### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11165649

07512ET3ERB405T-W22 Catalog #:

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) : -20°C to +40°C Starting method Ambient temperature : Direct On Line

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 1202 lb Altitude : 40.2 sq.ft.lb

Protection degree : IP55 Moment of inertia (J)

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 [RPM]		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 torque [%]		229	200	240	270	170	190	210
Breakdown torque	Breakdown torque [%]		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 <sup>2</sup>		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
Efficiency (%) 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
1 OWEL 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 NU-316 C3 6314 C3 Max. traction : 2045 lb Sealing WSeal WSeal : 3247 lb Max. compression

Lubrication interval 12000 h 17000 h Lubricant amount 34 g 27 g Lubricant 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

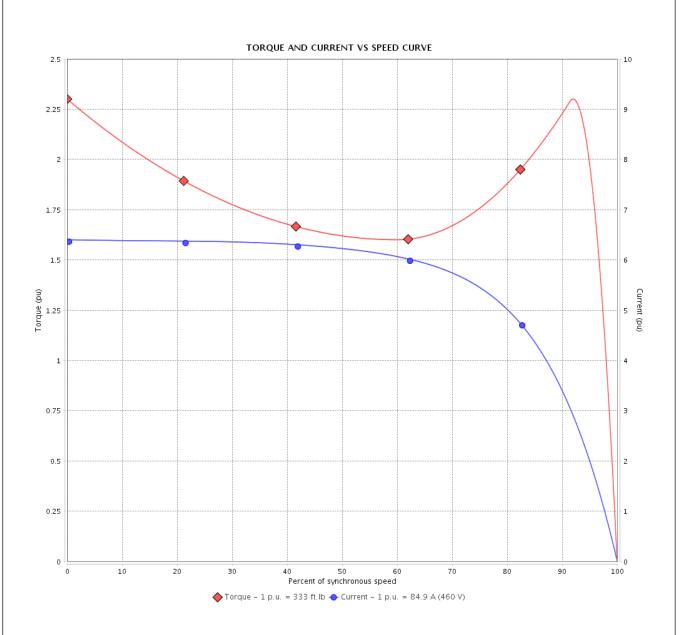


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11165649

Phase

Catalog #: 07512ET3ERB405T-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: 11165649 Catalog #: 07512ET3ERB405T-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 Rated torque : 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) Date Rev. Performed Checked **Changes Summary** 

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### Three Phase Induction Motor - Squirrel Cage



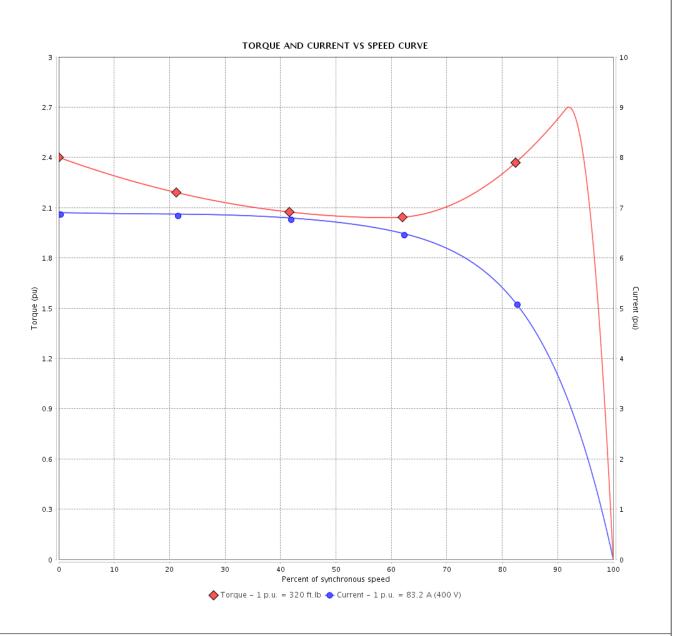
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 07512ET3ERB405T-W22

11165649



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	
Lasted vatantinas	. 57a (aald) 22a (bat)	I		

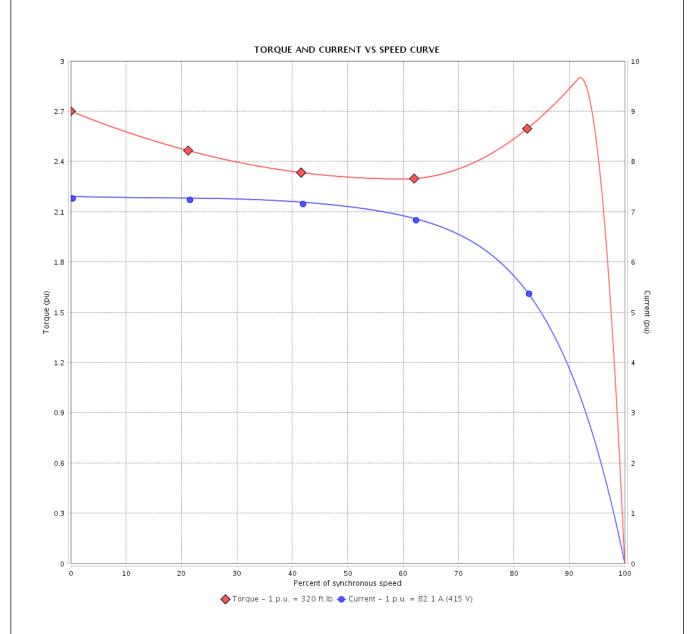
Locked rotor time : 57s (cold) 32s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11165649 Catalog #: 07512ET3ERB405T-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 : 270 % Locked rotor torque Service factor : 1.00 : 80 K Breakdown torque : 290 % Temperature rise : B Rated speed : 985 rpm Design Locked rotor time : 54s (cold) 30s (hot)

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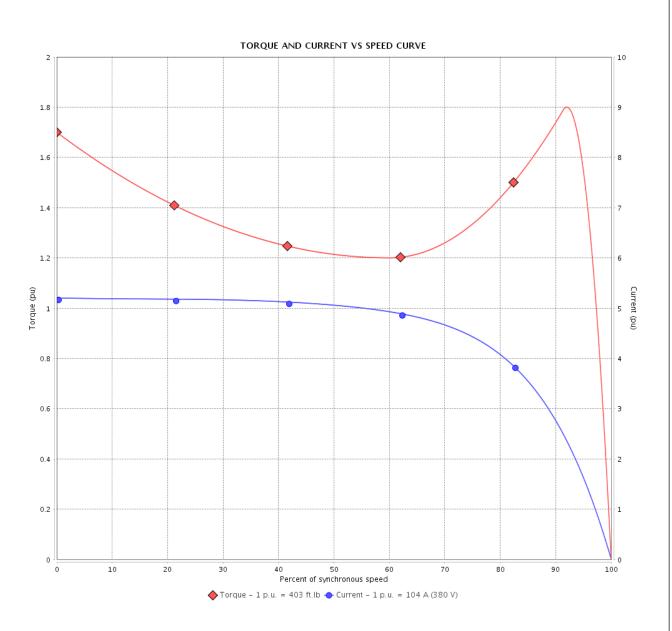
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11165649

Catalog #: 07512ET3ERB405T-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 : 180 % Breakdown torque Temperature rise : 105 K Rated speed : 978 rpm Design : B 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: 11165649 Catalog #: 07512ET3ERB405T-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. = 401 ft.lb ◆ Current - 1 p.u. = 99.3 A (400 V)

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) Insulation class Rated torque : 401 ft.lb : 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)

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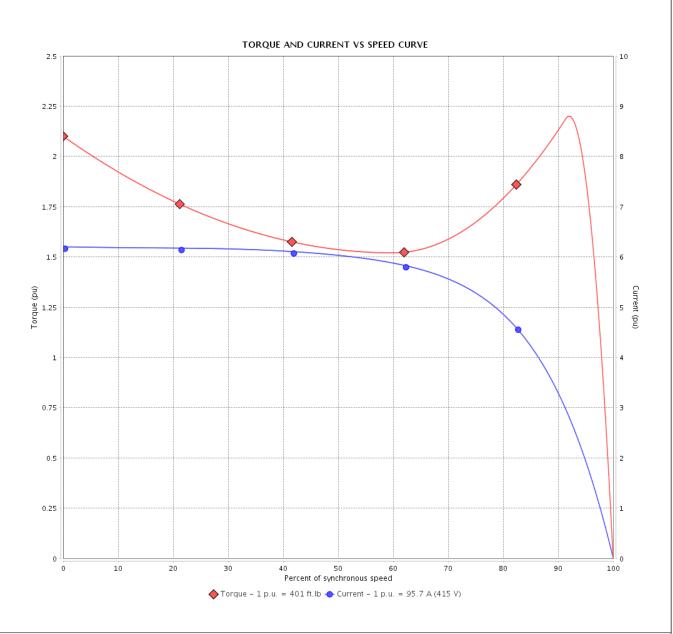
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11165649

Catalog #: 07512ET3ERB405T-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 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)

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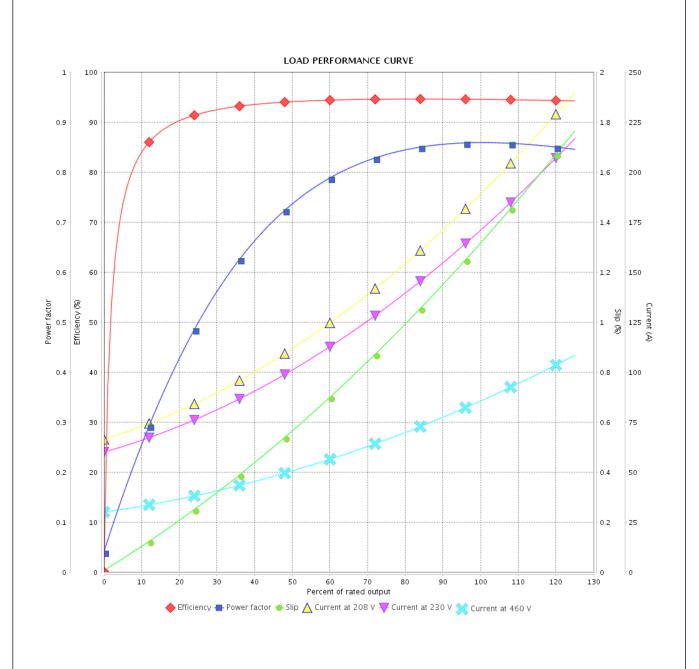


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165649

Phase

Catalog #: 07512ET3ERB405T-W22



Performance	: 2	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		229 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	229 %	Temperature rise		: 80 K	
Rated speed	: '	84 rpm Design		: B		
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Product line : NEMA Premium Efficiency Three- Product

Phase

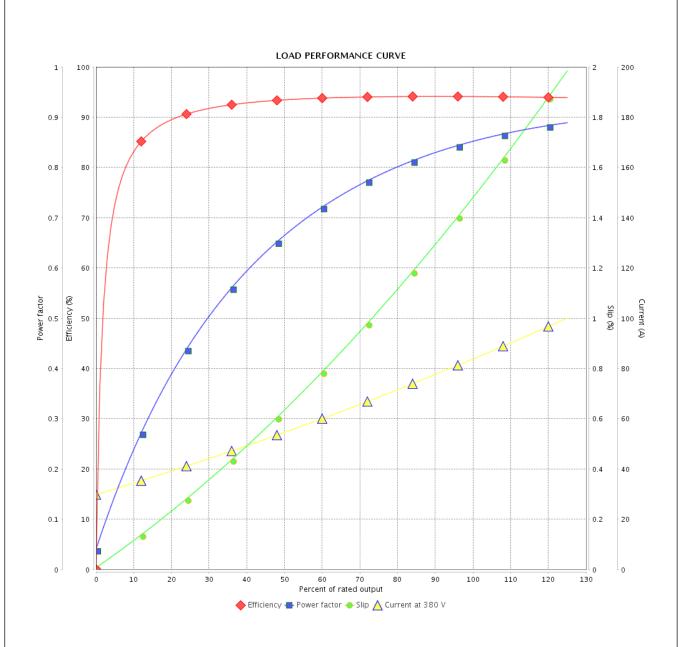
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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 85.5 A : 6.4 : 320 ft.lb : 200 % : 240 % : 985 rpm	Moment of inertia (J) : 40.2 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.00  Temperature rise : 80 K  Design : B		: F : 1.00 : 80 K	
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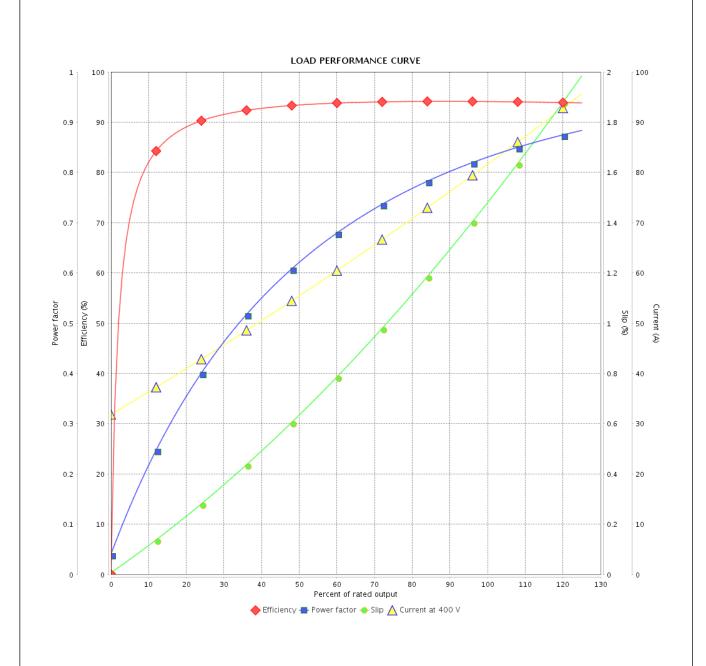


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165649

Phase

Catalog #: 07512ET3ERB405T-W22



<u> </u>					1	
Performance	: 4	: 400 V 50 Hz 6P IE3				
Rated current : 83.2 A		Moment o	f inertia (J)	: 40.2 sq.ft.lb		
LRC	: 6	.9	Duty cycle	<b>!</b>	: Cont.(S1)	
Rated torque	: 3	20 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	40 %	Service fa	ctor	: 1.00	
Breakdown torque		70 %	Temperature rise		: 80 K	
Rated speed	: 9	85 rpm	Design		: B	
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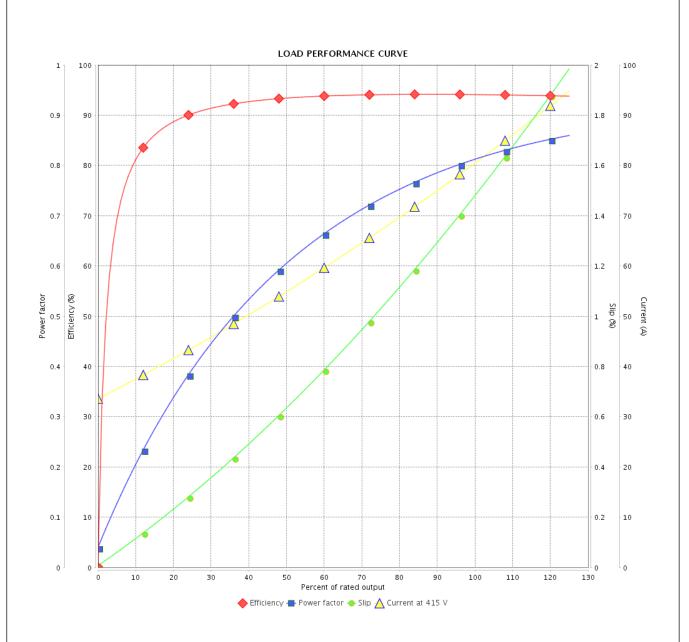
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Phase

Product code: 11165649

Catalog #: 07512ET3ERB405T-W22

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	·					
Performance	: 4	415 V 50 Hz 6P IE3	<b>I</b>			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 3 que : 2 ie : 2	32.1 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		
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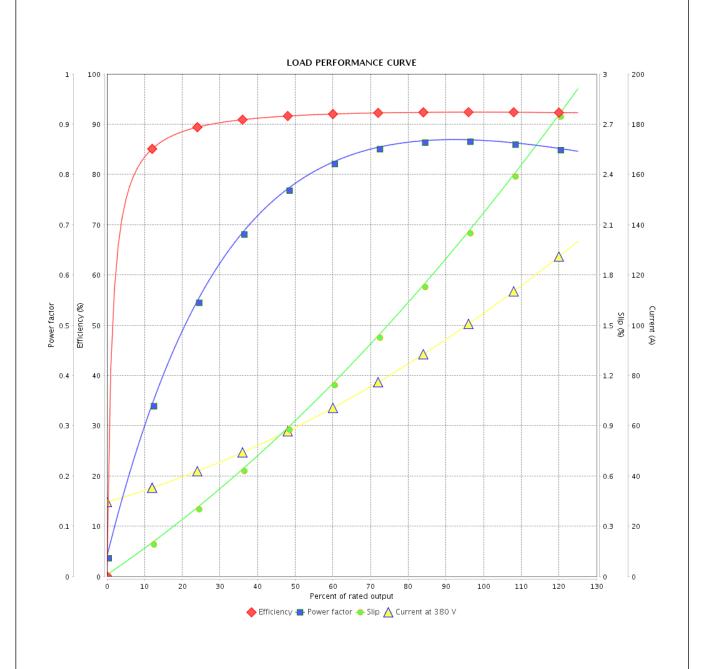


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165649

Phase

Catalog #: 07512ET3ERB405T-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	<b>;</b>	: Cont.(S1)	
Rated torque	: 4	03 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 1	70 %	Service factor		: 1.00	
Breakdown torque		80 %	Temperati	Temperature rise		
Rated speed	: 9	78 rpm	Design		: B	
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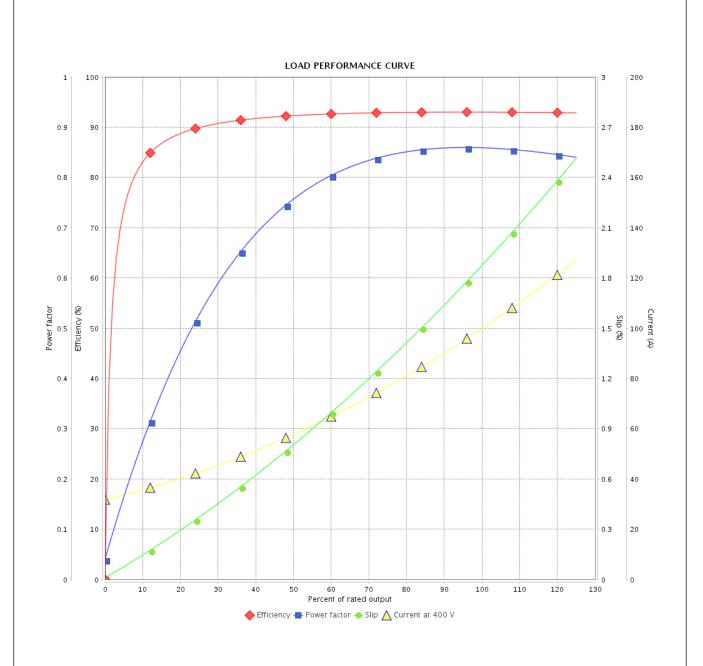
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 400 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 99.3 A : 5.7 : 401 ft.lb : 190 % : 200 % : 981 rpm	Moment of inerti 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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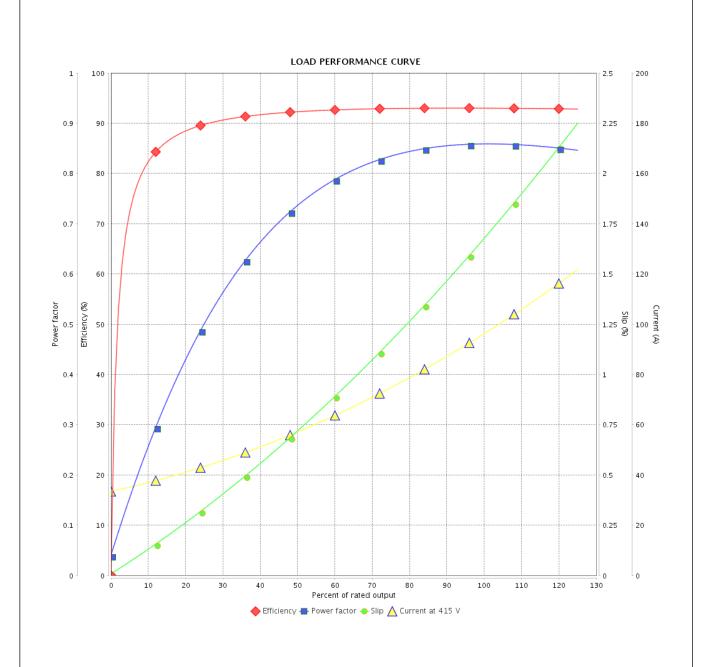


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165649

Phase

Catalog #: 07512ET3ERB405T-W22



Performance	: 4	15 V 50 Hz 6P IE1				
Rated current	: 9	5.7 A	Moment o	f inertia (J)	: 40.2 sq.ft.lb	
LRC	: 6	.2	Duty cycle	!	: Cont.(S1)	
Rated torque	: 4	01 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	10 %	Service factor		: 1.00	
Breakdown torque : 220 %		Temperatu	Temperature rise		: 105 K	
Rated speed	: 9	83 rpm	Design		: B	
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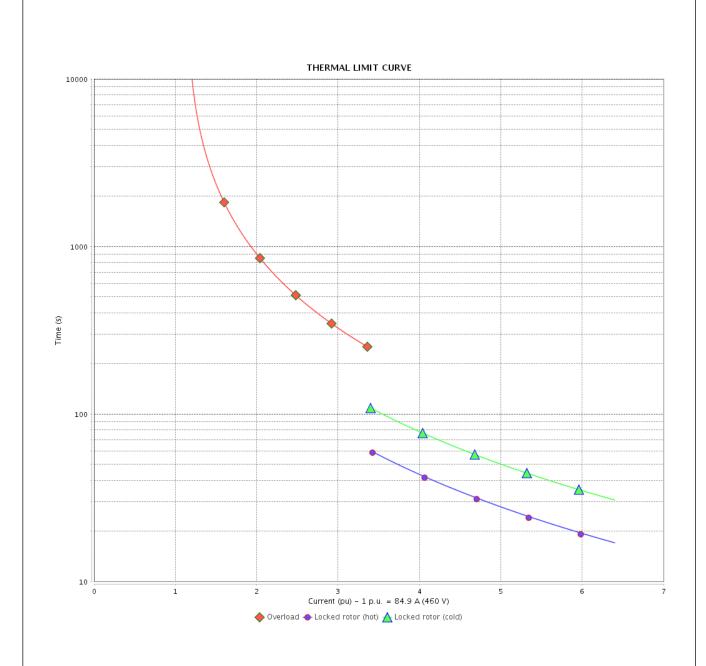


Customer	:			-	
Product line	: NEMA Premium Efficien Phase		Product code : Catalog # :	11165649 07512ET3EF	RB405T-W22
Performance	: 230/460 V 60 Hz 6P				
Rated current LRC	: 170/84.9 A : 6.4	Moment o	f inertia (J)	: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque	: 333 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 229 % : 229 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed	: 1184 rpm	Design	are rise	: B	
Heating constant					
Cooling constant	01		Dest 1	Ohl !	D-1-
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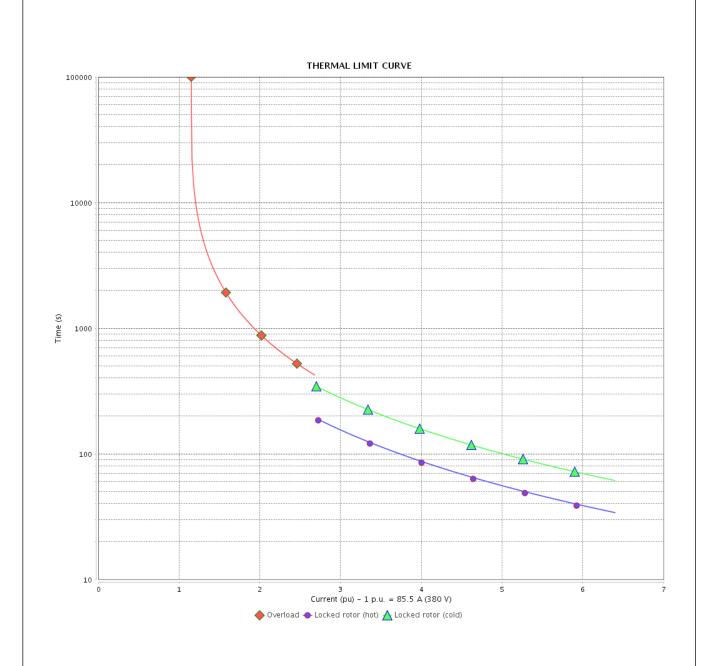


Customer		:				
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code :	11165649 07512ET3EF	RB405T-W22
				Catalog # .	OFFICE	ND-1001-WZZ
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed Heating constant	: : : : : : : : : :	380 V 50 Hz 6P IE3 85.5 A 6.4 320 ft.lb 200 % 240 % 985 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor ıre rise	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	Data
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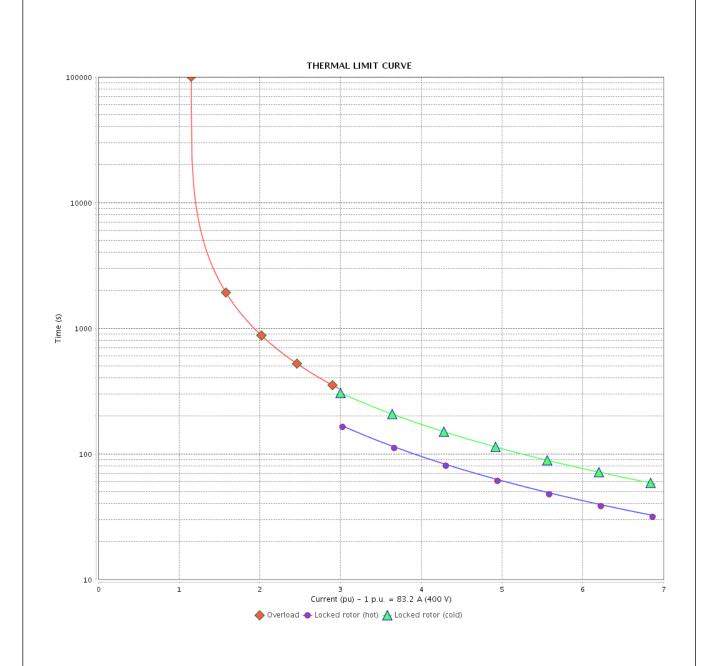


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Product line		NEMA Premium Efficiency Thase	Γhree- F	Product code :	11165649	
	гі	idse	(	Catalog # :	07512ET3ER	B405T-W22
Performance Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 83 : 6.9 : 32 e : 24 : 27	00 V 50 Hz 6P IE3 3.2 A 9 20 ft.lb 40 % 70 % 85 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant						
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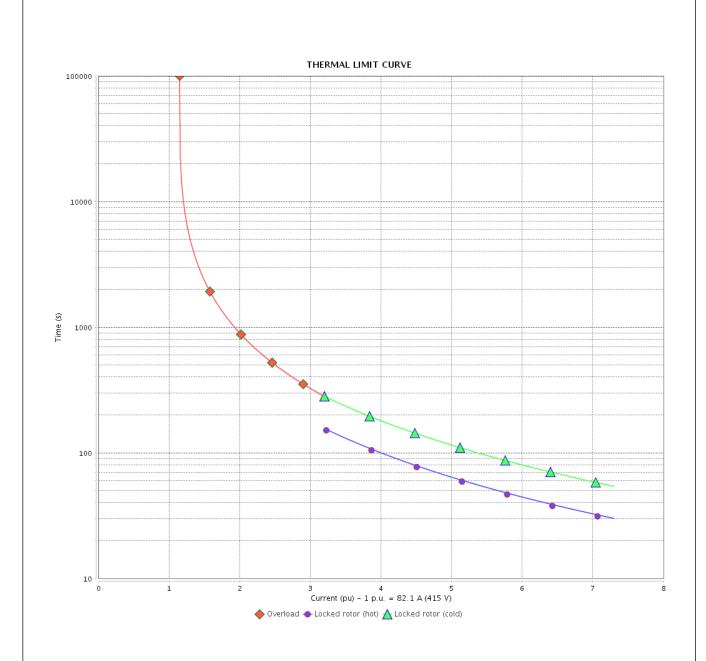


Customer		:				
Product line		: NEMA Premium Efficiency <sup>*</sup> Phase		Product code : Catalog # :	11165649 07512ET3EF	:B405T-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: : que :	415 V 50 Hz 6P IE3  82.1 A  7.3  320 ft.lb  270 %  290 %  985 rpm	Moment o 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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### Three Phase Induction Motor - Squirrel Cage



Customer



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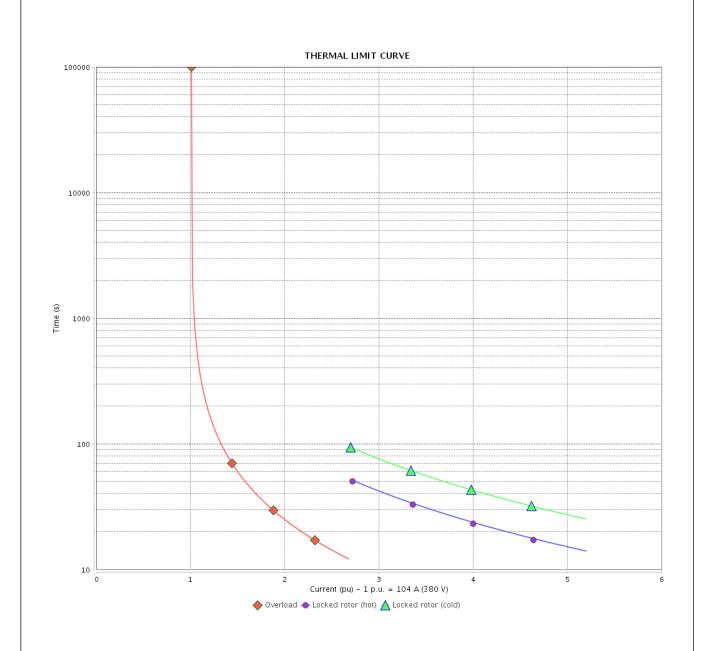


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11165649 07512ET3EF	RB405T-W22
						1-W22
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torque	: : que : ie :	380 V 50 Hz 6P IE1  104 A 5.2 403 ft.lb 170 % 180 %	Duty cycle Insulation Service fa Temperatu	class ctor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Rated speed Heating constant Cooling constant Rev.	t	978 rpm  Changes Summary	Design	Performed	: B	Date
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

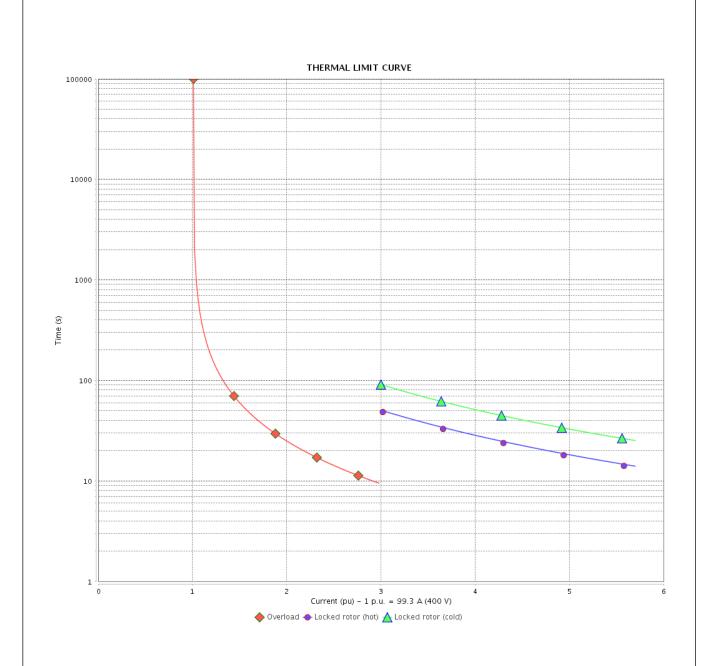


Customer	:					
Product line		NEMA Premium Efficiency Thase		Product code :	11165649 07512ET3ERI	3405T-W22
Performance	· A1	00 V 50 Hz 6P IE1				
Rated current		9.3 A	Moment of	f inertia (J)	: 40.2 sq.ft.lb	
LRC	: 5	.7	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor torc		01 ft.lb 90 %	Insulation Service fac		: F : 1.00	
Breakdown torque Rated speed	ie : 2	90 % 00 % 81 rpm	Temperatu Design		: 1.00 : 105 K : B	
Heating constant	t					
Cooling constant Rev.	İ	Changes Summary		Performed	Checked	Date
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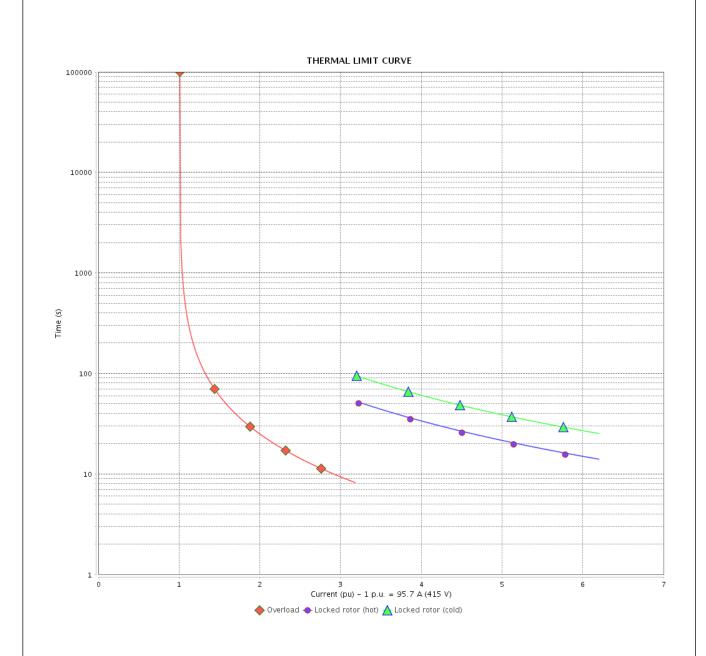


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11165649 07512ET3ERI	3405T-W22
Performance		: 415 V 50 Hz 6P IE1				
Rated current LRC		: 95.7 A : 6.2	Moment of Duty cycle	of inertia (J) e	: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque		: 401 ft.lb : 210 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu	ue	: 220 %	Temperat		: 105 K	
Rated speed		: 983 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



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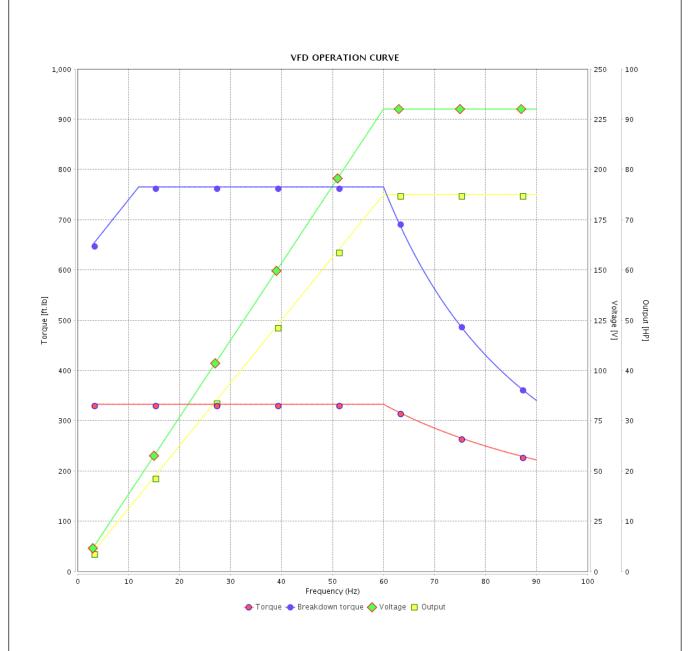
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11165649

Catalog #: 07512ET3ERB405T-W22

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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

#### Three Phase Induction Motor - Squirrel Cage

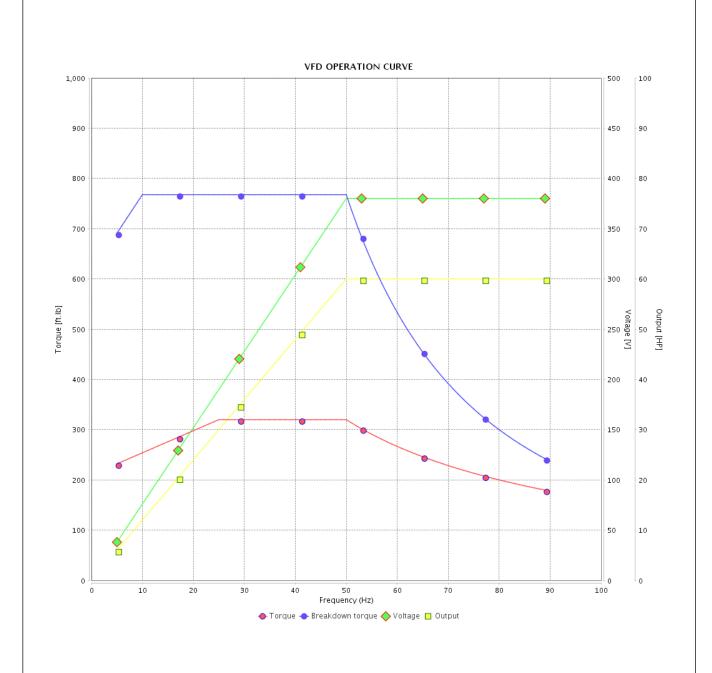


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165649

Phase

Catalog #: 07512ET3ERB405T-W22



Performance	: 3	80 V 50 Hz 6P IE3				
Rated current		5.5 A		of inertia (J)	: 40.2 sq.ft.lb	
LRC	: 6	.4	Duty cycle	9	: Cont.(S1)	
Rated torque	: 3	20 ft.lb	Insulation	class	:F	
Locked rotor tord	rotor torque : 200 % Service factor		ictor	: 1.00		
Breakdown torque : 240 % Temperature		ure rise	e rise : 80 K			
Rated speed	: 9	85 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Product

Phase

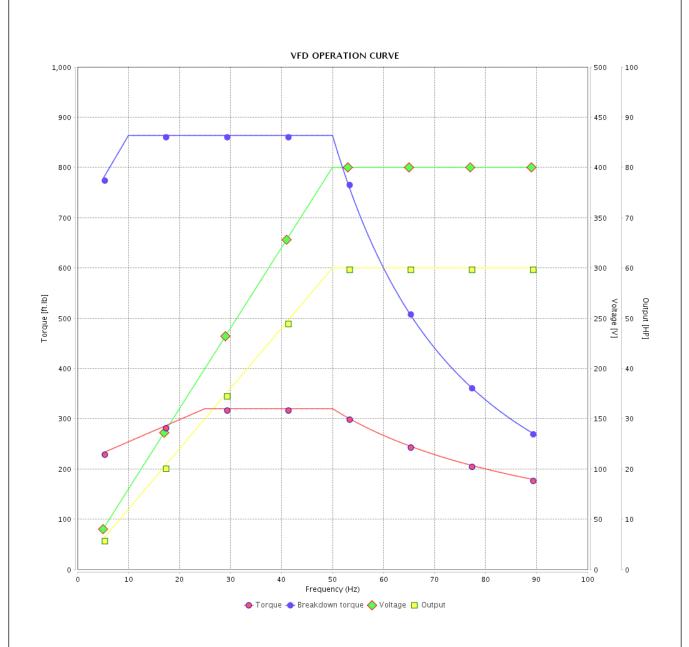
Product code: 11165649

Catalog #: 07512ET3ERB405T-W22

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Revision



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



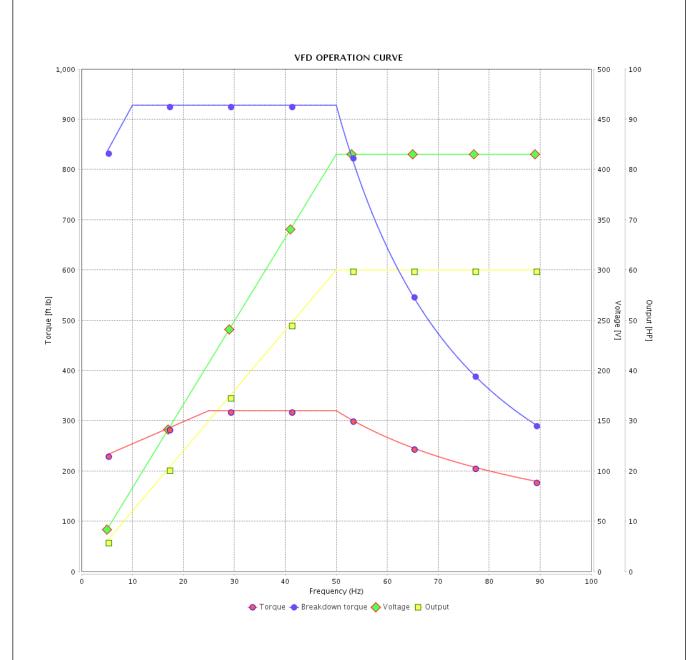
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Product line : NEMA Premium Efficiency Three- Product code : 11165649

Phase

Catalog #: 07512ET3ERB405T-W22

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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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		ty cycle : Cont.(S1) ulation class : F rvice factor : 1.00 mperature rise : 80 K		: Cont.(S1) : F : 1.00
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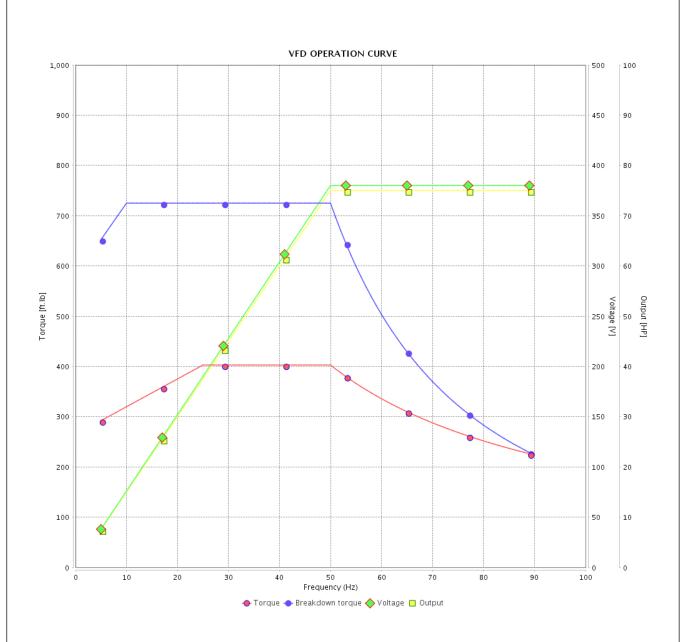
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11165649

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D (	0001/5011 00154				
Performance	: 380 V 50 Hz 6P IE1				
Rated current LRC	: 104 A : 5.2	Moment of inertia (J) Duty cycle		: 40.2 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 403 ft.lb : 170 %	Insulation class Service factor Temperature rise		: F : 1.00	
Breakdown torque	: 180 %			: 105 K	
Rated speed	: 978 rpm	Design		: B	
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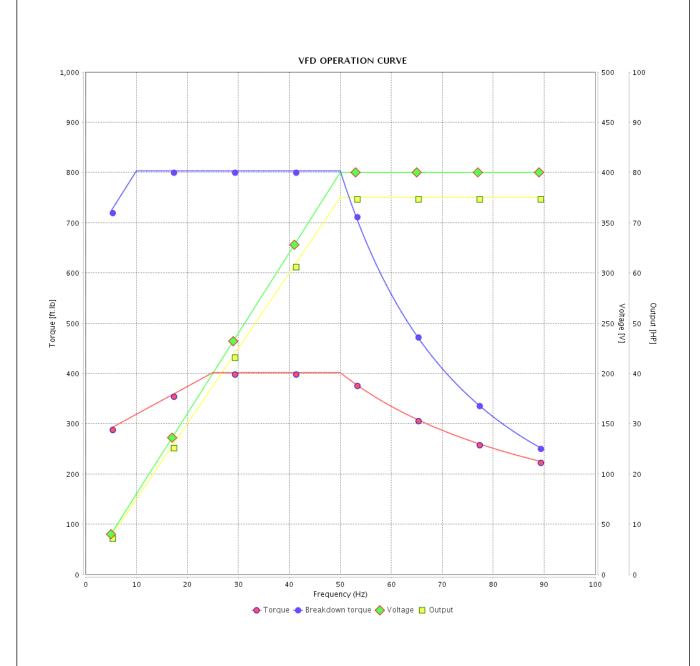


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Product line : NEMA Premium Efficiency Three- Product code : 11165649

Phase

Catalog #: 07512ET3ERB405T-W22



Performance	: 40	00 V 50 Hz 6P IE1	00 V 50 Hz 6P IE1			
Rated current	: 9	9.3 A	Moment o	f 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 torqu	e : 19	90 %	Service factor		: 1.00	
Breakdown torque	: 20	00 %	Temperature rise		: 105 K	
Rated speed	ated speed : 981 rpm Design			: B		
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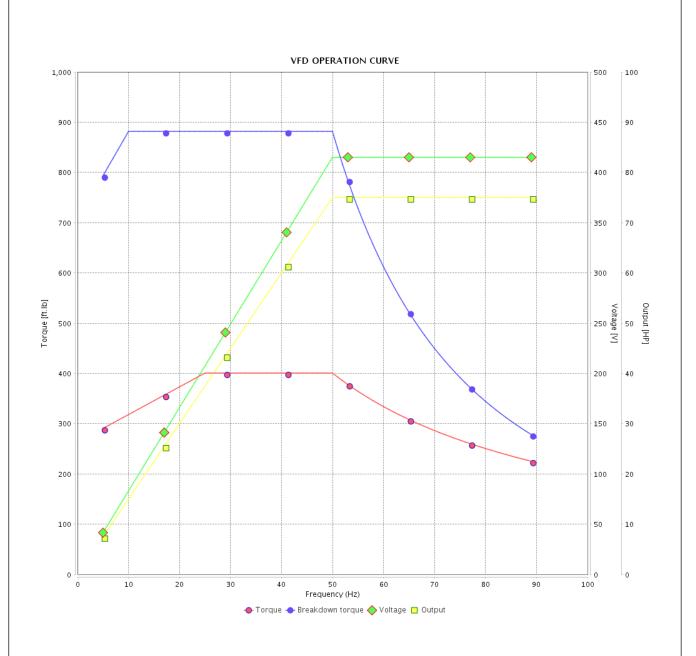
Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11165649

Catalog #: 07512ET3ERB405T-W22

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Performance	: 4	15 V 50 Hz 6P IE	1			
LRC : 6.2 Dut Rated torque : 401 ft.lb Ins Locked rotor torque : 210 % Set Breakdown torque : 220 % Ter		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 40.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
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