### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11440288

Catalog #: 03036ET3E286TSC-W22

: 284/6TSC Cooling method : IC411 - TEFC Frame

Insulation class Mounting : F-1

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	c. weight³	: 4	·24 lb	
Protection degre	е	: IP55		Momei	nt of inertia (J)	: 3	.37 sq.ft.lb	
Design		: B						
Output [HP]		30	25	25	25	30	30	30
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]		67.6/33.8	34.2	32.5	31.3	42.0	39.6	37.8
L. R. Amperes [A]		426/213	202	218	225	206	218	227
LRC [A]		6.3x(Code	5.9x(Code F)	6.7x(Code	7.2x(Code H)	4.9x(Code E)	5.5x(Code F)	6.0x(Code F)
		G)		G)				
No load current [A	]	16.0/8.00	7.50	8.00	8.50	7.50	8.00	8.50
Rated speed [RPN	<b>/</b> 1]	3535	2930	2940	2950	2895	2910	2925
Slip [%]		1.81	2.33	2.00	1.67	3.50	3.00	2.50
Rated torque [ft.lb]	]	44.6	44.8	44.7	44.5	54.4	54.1	53.9
Locked rotor torqu	e [%]	200	190	220	229	160	180	190
Breakdown torque	[%]	250	229	270	290	190	220	240
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		27s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)
		15s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)
Noise level <sup>2</sup>		72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
	25%							
Efficiency (%)	50%	91.7	91.0	91.1	91.2	91.7	91.7	91.7
Lindicitely (70)	75%	91.7	91.5	91.5	91.8	90.2	91.0	91.7
	100%	91.7	92.4	92.4	92.4	89.5	90.2	91.0
	25%							
Power Factor	50%	0.82	0.80	0.79	0.77	0.85	0.84	0.82
1 OWELL ACIOI	75%	0.87	0.87	0.87	0.86	0.88	0.88	0.87

0.89 0.89 0.89 0.89 Drive end Non drive end Foundation loads

Bearing type 6311 C3 6211 C3 Max. traction : 351 lb V'Ring V'Ring : 775 lb Sealing Max. compression Lubrication interval 14000 h 17000 h

Lubricant amount 18 g 11 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 76.7A SF 1.10 SFA 84.4A

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.

0.89

0.89

0.89

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#### Three Phase Induction Motor - Squirrel Cage



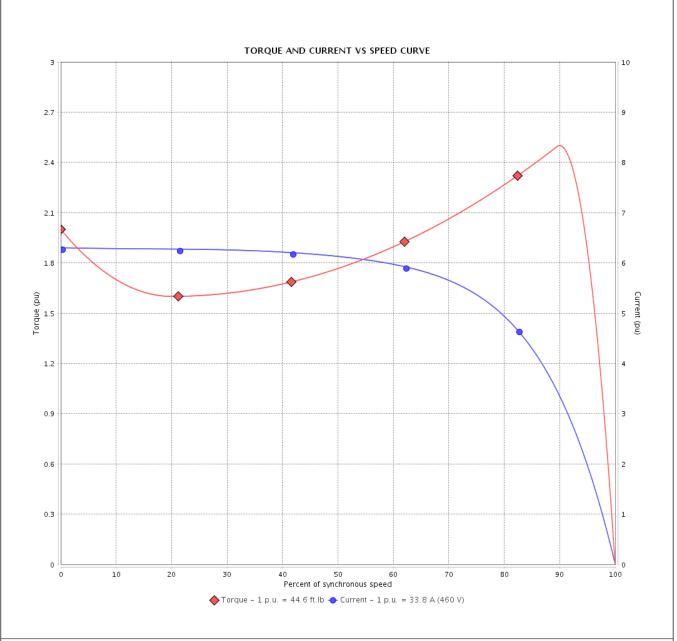
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11440288

Catalog #: 03036ET3E286TSC-W22



Performance : 230/460 V 60 Hz 2P Rated current : 67.6/33.8 A Moment of inertia (J) : 3.37 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 44.6 ft.lb : F : 200 % Locked rotor torque Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11440288 Catalog #: 03036ET3E286TSC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 (pd) 1.25 Current 0.5 0.25

Performance : 380 V 50 Hz 2P IE3 Rated current : 34.2 A Moment of inertia (J) : 3.37 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 44.8 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K : B Rated speed : 2930 rpm Design

Percent of synchronous speed ◆ Torque - 1 p.u. = 44.8 ft.lb ◆ Current - 1 p.u. = 34.2 A (380 V)

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

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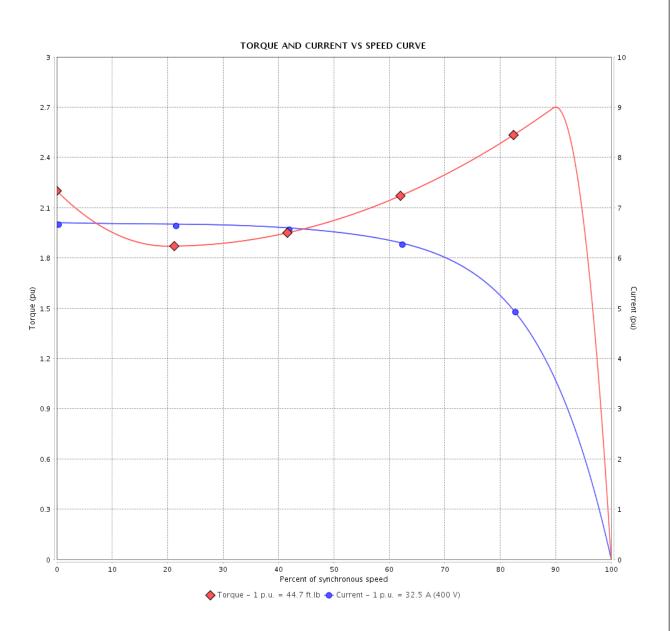
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11440288

Catalog #: 03036ET3E286TSC-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 32.5 A Moment of inertia (J) : 3.37 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 44.7 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2940 rpm Design : B Locked rotor time

: 21s (cold) 12s (hot)

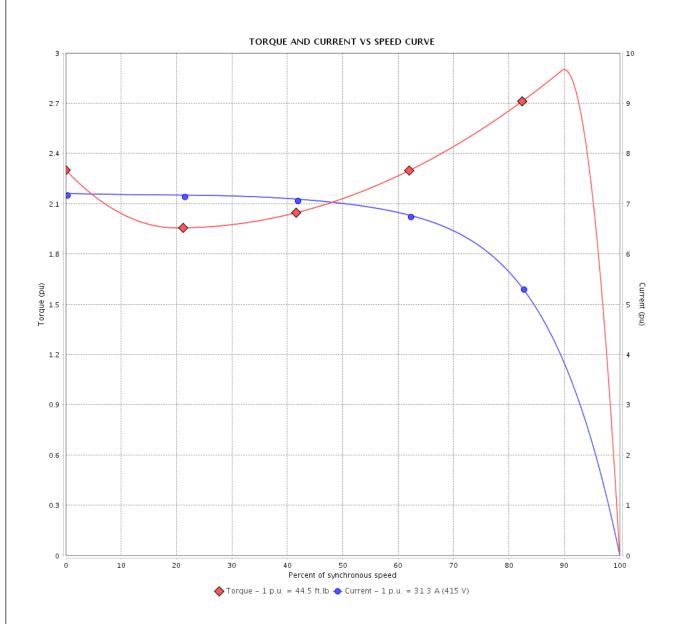
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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11440288

> Catalog #: 03036ET3E286TSC-W22



Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 31.3 A	Moment of inertia (J)	: 3.37 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 44.5 ft.lb	Insulation class	:F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 290 %	Temperature rise	: 80 K	
Rated speed	: 2950 rpm	Design	: B	
Locked rotor time	: 21s (cold) 12s (hot)			

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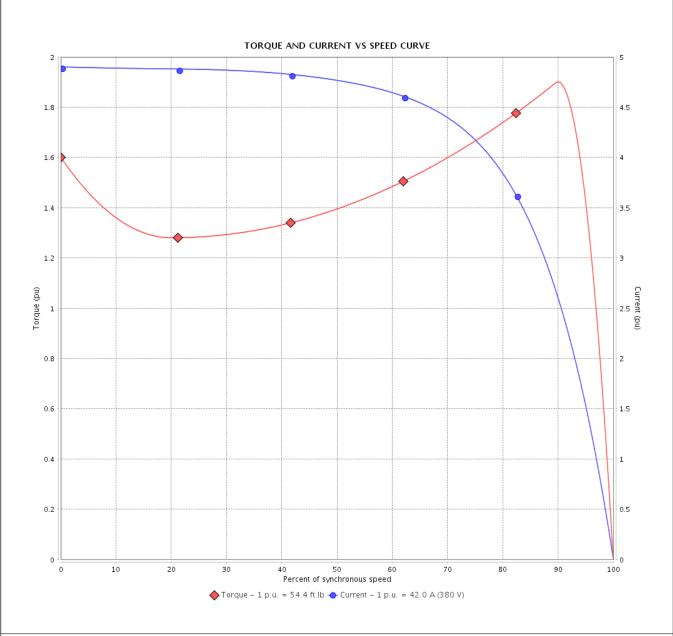


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11440288

Catalog #: 03036ET3E286TSC-W22



Performance : 380 V 50 Hz 2P Rated current : 42.0 A Moment of inertia (J) : 3.37 sq.ft.lb **LRC** : 4.9 Duty cycle : Cont.(S1) : 54.4 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 160 % : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 2895 rpm Design : B Locked rotor time : 21s (cold) 12s (hot)

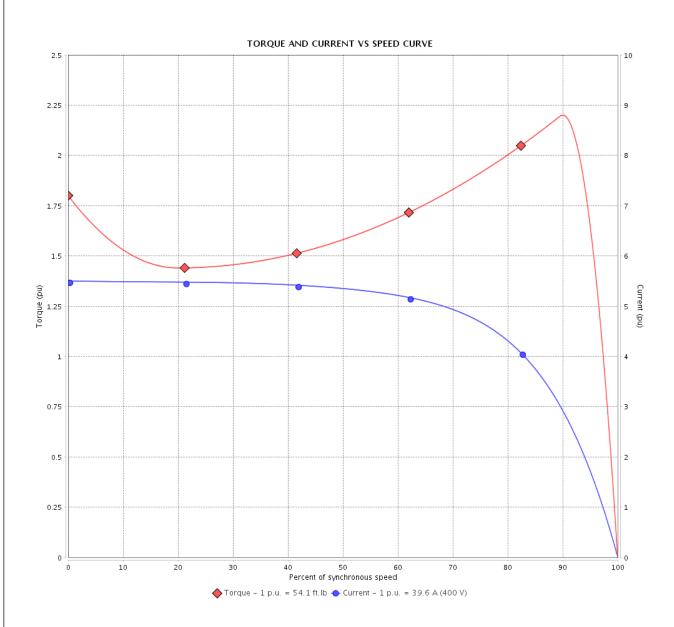
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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11440288

> Catalog #: 03036ET3E286TSC-W22



Performance	: 400 V 50 Hz 2P IE1			
Rated current	: 39.6 A	Moment of inertia (J)	: 3.37 sq.ft.lb	
LRC	: 5.5	Duty cycle	: Cont.(S1)	
Rated torque	: 54.1 ft.lb	Insulation class	:F ` ´	
Locked rotor torque	: 180 %	Service factor	: 1.00	
Breakdown torque	: 220 %	Temperature rise	: 105 K	
Rated speed	: 2910 rpm	Design	: B	
Locked rotor time	: 21s (cold) 12s (hot)			

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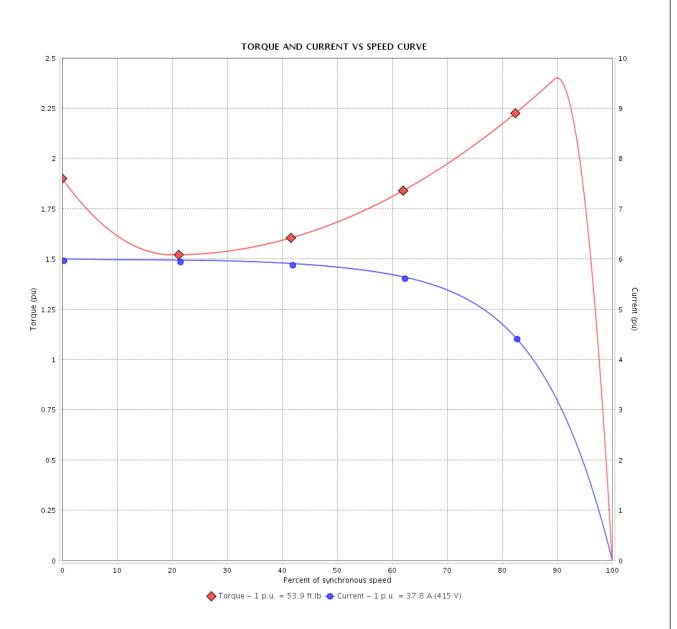
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03036ET3E286TSC-W22

11440288



Performance	: 415 V 50 Hz 2P IE1		
Rated current	: 37.8 A	Moment of inertia (J)	: 3.37 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 53.9 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 2925 rpm	Design	: B
L L L C C	04 - ( - 1 1) 40 - (1 - 1)		

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

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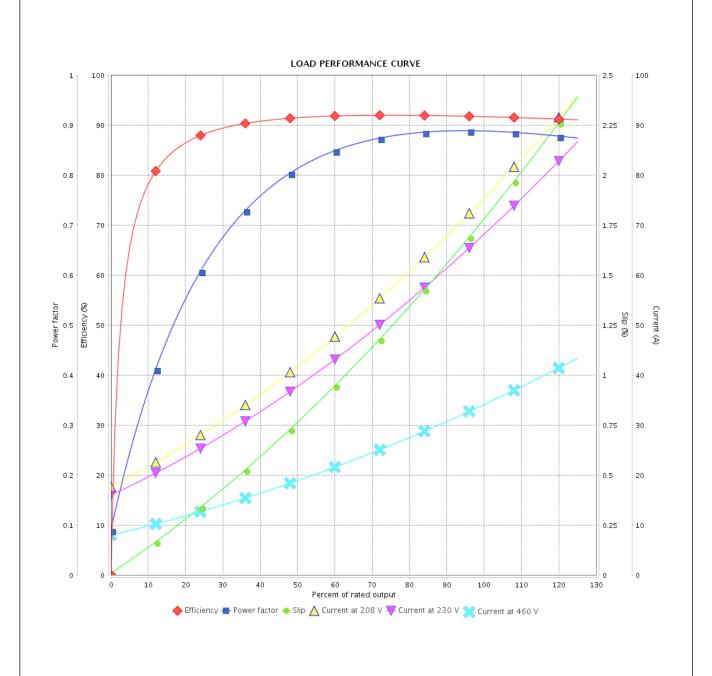


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11440288

Phase

Catalog #: 03036ET3E286TSC-W22



Performance	:	230/460 V 60 Hz 2P				
Rated current	:	67.6/33.8 A	Moment o	f inertia (J)	: 3.37 sq.ft.lb	
LRC	:	6.3	Duty cycle	)	: Cont.(S1)	
Rated torque	:	44.6 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	200 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie :	250 %	Temperati	ıre rise	: 80 K	
Rated speed	:	3535 rpm	Design		: B	
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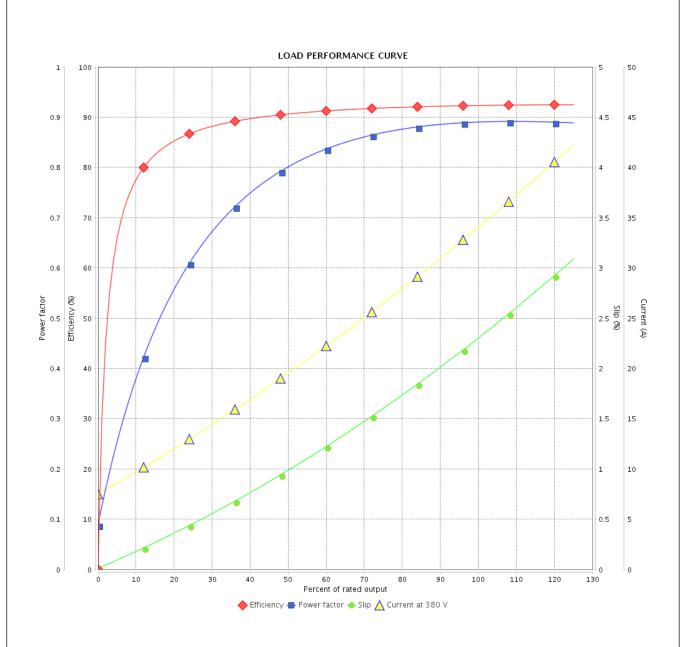
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11440288

Catalog #: 03036ET3E286TSC-W22



Performance : 380 V 50 Hz 2P IE3 : 34.2 A Rated current Moment of inertia (J) : 3.37 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.9 : 44.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 2930 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage

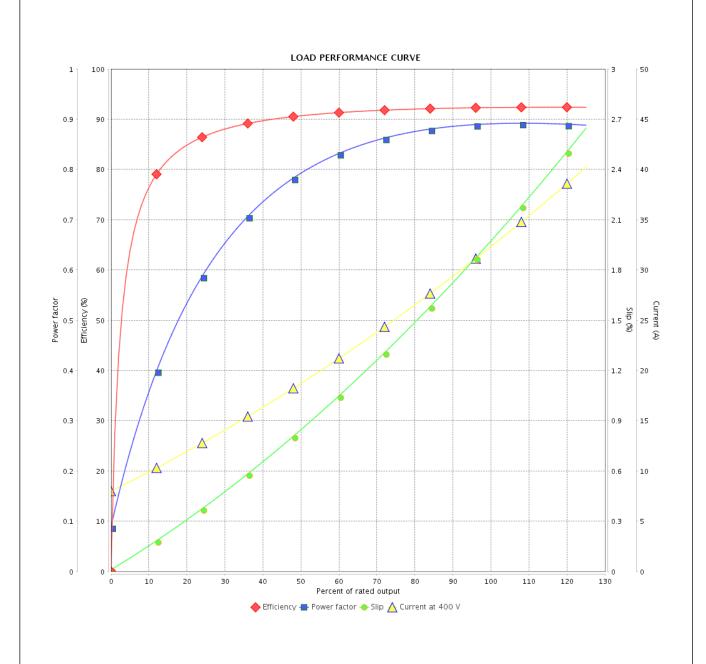


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11440288

Phase

Catalog #: 03036ET3E286TSC-W22



Performance	: 4	100 V 50 Hz 2P IE3				
Rated current	: 3	32.5 A	Moment of inertia (J)		: 3.37 sq.ft.lb	
LRC	: 6	3.7	Duty cycle	)	: Cont.(S1)	
Rated torque	: 4	14.7 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	220 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	270 %	Temperati	ıre rise	: 80 K	
Rated speed	: 2	2940 rpm	Design		: B	
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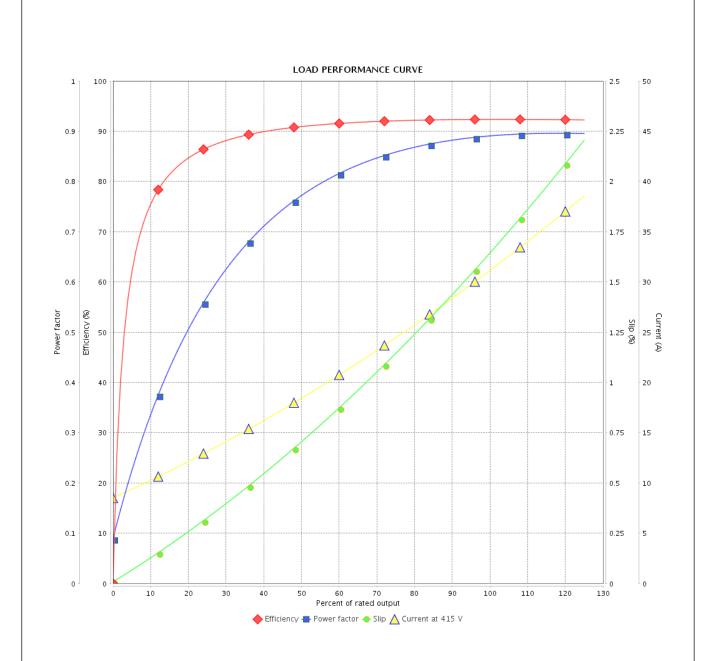
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 31.3 A : 7.2 : 44.5 ft.lb : 229 % : 290 % : 2950 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 3.37 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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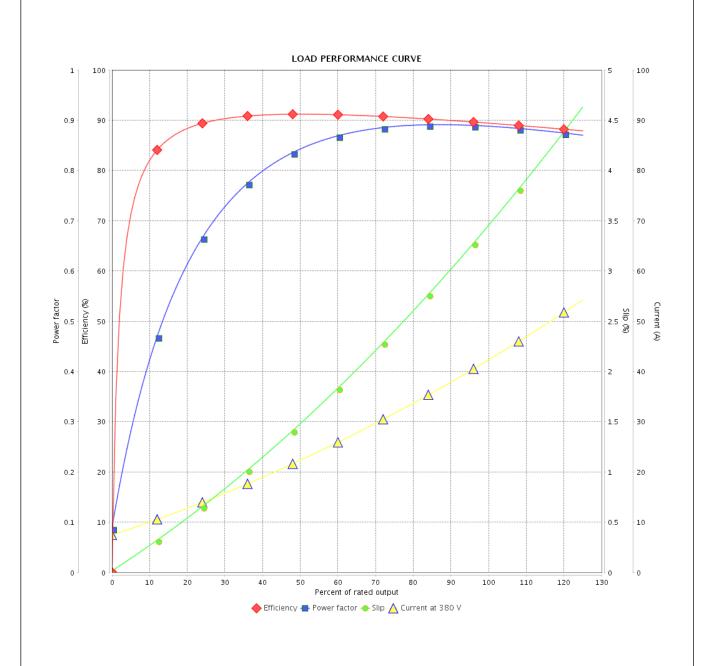
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11440288

Catalog #: 03036ET3E286TSC-W22



Performance	:	380 V 50 Hz 2P				
Rated current : 42.0 A		Moment o	Moment of inertia (J)			
LRC	: 4	4.9	Duty cycle	)	: Cont.(S1)	
Rated torque	: 5	54.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : '	160 %	Service fa	ctor	: 1.00	
Breakdown torque	e : <i>'</i>	190 %	Temperati	ıre rise	: 105 K	
Rated speed	: 2	2895 rpm	Design		: B	
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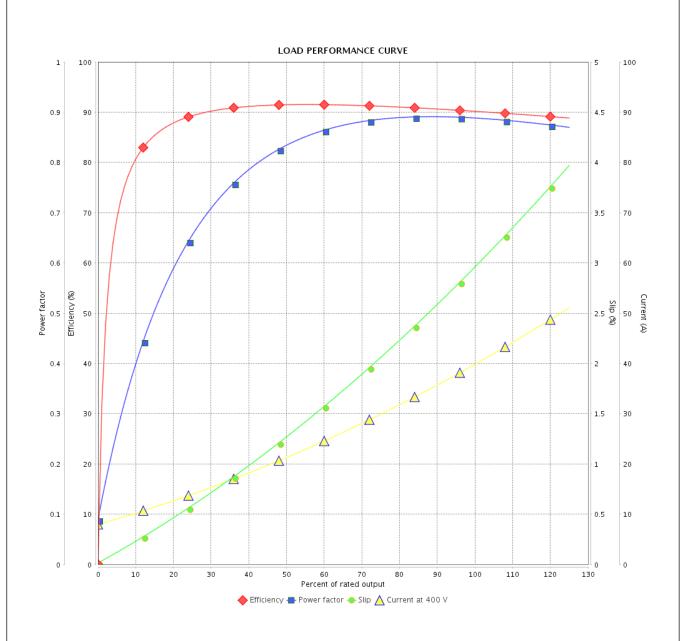
Product line : NEMA Premium Efficiency Three- Product code

Phase

Product code: 11440288

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Performance	: 400 V 50 Hz 2P IE1				
Rated current	: 39.6 A	Moment of	inertia (J)	: 3.37 sq.ft.lb	
LRC	: 5.5	Duty cycle		: Cont.(S1)	
Rated torque	: 54.1 ft.lb	Insulation	class	: F	
Locked rotor torque	: 180 %	Service fac	ctor	: 1.00	
Breakdown torque	: 220 %	Temperatu	re rise	: 105 K	
Rated speed	: 2910 rpm	Design		: B	
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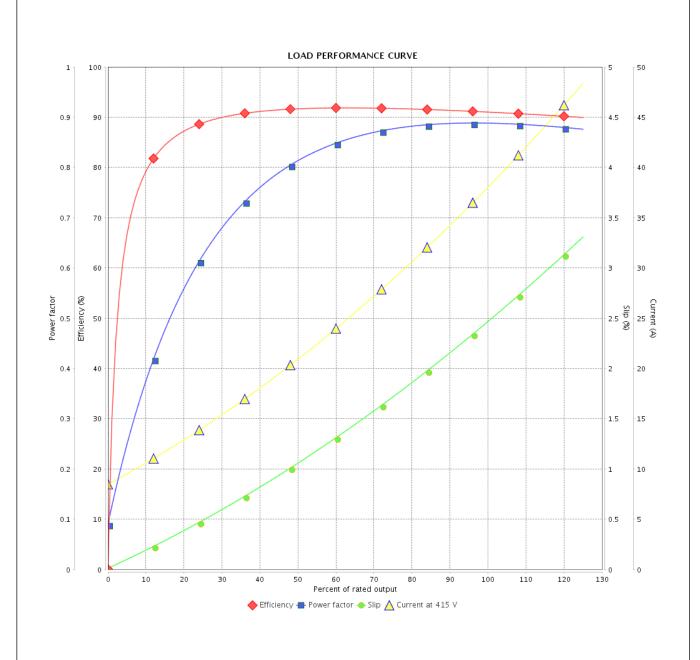
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11440288

Phase

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Performance	: 415 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 37.8 A : 6.0 : 53.9 ft.lb : 190 % : 240 % : 2925 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 3.37 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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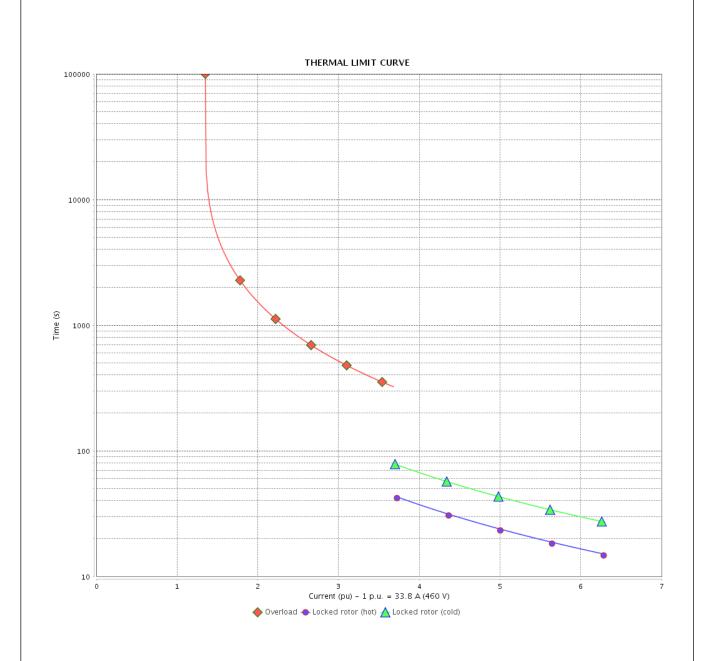


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Product line	: NEMA Premium Efficienc	cy Three-	Product code :	11440288	
	Phase		Catalog # :	03036ET3E2	86TSC-W22
Performance	: 230/460 V 60 Hz 2P				
Rated current	: 67.6/33.8 A	Moment of	of inertia (J)	: 3.37 sq.ft.lb	
LRC Rated torque	: 6.3 : 44.6 ft.lb	Duty cycle Insulation	e Lolass	: Cont.(S1) : F	
Locked rotor torque	: 200 %	Service fa	actor	: 1.25	
Breakdown torque Rated speed	: 250 % : 3535 rpm	Temperat Design	ure rise	: 80 K : B	
	. 0000 ipili	Design			
Heating constant Cooling constant					
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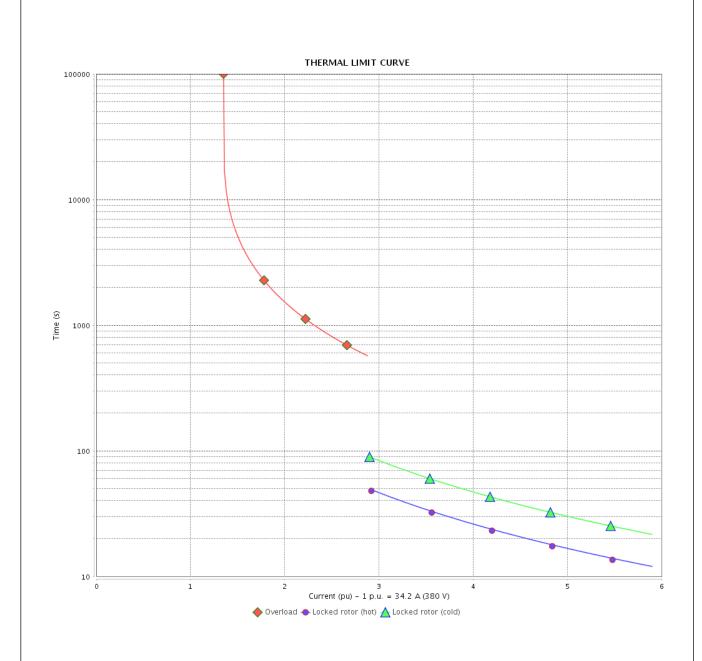


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Droduct line	. 1	NEMA Dramium Efficier	Three	Draduct code :	11440000	
Product line		NEMA Premium Efficiency hase		Product code :	11440288	
			ı	Catalog # :	03036ET3E28	B6TSC-W22
Performance		30 V 50 Hz 2P IE3		<b>6</b> * (* / 1)	0.07 (1.1)	
Rated current LRC	: 5.		Duty cycle	f inertia (J)	: 3.37 sq.ft.lb : Cont.(S1)	
Rated torque		4.8 ft.lb	Insulation	class	: F : 1.00	
Locked rotor torque Breakdown torque		90 % 29 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		930 rpm	Design		: B	
Heating constant						
Cooling constant		01		Dest 1	Ob. 1	
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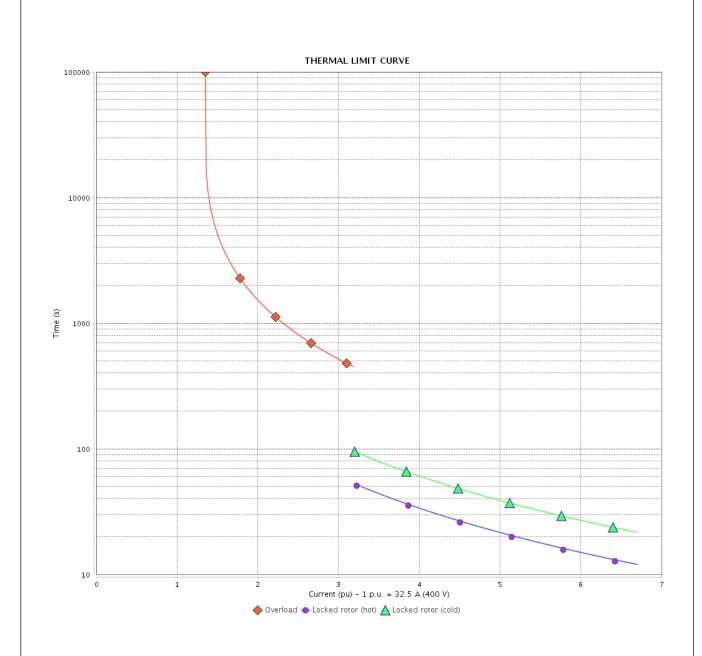


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11440288 03036ET3E28	86TSC-W22
Performance		: 400 V 50 Hz 2P IE3				
Rated current LRC		: 32.5 A : 6.7	Duty cycle		: 3.37 sq.ft.lb : Cont.(S1)	
Rated torque		: 44.7 ft.lb : 220 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		: 270 % : 270 %	Temperat		: 1.00 : 80 K	
Rated speed		: 2940 rpm	Design	· 	: B	
Heating constant						
Cooling constant	l .	Changes Summers		Performed	Checked	Data
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### Three Phase Induction Motor - Squirrel Cage

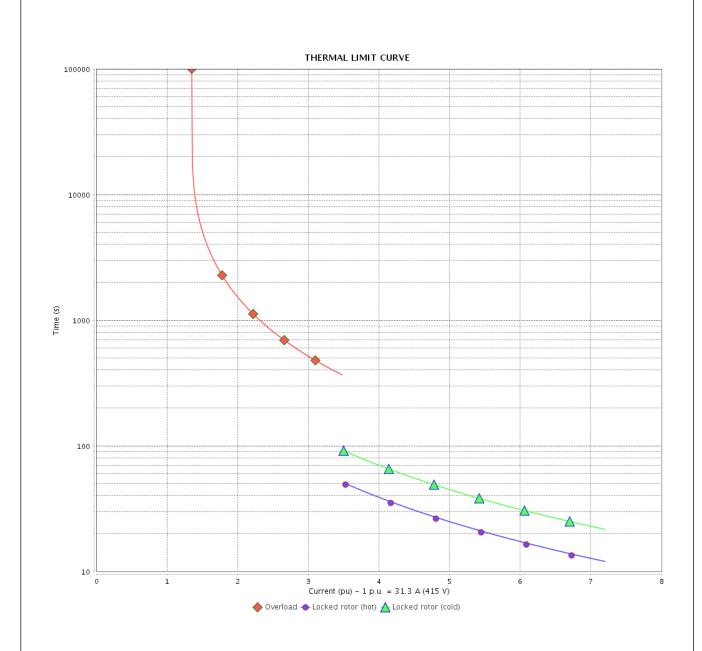


Customer		:				
Product line		: NEMA Premium Efficiency <sup>*</sup> Phase		Product code : Catalog # :	11440288 03036ET3E2	86TSC-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: : : : : : : : :	415 V 50 Hz 2P IE3 31.3 A 7.2 44.5 ft.lb 229 % 290 % 2950 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 3.37 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



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### Three Phase Induction Motor - Squirrel Cage

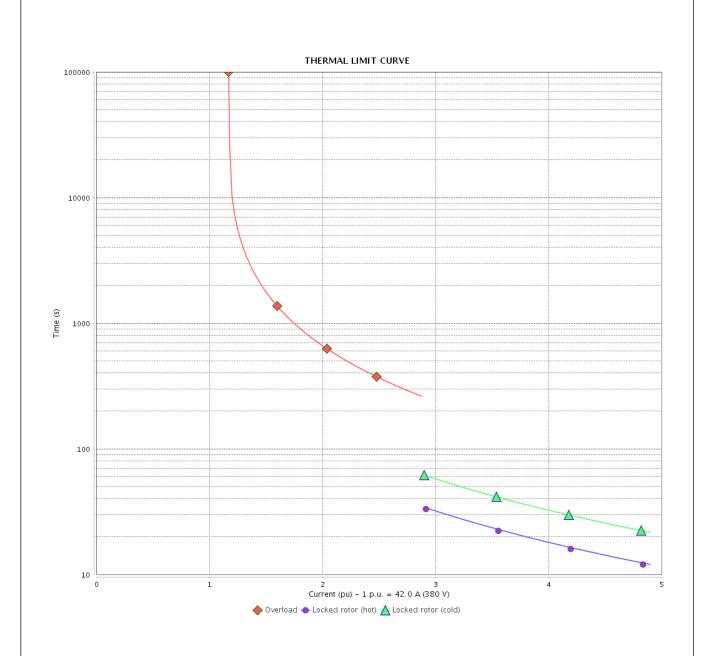


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Product line		NEMA Premium Efficiency	Three-	Product code :	11440288	
	PI	hase		Catalog # :	03036ET3E28	86TSC-W22
Performance		30 V 50 Hz 2P 2.0 A	Moment -	finartia ( I)	. 2 27 00 # 15	
Rated current LRC	: 4.	9	Duty cycle	f inertia (J)	: 3.37 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque		4.4 ft.lb 60 %	Insulation Service fa	class	: F : 1.00	
Breakdown torque	e : 19	90 %	Temperatu		: 105 K	
Rated speed	: 28	395 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summani		Performed	Checked	Date
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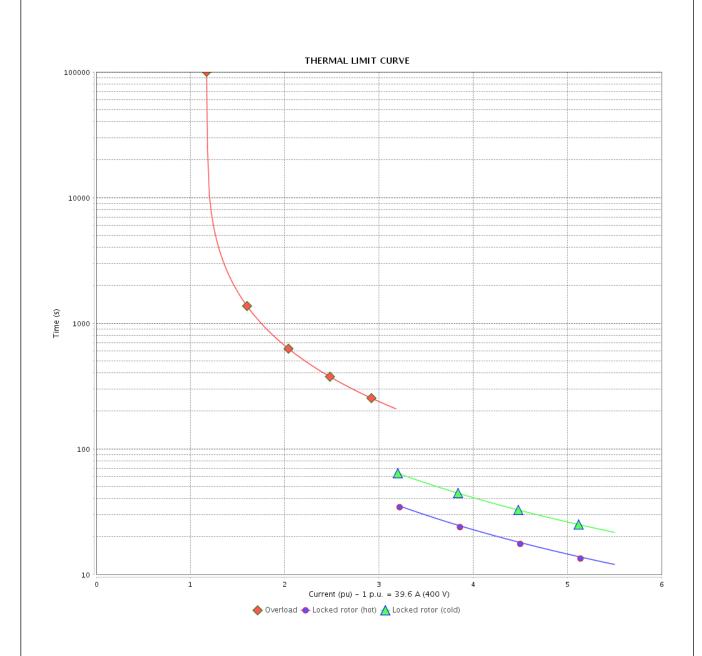


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	11440288	
		Phase		Catalog # :	03036ET3E2	86TSC-W22
					OSOSCITSEZ	
Performance		400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue :e	39.6 A 5.5 54.1 ft.lb 180 % 220 % 2910 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 3.37 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

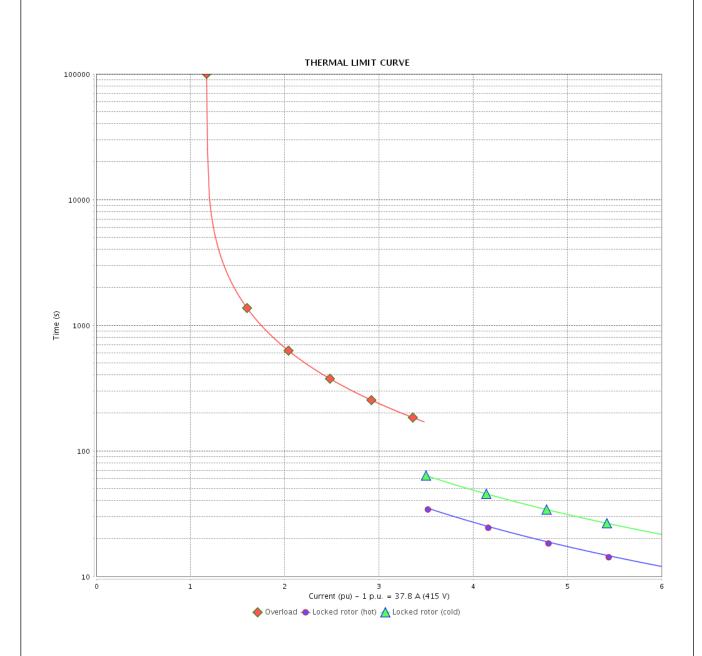


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11440288	
	P	hase		Catalog # :	03036ET3E28	86TSC-W22
Performance		15 V 50 Hz 2P IE1	T			
Rated current LRC	: 37 : 6.	7.8 A 0	Moment of Duty cycle	f inertia (J)	: 3.37 sq.ft.lb : Cont.(S1)	
Rated torque	: 53	3.9 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		90 % 40 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed		925 rpm	Design	J <b></b>	: B	
Heating constant						
Cooling constant		01 0				
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### Three Phase Induction Motor - Squirrel Cage



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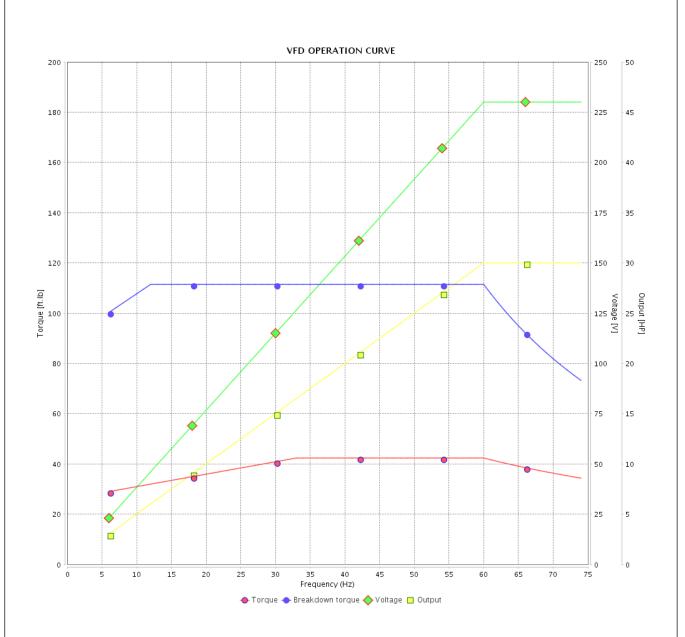
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Performance	: 230/460 V 60 Hz 2P				
Rated current : 67.6/33.8 A LRC : 6.3		Moment of inertia (J) Duty cycle		: 3.37 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 44.6 ft.lb : 200 %	Insulation class Service factor		: F : 1.25	
Breakdown torque Rated speed	: 250 % : 250 % : 3535 rpm	Temperature rise Design		: 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



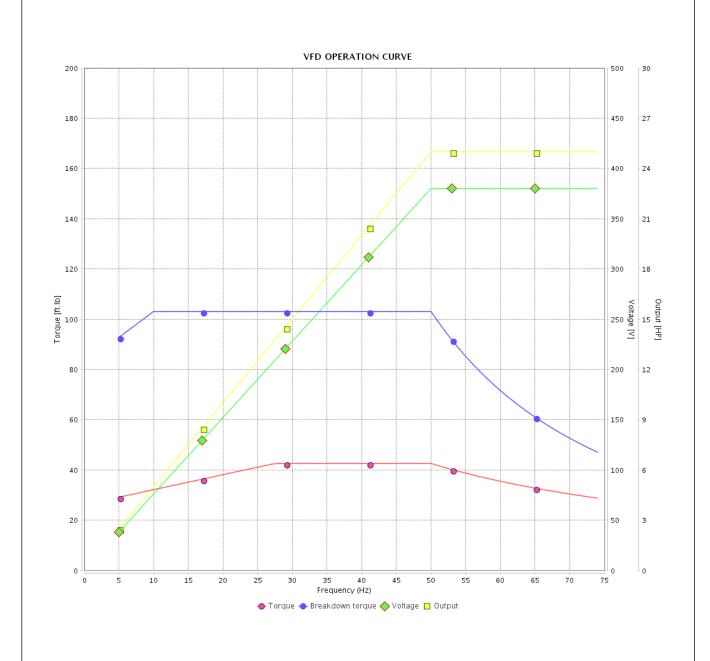
Customer

Product line : NEMA Premium Efficiency Three- P

Phase

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Performance	: 38	: 380 V 50 Hz 2P IE3				
Rated current	Rated current : 34.2 A		Moment o	Moment of inertia (J)		
LRC	: 5.9 Duty cycle		;	: Cont.(S1)		
Rated torque	: 4	4.8 ft.lb	Insulation	class	: F	
Locked rotor torque	cked rotor torque : 190 % Service factor		ctor	: 1.00		
Breakdown torque : 2		29 %	Temperati	Temperature rise		
Rated speed		30 rpm Design		: B		
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Phase

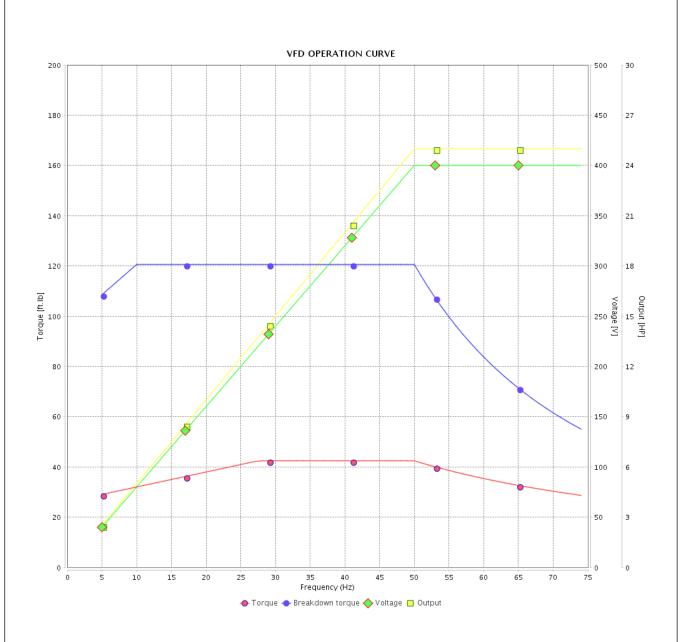
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Performance : 400 V 50 Hz 2P IE3 Rated current : 32.5 A Moment of inertia (J) : 3.37 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.7 : 44.7 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2940 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



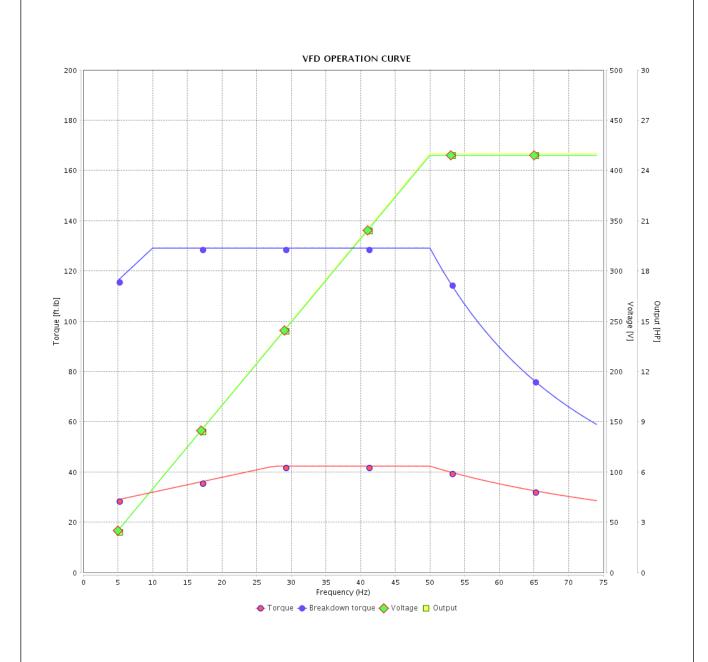
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Product line : NEMA Premium Efficiency Three- Product code : 11440288

Phase

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 31.3 A : 7.2 : 44.5 ft.lb : 229 % : 290 % : 2950 rpm	Moment of inertia (J) : 3.37 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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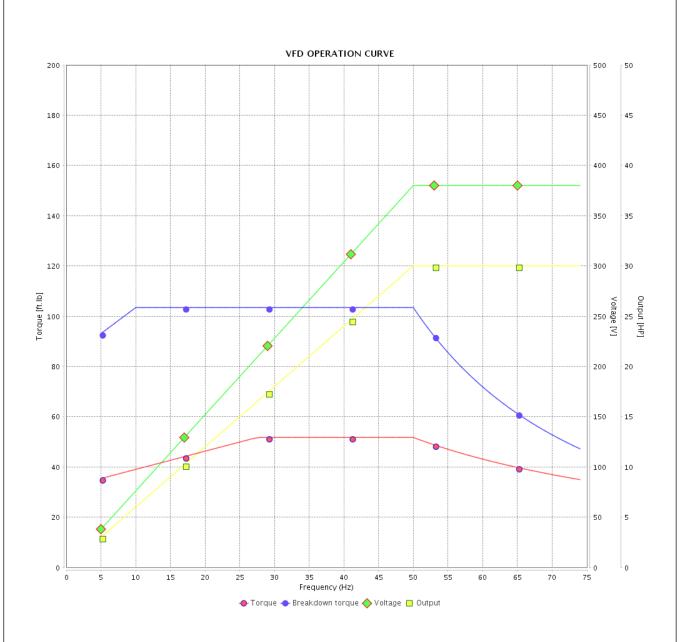
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Performance	:	380 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	42.0 A 4.9 54.4 ft.lb 160 % 190 % 2895 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 3.37 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



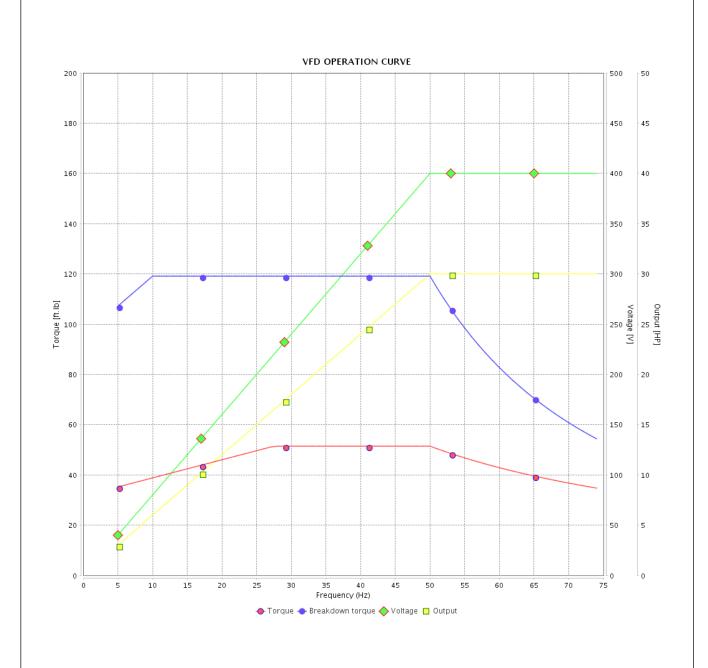
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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D	. 4	00 \ / 50 \ \   00 \   54			·				
Performance		: 400 V 50 Hz 2P IE1							
Rated current	: 3	9.6 A Moment of inertia		f inertia (J)	: 3.37 sq.ft.lb				
LRC	: 5	: 5.5 Duty : 54.1 ft.lb Insul		;	: Cont.(S1) : F				
Rated torque	: 5			class					
Locked rotor torqu	ue : 1	80 %	Service fa	Service factor					
Breakdown torque	: 2	20 %	Temperati	ıre rise	: 105 K				
Rated speed	: 2	: 2910 rpm		Design					
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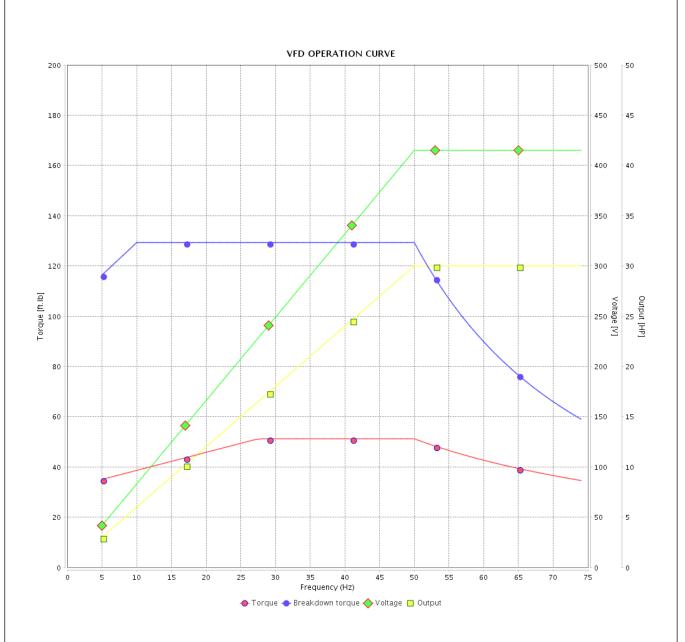
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Performance	: 415 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 37.8 A : 6.0 : 53.9 ft.lb : 190 % : 240 % : 2925 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.37 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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