DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13273081

Catalog #: 07512ET3E405T-W22G

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 : 1190 lb Protection degree : IP55 Moment of inertia (J) : 40.2 sq.ft.lb

Design	5	: B		IVIOITIEI	Moment of mertia (3) . 40.2		0.2 Sq.It.ID	
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
Liliciency (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
FOWEI FACIOI	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 : 2051 lb Sealing WSeal WSeal Max. compression : 3241 lb 17000 h Lubrication interval 16000 h

Lubricant amount 34 g 27 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 188A SF 1.10 SFA 207A

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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Three Phase Induction Motor - Squirrel Cage



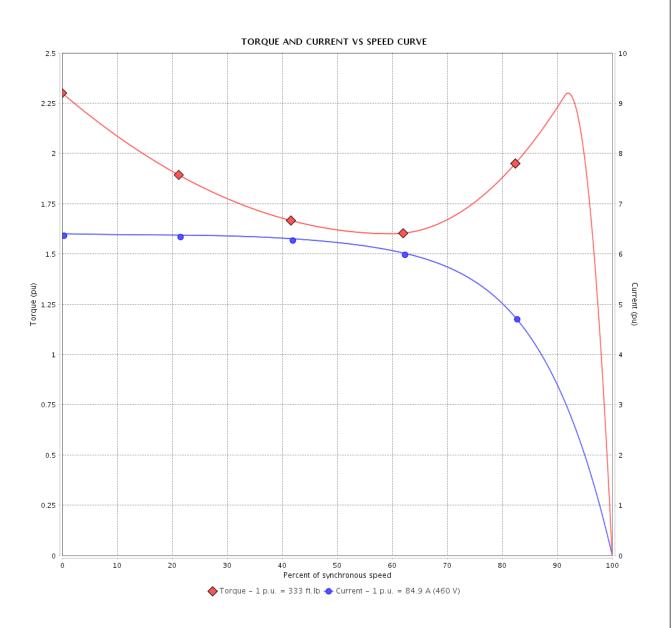
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13273081

Catalog #: 07512ET3E405T-W22G



: 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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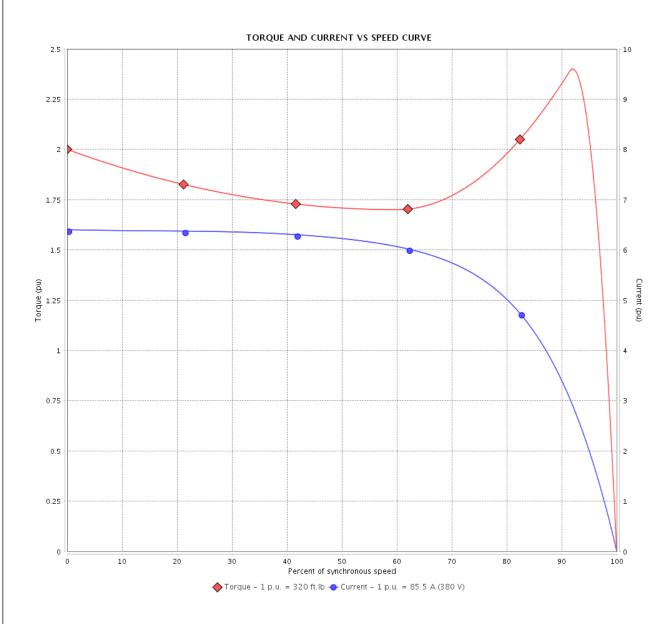


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13273081

Catalog

Catalog #: 07512ET3E405T-W22G



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)	
Rated torque	: 320 ft.lb	Insulation class	:F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	

Locked rotor time : 61s (cold) 34s (hot)

LOCKEU TOLOT LITTI	. 0	13 (Cold) 343 (110t)			
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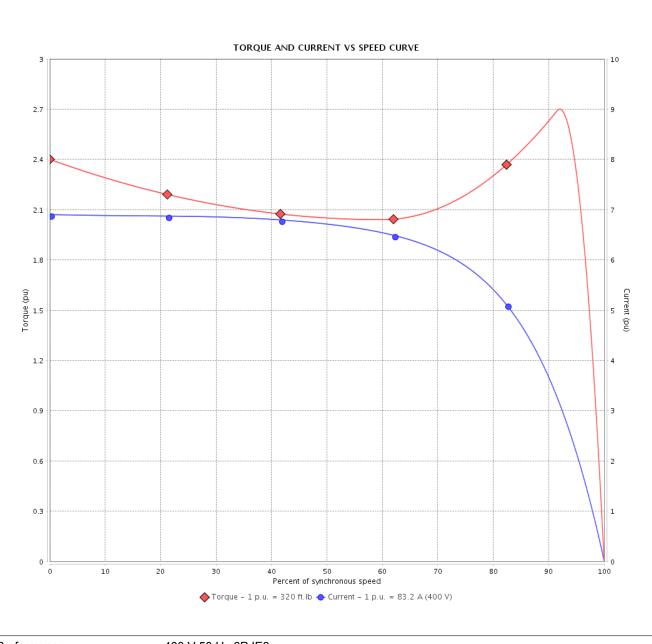
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07512ET3E405T-W22G

13273081



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)
Rated torque	: 320 ft.lb	Insulation class	: 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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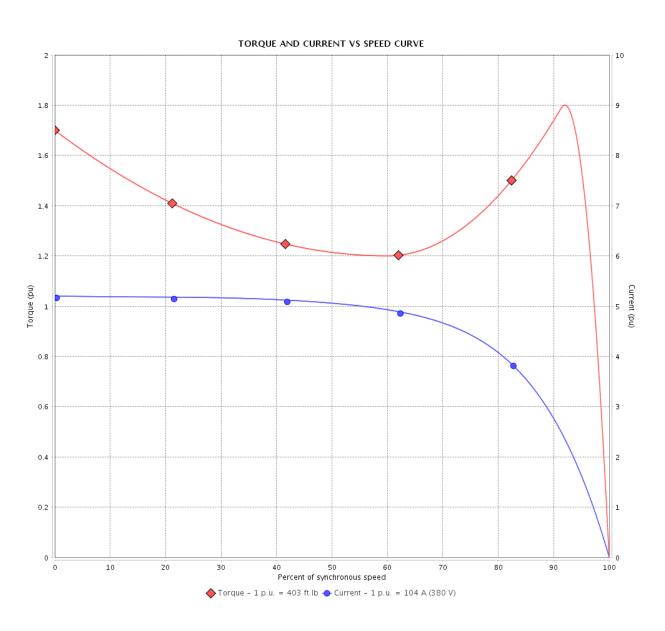
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07512ET3E405T-W22G

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

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

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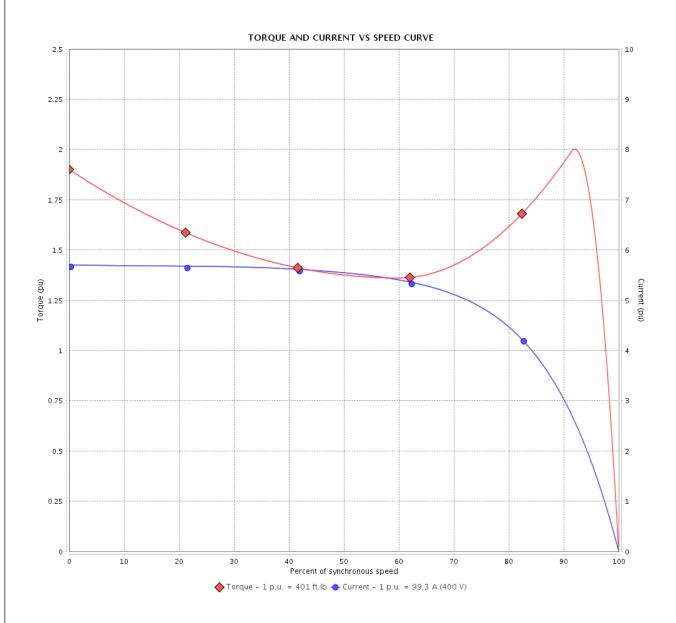
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13273081

Catalog #: 07512ET3E405T-W22G



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)			

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

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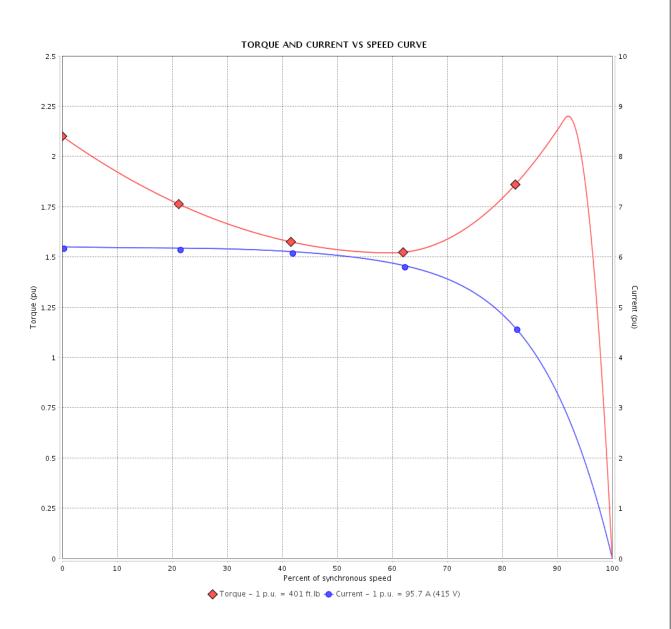
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07512ET3E405T-W22G

13273081

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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 (hot)	1		

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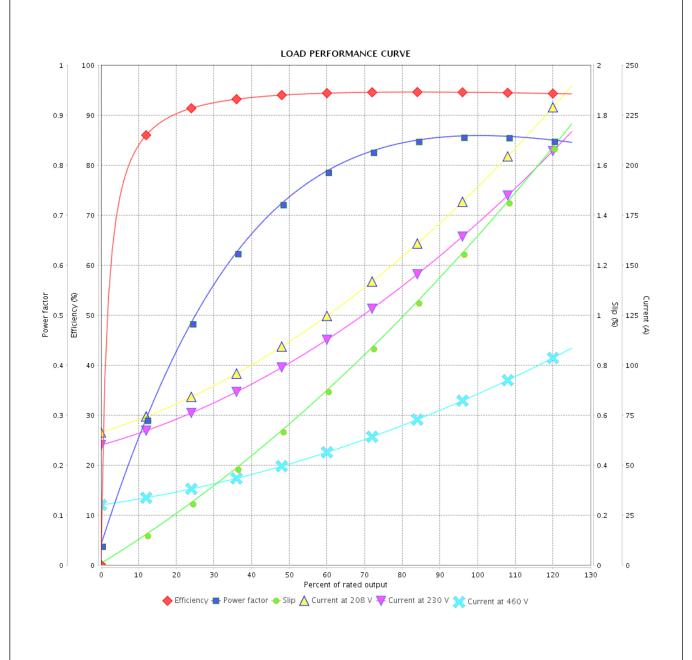
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 13273081

Phase



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 ft.lb	Insulation	class	: F		
Locked rotor torque	d rotor torque : 229 % Service factor		ctor	: 1.25			
Breakdown torque	:	229 %	Temperati	Temperature rise		: 80 K	
Rated speed	:	1184 rpm	Design		: B		
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Phase

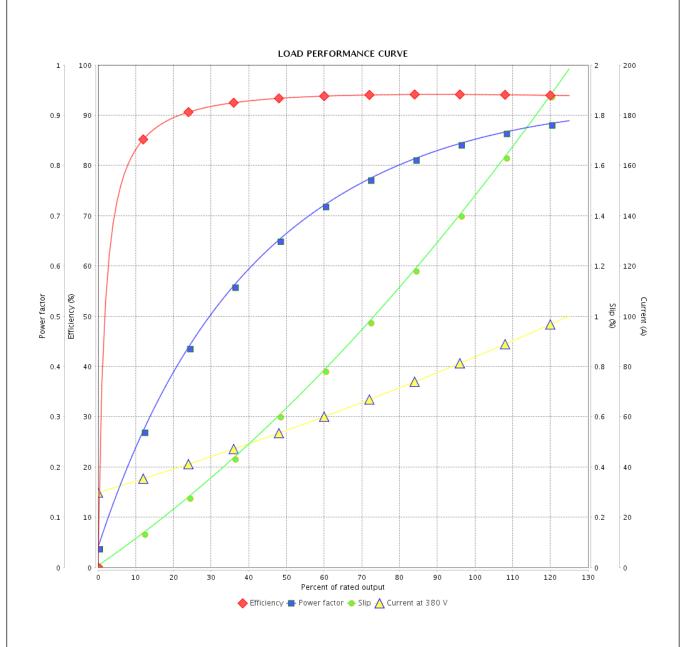
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Performance	: 3	80 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 3 que : 2	5.5 A .4 20 ft.lb 00 % 40 % 85 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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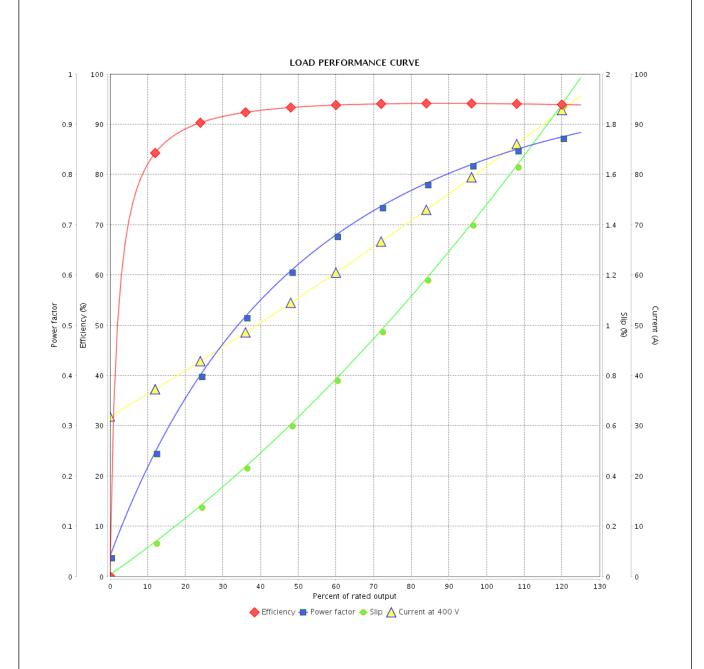
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 13273081

Phase



Performance	: 4	400 V 50 Hz 6P IE3	}				
Rated current	current : 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	class	: F		
Locked rotor torque		240 %	Service fa	Service factor		: 1.00	
Breakdown torque	: : :	270 %	Temperatu	Temperature rise		: 80 K	
Rated speed	: 9	985 rpm	Design		: B		
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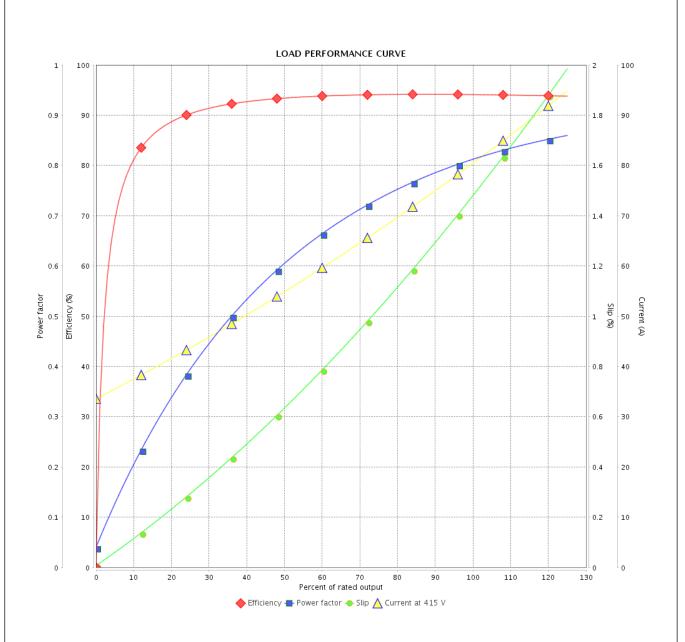
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13273081

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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 Duty cycle Insulation of Service fact Temperatur Design	lass tor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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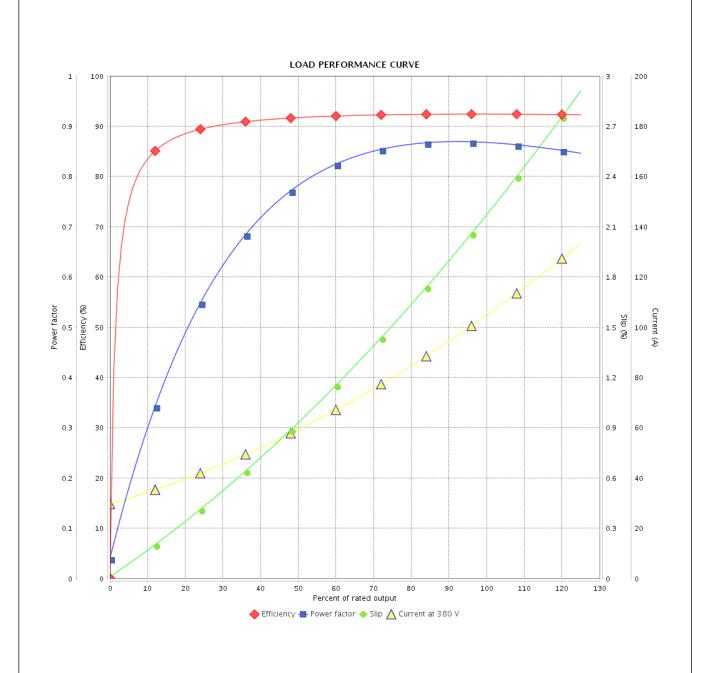
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 13273081

Phase



Performance	::	380 V 50 Hz 6P IE1				
Rated current	: '	104 A	Moment o	f inertia (J)	: 40.2 sq.ft.lb	
LRC	:	5.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	403 ft.lb	Insulation	class	: F	
Locked rotor torque	e : '	170 %	Service fa	Service factor : 1.00 Temperature rise : 105 K		
Breakdown torque	:	180 %	Temperati			
Rated speed	: 9	978 rpm	Design		: B	
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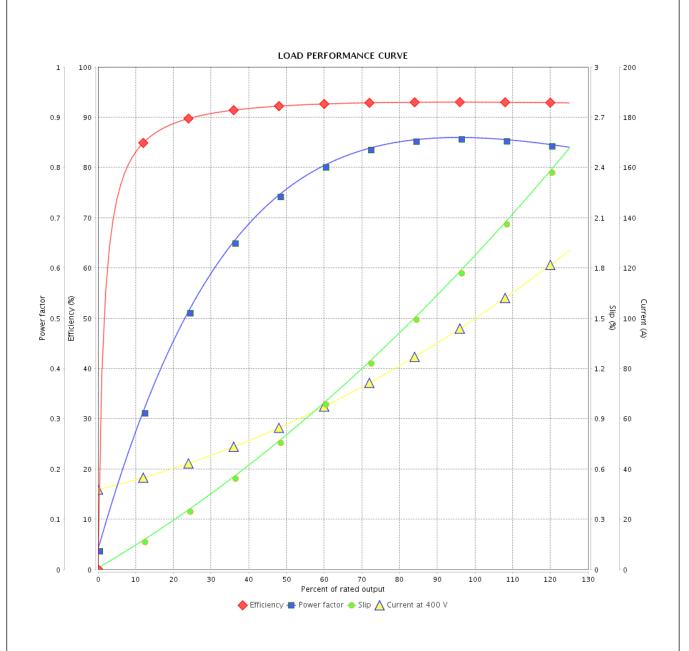


Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 13273081



Performance	: 4	00 V 50 Hz 6P IE1					
Rated current	: 9	: 99.3 A Moment of		f inertia (J)	: 40.2 sq.ft.lb		
LRC	: 5	.7	Duty cycle	9	: Cont.(S1)		
Rated torque	: 4	01 ft.lb	Insulation	Insulation class			
Locked rotor torc	xed rotor torque : 190 % Service factor		ctor	: 1.00			
Breakdown torque		00 %	Temperati	Temperature rise		: 105 K	
Rated speed	: 9	81 rpm	Design		: B		
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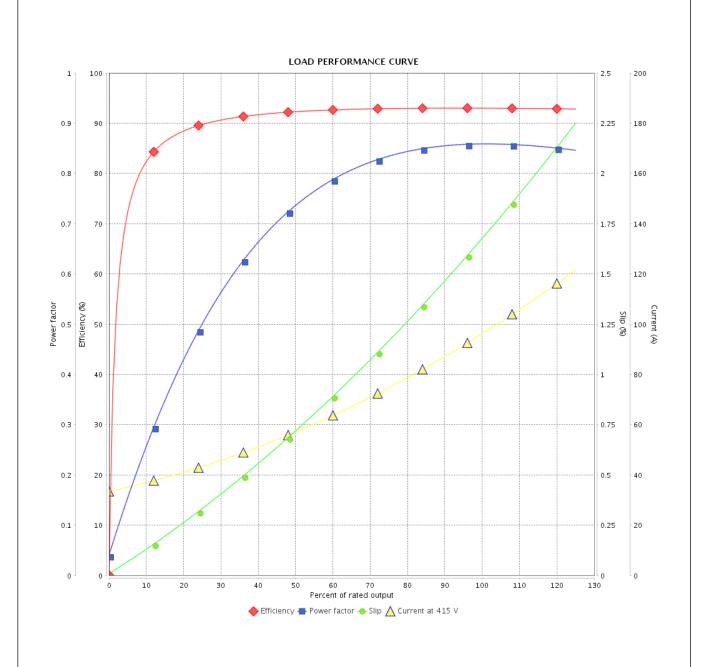
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 13273081

Phase



Performance	: 4	15 V 50 Hz 6P IE1				
Rated current		5.7 A Moment of i		` '	: 40.2 sq.ft.lb	
LRC Rated torque	: 6 · 4	.∠ 01 ft.lb	Duty cycle		: Cont.(S1) : F	
Locked rotor tord		10 %	Service factor		: 1.00	
Breakdown torque		20 %	Temperati	rature rise : 105 K		
Rated speed	: 9	83 rpm	Design		: B	
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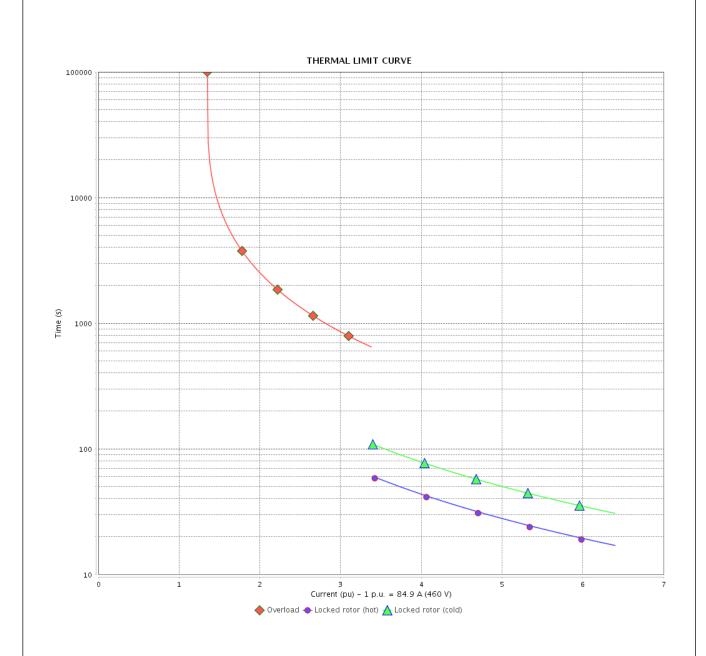


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	13273081	
			Catalog # :	07512ET3E4	05T-W22G
	: 230/460 V 60 Hz 6P				
LRC Rated torque Locked rotor torque Breakdown torque	: 170/84.9 A : 6.4 : 333 ft.lb : 229 % : 229 % : 1184 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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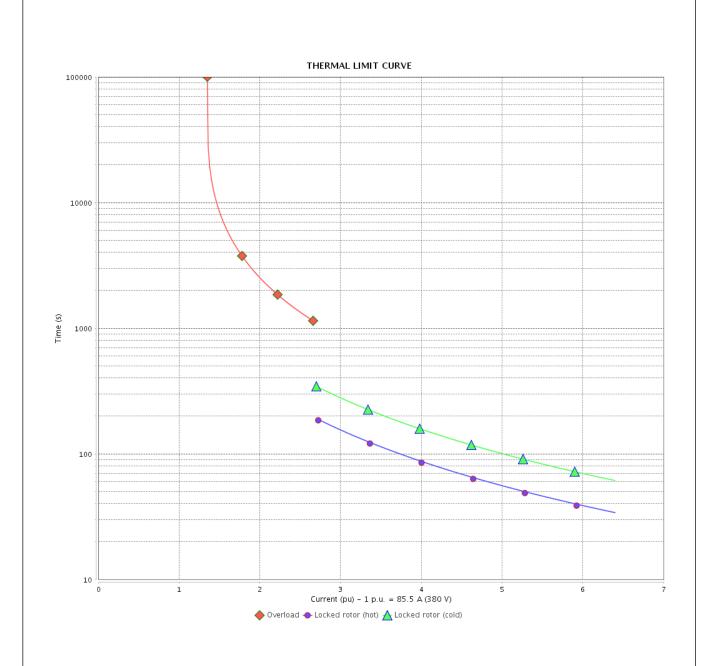


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Product line		: NEMA Premium Efficiency ⁻ Phase		Product code :	13273081 07512ET3E40	5T-W22G
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: : : :ue :e :	380 V 50 Hz 6P IE3 85.5 A 6.4 320 ft.lb 200 % 240 % 985 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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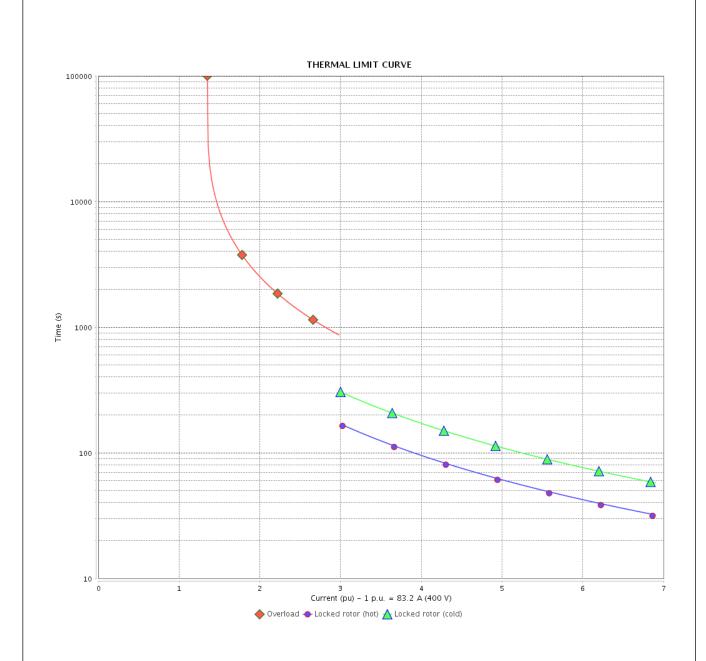


Customer	:				
Product line	: NEMA Premium Efficie Phase		Product code :	13273081	
			Catalog # :	07512ET3E4	05T-W22G
Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 83.2 A : 6.9 : 320 ft.lb : 240 % : 270 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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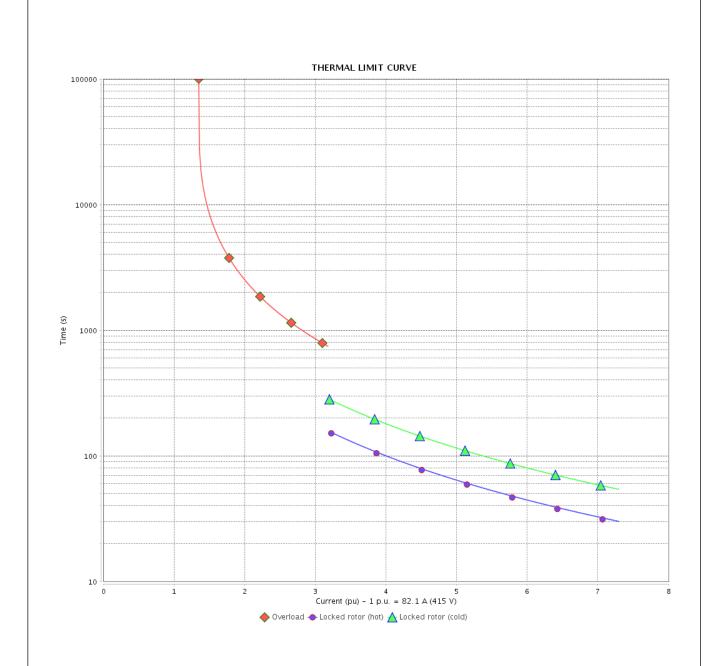


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	13273081	
	Pl	hase		Catalog # :	07512ET3E40)5T-W22G
Performance		15 V 50 Hz 6P IE3	N4	6 * 6 *	40.0	
Rated current LRC	: 82 : 7.	2.1 A 3	Moment of Duty cycle	f inertia (J)	: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque	: 32	20 ft.lb	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						
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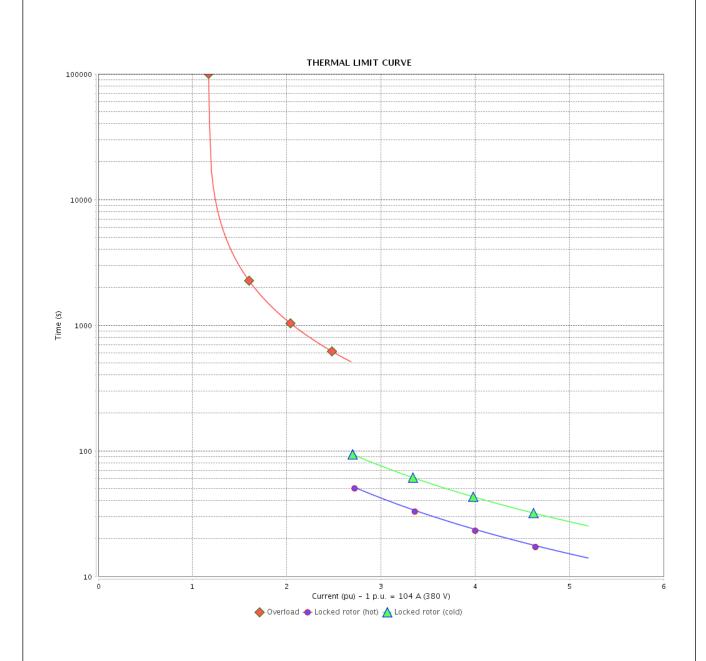


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	13273081	
	PI	hase		Catalog # :	07512ET3E40)5T-W22G
Performance		80 V 50 Hz 6P IE1	N4	finantia (I)	. 40.0 # 11-	
Rated current LRC	: 5.		Duty cycle	f inertia (J)	: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq		03 ft.lb 70 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu		30 %	Temperatu		: 105 K	
Rated speed		78 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summani		Performed	Chaakad	Data
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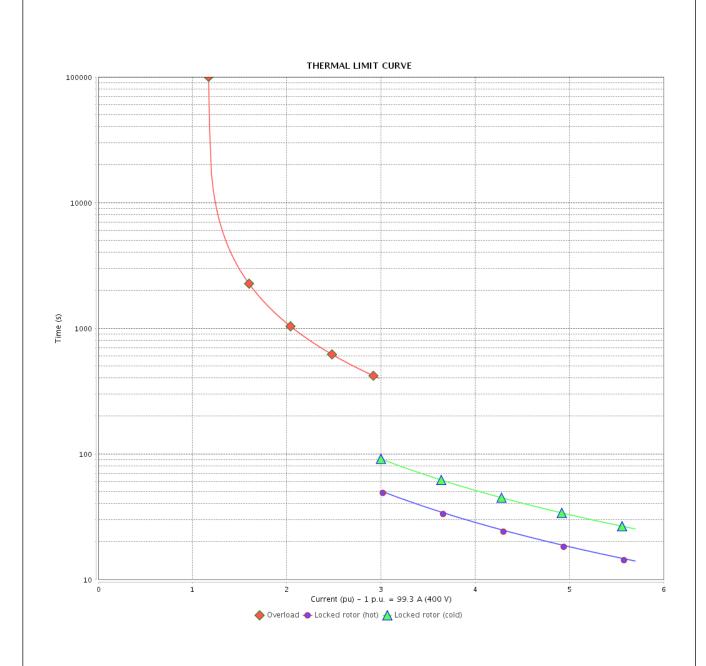


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	13273081	SET WOO
				Catalog # :	07512ET3E40	151-W22G
Performance		: 400 V 50 Hz 6P IE1				
Rated current		: 99.3 A	Moment o	of inertia (J)	: 40.2 sq.ft.lb	
LRC Rated torque		: 5.7 : 401 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 190 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 200 % : 981 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constant		· · r ····			· -	
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



Customer



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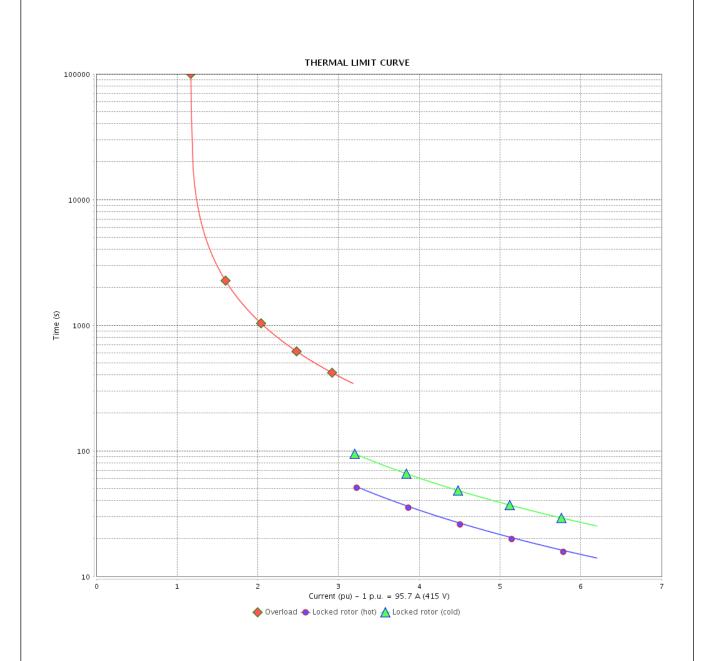


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	13273081	
	P	hase		Catalog # :	07512ET3E40)5T-W22G
Performance		15 V 50 Hz 6P IE1	T			
Rated current LRC	: 95 : 6.	5.7 A 2	Moment of Duty cycle	f inertia (J)	: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque	: 40	01 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		10 % 20 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed		33 rpm	Design	100	: B	
Heating constant						
Cooling constant						
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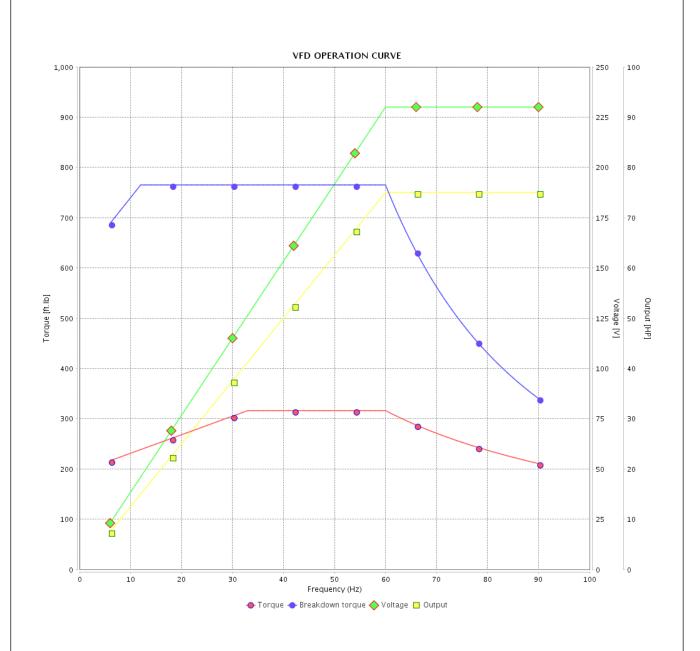
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13273081

Catalog #: 07512ET3E405T-W22G

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Performance : 230/460 V 60 Hz 6P : 170/84.9 A Rated current 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 Page Checked by Revision

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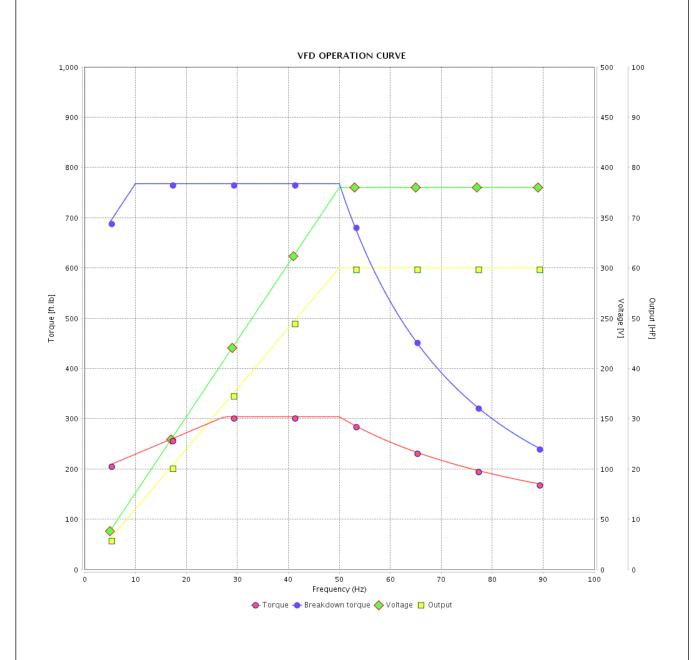
Customer

Product line : NEMA Premium Efficiency Three- Product code : 13273081

Phase

Catalog #: 07512ET3E405T-W22G

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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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Product line : NEMA Premium Efficiency Three-

Phase

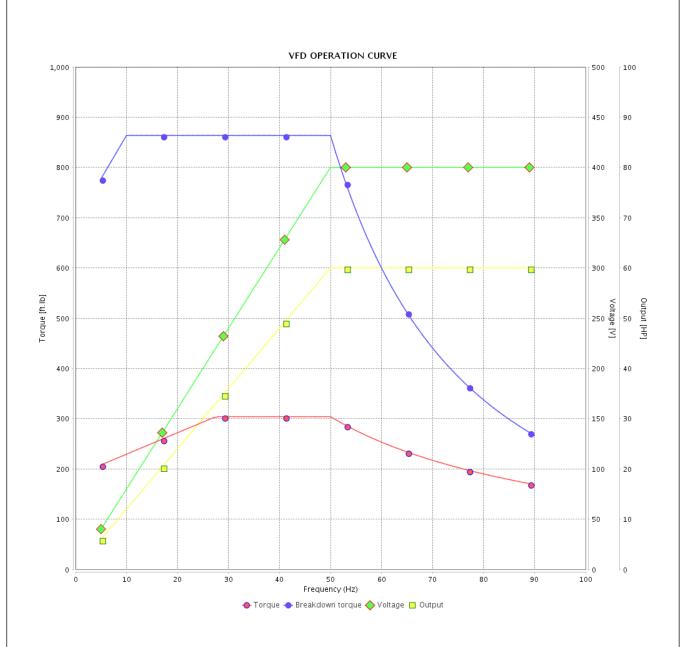
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Performance	:	400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que :	83.2 A 6.9 320 ft.lb 240 % 270 % 985 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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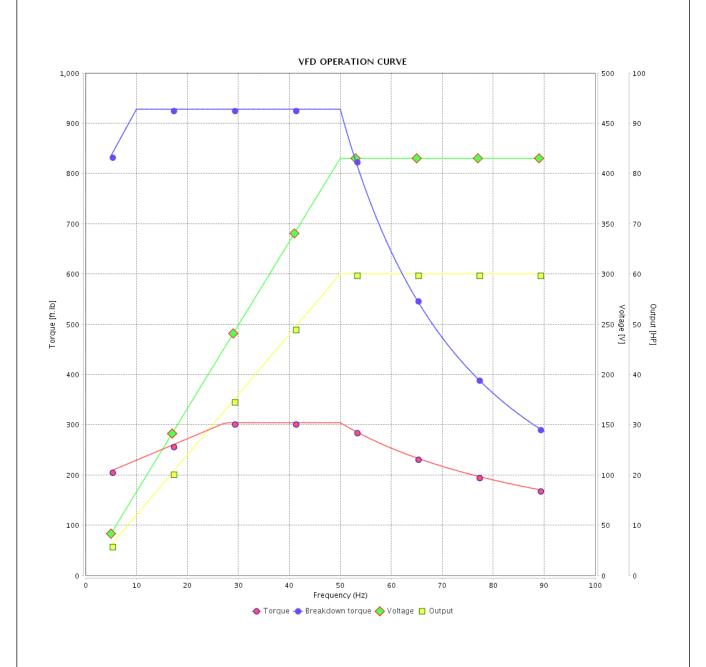
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 13273081

Phase



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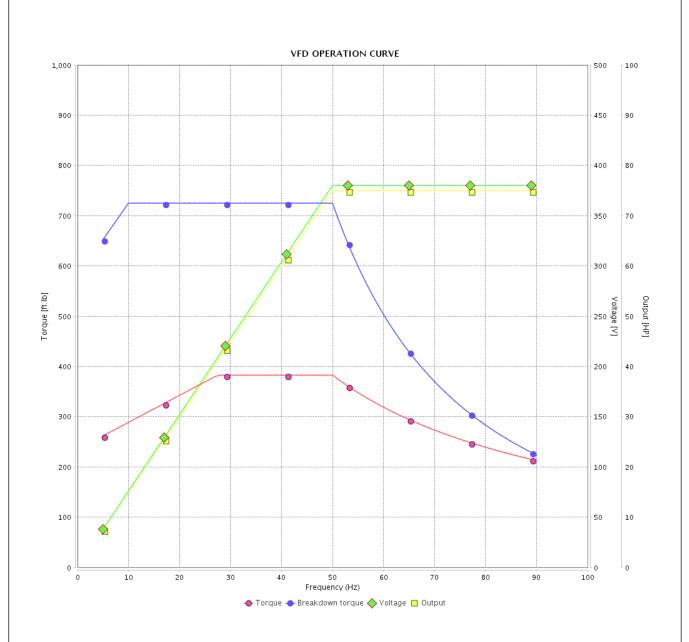
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13273081

Catalog #: 07512ET3E405T-W22G



Performance : 380 V 50 Hz 6P IE1 : 104 A Rated current 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 Breakdown torque : 180 % Temperature rise : 105 K Rated speed : 978 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

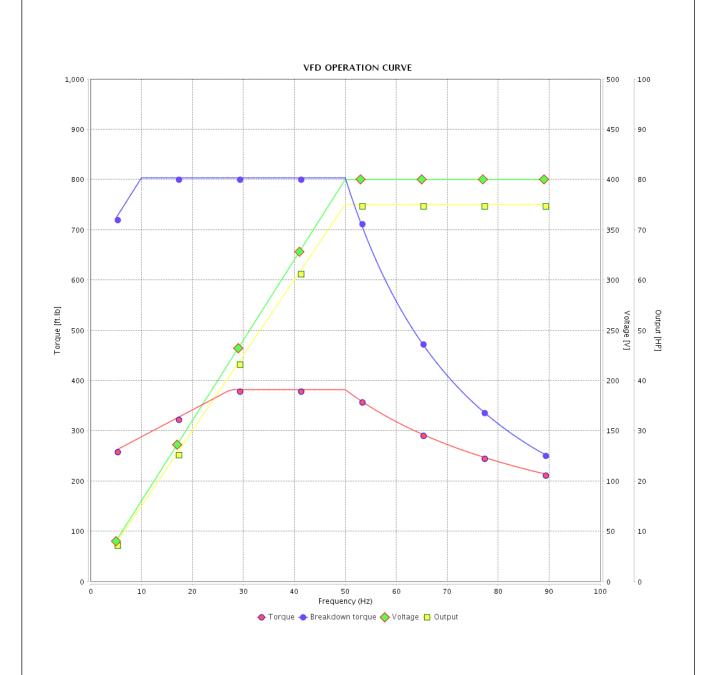
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Customer

Product line : NEMA Premium Efficiency Three- Product code : 13273081

Phase



Performance :		400 V 50 Hz 6P IE1						
Rated current		9.3 A Moment of inertia (J)		: 40.2 sq.ft.lb				
LRC : 5.		.7	Duty cycle		: Cont.(S1)			
Rated torque : 4		01 ft.lb	Insulation class		: F			
Locked rotor torque : 19		90 %	Service factor		: 1.00			
Breakdown torque) % Temperature rise		: 105 K				
Rated speed	: 9	81 rpm	Design		: B			
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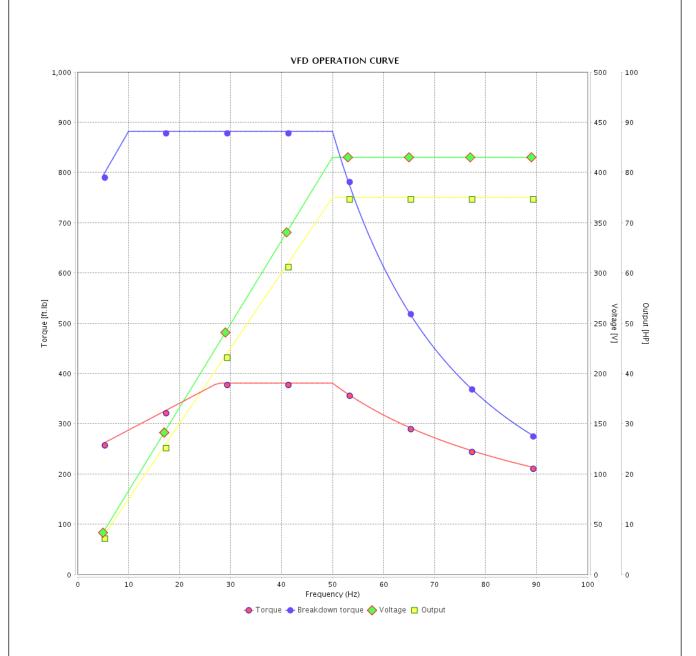


Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 13273081



Performance	: 4	15 V 50 Hz 6P IE1					
Rated current		5.7 A	7 A Moment of inertia (J)		: 40.2 sq.ft.lb		
LRC :		.2	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque		01 ft.lb	Insulation class		: F		
Locked rotor torque		10 %	Service factor		: 1.00		
Breakdown torque	: 2	20 %	Temperature rise		: 105 K		
Rated speed	: 9	83 rpm	Design		: B		
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