DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11413125

Phase

Catalog #: 07512ET3E405T-W22

Frame : 404/5T 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 : 1193 lb
Protection degree : IP55 Moment of inertia (J) : 40.2 sq.ft.lb

Protection degree		: IP55		iviomer	nt of inertia (J)) : 4	.υ.∠ sq.π.ιb	
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 [RPI	Л]	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	ıe [%]	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%							
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%							
Power Factor	50%	0.74	0.66	0.62	0.60	0.79	0.76	0.74
FUWEI 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 : 2049 lb Sealing : WSeal WSeal Max. compression : 3243 lb

Lubrication interval:16000 h17000 hLubricant amount:34 g27 gLubricant type:Mobil Polyrex EM

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



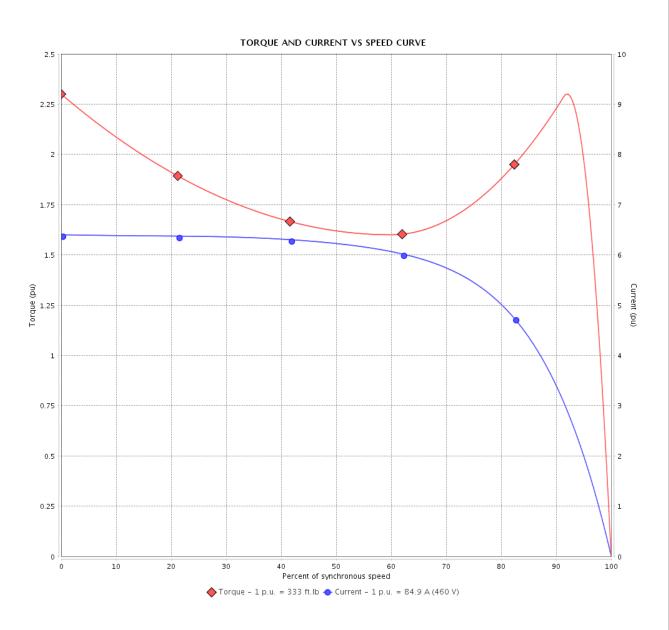
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11413125

Catalog #: 07512ET3E405T-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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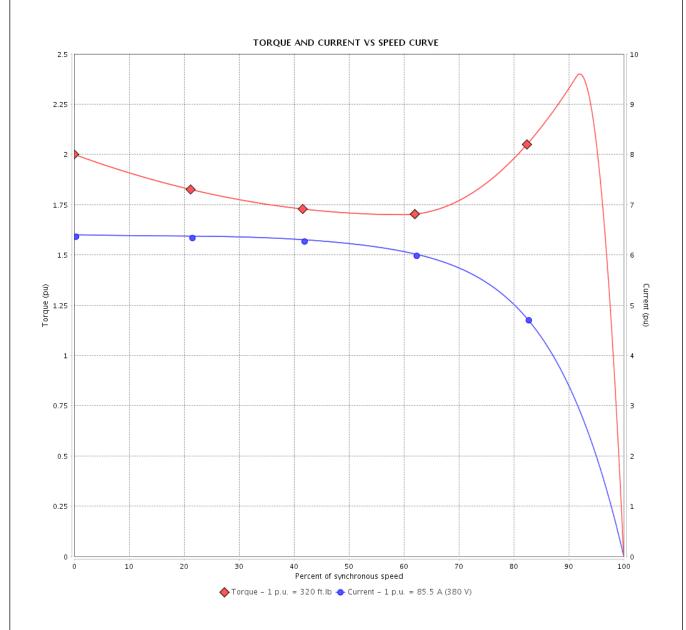
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11413125

Catalog #: 07512ET3E405T-W22



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)		

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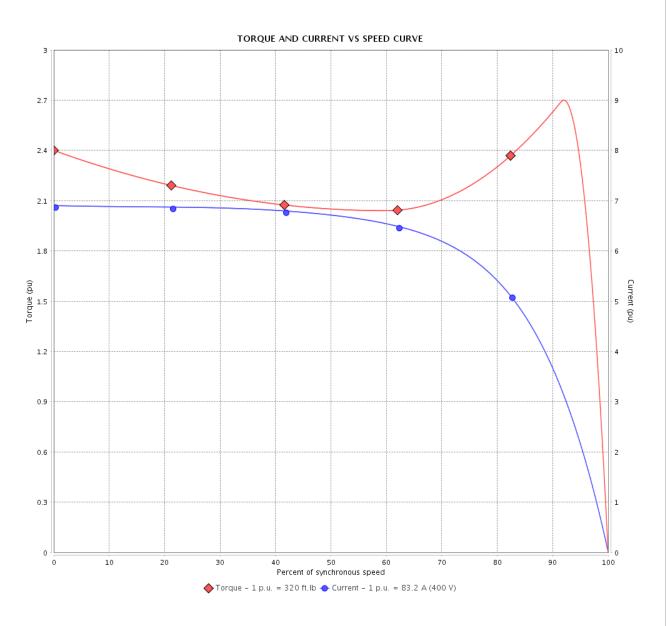


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11413125

Phase

Catalog #: 07512ET3E405T-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)
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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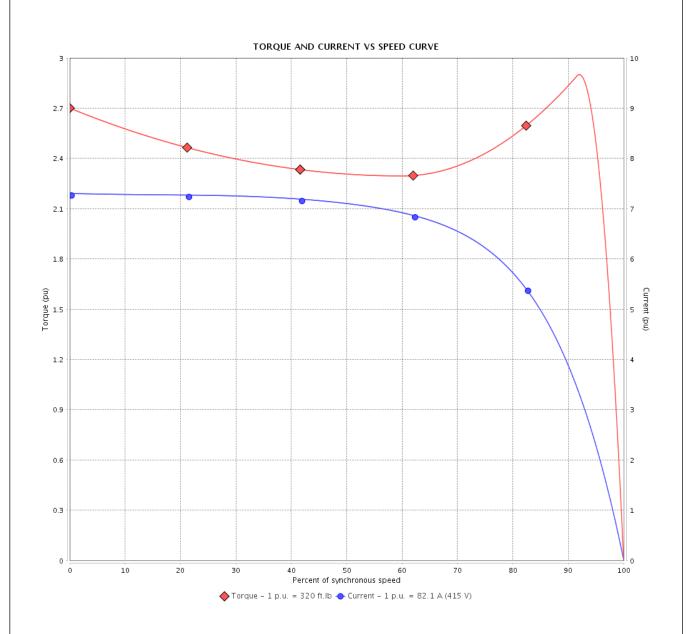
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11413125

Catalog #: 07512ET3E405T-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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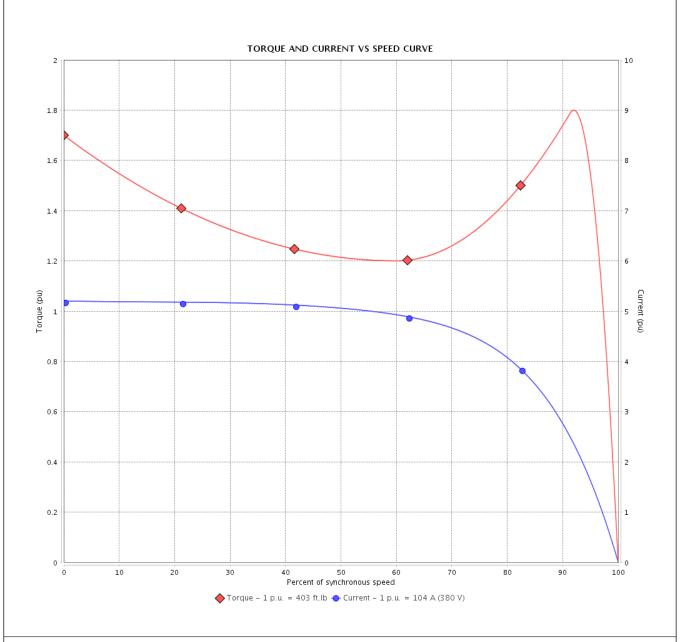
Customer :

Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11413125

Catalog #: 07512ET3E405T-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) Insulation class Rated torque : 403 ft.lb : 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)

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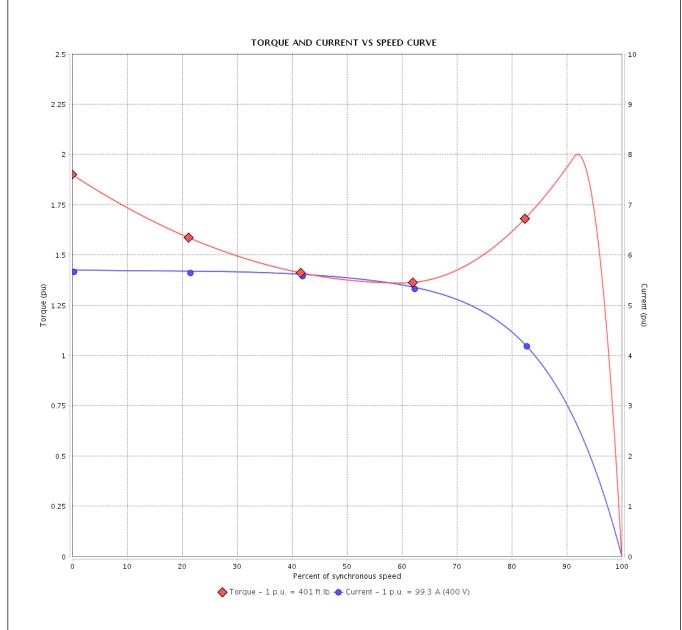


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11413125

Phase

Catalog #: 07512ET3E405T-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)		

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

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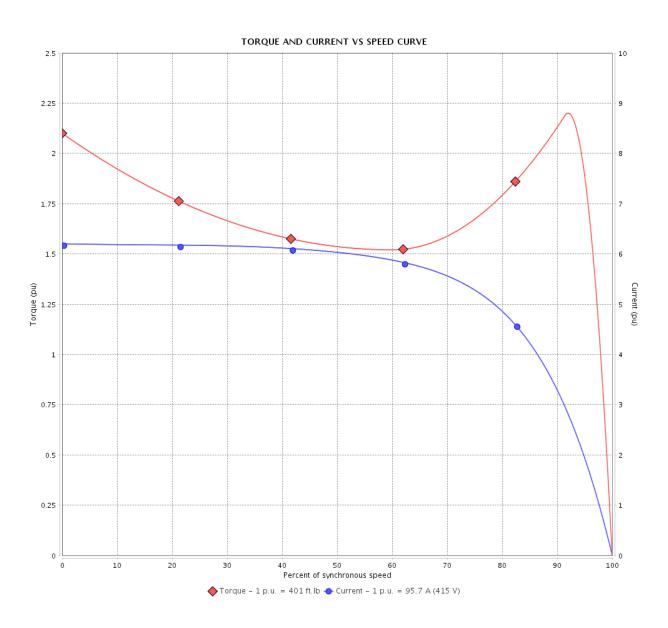
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Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 11413125

Catalog #: 07512ET3E405T-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) : 401 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 210 % : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 983 rpm Design : B

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

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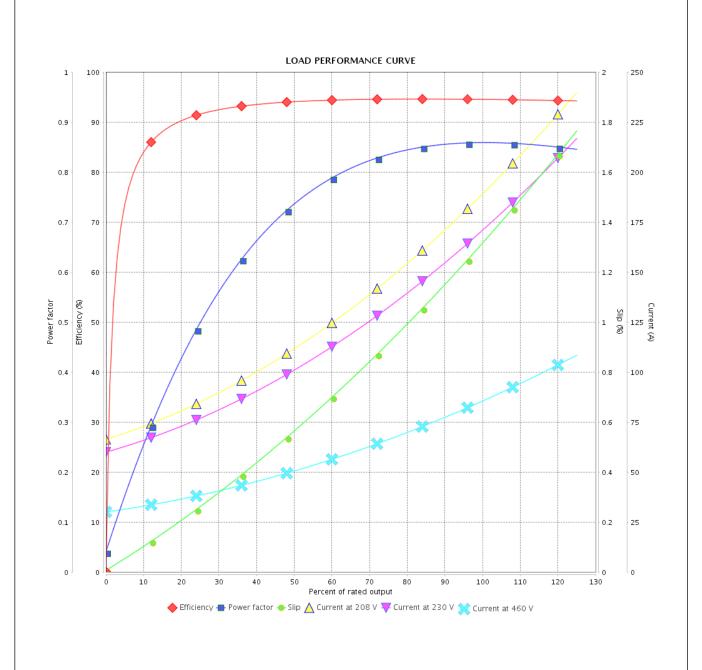


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11413125

Phase

Catalog #: 07512ET3E405T-W22



Performance	Performance : 230/460 V 60 Hz 6P					
Rated current	:	170/84.9 A	170/84.9 A Moment of 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	e :	229 %	Service fa	ctor	: 1.25	
Breakdown torque	:	: 229 %		Temperature rise		
Rated speed	: 1184 rpm		Design		: B	
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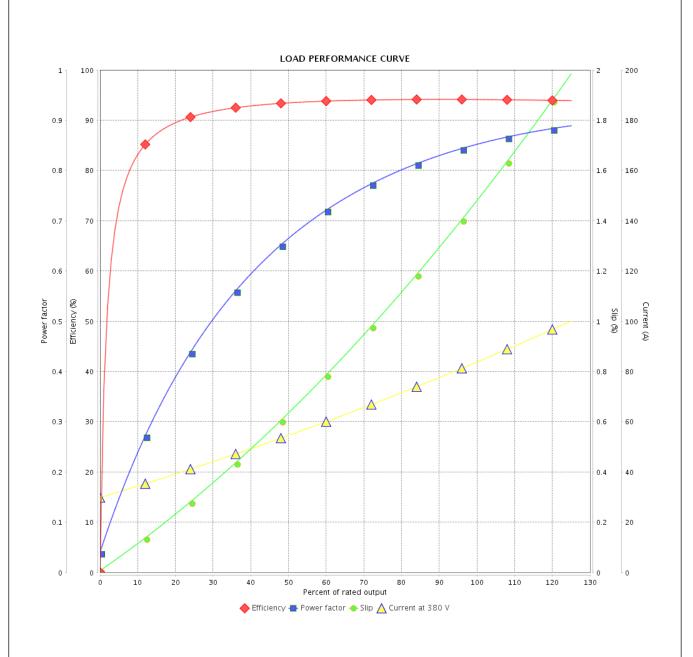


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11413125

Phase

Catalog #: 07512ET3E405T-W22



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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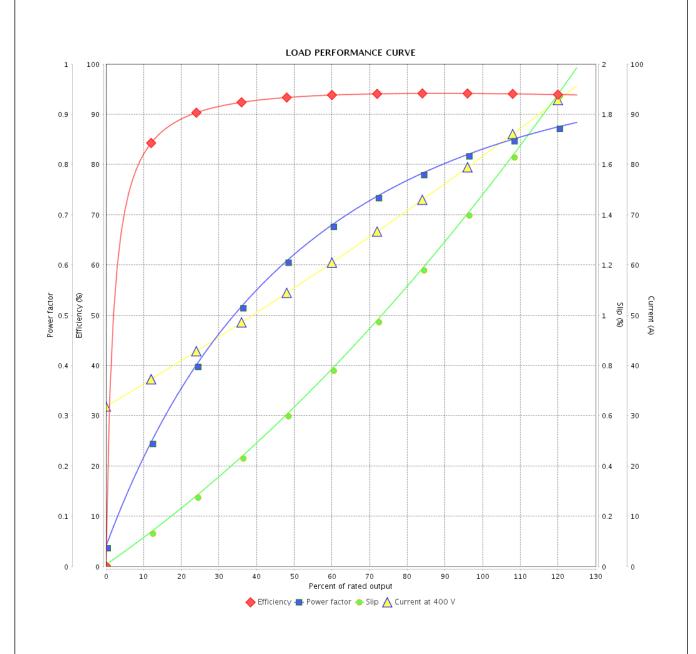
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Performance	: 400 V 50 Hz 6F	P IE3			
Rated current : 83.2 A LRC : 6.9 Rated torque : 320 ft.lb Locked rotor torque : 240 % Breakdown torque : 270 % Rated speed : 985 rpm		Duty cycle Insulation Service fa	Moment of inertia (J) : 40.2 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		
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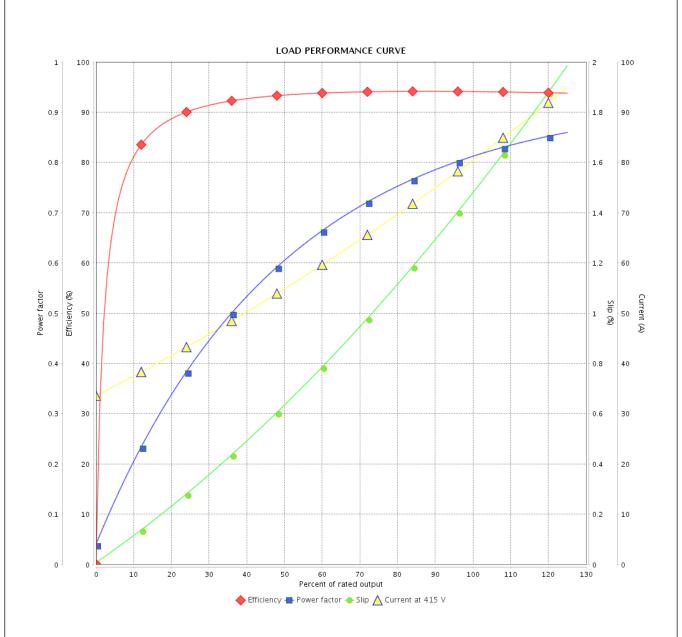
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Performance	: 415 V 50 Hz 6P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 82.1 A : 7.3 : 320 ft.lb : 270 % : 290 % : 985 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

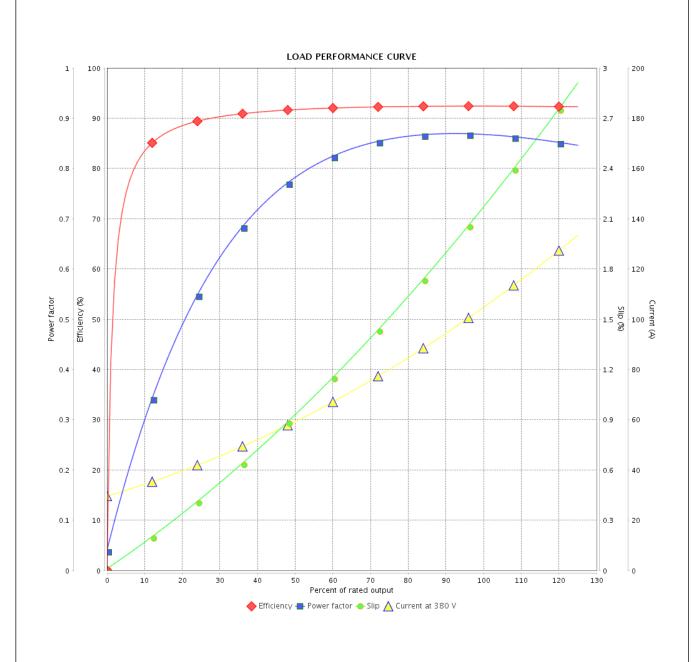


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Product line : NEMA Premium Efficiency Three- Product code : 11413125

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Performance	: 3	: 380 V 50 Hz 6P IE1				
Rated current : 104 A		Moment o	f inertia (J)	: 40.2 sq.ft.lb		
LRC	: 5	5.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 4	03 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 1	180 % Temperature rise Design		ıre rise	: 105 K	
Rated speed	: 9				: B	
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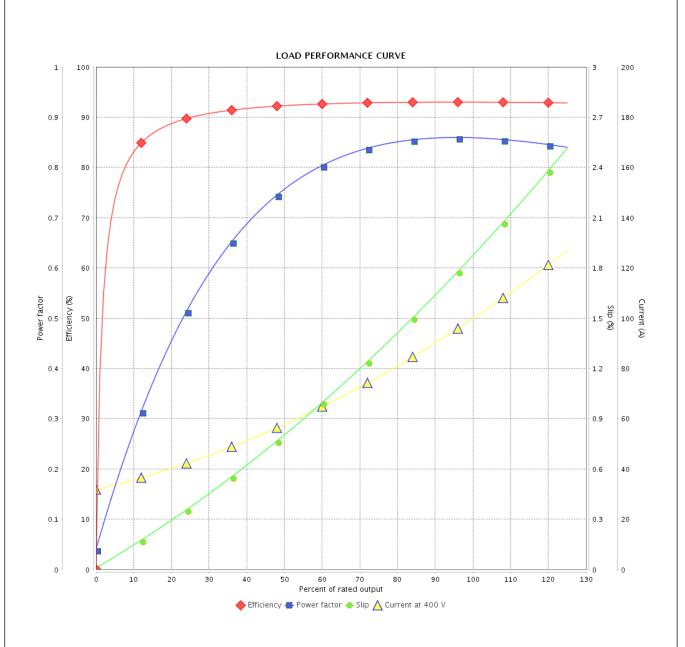
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Performance		: 400 V 50 Hz 6P IE	1			
Rated current : 99.3 A LRC : 5.7 Rated torque : 401 ft.lb Locked rotor torque : 190 % Breakdown torque : 200 % Rated speed : 981 rpm		Duty cycle Insulation Service fa	Moment of inertia (J) : 40.2 so Duty cycle : Cont.(S Insulation class : F Service factor : 1.00 Temperature rise : 105 K Design : B			
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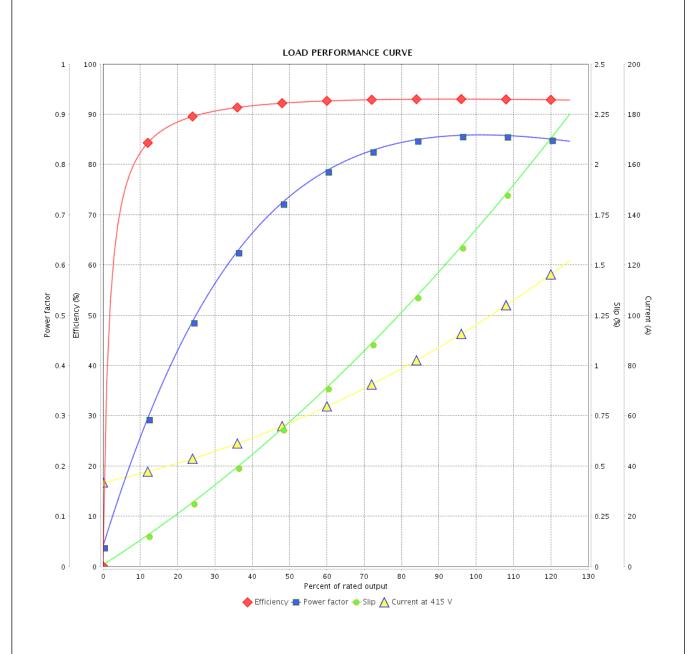
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Phase

Catalog #: 07512ET3E405T-W22

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Performance	: 415 V 50 Hz 6P IE1				
Rated current	: 95.7 A	1	f 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 %	% Temperature rise		: 1.00	
Breakdown torque	: 220 %			: 105 K	
Rated speed	: 983 rpm			: B	
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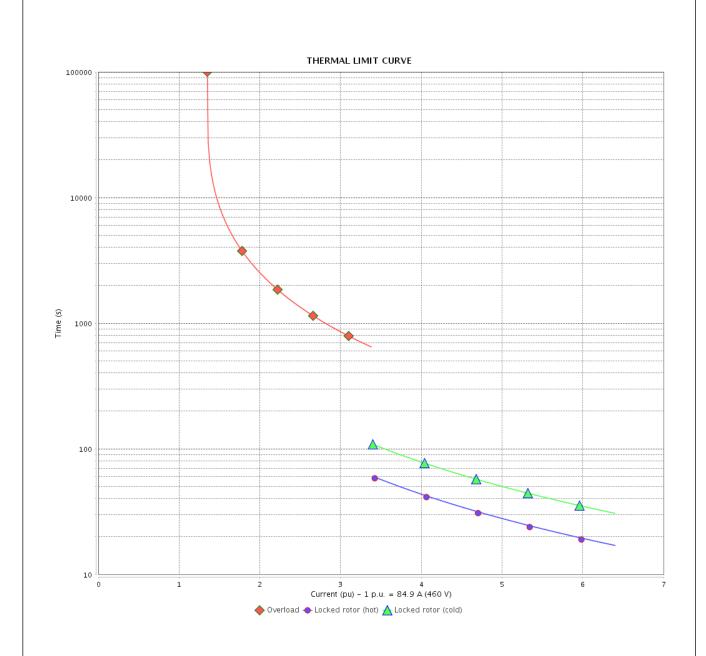


Customer	:			
Product line	: NEMA Premium Efficiency Phase		11413125	
		Catalog # :	07512ET3E405T-	W22
Performance	: 230/460 V 60 Hz 6P	T		
Rated current LRC	: 170/84.9 A : 6.4	Moment of inertia (J)	: 40.2 sq.ft.lb	
Rated torque	: 0.4 : 333 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 229 %	Service factor	: 1.25	
Breakdown torque Rated speed	: 229 % : 1184 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant				
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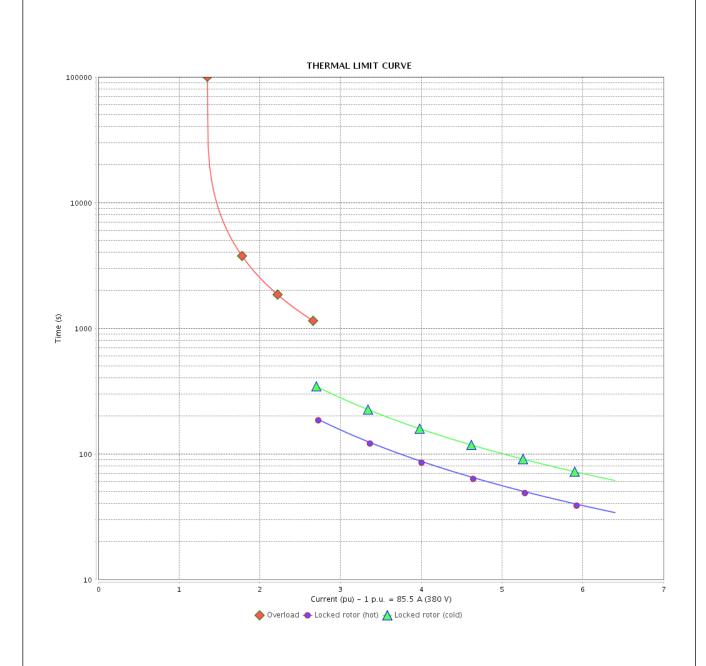


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Product line	:1	NEMA Premium Efficiency	Three-	Product code :	11413125	
	P	hase		Catalog # :	07512ET3E40	15T-\W22
					0/3/26/3640	JJ 1-VVZZ
Performance	: 38	30 V 50 Hz 6P IE3				
Rated current		5.5 A	Moment o	f inertia (J)	: 40.2 sq.ft.lb	
LRC Rated torque	: 6. : 32	4 20 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torqu	ue : 20	00 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed		40 % 35 rpm	Temperatu Design	ıre rise	: 80 K : B	
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Heating constant Cooling constant						
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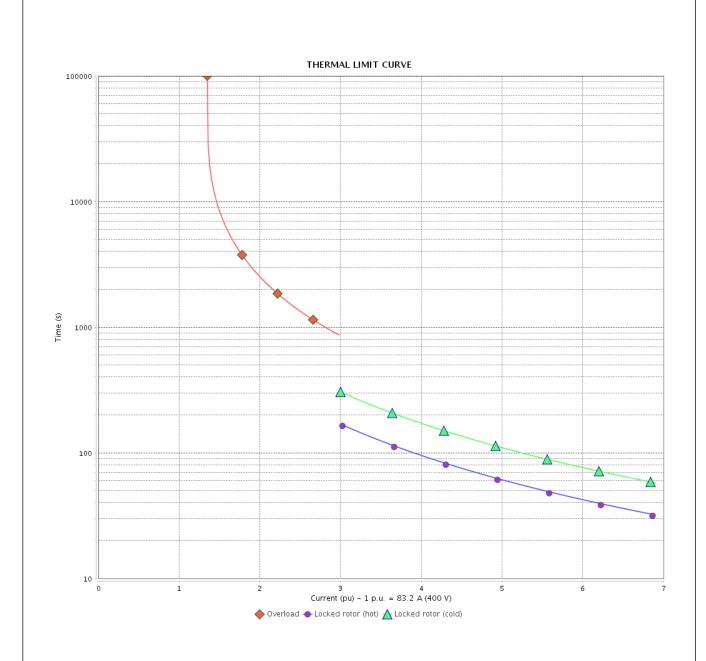


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11413125	
		i ildəc		Catalog # :	07512ET3E40)5T-W22
Performance		: 400 V 50 Hz 6P IE3				
Rated current		: 83.2 A	Moment of	of inertia (J)	: 40.2 sq.ft.lb	
LRC Rated torque		: 6.9 : 320 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 240 %	Service fa	actor	: 1.00	
Breakdown torqu		: 270 %	Temperat	ure rise	: 80 K	
Rated speed		: 985 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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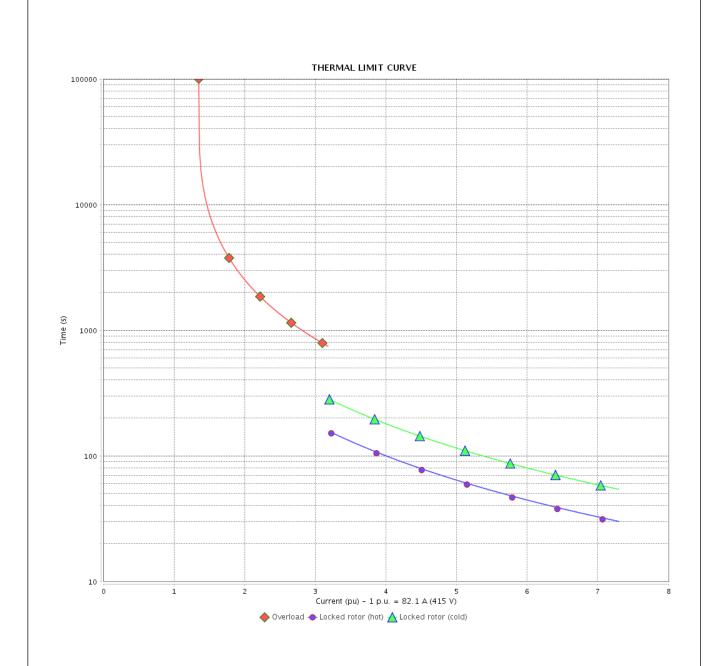


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Product line	: NEMA Premium Efficiency Phase	Three- Product cod	e: 11413125	
	Filase	Catalog # :	07512ET3E4	05T-W22
Performance	: 415 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 82.1 A : 7.3 : 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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Heating constant Cooling constant				
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Three Phase Induction Motor - Squirrel Cage



Customer



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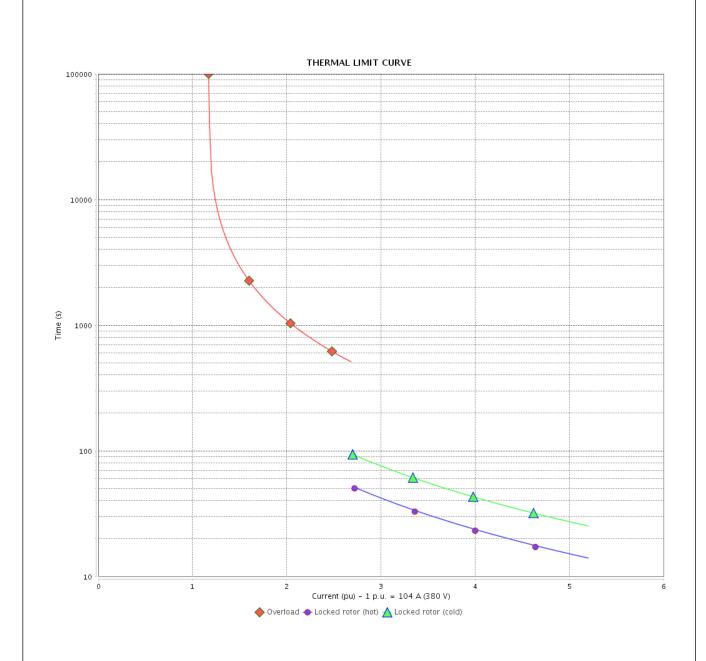


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11413125	
		Tildoc		Catalog # :	07512ET3E40	5T-W22
Performance		: 380 V 50 Hz 6P IE1				
Rated current		: 104 A	Moment of	of inertia (J)	: 40.2 sq.ft.lb	
LRC		: 5.2 : 403 ft.lb	Duty cycle Insulation	Э	: Cont.(S1) : F	
Rated torque Locked rotor tord		: 403 π.id : 170 %	Service fa		: F : 1.00	
Breakdown torqu	ie	: 180 %	Temperat		: 105 K	
Rated speed		: 978 rpm	Design		: B	
Heating constan						
Cooling constant	t	Change Commi		Dest	Oh I - I	D-1-
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Three Phase Induction Motor - Squirrel Cage



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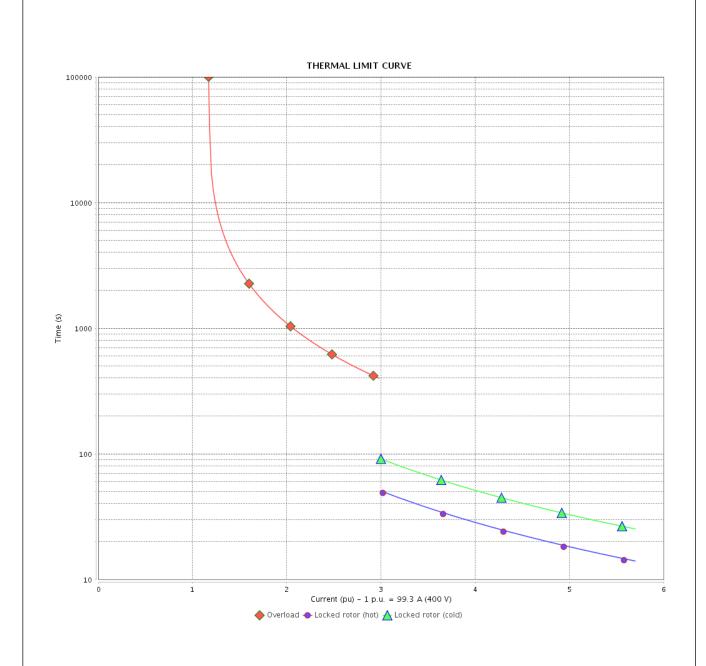


Customer	:			
Product line	: NEMA Premium Efficiency Phase			
		Catalog # :	07512ET3E4	05T-W22
Performance	: 400 V 50 Hz 6P IE1			
Rated current	: 99.3 A	Moment of inertia (J)	: 40.2 sq.ft.lb	
LRC	: 5.7 : 401 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Rated torque Locked rotor torque	: 401 π.ib : 190 %	Service factor	: F : 1.00	
Breakdown torque	: 200 %	Temperature rise	: 105 K	
Rated speed	: 981 rpm	Design	: B	
Heating constant Cooling constant				
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Three Phase Induction Motor - Squirrel Cage



Customer



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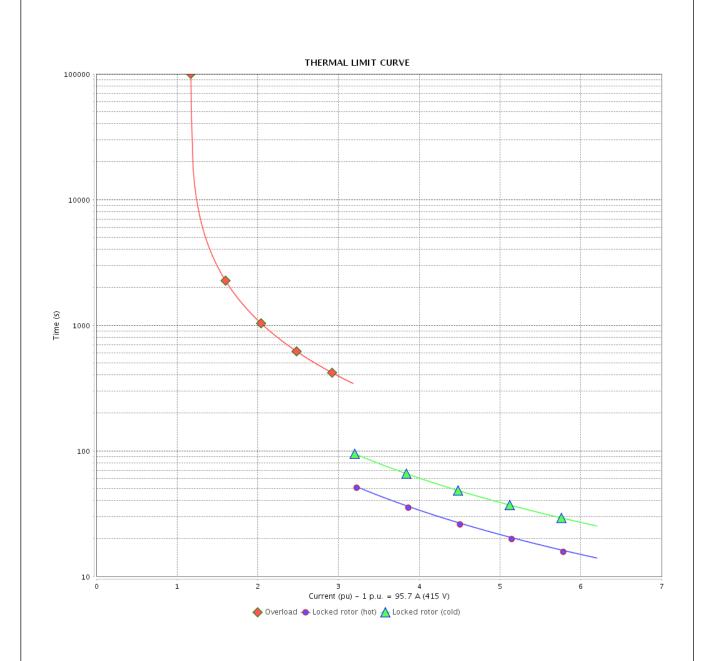


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11413125	
		T Hado		Catalog # :	07512ET3E40)5T-W22
Performance		: 415 V 50 Hz 6P IE1				
Rated current LRC		: 95.7 A : 6.2	Moment of Duty cycle	of inertia (J)	: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque		: 401 ft.lb	Insulation	class	: F	
Locked rotor tord	que	: 210 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 220 % : 983 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constan		•				
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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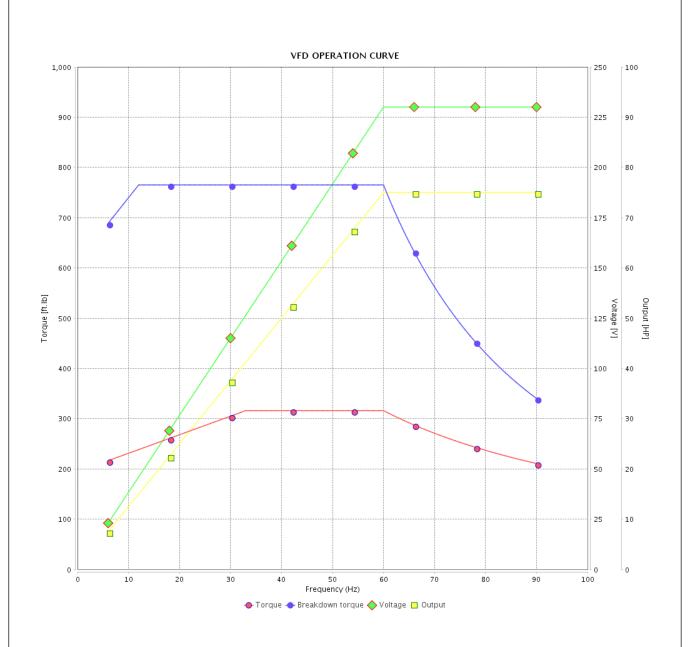
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11413125

Catalog #: 07512ET3E405T-W22



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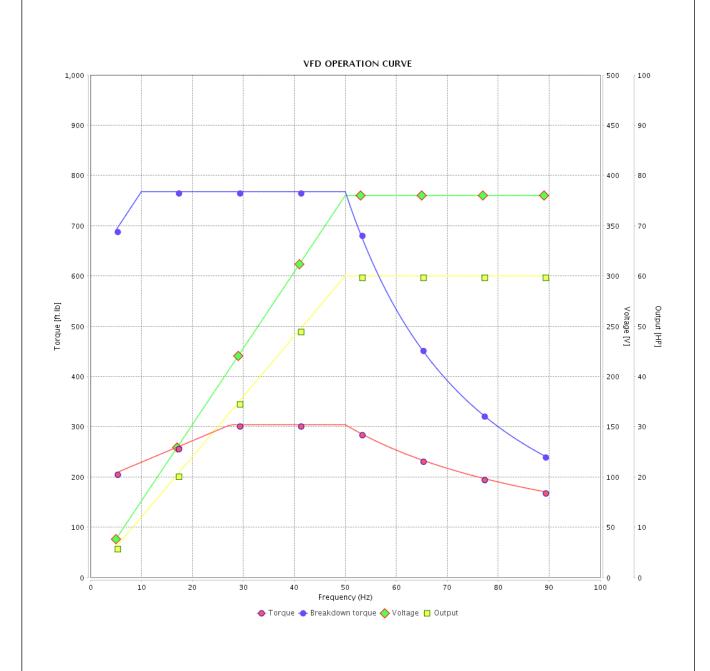


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11413125

Phase

Catalog #: 07512ET3E405T-W22



	·					
Performance	: 38	30 V 50 Hz 6P IE3	V 50 Hz 6P IE3			
Rated current	: 8	5.5 A	Moment of 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 tord	que : 20	00 %	Service fa	ctor	: 1.00	
Breakdown torqu	ıe : 2	40 %	Temperati	ıre rise	: 80 K	
Rated speed	: 98	35 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Produc

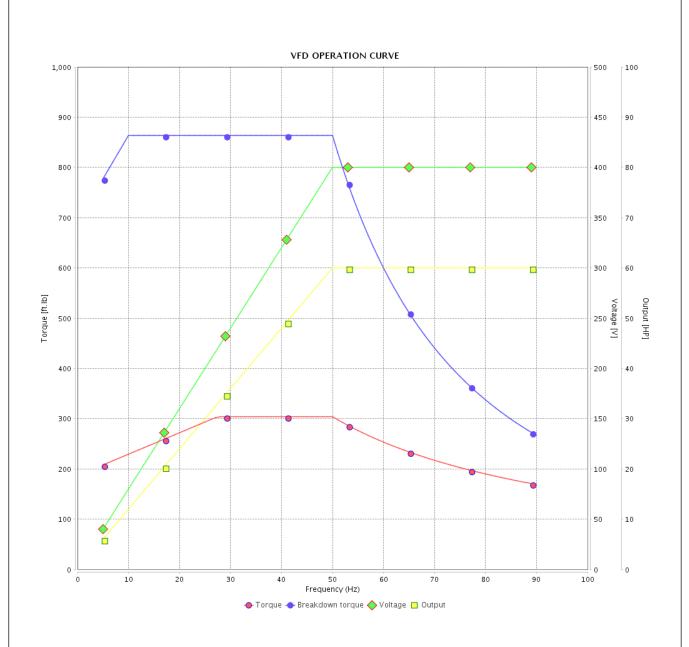
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Performance		: 400 V 50 Hz 6	SP IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 83.2 A : 6.9 : 320 ft.lb : 240 % : 270 % : 985 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature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

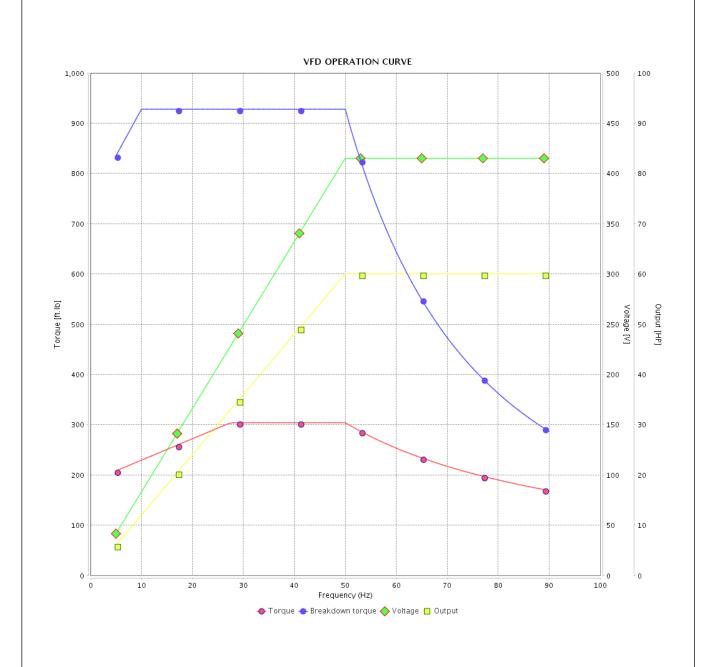


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11413125

Phase

Catalog #: 07512ET3E405T-W22



Performance		15 V 50 Hz 6P IE3					
Rated current	: 82	2.1 A	Moment of inertia (J)		: 40.2 sq.ft.lb		
LRC	: 7.	: 7.3 Duty cy : 320 ft.lb Insulati : 270 % Service		;	: Cont.(S1)		
Rated torque	: 32			class	: F		
Locked rotor torqu	ie : 2			ctor	: 1.00		
Breakdown torque		: 290 %	Temperati	Temperature rise			
Rated speed	: 98	: 985 rpm		Design			
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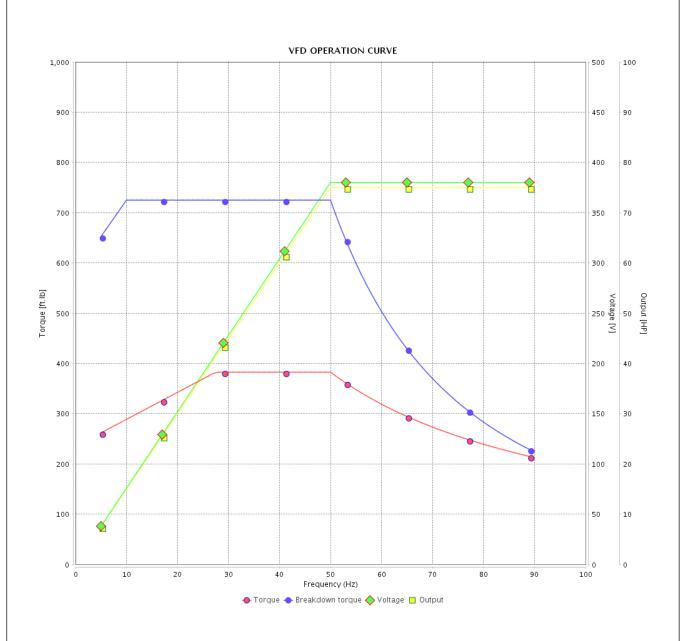
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Performance	: 380 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 104 A : 5.2 : 403 ft.lb : 170 % : 180 % : 978 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Product line : NEMA Premium Efficiency Three- Product code :

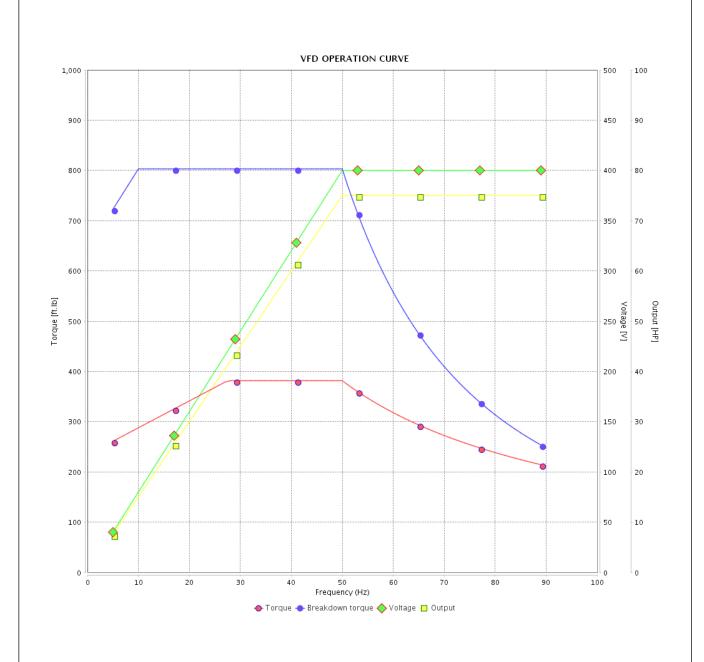
Phase

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Performance	: 400 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		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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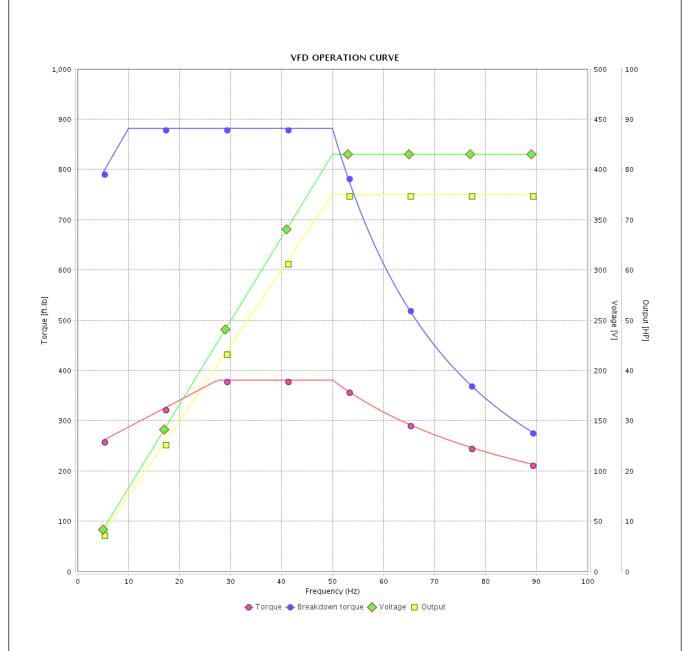
Phase

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Performance	: 4	415 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 4 jue : 2 ie : 2	95.7 A 3.2 401 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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