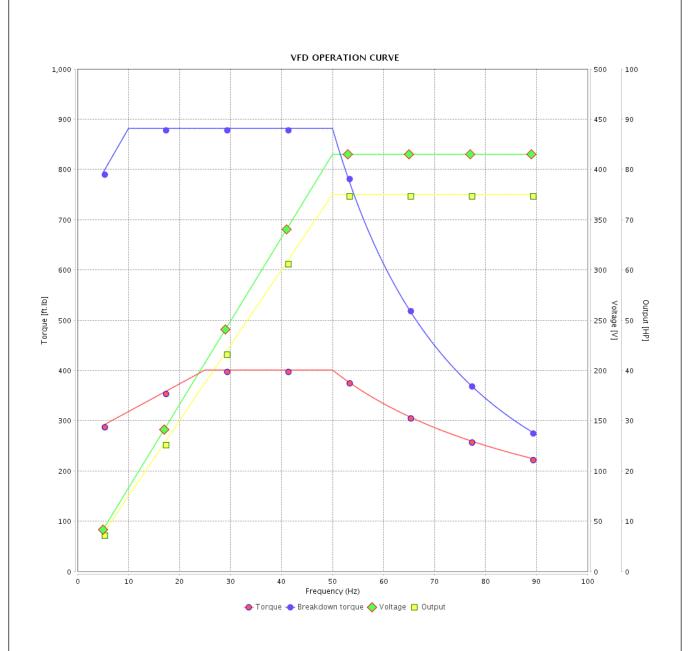
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Revision



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

