### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12275877

Phase

Catalog # : 06036ET3E364TSC-W22

: F-1

Frame : 364/5TSC Cooling method : IC411 - TEFC

Insulation class : F Mounting

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 880 lb

Protection degre	е	: IP55		Mome	nt of inertia (J)	) : 1	0.6 sq.ft.lb	
Design		: B						
Output [HP]		60	50	50	50	60	60	60
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		134/67.0	65.9	63.3	61.7	81.3	77.6	74.8
L. R. Amperes [A]		884/442	415	443	457	423	450	464
LRC [A]		6.6x(Code	6.3x(Code F)	7.0x(Code	7.4x(Code H)	5.2x(Code E)	5.8x(Code F)	6.2x(Code F)
		G)		G)				
No load current [A	]	30.0/15.0	15.0	16.2	17.4	15.0	16.2	17.4
Rated speed [RPN	<b>/</b> 1]	3560	2955	2960	2965	2945	2950	2955
Slip [%]		1.11	1.50	1.33	1.17	1.83	1.67	1.50
Rated torque [ft.lb]		88.5	88.9	88.7	88.6	107	107	107
Locked rotor torqu	e [%]	200	190	220	229	160	180	190
Breakdown torque	[%]	260	250	280	300	210	229	250
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		25s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)
		14s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)
Noise level <sup>2</sup>		79.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)
	25%							
Efficiency (%)	50%	91.7	92.1	91.7	91.6	92.4	92.4	92.4
Lilloleticy (70)	75%	93.0	92.8	92.8	92.9	93.0	93.0	93.0

Drive end Non drive end Foundation loads

93.7

0.79

0.87

0.90

93.7

0.76

0.85

0.89

Bearing type : 6314 C3 6314 C3 Max. traction : 472 lb Sealing : WSeal WSeal Max. compression : 1352 lb

4000 h

93.7

0.81

0.88

0.91

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

93.6

0.81

0.88

0.90

4000 h

Notes

Power Factor

Lubrication interval

USABLE @208V 148A SF 1.10 SFA 163A

100%

25% 50%

75%

100%

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

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

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

92.4

0.85

0.90

0.91

93.0

0.83

0.89

0.90

93.0

0.81

0.88

0.90

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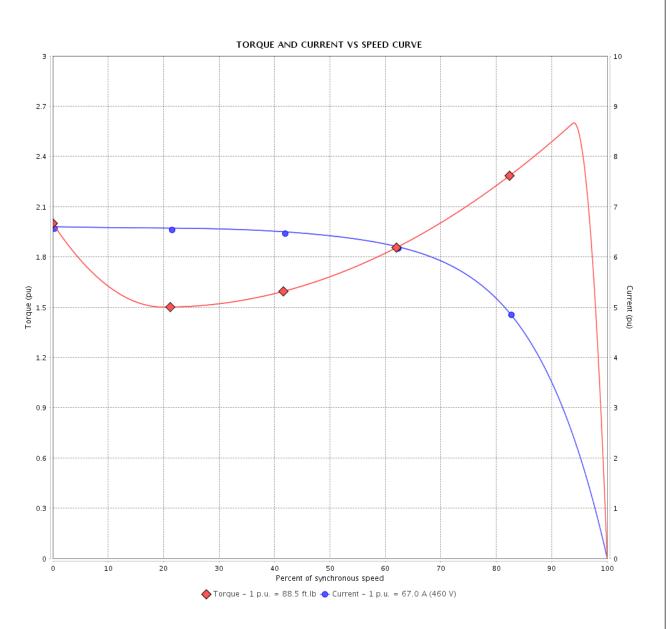
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12275877

Catalog #: 06036ET3E364TSC-W22



Performance : 230/460 V 60 Hz 2P Rated current : 134/67.0 A Moment of inertia (J) : 10.6 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 88.5 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3560 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: 12275877 Catalog #: 06036ET3E364TSC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed 🔷 Torque – 1 p.u. = 88.9 ft.lb 🔷 Current – 1 p.u. = 65.9 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 65.9 A Moment of inertia (J) : 10.6 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 88.9 ft.lb Rated torque Insulation class : F : 190 % Locked rotor torque Service factor : 1.00 Breakdown torque : 250 % : 80 K Temperature rise Rated speed : 2955 rpm Design

. 20	00 Ipili	Design		. Б	
e : 21	Is (cold) 12s (hot)				
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	e : 2 <sup>4</sup>	Changes Summary  13/04/2022	e : 21s (cold) 12s (hot)  Changes Summary  13/04/2022	e : 21s (cold) 12s (hot)  Changes Summary Performed  13/04/2022	e : 21s (cold) 12s (hot)  Changes Summary Performed Checked  Page 13/04/2022 Page 3 / 36

#### Three Phase Induction Motor - Squirrel Cage



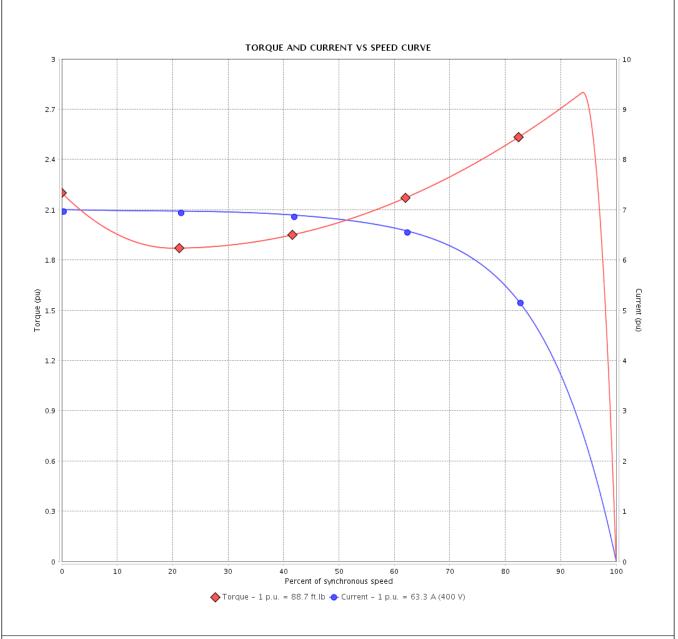
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 12275877

Catalog #: 06036ET3E364TSC-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 63.3 A Moment of inertia (J) : 10.6 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 88.7 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12275877 Catalog #: 06036ET3E364TSC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed 🔷 Torque – 1 p.u. = 88.6 ft.lb 🔷 Current – 1 p.u. = 61.7 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 61.7 A Moment of inertia (J) : 10.6 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 88.6 ft.lb Insulation class Rated torque : F : 229 % Locked rotor torque Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B Locked rotor time : 21s (cold) 12s (hot) Date Rev. Performed Checked **Changes Summary** 

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### Three Phase Induction Motor - Squirrel Cage



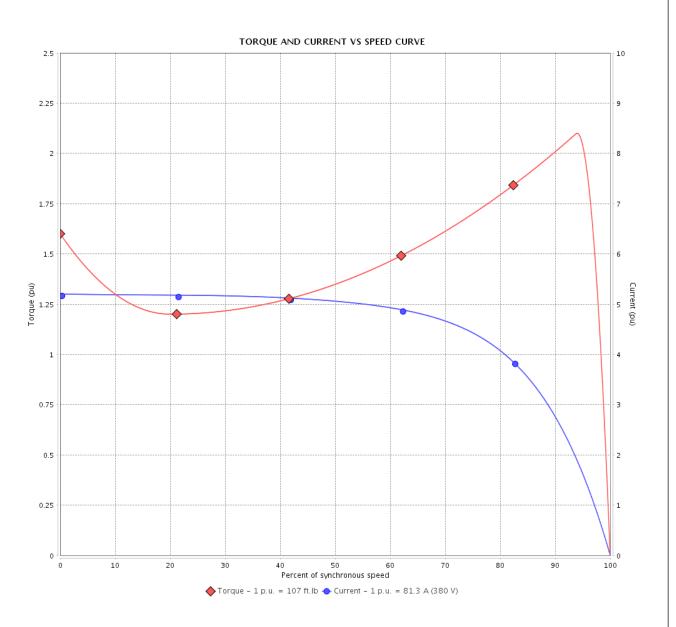
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 06036ET3E364TSC-W22

12275877



Performance	: 380 V 50 Hz 2P IE1			
Rated current	: 81.3 A	Moment of inertia (J)	: 10.6 sq.ft.lb	
LRC	: 5.2	Duty cycle	: Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation class	: F	
Locked rotor torque	: 160 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 105 K	
Rated speed	: 2945 rpm	Design	: B	
Locked rotor time	: 21s (cold) 12s (hot)			

Locked rotor time : 21s (cold) 12s (hot)

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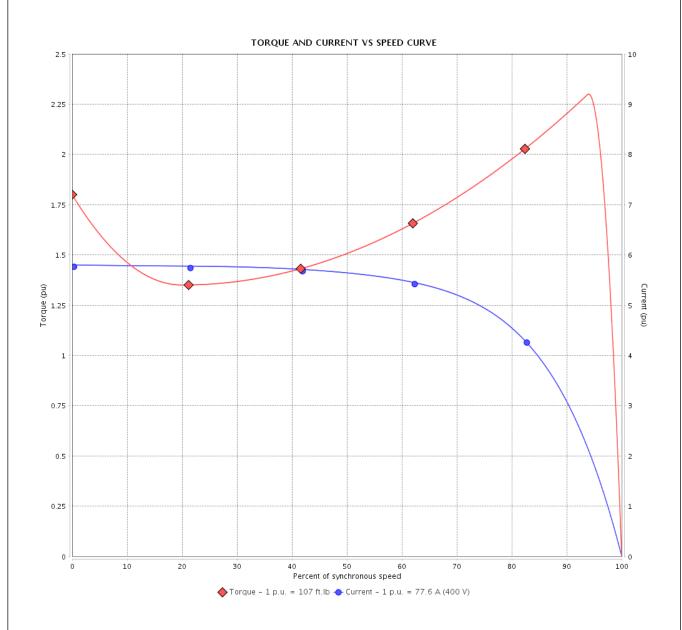
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12275877

Catalog #: 06036ET3E364TSC-W22



Performance	: 400 V 50 Hz 2P IE2		
Rated current	: 77.6 A	Moment of inertia (J)	: 10.6 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 107 ft.lb	Insulation class	:F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 105 K
Rated speed	: 2950 rpm	Design	: B
Locked rotor time	: 21s (cold) 12s (hot)		

Locked rotor time

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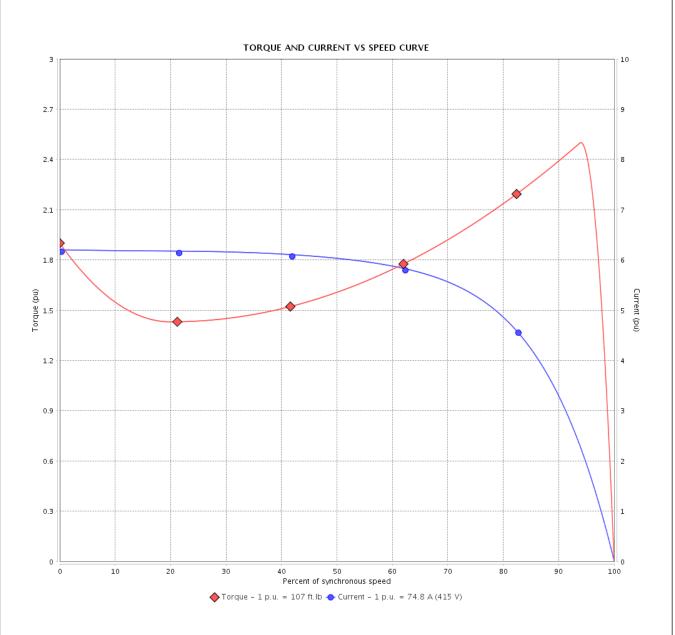
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12275877

Catalog #: 06036ET3E364TSC-W22



Performance	: 415 V 50 Hz 2P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 74.8 A : 6.2 : 107 ft.lb : 190 % : 250 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 10.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Locked rotor time	: 21s (cold) 12s (hot)			

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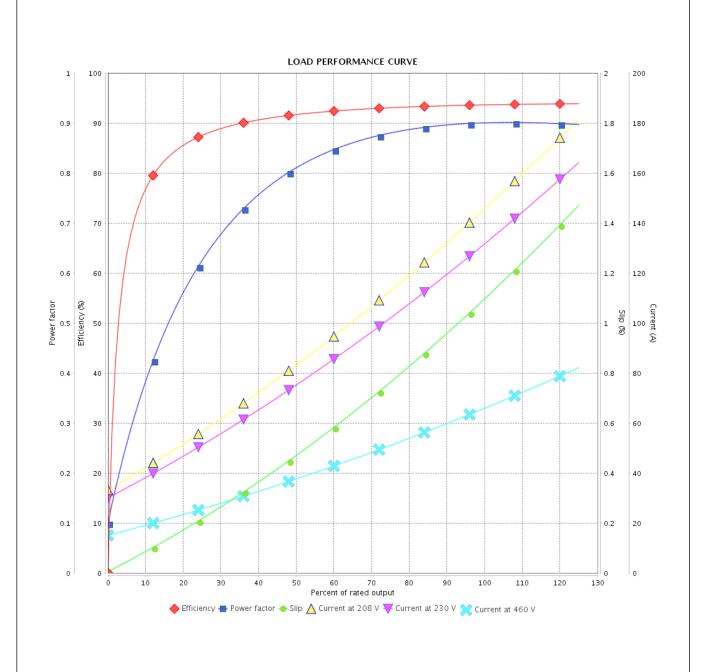


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12275877

Phase

Catalog # : 06036ET3E364TSC-W22



Performance	: 2	30/460 V 60 Hz 2P				
Rated current	: 1	: 134/67.0 A Moment of inertia (J)		f inertia (J)	: 10.6 sq.ft.lb	
LRC	: 6	.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 8	8.5 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	00 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	60 %	Temperat	ure rise	: 80 K	
Rated speed	: 3	560 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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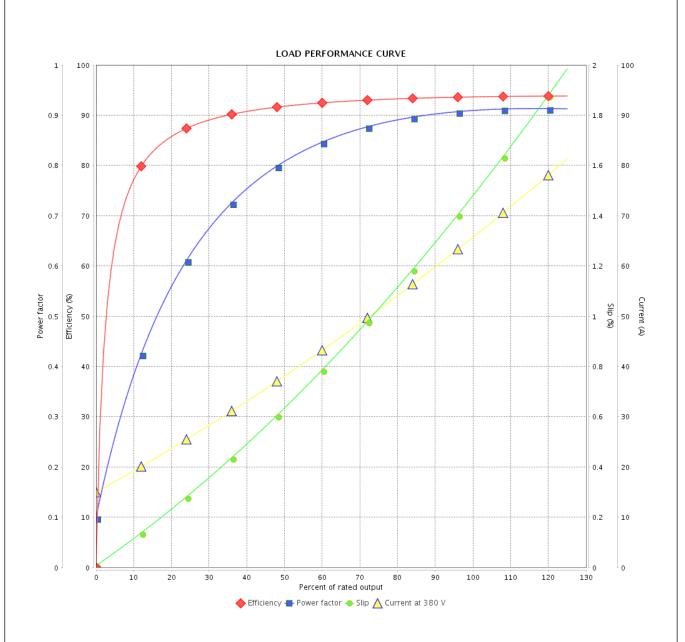
Product line : NEMA Premium Efficiency Three- Produc

Phase

Product code: 12275877

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Performance	: 3	880 V 50 Hz 2P IE3	<u> </u>			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	RC : 6.3 Duty cycles ted torque : 88.9 ft.lb Insulation specked rotor torque : 190 % Service for teakdown torque : 250 % Temperary		class ctor	: 10.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	ont.(S1) 00	
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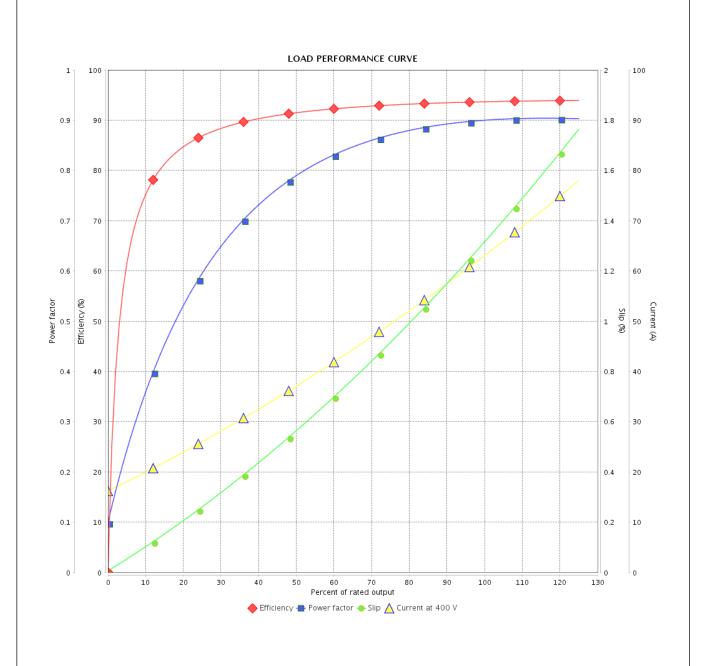
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12275877

Catalog #: 06036ET3E364TSC-W22



Performance	: 4	100 V 50 Hz 2P IE3				
Rated current	ated current : 63.3 A		Moment o	f inertia (J)	: 10.6 sq.ft.lb	
LRC	: 7	7.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 8	38.7 ft.lb	Insulation	class	: F	
Locked rotor torque		220 %	Service fa	ctor	: 1.00	
Breakdown torque		280 %	Temperati	Temperature rise		
Rated speed	: 2	2960 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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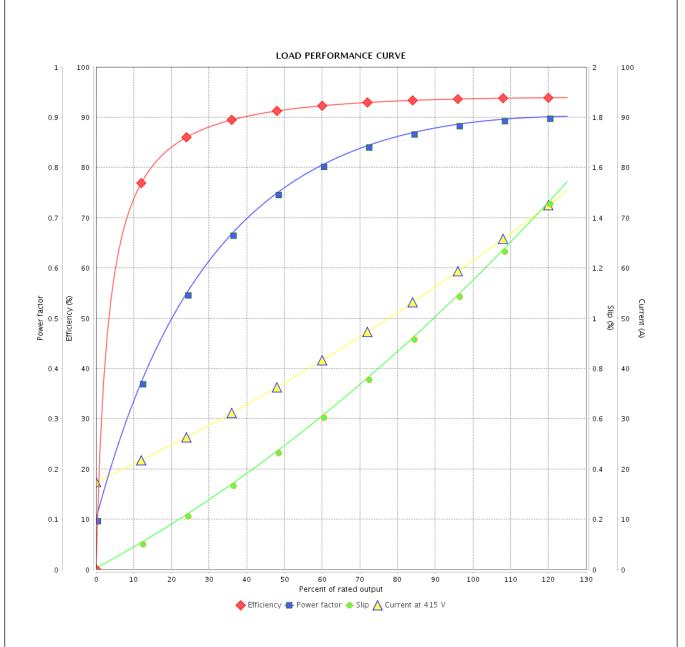
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12275877

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Performance	: 415 V 50 Hz 2P IE3				
Rated current	: 61.7 A	Moment of ir	nertia (J)	: 10.6 sq.ft.lb	
LRC	: 7.4	Duty cycle	(0)	: Cont.(S1)	
Rated torque : 88.6 ft.lb		Insulation cla	ass	: F	
Locked rotor torque	: 229 %	Service factor		: 1.00	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed	: 2965 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage

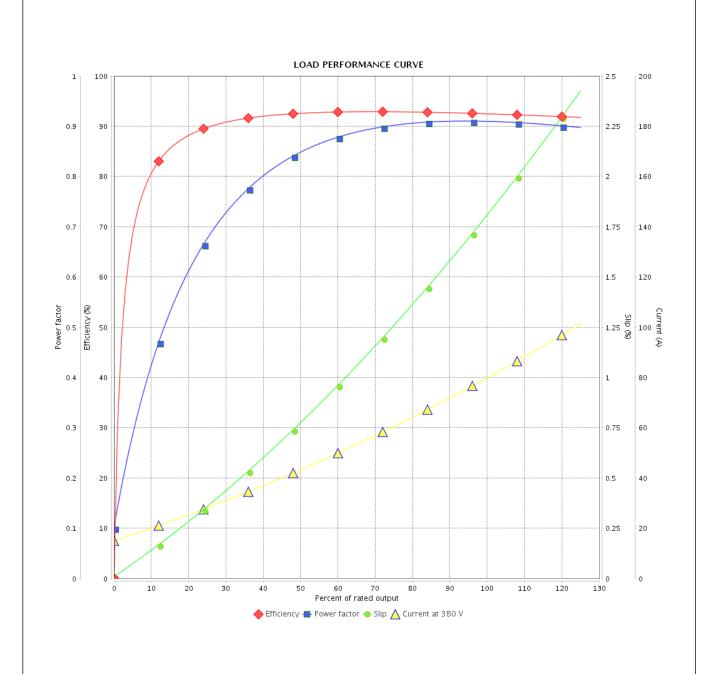


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12275877

Phase

Catalog #: 06036ET3E364TSC-W22



Performance	:	380 V 50 Hz 2P IE1				
Rated current	:	81.3 A	Moment o	f inertia (J)	: 10.6 sq.ft.lb	
LRC	:	5.2	Duty cycle	;	: Cont.(S1)	
Rated torque	:	107 ft.lb	Insulation	class	: F	
Locked rotor torque	:	160 %	Service factor		: 1.00	
Breakdown torque	:	210 %	Temperature rise		: 105 K	
Rated speed	:	2945 rpm	Design		: B	
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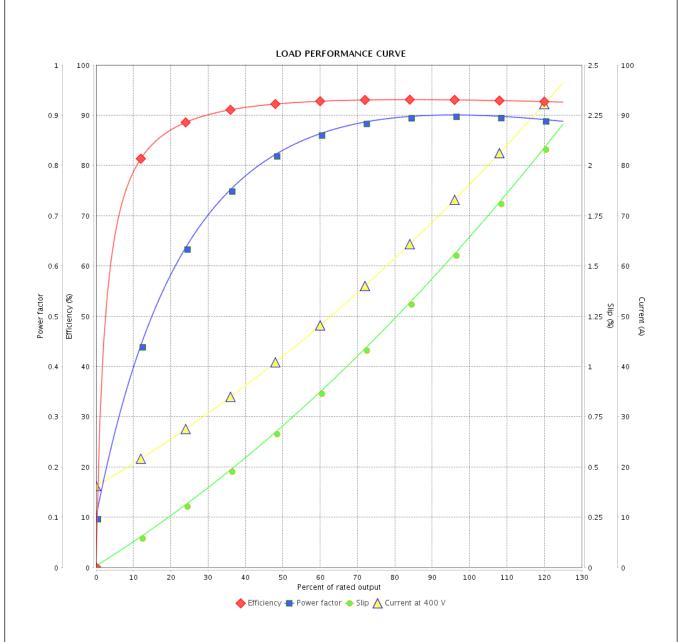
Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 12275877

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Performance	: 400 V 50 Hz 2P IE2				
Rated current	: 77.6 A	Moment of inertia (J)		: 10.6 sq.ft.lb	
LRC	: 5.8	Duty cycle	e	: Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation	class	: F	
Locked rotor torque	: 180 %	Service factor Temperature rise		: 1.00 : 105 K	
Breakdown torque	: 229 %				
Rated speed	: 2950 rpm	Design		: B	
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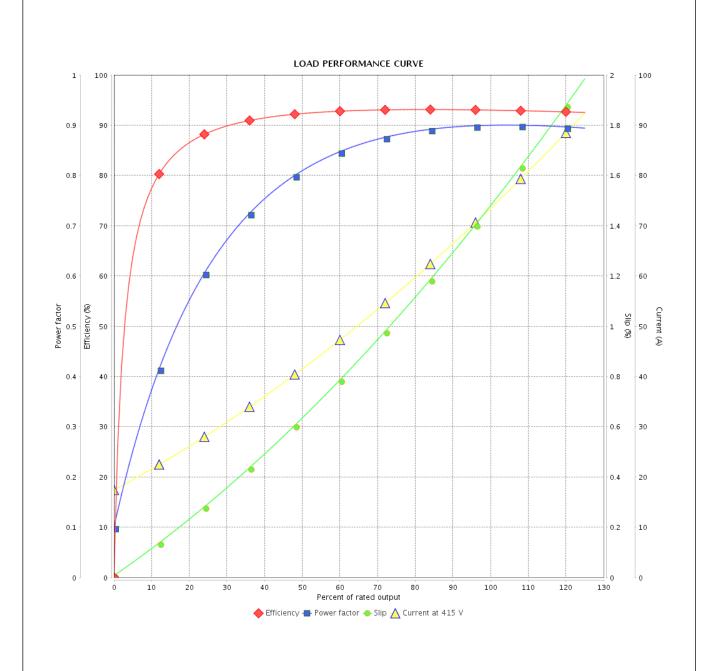
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12275877

Catalog #: 06036ET3E364TSC-W22



Performance	: 4	115 V 50 Hz 2P IE2				
Rated current	: 7	: 74.8 A Moment of ine		f inertia (J)	: 10.6 sq.ft.lb	
LRC	: 6	3.2	Duty cycle	)	: Cont.(S1)	
Rated torque	: '	107 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 1	190 %	Service fa	ctor	: 1.00	
Breakdown torque		250 %	Temperati	Temperature rise		
Rated speed	: 2	955 rpm Design		: B		
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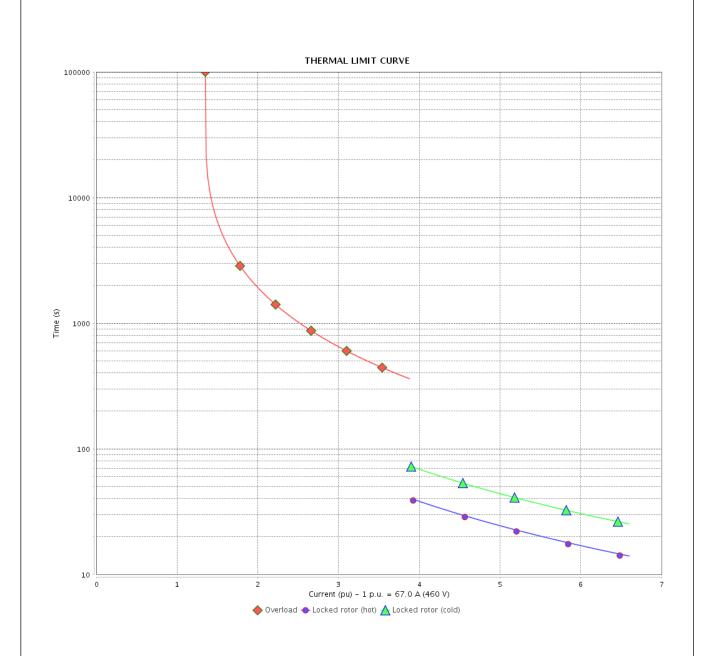


Customer	:					
Product line	: NE Pha	MA Premium Efficiency se		Product code :	12275877 06036ET3E30	64TSC-W22
Performance Rated current		/460 V 60 Hz 2P /67.0 A	Moment of	f inertia (J)	: 10.6 sq.ft.lb	
LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.6 : 88.5 : 200 : 260 : 356	ft.lb % %	Duty cycle Insulation Service fa Temperatu Design	class ctor	: Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.	C	hanges Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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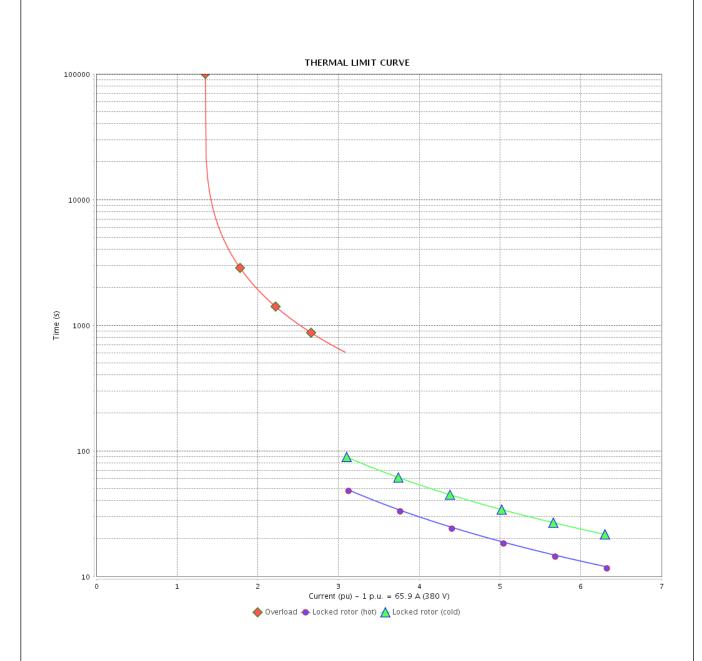


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12275877 06036ET3E36	64TSC-W22
Performance		: 380 V 50 Hz 2P IE3				
Rated current LRC		: 65.9 A : 6.3	Duty cycle		: 10.6 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 88.9 ft.lb : 190 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed	ue :	: 250 % : 2955 rpm	Temperat Design		: 80 K : B	
Heating constan			200911			
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

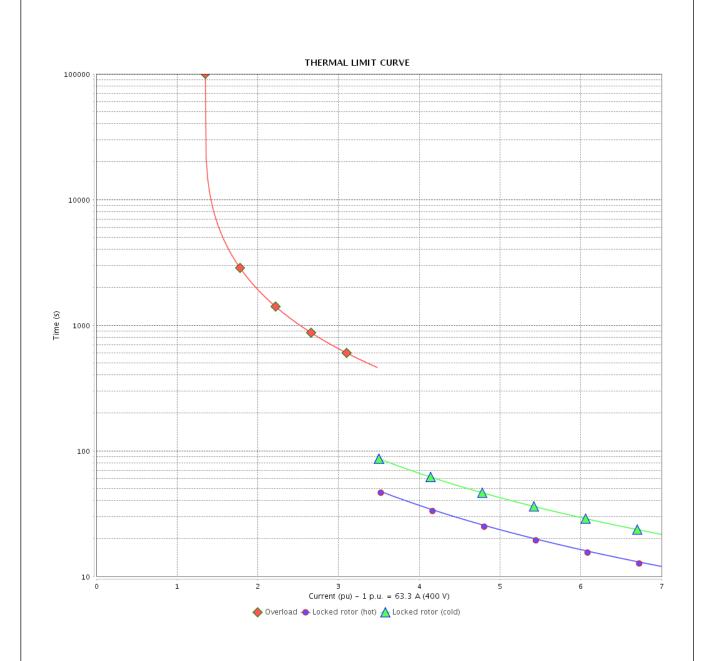


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12275877 06036ET3E36	64TSC-W22
Performance	:	: 400 V 50 Hz 2P IE3				
Rated current LRC	:	: 63.3 A : 7.0	Duty cycle		: 10.6 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 88.7 ft.lb : 220 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed	ie :	: 280 % : 2960 rpm	Temperati Design		: 80 K : B	
Heating constant						
Cooling constant	t					
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

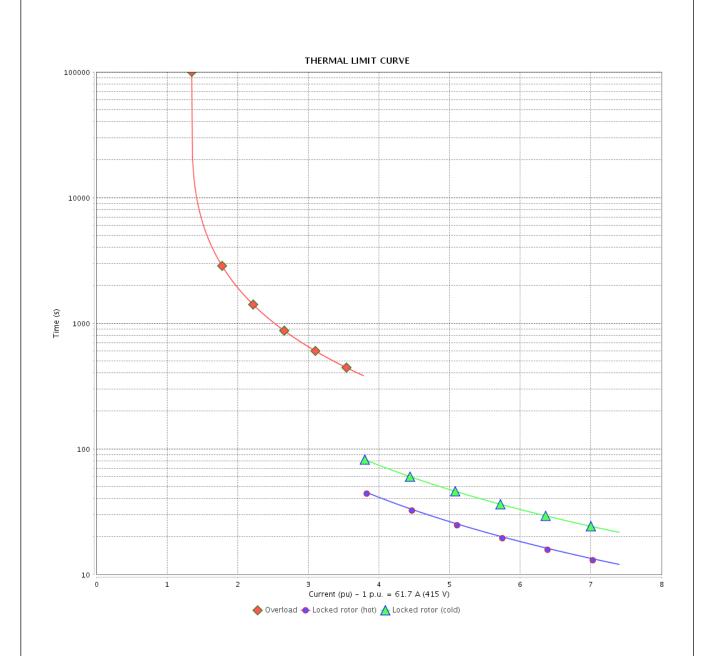


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	12275877 06036ET3E36	64TSC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6° : 7. : 88 : 22 : 30	15 V 50 Hz 2P IE3 1.7 A 4 3.6 ft.lb 29 % 00 % 965 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 10.6 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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### Three Phase Induction Motor - Squirrel Cage

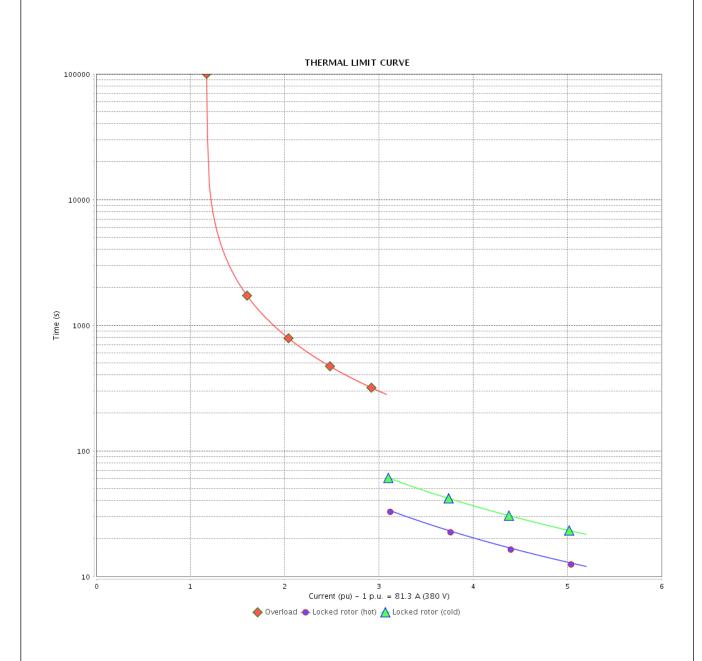


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12275877 06036ET3E36	64TSC-W22
Performance		380 V 50 Hz 2P IE1		<b>5.</b>	10.0 6.11	
Rated current LRC	:	81.3 A 5.2	Duty cycle		: 10.6 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		107 ft.lb 160 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		210 %	Temperati		: 1.00 : 105 K	
Rated speed	:	2945 rpm	Design		: B	
Heating constant Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

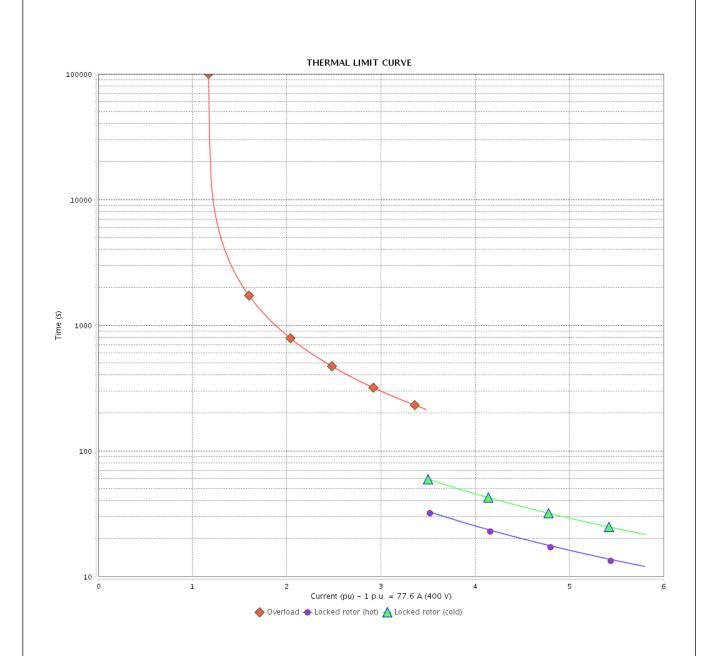


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Customer	:					
Product line		NEMA Premium Efficiency Thase		Product code :	12275877	
			(	Catalog # :	06036ET3E3	64TSC-W22
Performance	: 40	00 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 5. : 10 e : 18 : : 22	7.6 A 8 07 ft.lb 30 % 29 % 950 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 10.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant			-			
Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

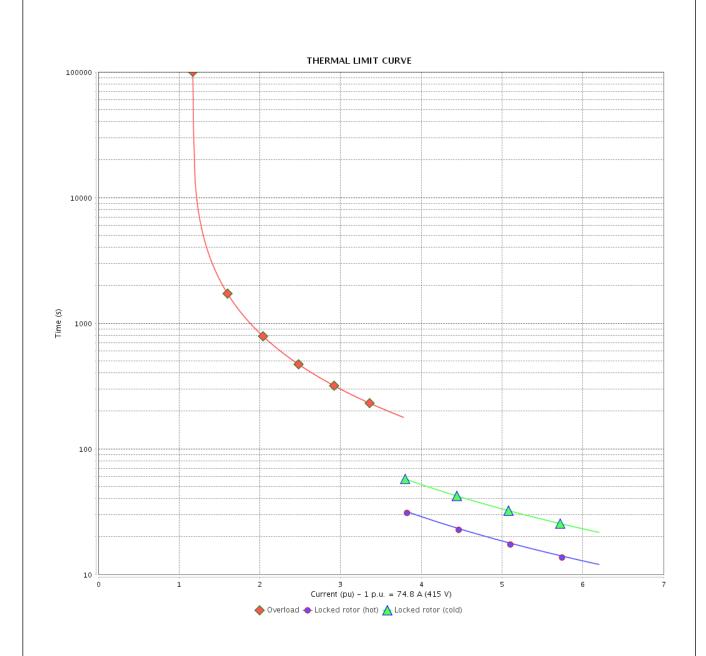


Customer	:				
Product line	: NEMA Premium Eff	iciency Three-	Product code :	12275877	
	Phase		Catalog # :	06036ET3E3	64TSC-W22
Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC	: 74.8 A : 6.2	Moment of Duty cycl	of inertia (J)	: 10.6 sq.ft.lb : Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation	ı class	: F	
Locked rotor torque Breakdown torque	: 190 % : 250 %	Service fa		: 1.00 : 105 K	
Rated speed	: 2955 rpm	Design	.u16 1136	: 105 K : B	
Heating constant					
Cooling constant					
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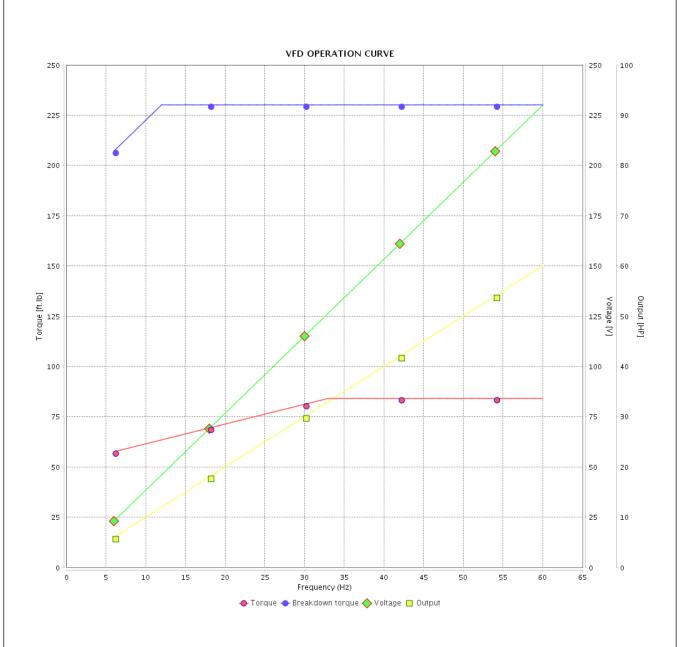
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12275877

Catalog #: 06036ET3E364TSC-W22

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Performance : 230/460 V 60 Hz 2P : 134/67.0 A Rated current Moment of inertia (J) : 10.6 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class Rated torque : 88.5 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3560 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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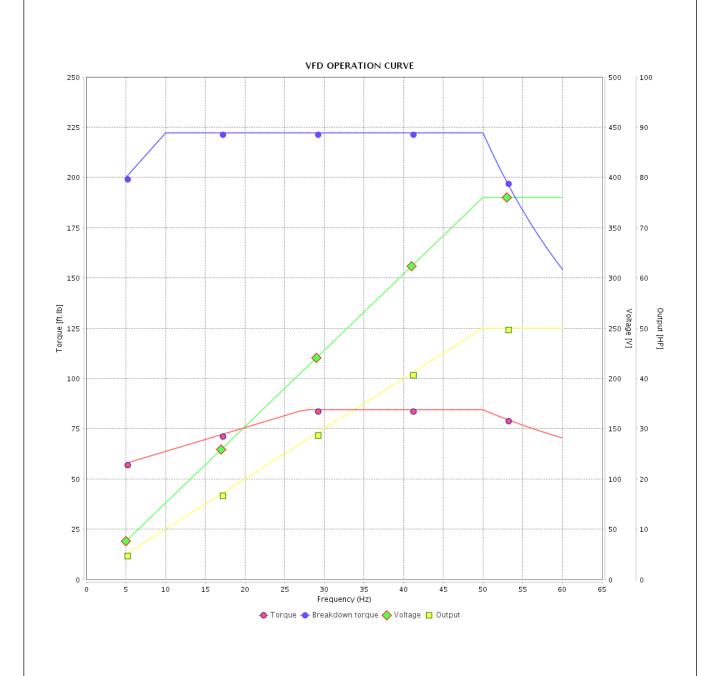
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 06036ET3E364TSC-W22

12275877



Performance	:	380 V 50 Hz 2P IE3				
Rated current	:	: 65.9 A Moment of		f inertia (J)	: 10.6 sq.ft.lb	
LRC	:	6.3	Duty cycle	;	: Cont.(S1)	
Rated torque	:	88.9 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	190 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie :	250 %	Temperati	ure rise	: 80 K	
Rated speed	:	2955 rpm	Design		: B	
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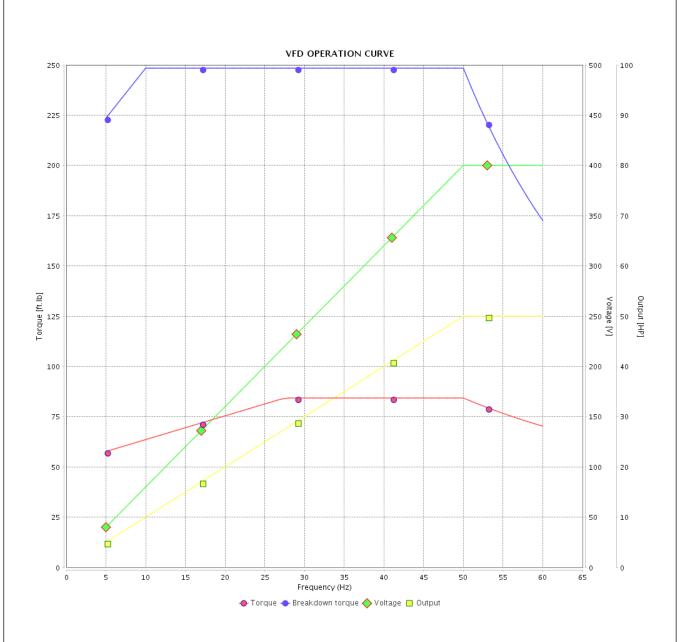
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12275877

Catalog #: 06036ET3E364TSC-W22

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Performance	: 400 V 50 Hz 2P IE3				
Rated current			: 10.6 sq.ft.lb		
LRC	: 7.0	Duty cycle		: Cont.(S1)	
Rated torque	: 88.7 ft.lb	Insulation of	class	: F	
Locked rotor torque	: 220 %	Service factor		: 1.00	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 2960 rpm	Design		: B	
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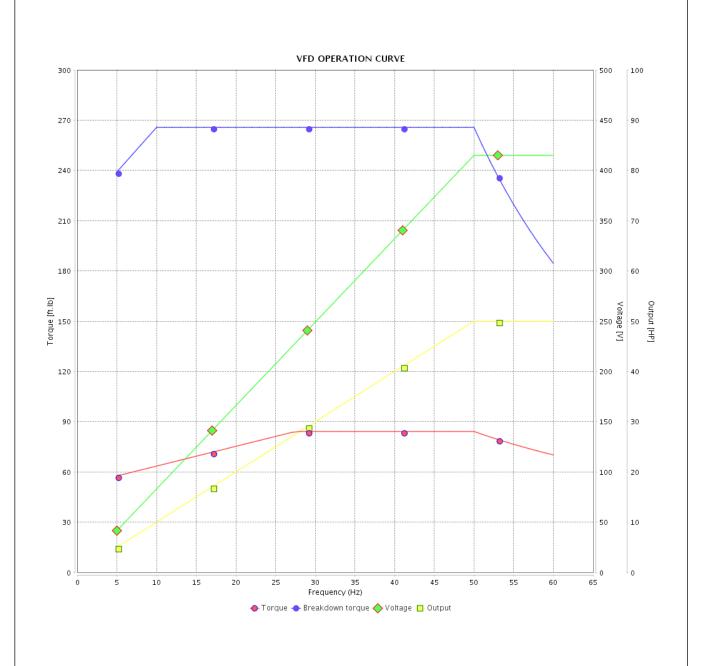
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 06036ET3E364TSC-W22

12275877



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 6	S1.7 A Moment of i		f inertia (J)	: 10.6 sq.ft.lb	
LRC	: 7	.4	Duty cycle	}	: Cont.(S1)	
Rated torque	: 8	8.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	ıe : 2	29 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	00 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 2	965 rpm	Design		: B	
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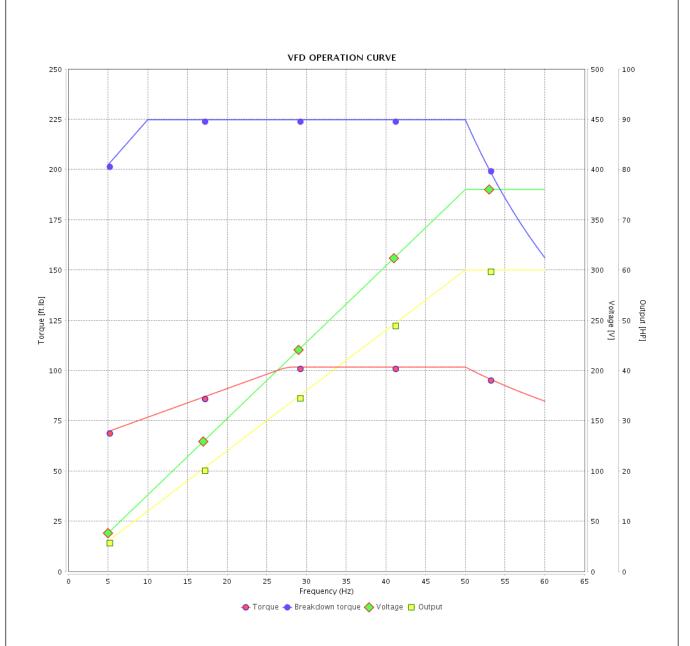
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12275877

Catalog #: 06036ET3E364TSC-W22



Performance : 380 V 50 Hz 2P IE1 Rated current : 81.3 A Moment of inertia (J) : 10.6 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) : 107 ft.lb Insulation class Rated torque : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 2945 rpm Design : B Rev. Performed Checked Date **Changes Summary** 

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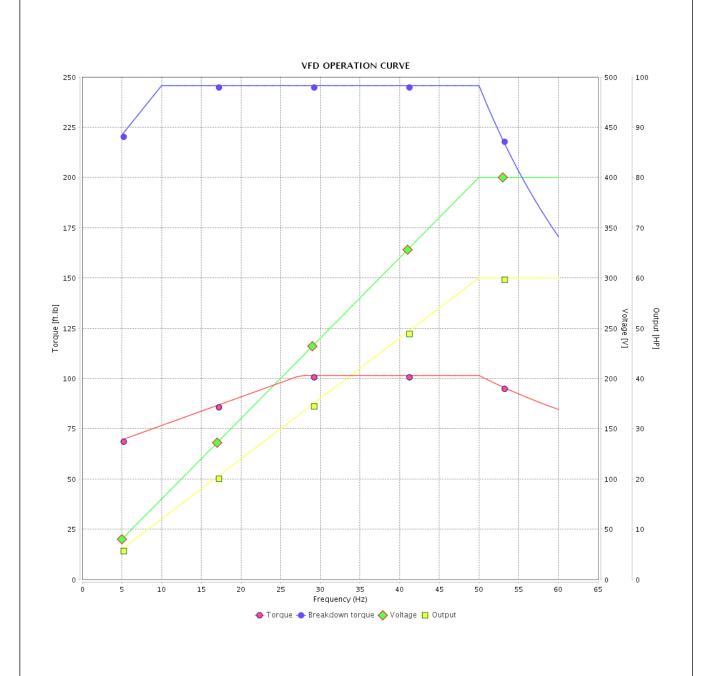
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 06036ET3E364TSC-W22

12275877



Performance	: 4	00 V 50 Hz 2P IE2				
Rated current	: 7	: 77.6 A		Moment of inertia (J)		
LRC	: 5	.8	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	07 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	80 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2:	29 %	Temperature rise		: 105 K	
Rated speed	: 2	950 rpm	Design		: B	
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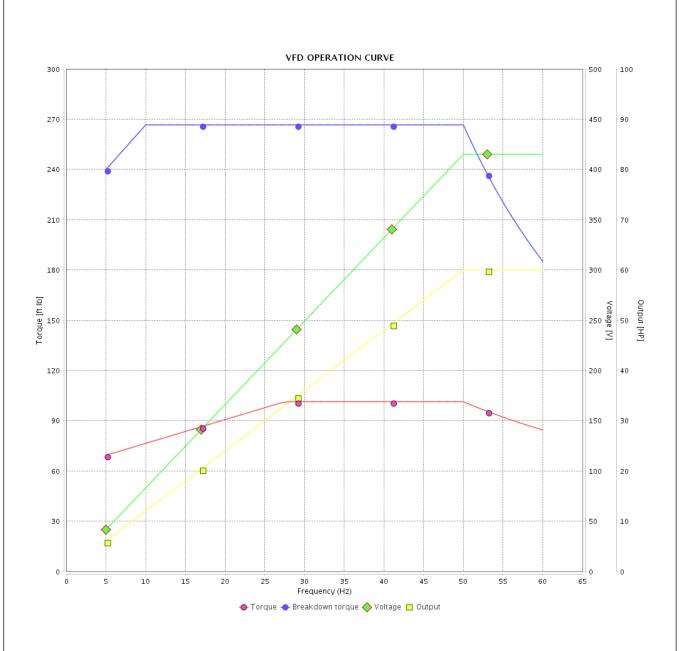
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12275877

Catalog #: 06036ET3E364TSC-W22

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Performance : 415 V 50 Hz 2P IE2 : 74.8 A Rated current Moment of inertia (J) : 10.6 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 107 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 2955 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

