### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14335223

Phase

Catalog #: 06018ET3ER364TC-W22

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

Insulation class : F Mounting : W-6

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> : 897 lb
Protection degree : IP55 Moment of inertia (J) : 22.4 sq.ft.lb

Protection degree	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]	]	52.0/26.0	25.0	27.5	30.0	23.8	25.3	30.0
Rated speed [RPM	1]	1780	1480	1480	1485	1470	1475	1480
Slip [%]		1.11	1.33	1.33	1.00	2.00	1.67	1.33
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%	93.5	93.3	92.9	93.2	94.5	94.0	94.0
Efficiency (%)	50%	94.1	93.7	93.3	93.4	94.1	94.1	94.1
Linciency (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%	0.46	0.47	0.43	0.40	0.53	0.49	0.45
Power Factor	50%	0.71	0.71	0.68	0.65	0.76	0.73	0.70
Fower Factor	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

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6314 C3 6314 C3 | Max. traction : 1227 lb Sealing : WSeal WSeal Max. compression : 2124 lb

Lubrication interval : 6000 h 6000 h Lubricant amount : 27 g 27 g Lubricant type : Mobil Polyrex EM

Notes

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

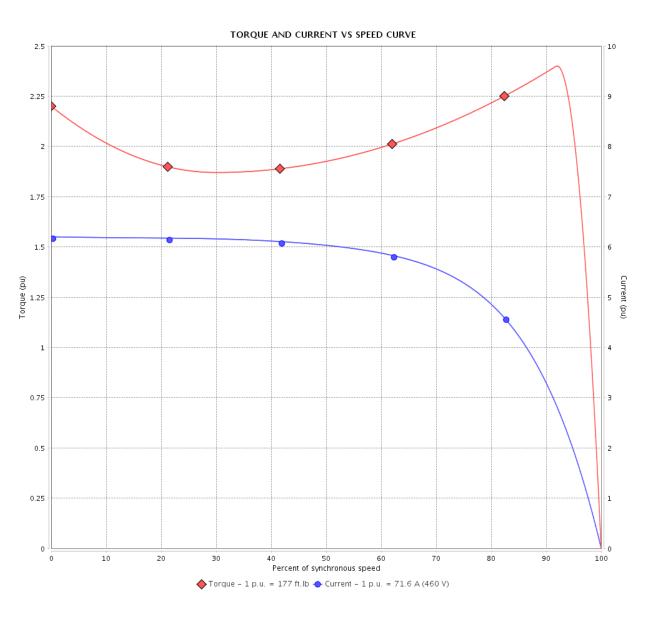


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14335223

Phase

Catalog #: 06018ET3ER364TC-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 Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

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

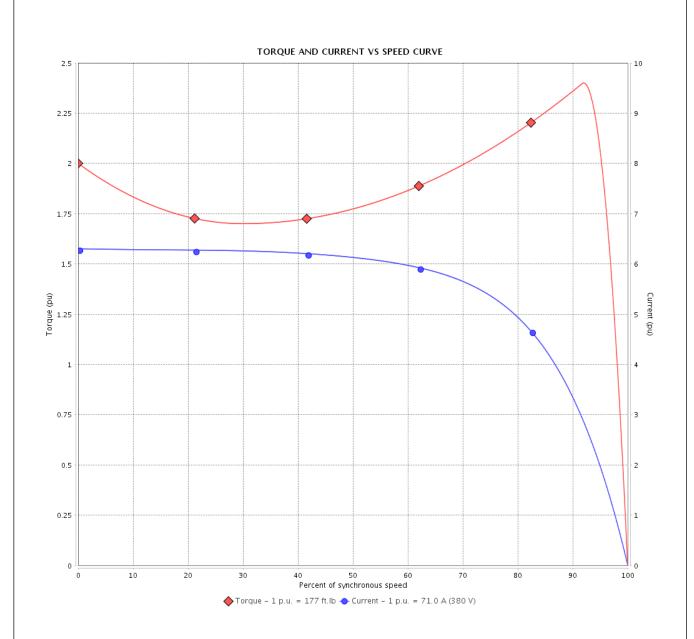
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### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14335223



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)	
Rated torque	: 177 ft.lb	Insulation class	: <b>F</b>	
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



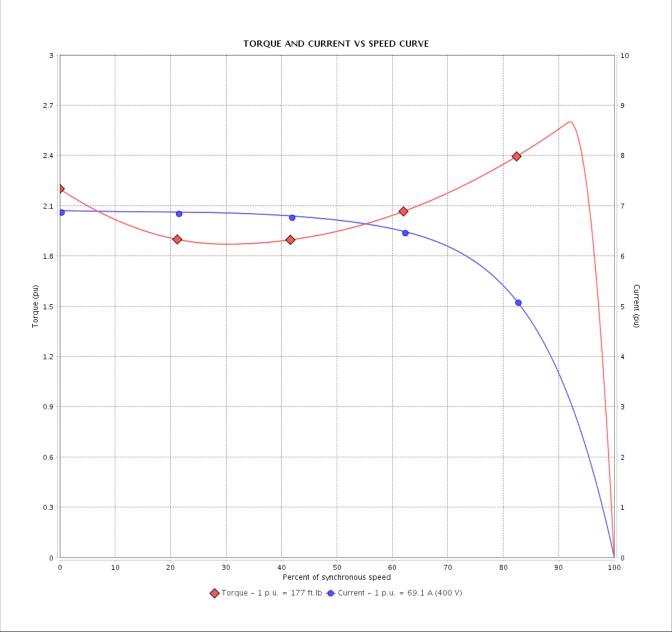
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14335223

Catalog #: 06018ET3ER364TC-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 : 1480 rpm Design : B

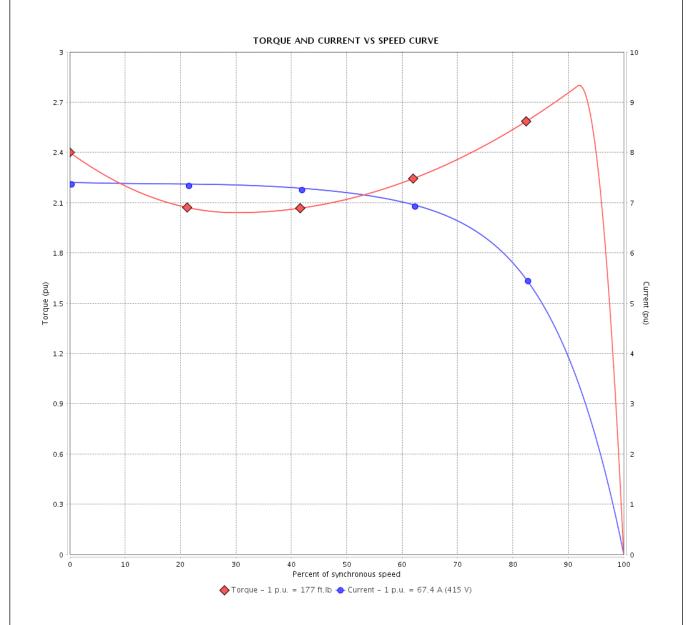
Locked rotor time : 18s (cold) 10s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14335223 Catalog #: 06018ET3ER364TC-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	: 1485 rpm	Design	: B	
Locked rotor time	: 18s (cold) 10s (hot)			

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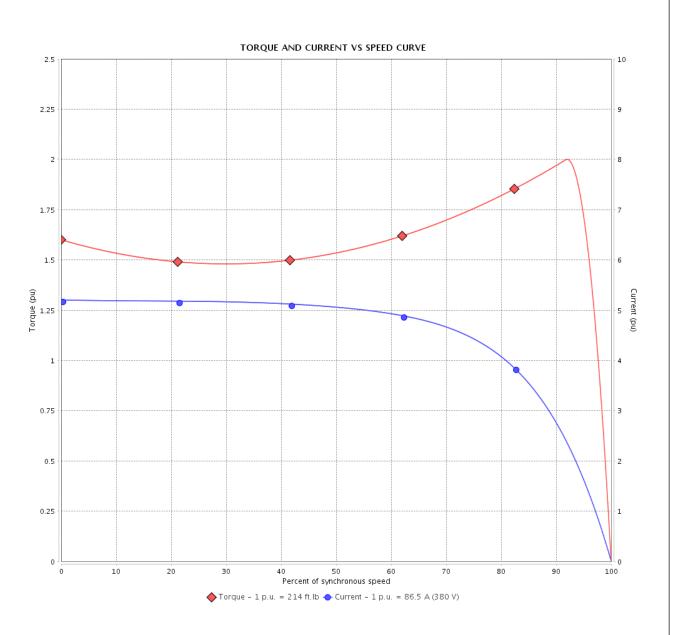


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14335223

Phase

Catalog #: 06018ET3ER364TC-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)	
Rated torque	: 214 ft.lb	Insulation class	: 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)			

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: 14335223 Catalog #: 06018ET3ER364TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 ◆Torque - 1 p.u. = 214 ft.lb ◆ Current - 1 p.u. = 82.6 A (400 V) : 400 V 50 Hz 4P IE2 Performance Rated current : 82.6 A Moment of inertia (J) : 22.4 sq.ft.lb LRC : 5.8 Duty cycle : Cont.(S1)

Rated torque Locked rotor torque Breakdown torque Rated speed	ue : 18 e : 21	14 ft.lb 30 % 10 % 175 rpm	Insulation Service for Temperat Design	actor	: F : 1.00 : 105 K : B	
Locked rotor time	: 1	8s (cold) 10s (hot	t)			
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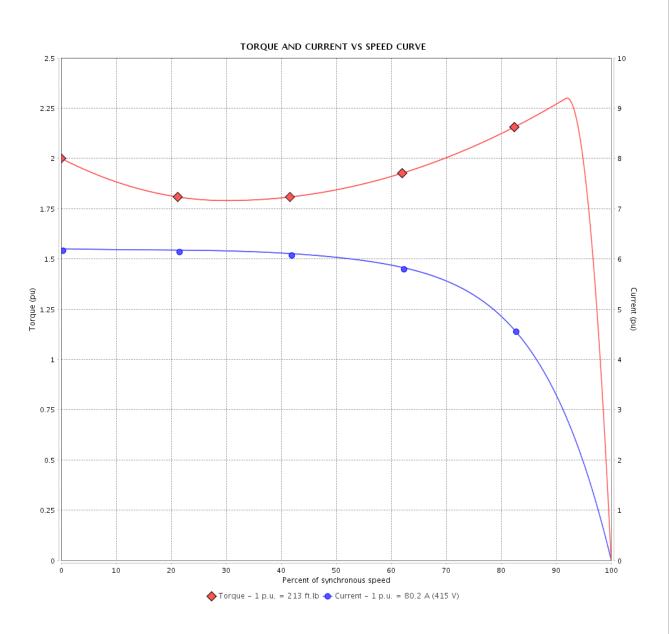


Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14335223



Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 80.2 A : 6.2 : 213 ft.lb : 200 % : 229 % : 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 : 105 K : B	
Locked rotor time	: 18s (cold) 10s (hot)			

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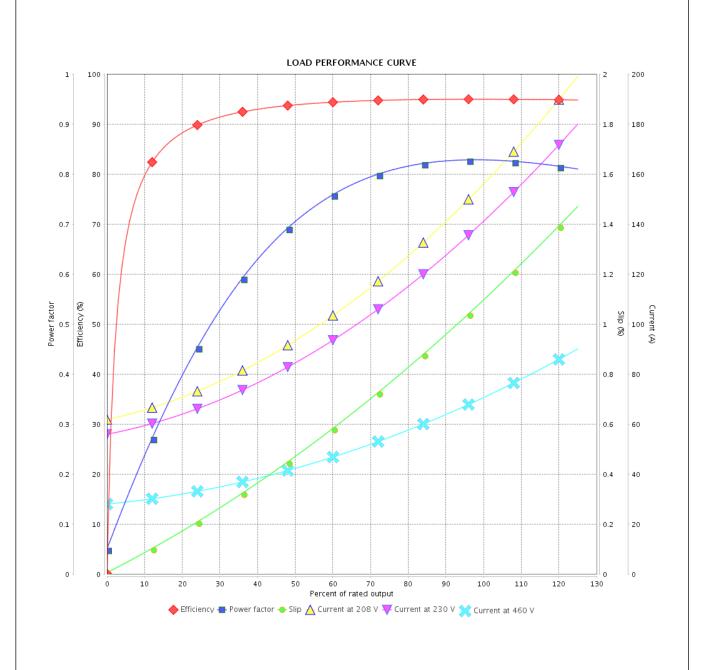
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 14335223

Phase



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



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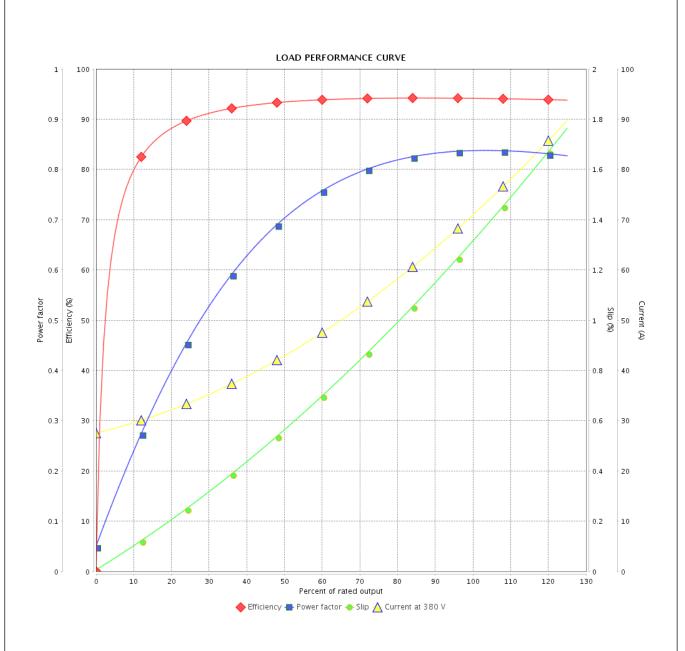
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Phase

Product code: 14335223

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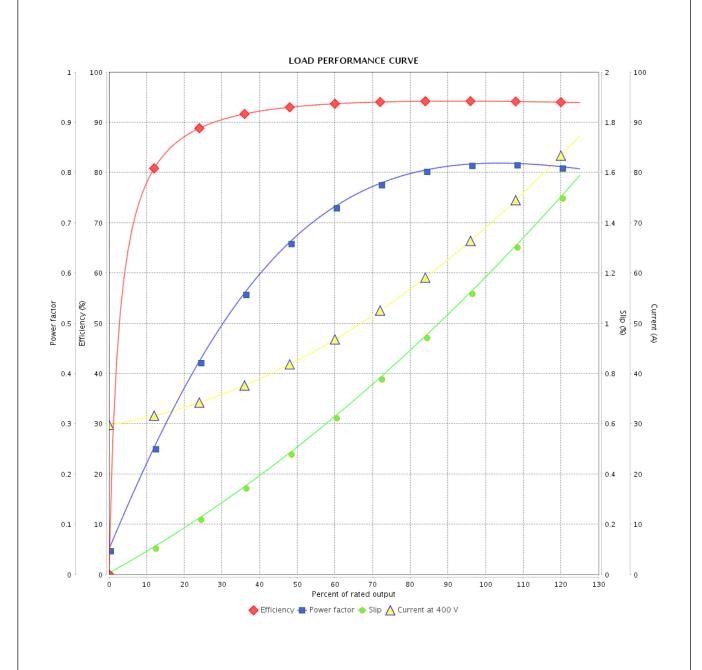
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 14335223

Phase



Performance	:	400 V 50 Hz 4P IE3				
Rated current	:	69.1 A	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC	:	6.9	Duty cycle	<b>)</b>	: Cont.(S1)	
Rated torque	:	177 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	220 %	Service fa	ctor	: 1.00	
Breakdown torque	:	: 260 % Tem		ure rise : 80 K		
Rated speed	:	1480 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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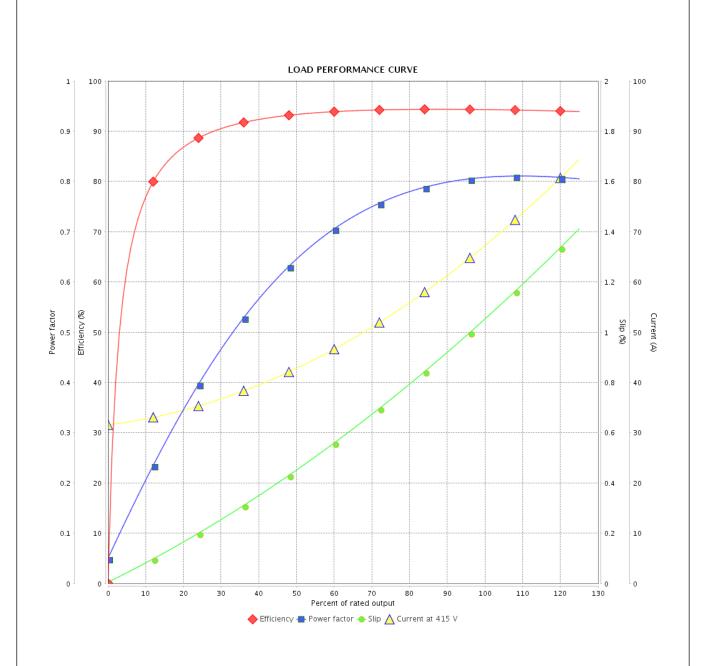
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 41	15 V 50 Hz 4P IE3	3			
Rated current		7.4 A			: 22.4 sq.ft.lb	
LRC	: 7.	4	Duty cycle	)	: Cont.(S1)	
Rated torque	: 17	77 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 24	40 %	Service fa	Service factor		
Breakdown torque	e : 28	30 %	Temperati	ıre rise	: 80 K	
Rated speed	: 14	185 rpm	Design		: B	
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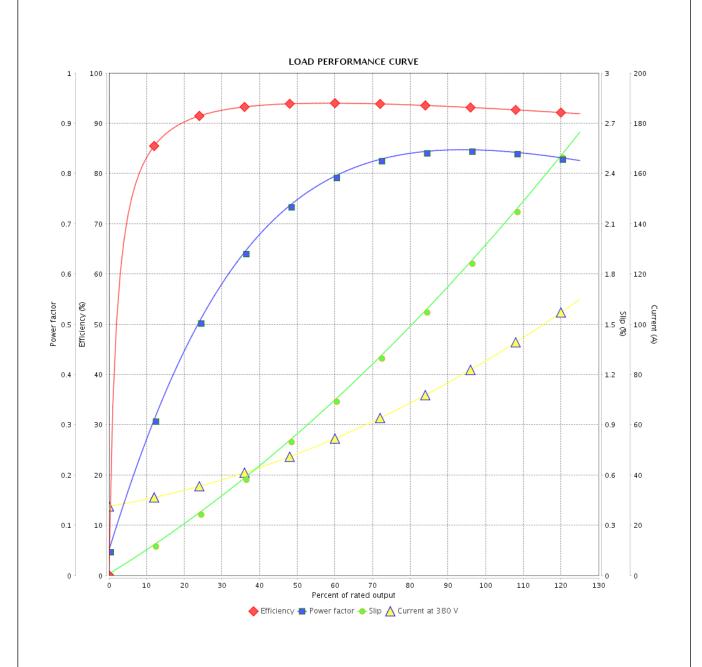
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 14335223

Phase



Performance	: 3	880 V 50 Hz 4P IE1				
Rated current	: 8	86.5 A	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 5	5.2	Duty cycle	}	: Cont.(S1)	
Rated torque	: 2	214 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	60 %	Service fa	ctor	: 1.00	
Breakdown torque : 200 %		Temperatu	Temperature rise			
Rated speed	: 1	470 rpm	Design		: B	
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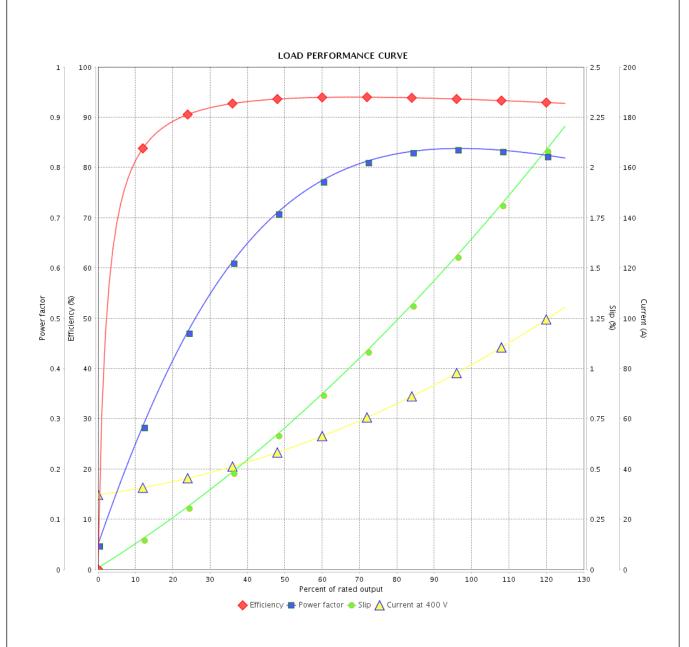
Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 14335223

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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 Duty cycle Insulation of Service fact Temperatu Design	class ctor	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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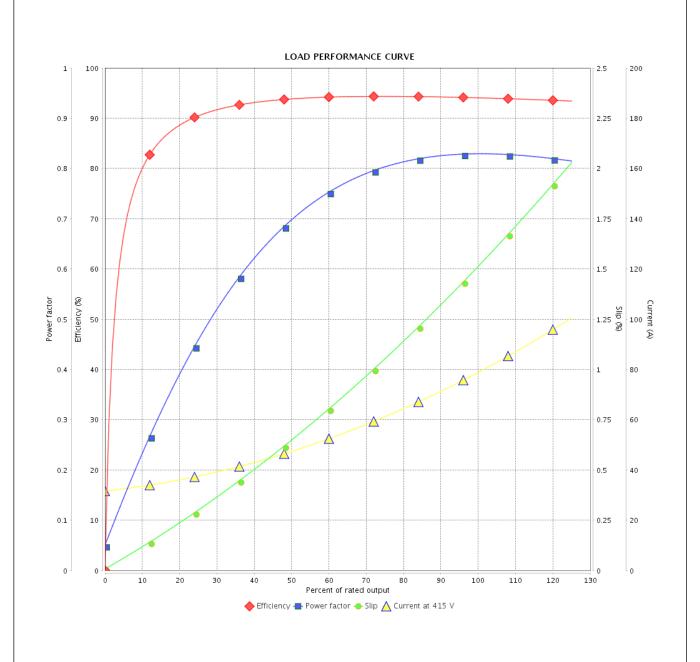
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 14335223

Phase



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	: 8	0.2 A	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6	5.2	Duty cycle	}	: Cont.(S1)	
Rated torque	: 2	13 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torque : 229 %		Temperature rise		: 105 K		
Rated speed	: 1	480 rpm	Design		: B	
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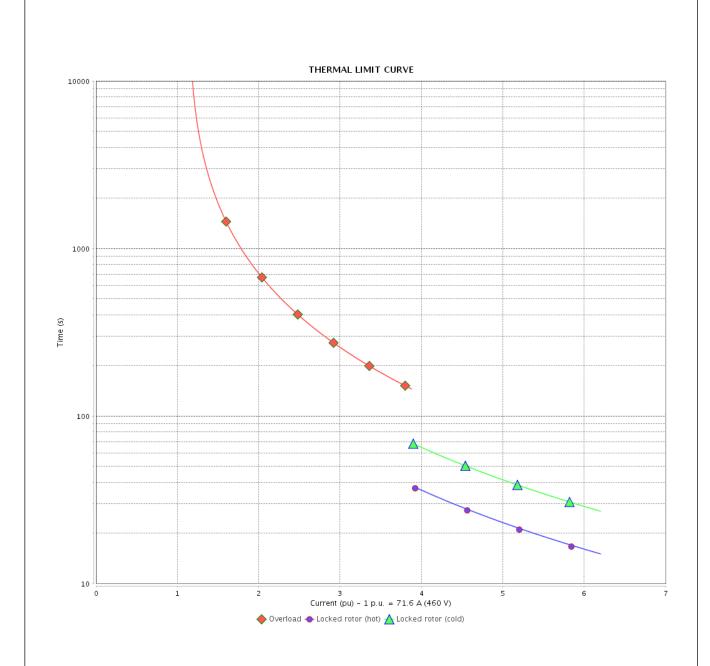


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Customer	:				
Product line	: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	14335223 06018ET3EF	R364TC-W22
			-		
Performance	: 230/460 V 60 Hz 4P				
Rated current	: 143/71.6 A	Moment of	f inertia (J)	: 22.4 sq.ft.lb	
	: 6.2 : 177 ft.lb	Duty cycle Insulation	: class	: Cont.(S1) : F	
Locked rotor torque	: 220 %	Service fa	ctor	: 1.25	
	: 240 % : 1780 rpm	Temperatu Design	ıre rise	: 80 K : B	
		2001911			
Heating constant Cooling constant					
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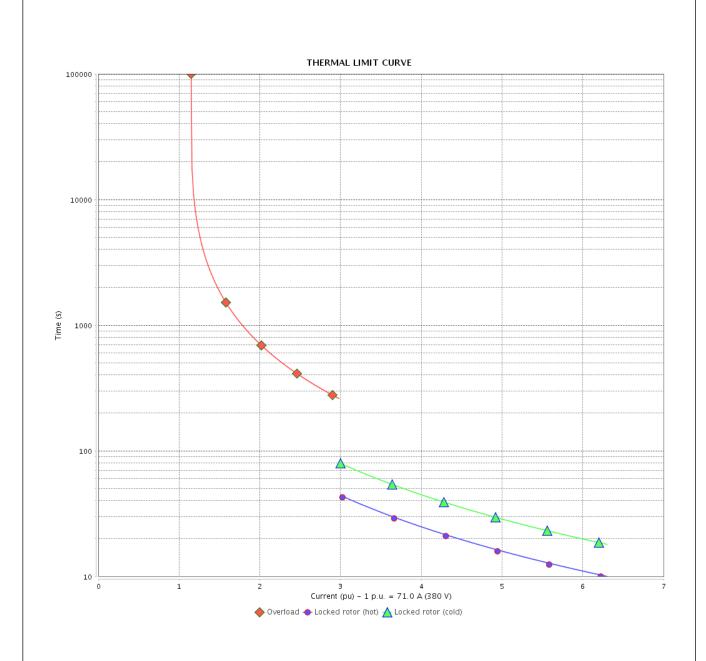


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14335223 06018ET3ER3	364TC-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque		: 71.0 A : 6.3 : 177 ft.lb	Moment of Duty cycle Insulation		: 22.4 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que	: 200 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 240 % : 1480 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant						
Cooling constant	τ	Changes Summary		Performed	Checked	Date
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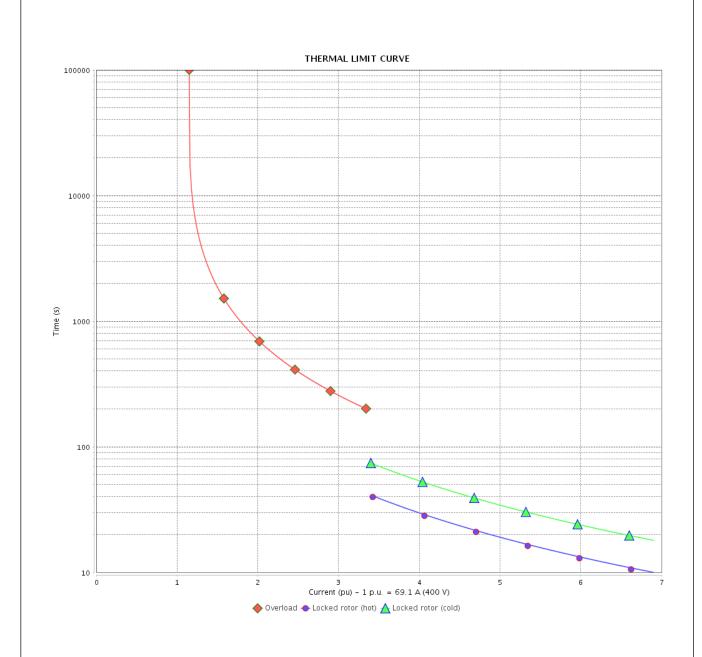


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	14335223 06018ET3ER	364TC-W22
			<u>-</u>		
Performance	: 400 V 50 Hz 4P IE3				
Rated current	: 69.1 A	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6.9	Duty cycle	!	: Cont.(S1)	
Rated torque Locked rotor torque	: 177 ft.lb : 220 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 260 %	Temperatu		: 80 K	
Rated speed	: 1480 rpm	Design		: B	
Heating constant					
Cooling constant					
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### Three Phase Induction Motor - Squirrel Cage



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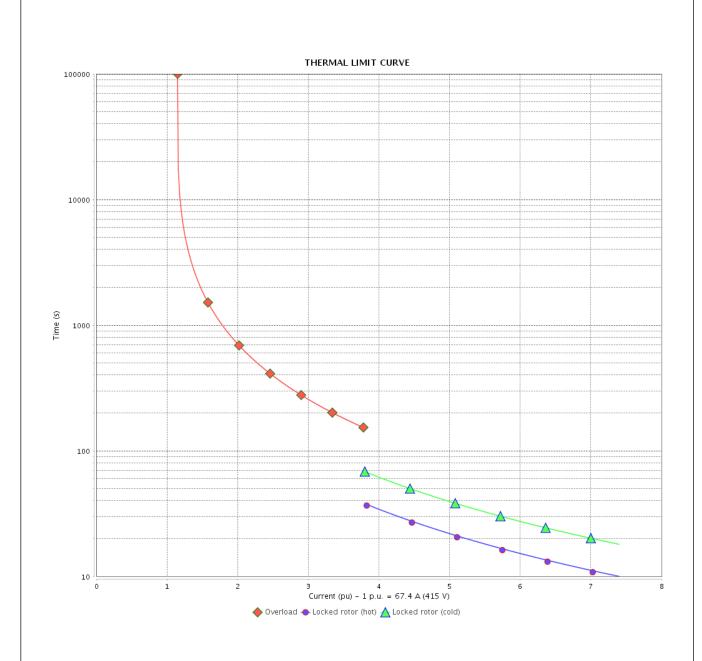


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Customer	:				
Product line	: NEMA Premium Efficiency <sup>1</sup> Phase		Product code : Catalog # :	14335223 06018ET3ER	:364TC-W22
Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 67.4 A	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
	: 7.4 : 177 ft.lb	Duty cycle Insulation	<b>;</b>	: Cont.(S1) : F	
Locked rotor torque	: 240 %	Service fa	ctor	: 1.00	
	: 280 % : 1485 rpm	Temperatu Design	ure rise	: 80 K : B	
	. 1 700 Ipili	Design			
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

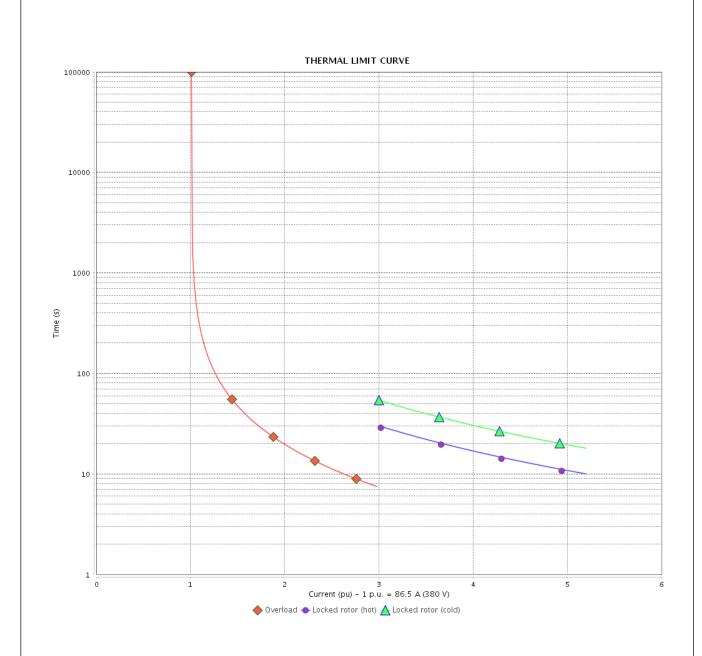


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	14335223 06018ET3ER	364TC-W22
Performance	: 380 V 50 Hz 4P IE1				
Rated current	: 86.5 A	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC Rated torque	: 5.2 : 214 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 160 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed	: 200 % : 1470 rpm	Temperatu Design	ure rise	: 105 K : B	
Heating constant	<u> </u>				
Cooling constant					
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

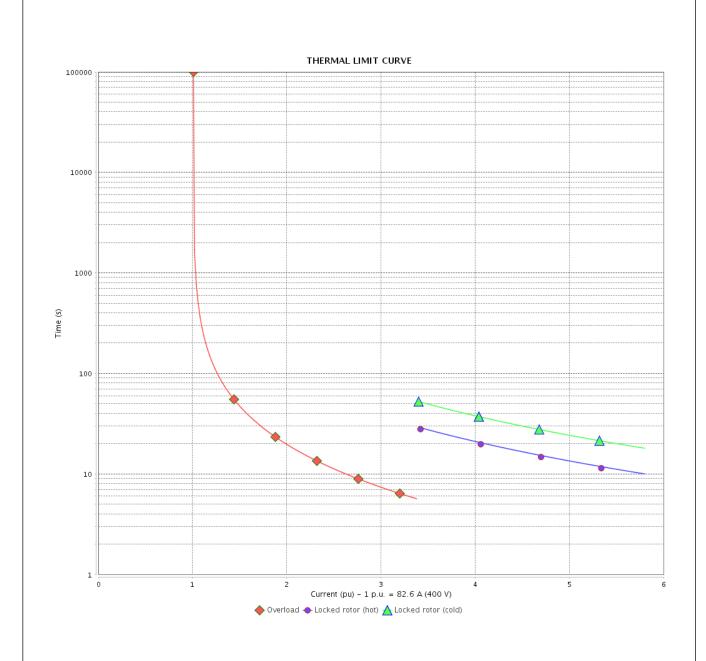


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Product line	. 1	NEMA Premium Efficiency	Three	Product code :	14335223	
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			1	Catalog # :	06018ET3ER	364TC-W22
Performance		00 V 50 Hz 4P IE2				
Rated current LRC	: 82 : 5.	2.6 A 8	Moment o	f inertia (J)	: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque	: 2	14 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		30 % 10 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed		10 % 475 rpm	Design	110 H3C	: B	
Heating constant						
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

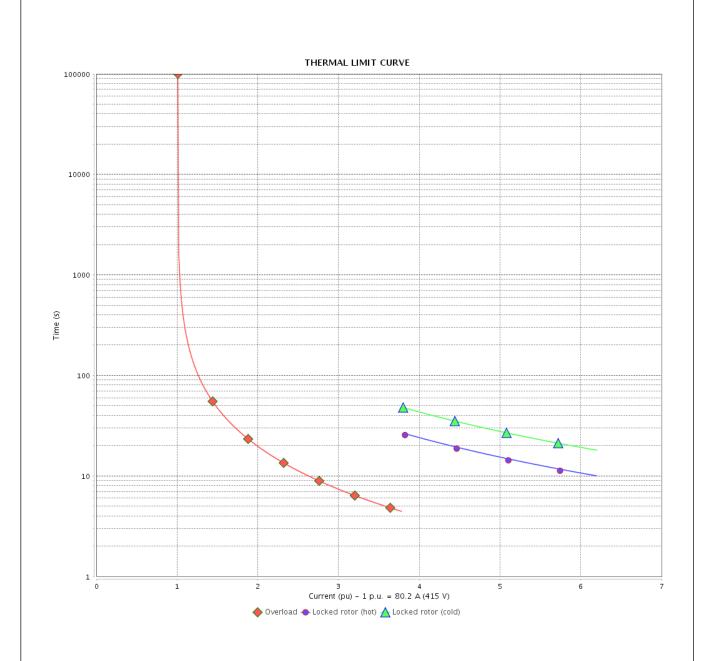


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	14335223 06018ET3ER	364TC-W22
Performance		15 V 50 Hz 4P IE2	T			
Rated current LRC	: 6.		Duty cycle	f inertia (J)	: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque		13 ft.lb 00 %	Insulation Service fa		: F : 1.00	
Breakdown torque		29 %	Temperatu		: 1.00 : 105 K	
Rated speed		480 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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Product line : NEMA Premium Efficiency Three-

Phase

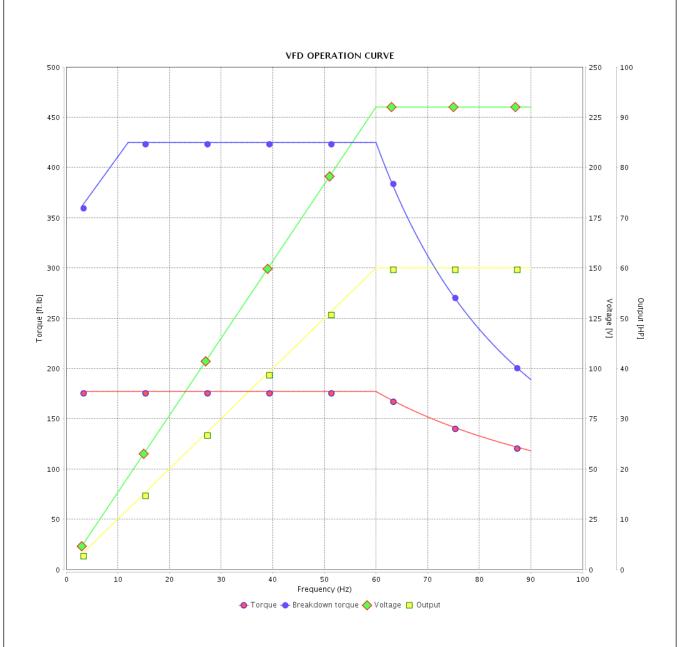
Product code: 14335223

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Performance : 230/460 V 60 Hz 4P : 143/71.6 A Rated current Moment of inertia (J) : 22.4 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 Insulation class : 177 ft.lb : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

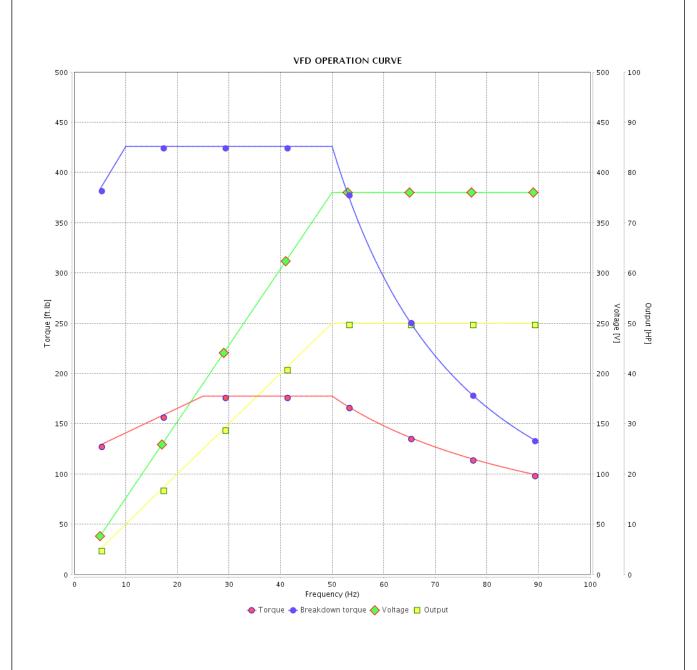
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 14335223

Phase



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



Customer :

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Product line : NEMA Premium Efficiency Three- Product code :

Phase

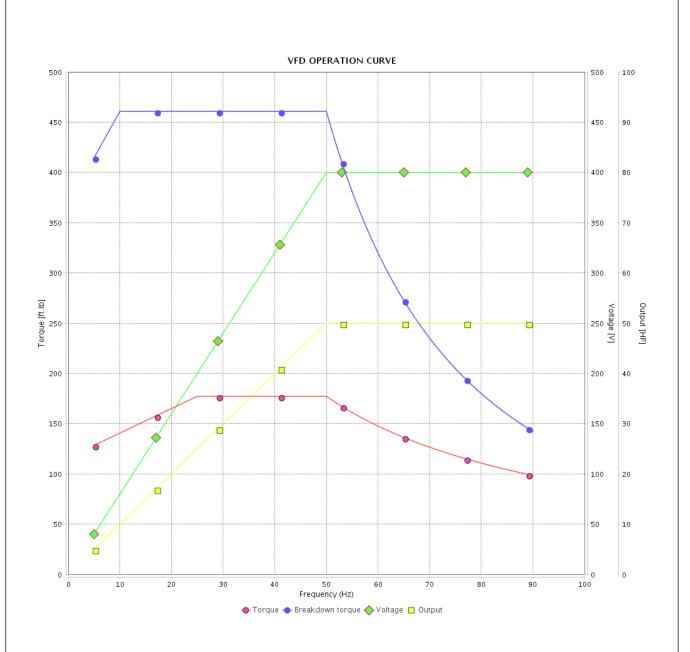
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: 40	00 V 50 Hz 4P IE3				
Rated current : 69.1 A LRC : 6.9 Rated torque : 177 ft.lb Locked rotor torque : 220 % Breakdown torque : 260 % Rated speed : 1480 rpm		Duty cycle Insulation Service fa	class ctor	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	Changes Summary	'	Performed	Checked	Date
	: 6 : 6 : 1 que : 2 ue : 2	: 6.9 : 177 ft.lb que : 220 % ue : 260 % : 1480 rpm	: 69.1 A	: 69.1 A  : 6.9  : 177 ft.lb  due  : 220 %  : 260 %  : 1480 rpm   Moment of inertia (J)  Duty cycle  Insulation class  Service factor  Temperature rise  Design	: 69.1 A       Moment of inertia (J)       : 22.4 sq.ft.lb         : 6.9       Duty cycle       : Cont.(S1)         : 177 ft.lb       Insulation class       : F         que       : 220 %       Service factor       : 1.00         ue       : 260 %       Temperature rise       : 80 K         : 1480 rpm       Design       : B

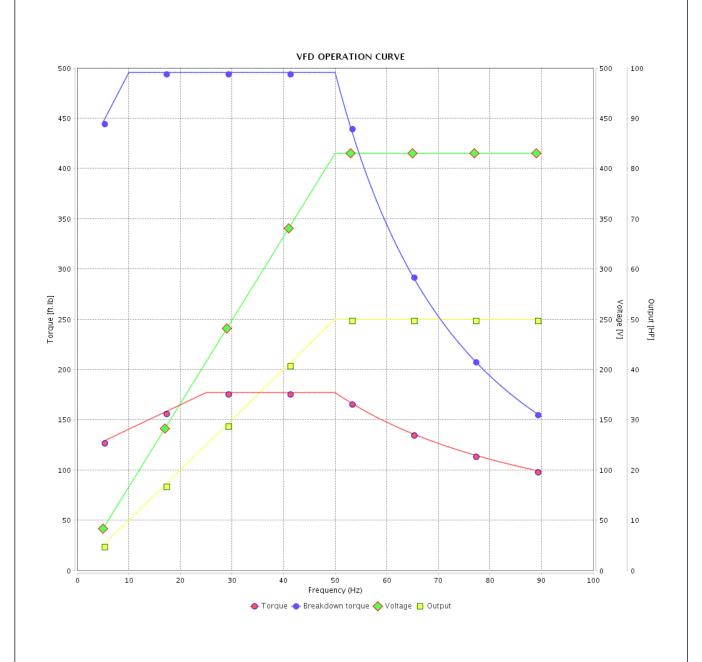
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 14335223

Phase



Performance		: 415 V 50 Hz 4P IE3						
Rated current		7.4 A Moment of inertia (J)		: 22.4 sq.ft.lb				
LRC :		.4	Duty cycle		: Cont.(S1)			
Rated torque		77 ft.lb	Insulation class		: F			
Locked rotor torque		40 %	Service factor		: 1.00			
Breakdown torque	e : 2	: 280 % Tem : 1485 rpm Desi		ıre rise	: 80 K : B			
Rated speed	: 1							
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#### Three Phase Induction Motor - Squirrel Cage



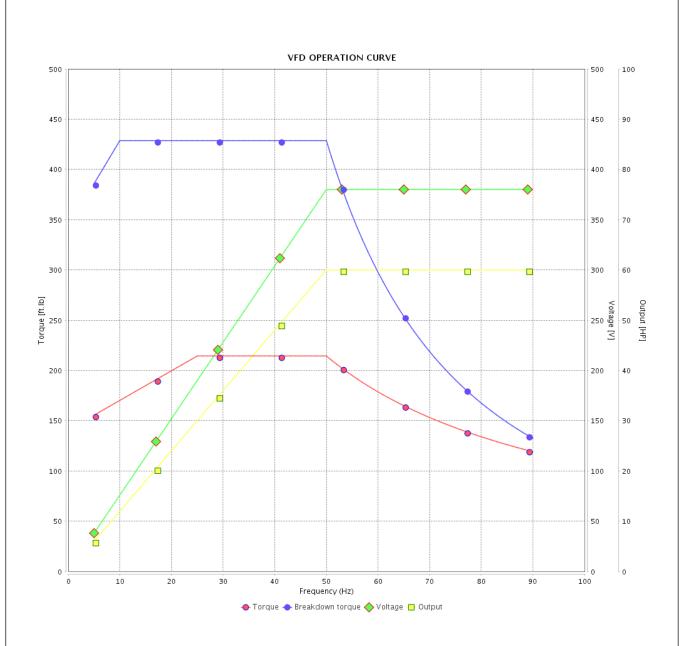
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14335223

Catalog #: 06018ET3ER364TC-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) : 214 ft.lb Insulation class Rated torque : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1470 rpm Design

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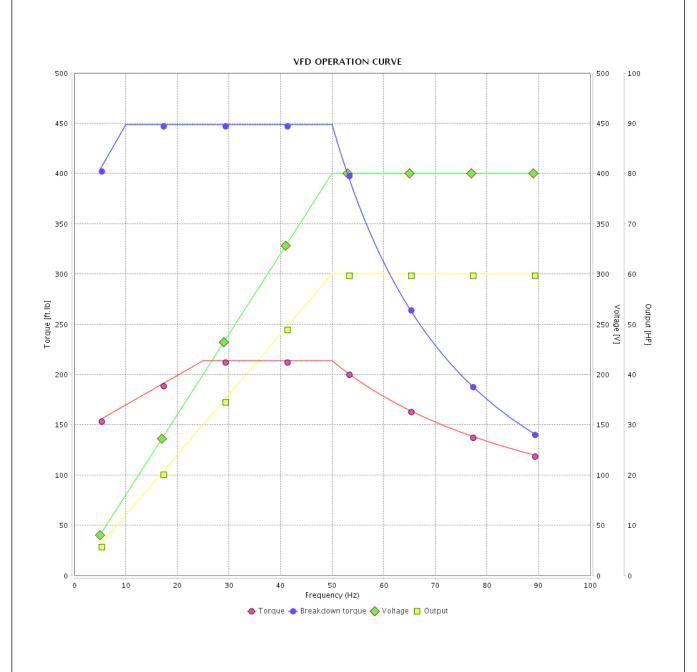
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 14335223

Phase



Performance : 4		400 V 50 Hz 4P IE2						
Rated current :		2.6 A	Moment of	Moment of inertia (J)				
LRC : 5		.8	Duty cycle		: Cont.(S1)			
Rated torque		14 ft.lb	Insulation class		: F			
Locked rotor torque		80 %	Service fa	Service factor		: 1.00		
Breakdown torque	: 2	10 %	Temperat	Temperature rise				
Rated speed	: 14	1475 rpm Design			: B			
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

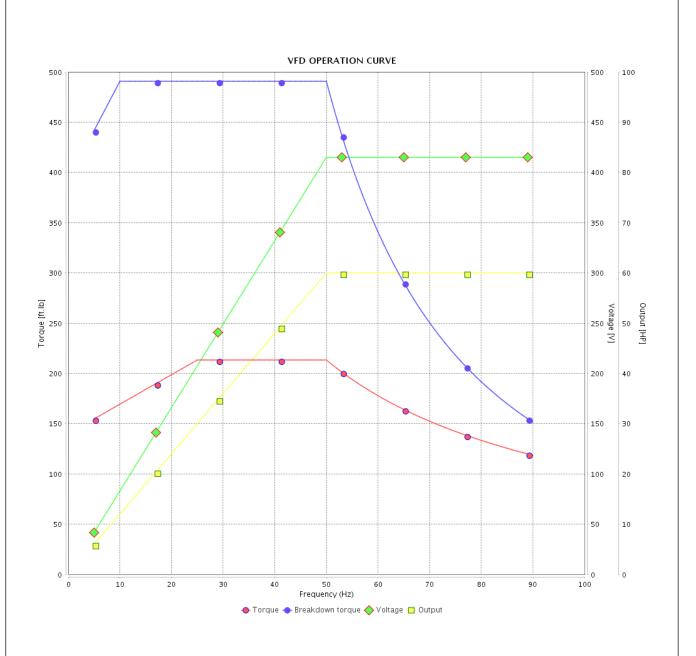
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14335223

Catalog #: 06018ET3ER364TC-W22

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Performance	: 4	: 415 V 50 Hz 4P IE2						
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 2 que : 2	80.2 A 6.2 213 ft.lb 200 % 229 % 1480 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design				
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Date

