### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12205951

Phase

Catalog #: 06018ET3E364TC-W22

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

Insulation class : F 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. weight<sup>3</sup> : 908 lb

Protection degree : IP55 Moment of inertia (J) : 22.4 sq.ft lb

Protection degre	е	: IP55		Momer	nt of inertia (J)	: 2	2.4 sq.ft.lb	
Design		: B						
Output [HP]		60	50	50	50	60	60	60
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		143/71.6	71.0	69.1	67.4	86.5	82.6	80.2
L. R. Amperes [A]		888/444	447	477	499	450	479	497
LRC [A]		6.2x(Code	6.3x(Code	6.9x(Code H)	7.4x(Code J)	5.2x(Code E)	5.8x(Code F)	6.2x(Code
		G)	G)					G)
No load current [A	]	56.0/28.0	27.6	29.8	31.6	27.6	29.8	31.6
Rated speed [RPN	<b>/</b> 1]	1780	1480	1482	1484	1470	1475	1477
Slip [%]		1.11	1.33	1.20	1.07	2.00	1.67	1.53
Rated torque [ft.lb]		177	177	177	177	214	214	213
Locked rotor torqu	e [%]	220	200	220	240	160	180	200
Breakdown torque	[%]	240	240	260	280	200	210	229
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)	18s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)
		15s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)
Noise level <sup>2</sup>		67.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
	25%							
Efficiency (%)	50%	94.1	93.7	93.3	93.4	94.1	94.1	94.1
Liliciency (70)	75%	94.5	93.9	93.9	94.2	93.6	93.6	94.1
	100%	95.0	94.2	94.2	94.3	93.0	93.6	94.1
	25%							
Power Factor	50%	0.71	0.71	0.68	0.65	0.76	0.73	0.70
FUWEI FACIOI	75%	0.80	0.80	0.78	0.76	0.82	0.81	0.80
	100%	0.83	0.84	0.82	0.81	0.85	0.84	0.83

Drive end Non drive end Foundation loads

Bearing type : 6314 C3 6314 C3 Max. traction : 1225 lb Sealing : WSeal WSeal Max. compression : 2133 lb

12000 h

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

12000 h

Notes

Lubrication interval

USABLE @208V 151A SF 1.10 SFA 166A

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



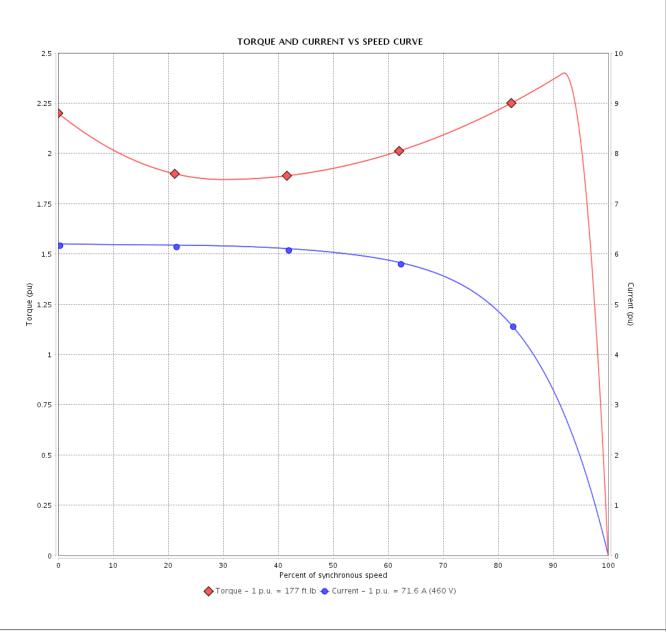
Customer :

Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 12205951

Catalog #: 06018ET3E364TC-W22



Performance : 230/460 V 60 Hz 4P Rated current : 143/71.6 A Moment of inertia (J) : 22.4 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 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: 12205951 Catalog #: 06018ET3E364TC-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. = 177 ft.lb ◆ Current - 1 p.u. = 71.0 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 71.0 A Moment of inertia (J) : 22.4 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 177 ft.lb Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 18s (cold) 10s (hot)

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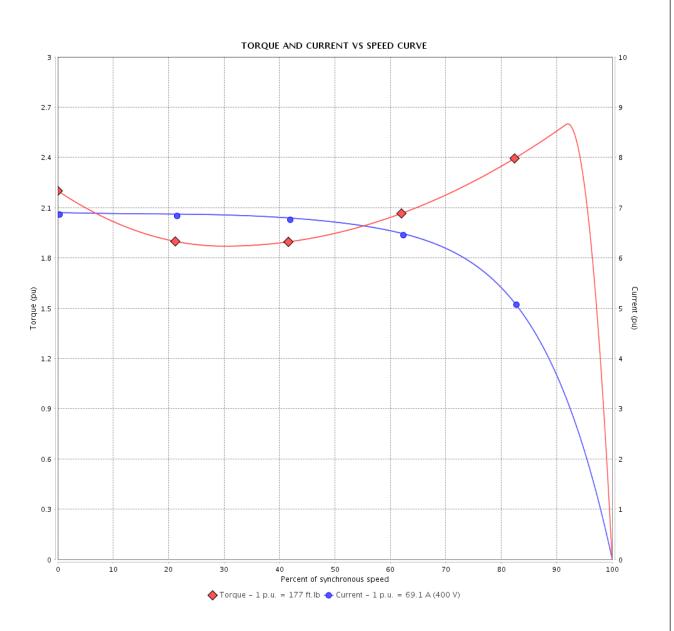
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12205951

Catalog #: 06018ET3E364TC-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 69.1 A Moment of inertia (J) : 22.4 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1482 rpm Design : B Locked rotor time : 18s (cold) 10s (hot)

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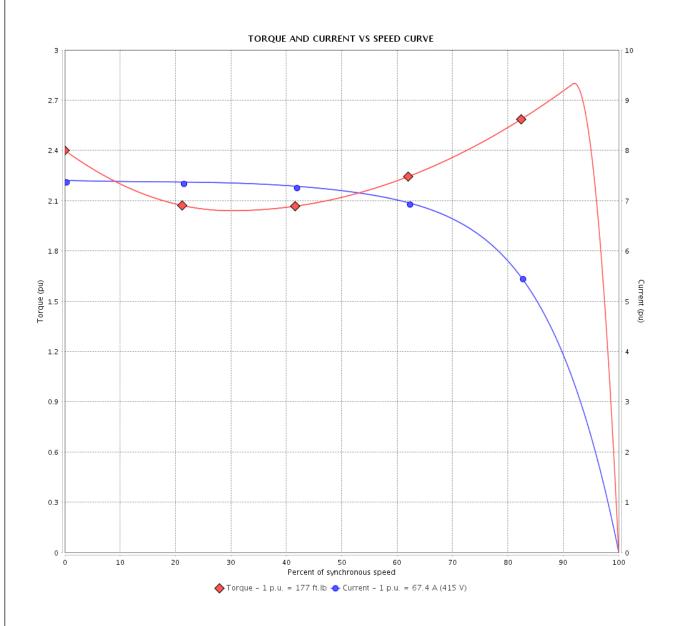
#### Three Phase Induction Motor - Squirrel Cage



Customer Product line

: NEMA Premium Efficiency Three-Product code: 12205951

Catalog #: 06018ET3E364TC-W22



Performance	: 415 V 50 Hz 4P IE3		
Rated current	: 67.4 A	Moment of inertia (J)	: 22.4 sq.ft.lb
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 177 ft.lb	Insulation class	:F ` ´
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1484 rpm	Design	: B
Locked rotor time	: 18s (cold) 10s (hot)		

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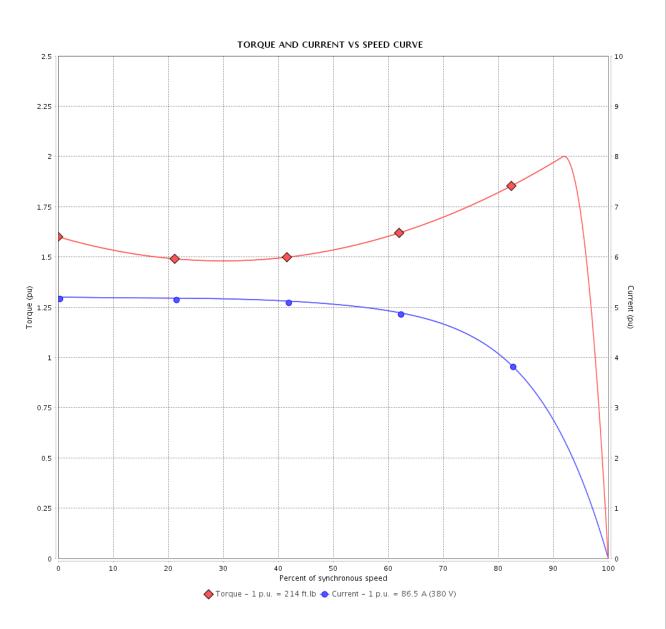


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12205951

Phase

Catalog #: 06018ET3E364TC-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 86.5 A Moment of inertia (J) : 22.4 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 214 ft.lb : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

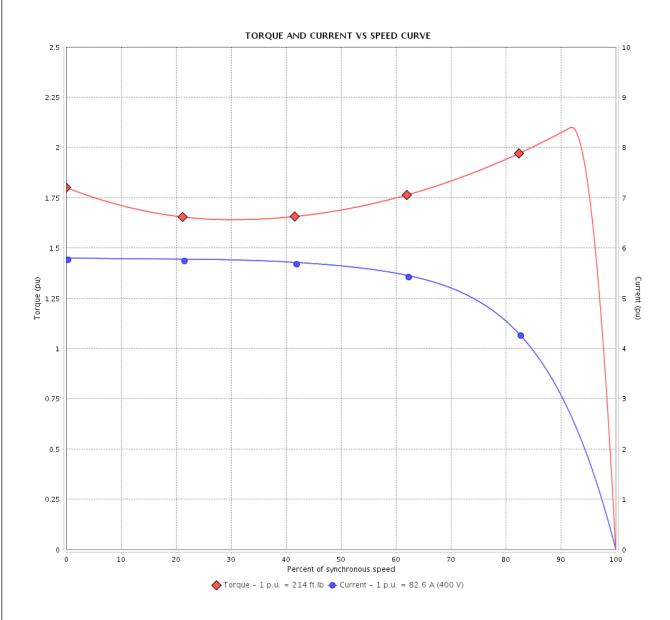
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### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12205951

> Catalog #: 06018ET3E364TC-W22



Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 82.6 A	Moment of inertia (J)	: 22.4 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class	:F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 1475 rpm	Design	: B
Locked rotor time	: 18s (cold) 10s (hot)		

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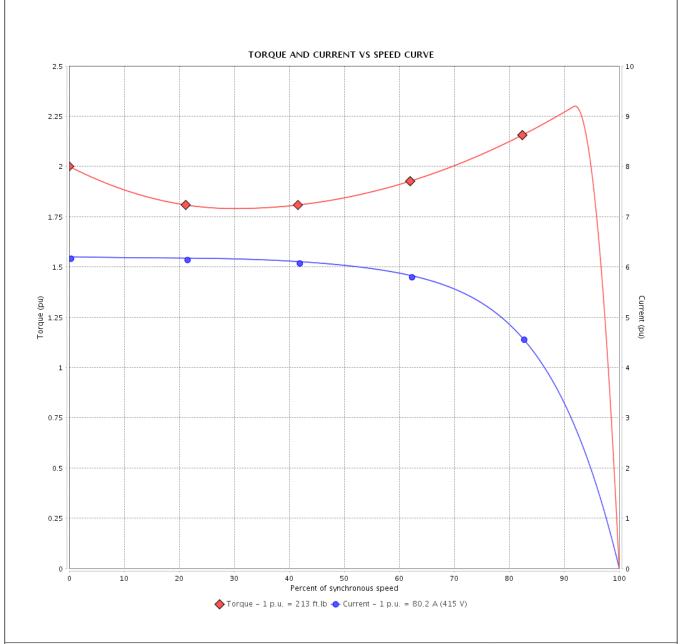


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12205951

Phase

Catalog #: 06018ET3E364TC-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 80.2 A Moment of inertia (J) : 22.4 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 213 ft.lb : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 1477 rpm Design : B

Locked rotor time : 18s (cold) 10s (hot)

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#### Three Phase Induction Motor - Squirrel Cage

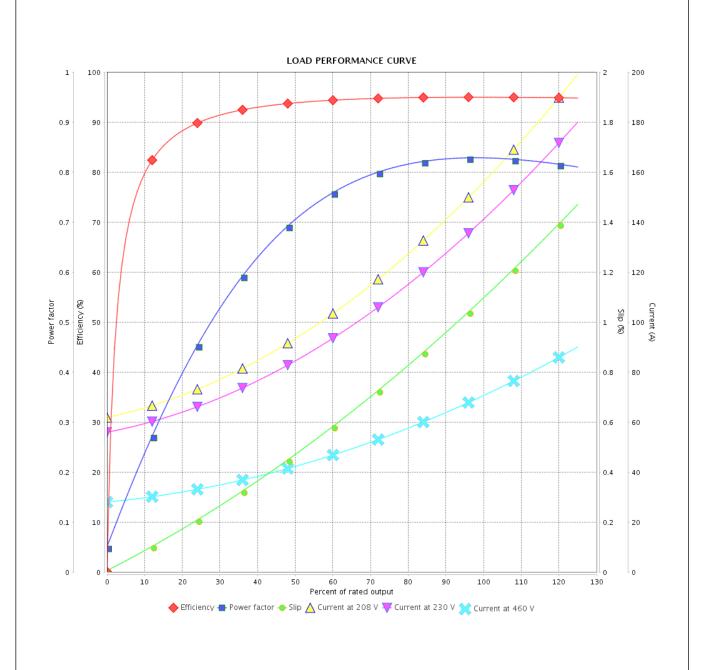


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12205951

Phase

Catalog #: 06018ET3E364TC-W22



Performance	:	230/460 V 60 Hz 4P				
Rated current	:	143/71.6 A	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC	:	6.2	Duty cycle	<b>)</b>	: Cont.(S1)	
Rated torque	:	177 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	220 %	Service fa	ctor	: 1.25	
Breakdown torque	:	240 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1780 rpm	Design		: B	
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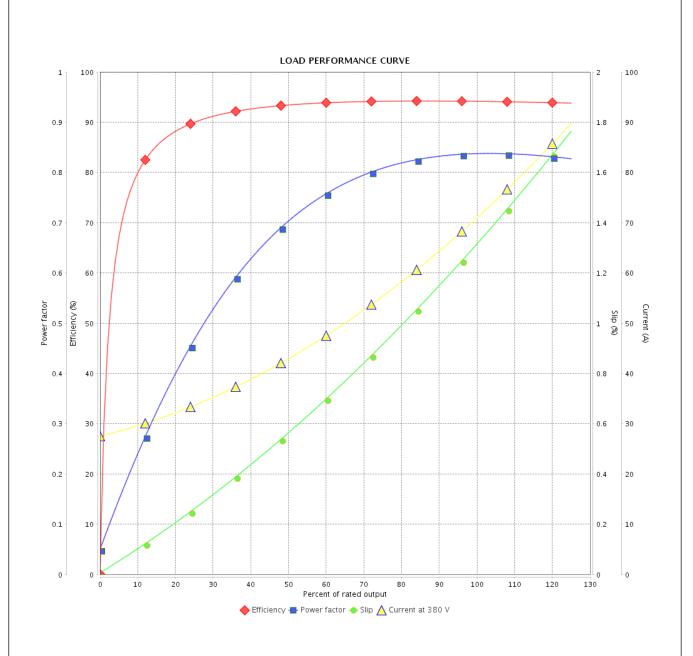
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 06018ET3E364TC-W22

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Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 71.0 A : 6.3 : 177 ft.lb : 200 % : 240 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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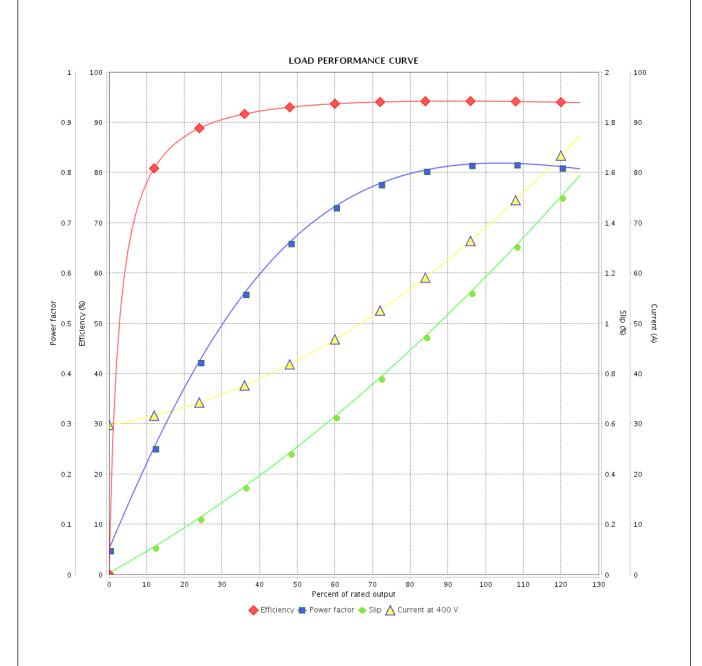


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12205951

Phase

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D (		001/5011 45150	·			
Performance		00 V 50 Hz 4P IE3	1			
Rated current	: 6	9.1 A	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6	.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torque		20 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	60 %	Temperature rise		: 80 K	
Rated speed	: 1	482 rpm	Design		: B	
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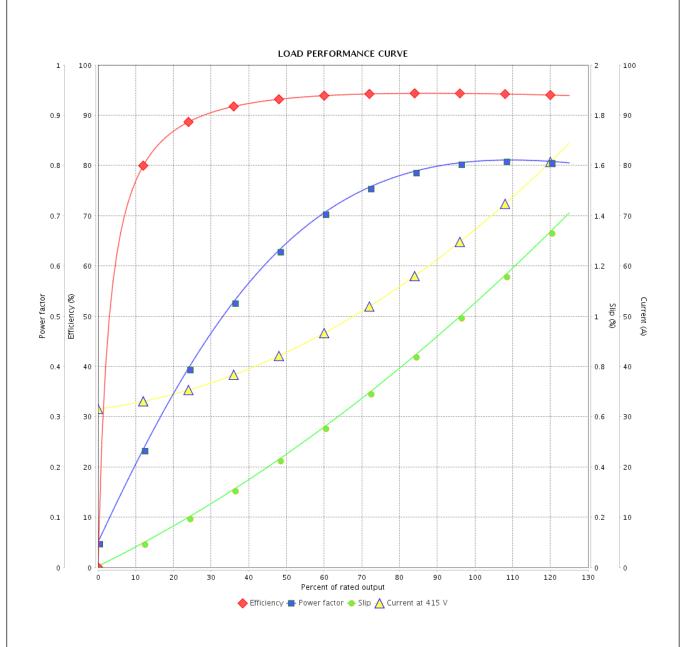
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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 67.4 A : 7.4 : 177 ft.lb : 240 % : 280 %	Moment of Duty cycle Insulation Service fa	class actor	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 1484 rpm	Design		: B	
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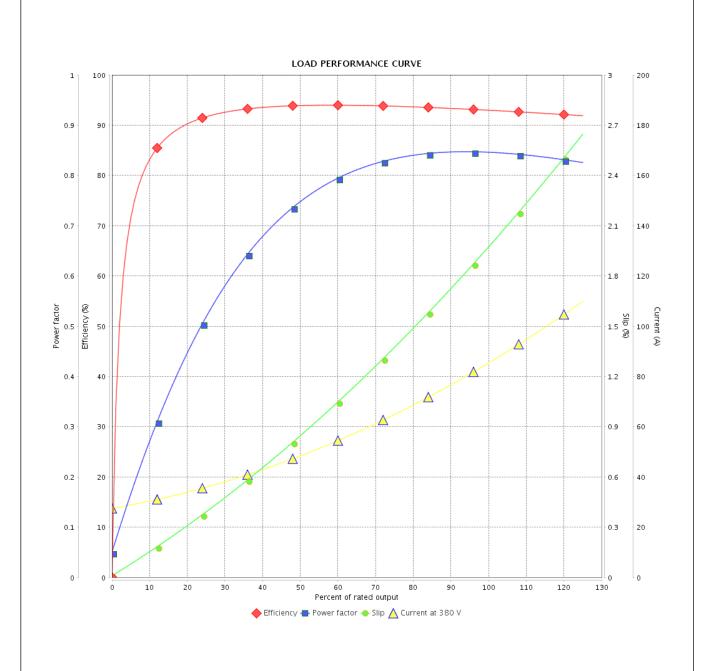


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12205951

Phase

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Performance	: 3	80 V 50 Hz 4P IE1				
Rated current	: 8	6.5 A	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 5	.2	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 2	14 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 1	60 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	00 %	Temperature rise		: 105 K	
Rated speed	: 1	470 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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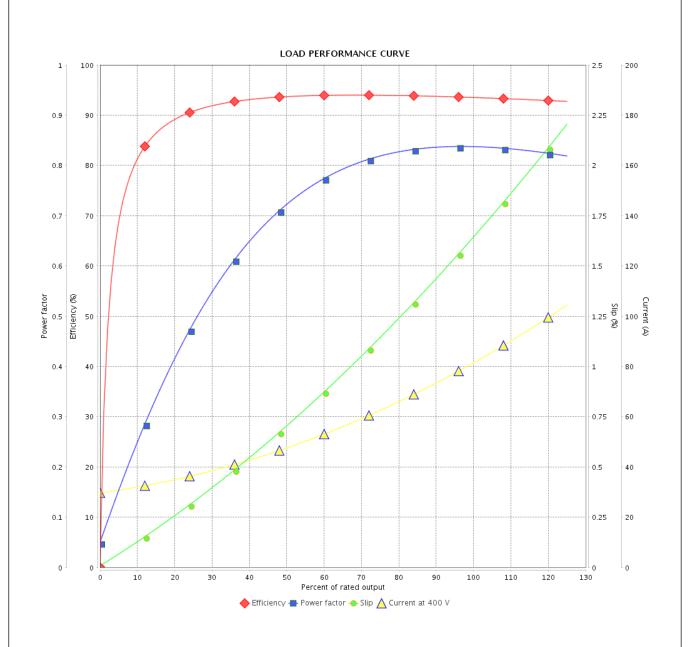
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12205951

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Performance	: 400 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 82.6 A : 5.8 : 214 ft.lb : 180 % : 210 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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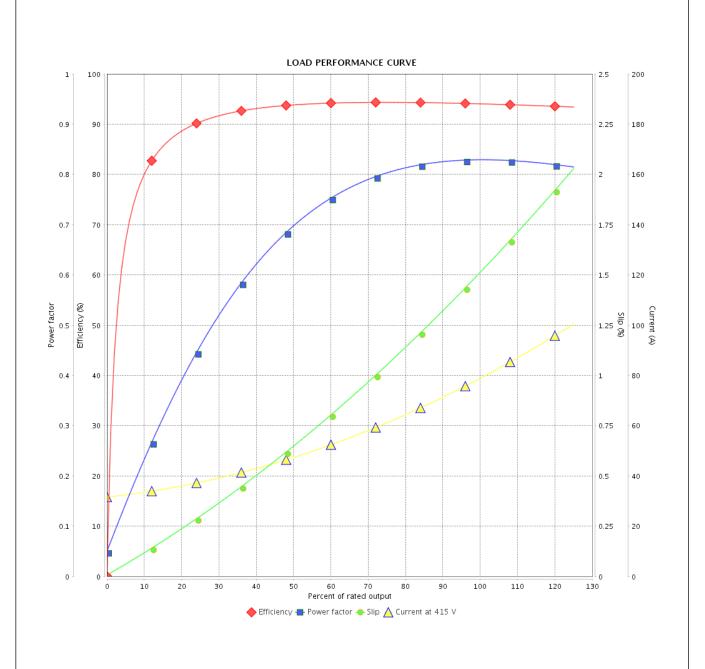
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Phase

Catalog #: 06018ET3E364TC-W22

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Performance	: 4	415 V 50 Hz 4P IE2				
Rated current	: :	80.2 A	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC	: (	6.2	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: :	213 ft.lb	Insulation	class	:F	
Locked rotor torque	Locked rotor torque : 200 %		Service fa	ctor	: 1.00	
Breakdown torque	: :	229 %	Temperature rise		: 105 K	
Rated speed	:	1477 rpm	Design		: B	
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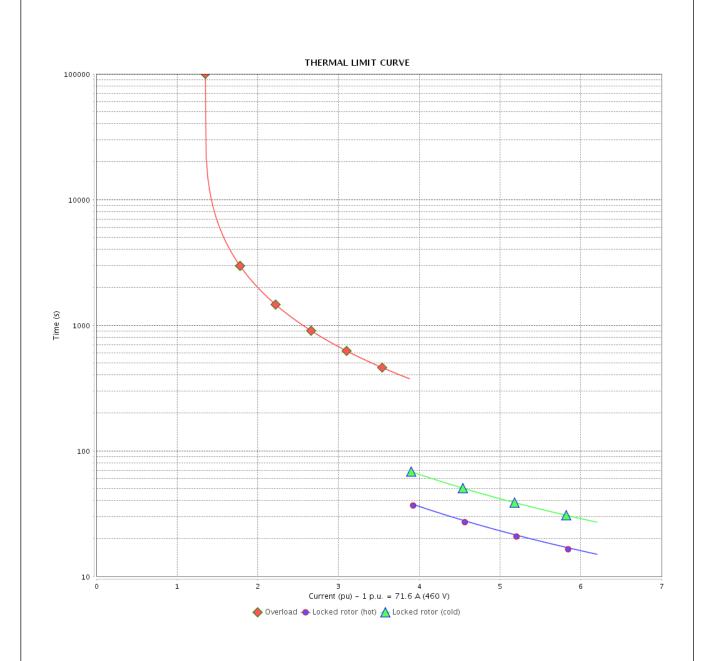


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12205951	
	P	hase		Catalog # :	06018ET3E36	64TC-W22
Performance	: 23	30/460 V 60 Hz 4P				
Rated current	: 14	43/71.6 A	Moment of	f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6.	2	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torqu		77 ft.lb 20 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 24	40 %	Temperatu		: 80 K	
Rated speed	: 17	780 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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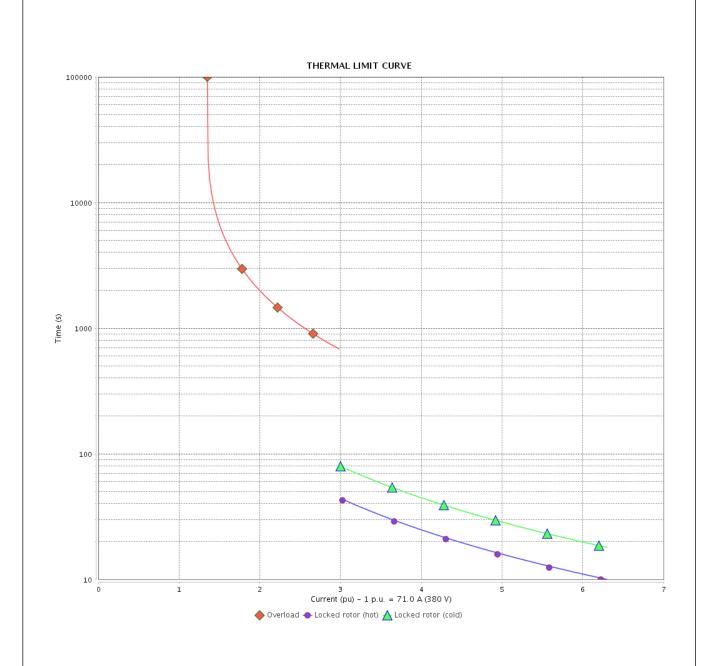


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12205951 06018ET3E36	64TC-W22
					00010210200	7110 1122
Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC		: 71.0 A : 6.3	Moment of Duty cycle	of inertia (J)	: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque		: 177 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 240 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 1480 rpm	Design	ui 0 1100	: B	
Heating constan						
Cooling constant	t					
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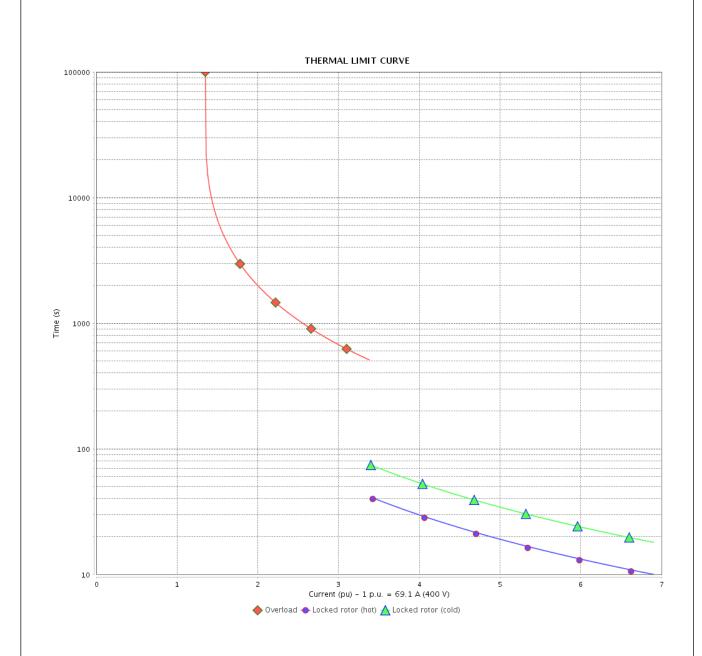


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12205951 06018ET3E36	64TC-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC		: 69.1 A : 6.9	Moment of Duty cycle	of inertia (J) e	: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque		: 177 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 220 % : 260 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 1482 rpm	Design		: B	
Heating constant						
Cooling constant	l .	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

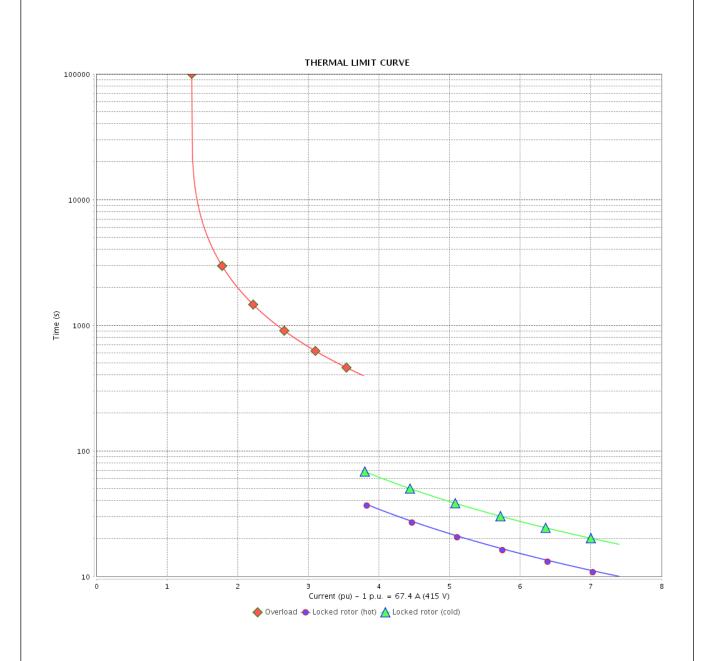


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12205951	04TO W00
				Catalog # :	06018ET3E36	04 I C-VVZZ
Performance		: 415 V 50 Hz 4P IE3				
Rated current		: 67.4 A	Moment o	of inertia (J)	: 22.4 sq.ft.lb	
LRC Rated torque		: 7.4 : 177 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq	que	: 240 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 280 % : 1484 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant		- r	33.3.			
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



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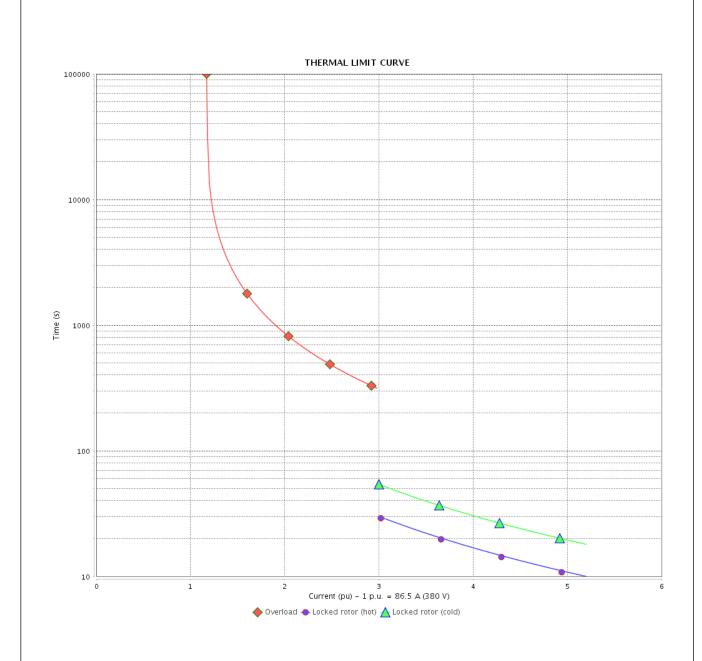


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12205951 06018ET3E36	64TC-W22
Performance Rated current	: 380 V 50 Hz 4P IE1 : 86.5 A	Momonto	f inortia ( I)	: 22.4 sq.ft lb	
LRC	: 5.2	Duty cycle	f inertia (J)	: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque	: 214 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 160 % : 200 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed	: 1470 rpm	Design		: B	
Heating constant					
Cooling constant					
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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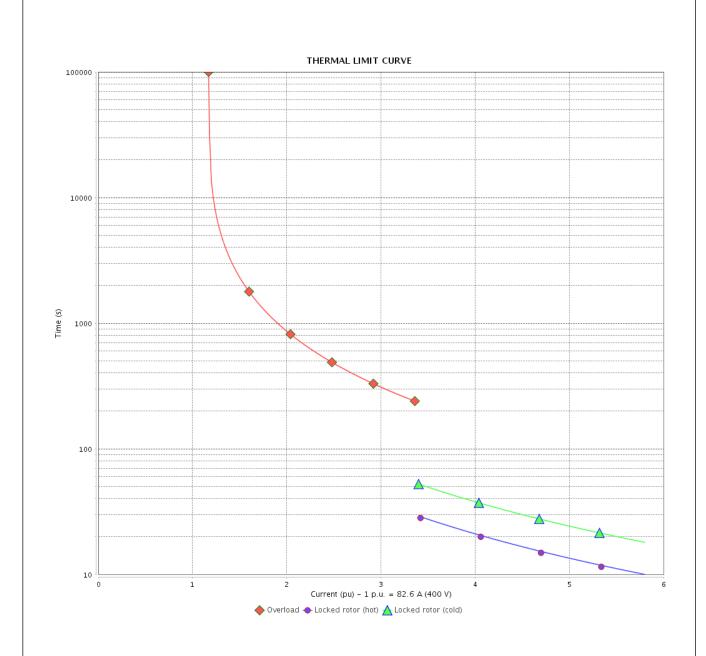


Customer	:			
Product line	: NEMA Premium Efficiency <sup>1</sup> Phase	Γhree- Product co Catalog # :		364TC-W22
Performance	: 400 V 50 Hz 4P IE2			
Rated current	: 400 V 50 HZ 4P IE2 : 82.6 A	Moment of inertia (J)	: 22.4 sq.ft.lb	
LRC	: 5.8	Duty cycle	: Cont.(S1)	
Rated torque	: 214 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 180 % : 210 %	Service factor Temperature rise	: 1.00 : 105 K	
Rated speed	: 1475 rpm	Design	: B	
Heating constant				
Cooling constant				
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### Three Phase Induction Motor - Squirrel Cage

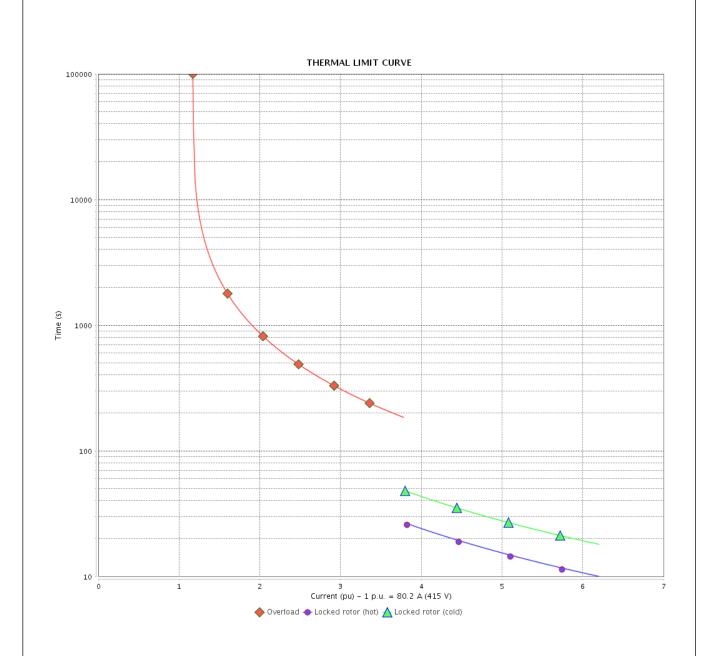


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code :  Catalog # :	12205951 06018ET3E3	.64TC-W22
Performance Rated current	: 415 V 50 Hz 4P IE2 : 80.2 A	Moment of inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 213 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 200 % : 229 %	Service factor Temperature rise	: 1.00 : 105 K	
Rated speed	: 1477 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



Customer :

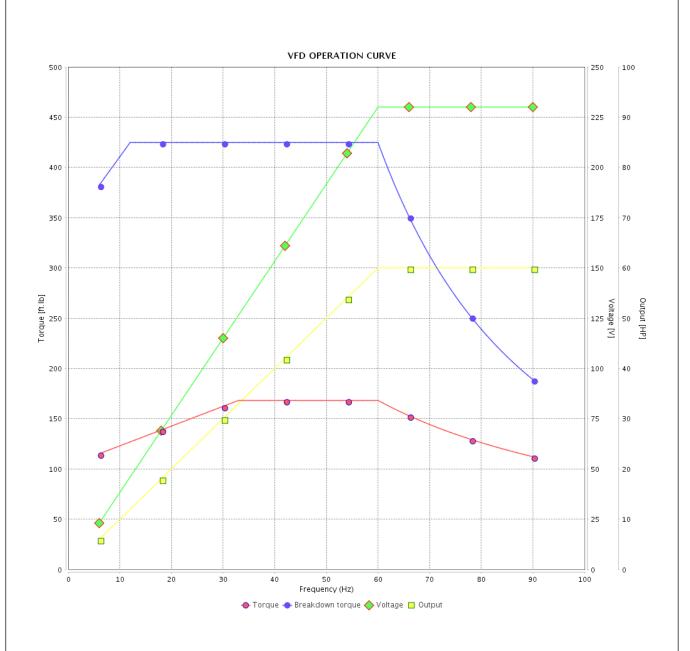
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12205951

Catalog #: 06018ET3E364TC-W22

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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 143/71.6 A : 6.2 : 177 ft.lb : 220 % : 240 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 22.4 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



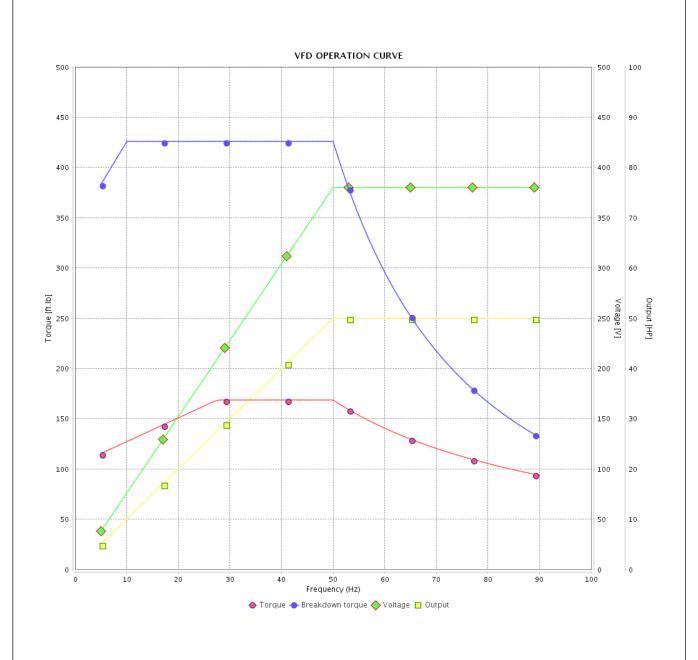
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12205951

Phase

Catalog #: 06018ET3E364TC-W22

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Performance	: 380 V 50 Hz 4P IE3			
Rated current : 71.0 A Moment of inertia (J) LRC : 6.3 Duty cycle Rated torque : 177 ft.lb Insulation class Locked rotor torque : 200 % Service factor Breakdown torque : 240 % Temperature rise Rated speed : 1480 rpm Design		: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

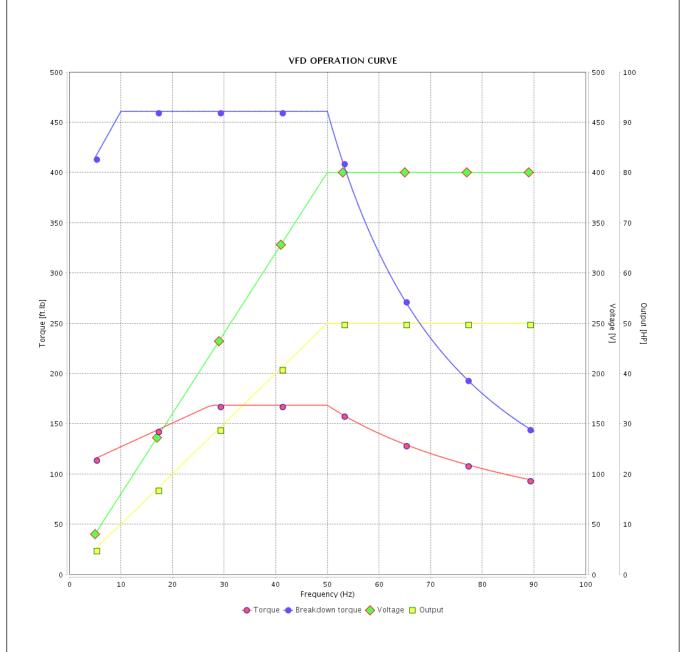
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 06018ET3E364TC-W22

12205951

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Performance	: 400 V 50 Hz 4P IE3				
renormance	. 400 V 50 HZ 4F IE3				
Rated current	: 69.1 A	Moment of	inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6.9	Duty cycle		: Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation of	class	: F	
Locked rotor torque	: 220 %	Service fac	tor	: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 1482 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage

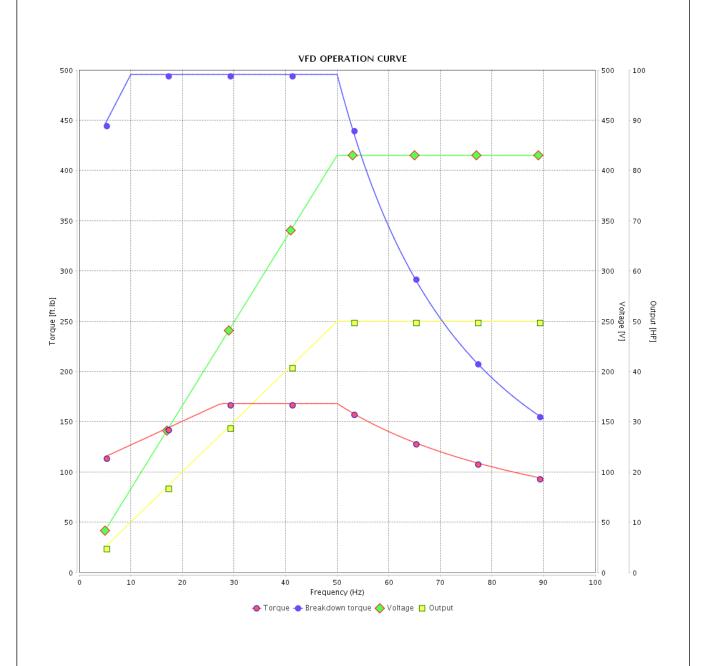


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12205951

Phase

Catalog #: 06018ET3E364TC-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 6	7.4 A	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 7.	4	Duty cycle	)	: Cont.(S1)	
Rated torque	: 17	77 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : 24	40 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 28	30 %	Temperature rise		: 80 K	
Rated speed	: 14	184 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

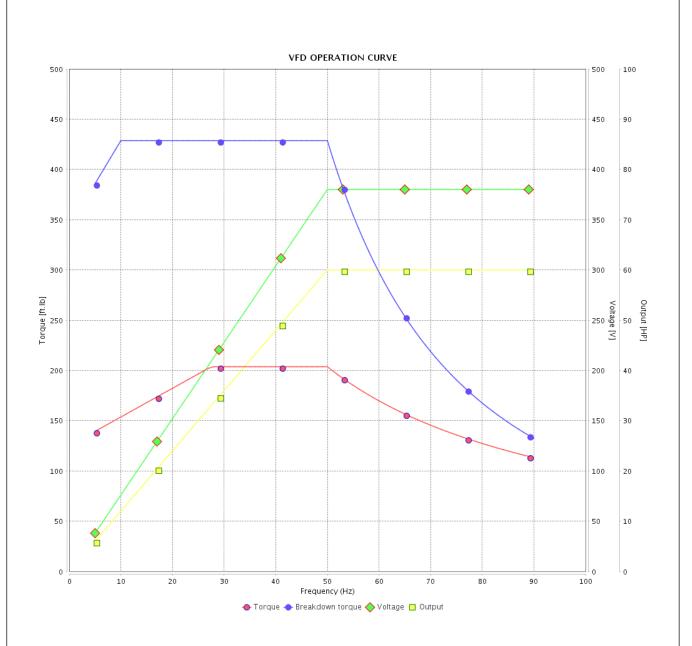
13/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 06018ET3E364TC-W22

12205951



Performance : 380 V 50 Hz 4P IE1 Rated current : 86.5 A Moment of inertia (J) : 22.4 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.2 : 214 ft.lb Insulation class : F Rated torque Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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#### Three Phase Induction Motor - Squirrel Cage

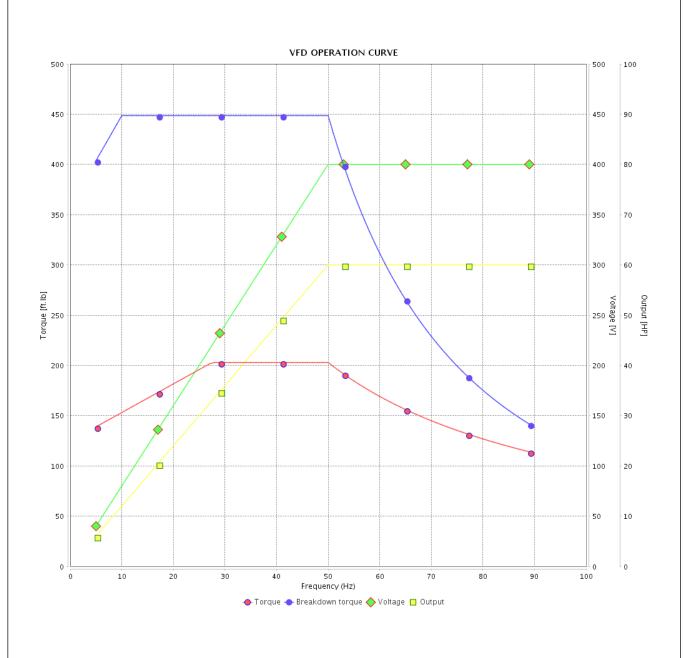


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12205951

Phase

Catalog #: 06018ET3E364TC-W22



Performance	: 40	00 V 50 Hz 4P IE2				
Rated current	: 82	2.6 A	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 5.	.8	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 2	14 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 18	80 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	10 %	Temperature rise		: 105 K	
Rated speed	: 14	475 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

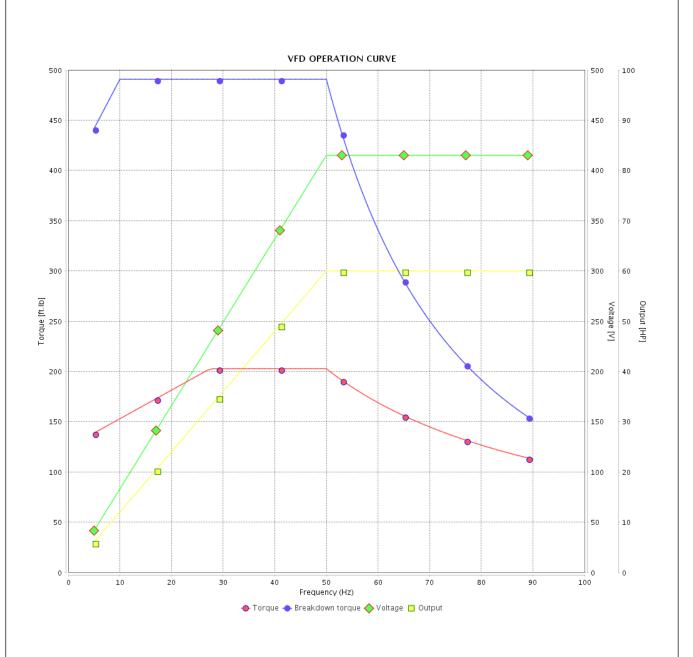
Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 12205951

Catalog #: 06018ET3E364TC-W22

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Performance	: 415 V 50 Hz 4P IE2				
Rated current	: 80.2 A	Moment of inertia (J)		: 22.4 sq.ft.lb	
LRC	: 6.2	: 6.2 Duty cycle		: Cont.(S1)	
Rated torque	: 213 ft.lb	Insulation	class	: F	
Locked rotor torque	: 200 % : 229 %	Service factor Temperature rise		: 1.00 : 105 K	
Breakdown torque					
Rated speed	: 1477 rpm Design			: B	
Rev.	Changes Summary		Performed	Checked	Date
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