### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



0.85

Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447129

Phase

Catalog #: 04018ET3E324TC-W22

Frame : 324/6TC 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> : 590 lb

Ailitude		. 1000 III.a.s.i.		Applox	Approx. weight . 330 ib			
Protection degree	е	: IP55	: IP55 Moment of inertia (J)			: 9	.16 sq.ft.lb	
Design		: B						
Output [HP]		40	30	30	30	40	40	40
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]		94.2/47.1	42.8	41.6	41.1	57.4	54.1	52.8
L. R. Amperes [A]		575/287	282	304	316	287	303	317
LRC [A]		6.1x(Code	6.6x(Code	7.3x(Code H)	7.7x(Code J)	5.0x(Code E)	5.6x(Code F)	6.0x(Code
		G)	G)					G)
No load current [A]	]	34.0/17.0	16.8	17.3	18.6	16.8	17.3	18.6
Rated speed [RPN	1]	1770	1475	1480	1480	1460	1465	1470
Slip [%]		1.67	1.67	1.33	1.33	2.67	2.33	2.00
Rated torque [ft.lb]		119	107	106	106	144	143	143
Locked rotor torqu	e [%]	229	240	270	280	170	190	210
Breakdown torque	[%]	240	260	290	310	180	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	80 K
Locked rotor time		36s (cold) 20s (hot)	25s (cold) 14s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level <sup>2</sup>		66.0 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 (9/)	50%	93.6	92.9	92.4	91.7	93.6	93.6	93.0
Efficiency (%)	75%	94.1	93.1	93.0	92.6	93.0	93.0	93.0
	100%	94.1	93.0	93.2	93.1	92.4	93.0	93.0
	25%							
Power Factor	50%	0.72	0.68	0.64	0.62	0.78	0.74	0.72
FUWEI FACIOI	75%	0.80	0.78	0.75	0.73	0.84	0.82	0.80

Drive end Non drive end Foundation loads

0.82

0.80

Bearing type : 6312 C3 6212 C3 Max. traction : 966 lb Sealing : V'Ring V'Ring Max. compression : 1556 lb

0.84

Lubrication interval : 20000 h 20000 h Lubricant amount : 21 g 13 g Lubricant type : Mobil Polyrex EM

0.85

Notes

USABLE @208V 104A SF 1.15 SFA 120A

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.

0.86

0.86

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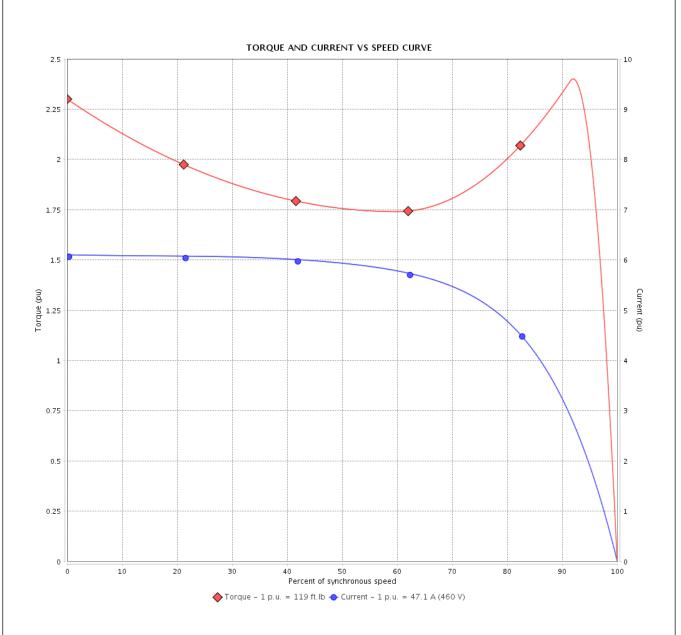
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447129

Catalog #: 04018ET3E324TC-W22



Performance : 230/460 V 60 Hz 4P Rated current : 94.2/47.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 119 ft.lb : F Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

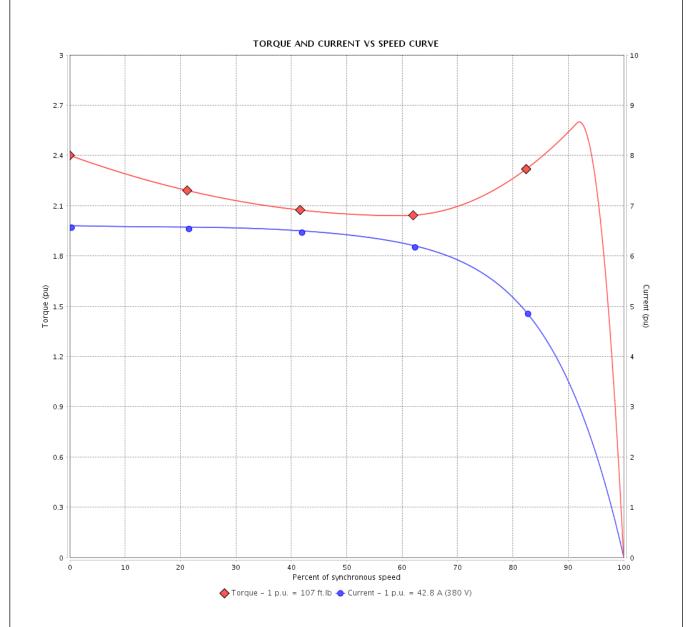
Locked rotor time : 36s (cold) 20s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12447129 Catalog #: 04018ET3E324TC-W22



Performance : 380 V 50 Hz 4P IE3 Rated current : 42.8 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 107 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Locked rotor time : 25s (cold) 14s (hot)

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### Three Phase Induction Motor - Squirrel Cage

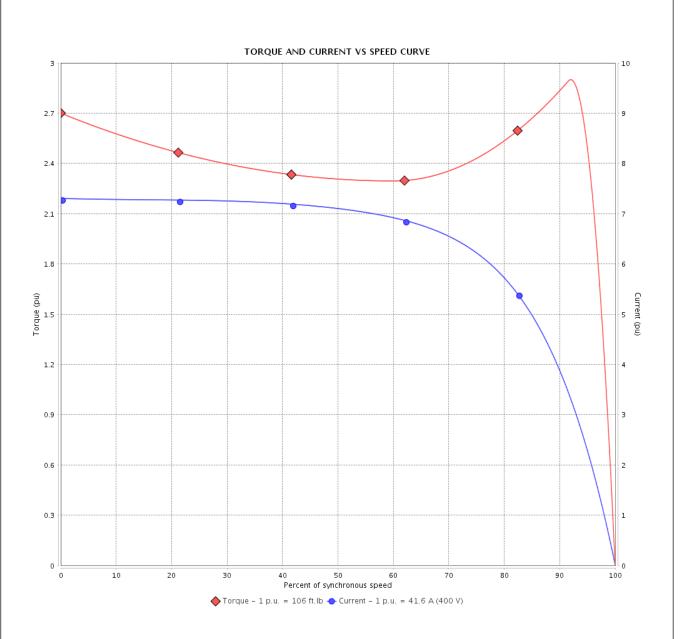


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447129

Phase

Catalog #: 04018ET3E324TC-W22



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 41.6 A	Moment of inertia (J)	: 9.16 sq.ft.lb
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 106 ft.lb	Insulation class	:F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B
Locked rotor time	: 27s (cold) 15s (hot)		

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: 12447129 Catalog #: 04018ET3E324TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 106 ft.lb ◆ Current - 1 p.u. = 41.1 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 41.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class Rated torque : F : 280 % Locked rotor torque Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary** 

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#### Three Phase Induction Motor - Squirrel Cage



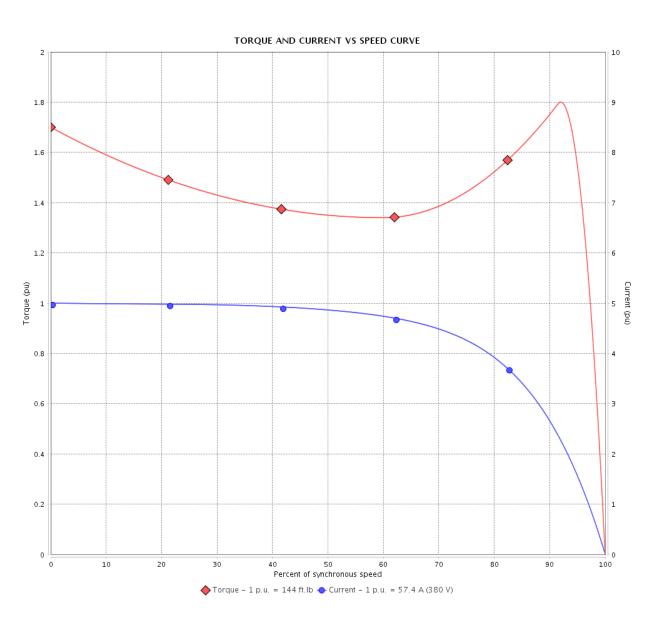
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12447129

Catalog #: 04018ET3E324TC-W22



Performance : 380 V 50 Hz 4P IE2 Rated current : 57.4 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 144 ft.lb : F Service factor Locked rotor torque : 170 % : 1.00 Breakdown torque : 180 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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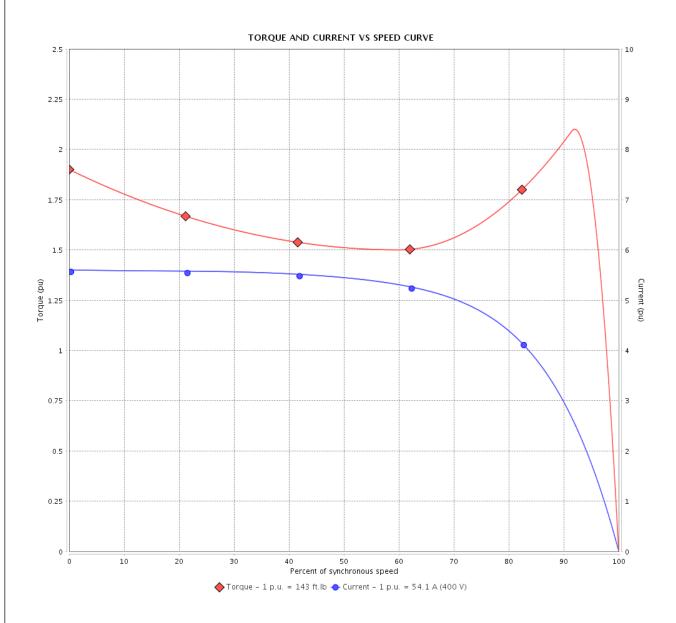
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447129

Catalog #: 04018ET3E324TC-W22



Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 54.1 A	Moment of inertia (J)	: 9.16 sq.ft.lb
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 143 ft.lb	Insulation class	:F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 1465 rpm	Design	: B
Locked rotor time	: 27s (cold) 15s (hot)		

LOCKEU TOLOT LITTLE	. 2	73 (Cold) 133 (110t)			
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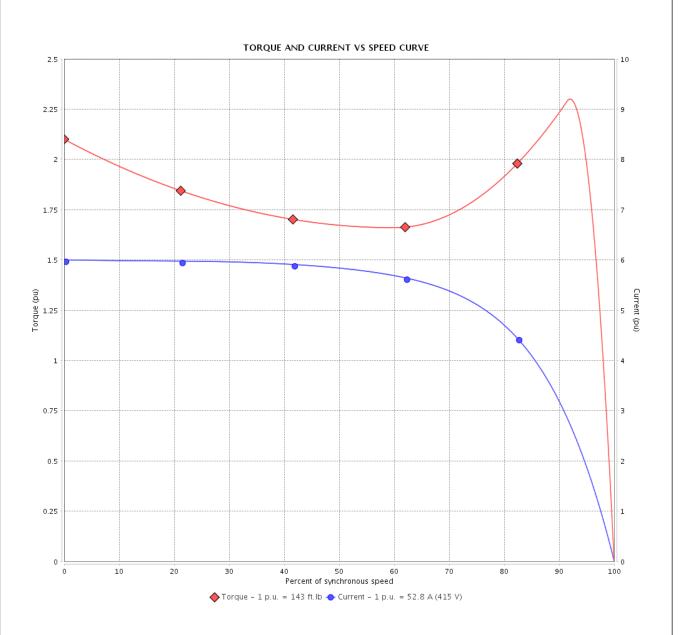


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447129

Phase

Catalog #: 04018ET3E324TC-W22



Performance	: 415 V 50 Hz 4P IE2		
Rated current	: 52.8 A	Moment of inertia (J)	: 9.16 sq.ft.lb
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 143 ft.lb	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B
Locked rotor time	: 27s (cold) 15s (hot)		

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

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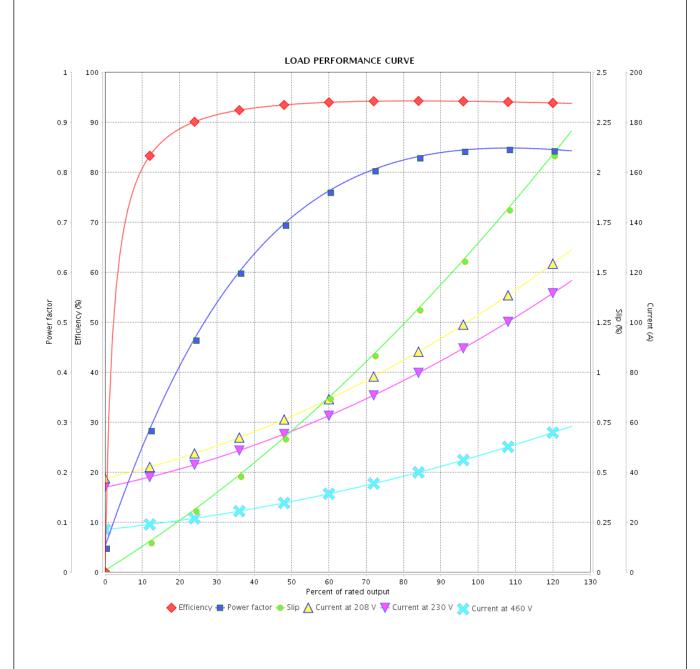


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447129

Phase

Catalog #: 04018ET3E324TC-W22



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	Rated current : 94.2/47.1 A		Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6	.1	Duty cycle	)	: Cont.(S1)	
Rated torque	: 1	19 ft.lb	Insulation	class	: F	
Locked rotor torque		29 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	: 240 % : 1770 rpm		ure rise	: 80 K	
Rated speed	: 1			Design		
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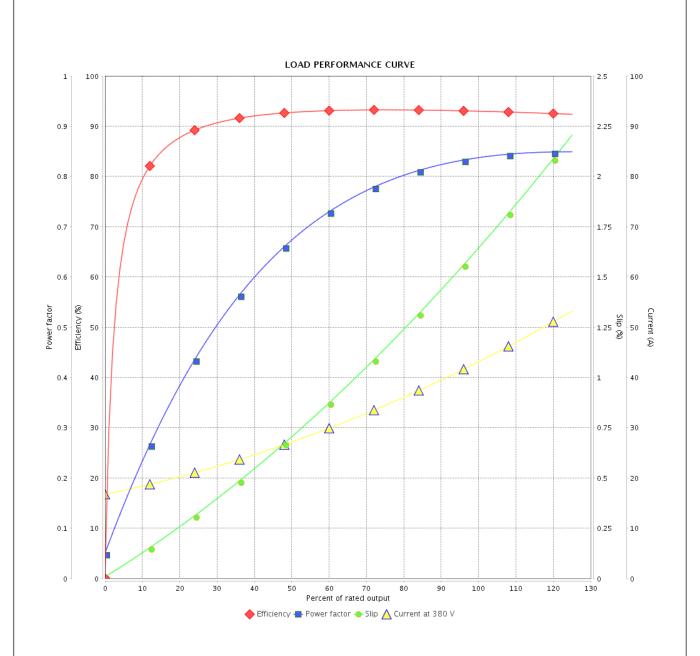
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447129

Phase

Catalog #: 04018ET3E324TC-W22

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 42.8 A : 6.6 : 107 ft.lb : 240 % : 260 % : 1475 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

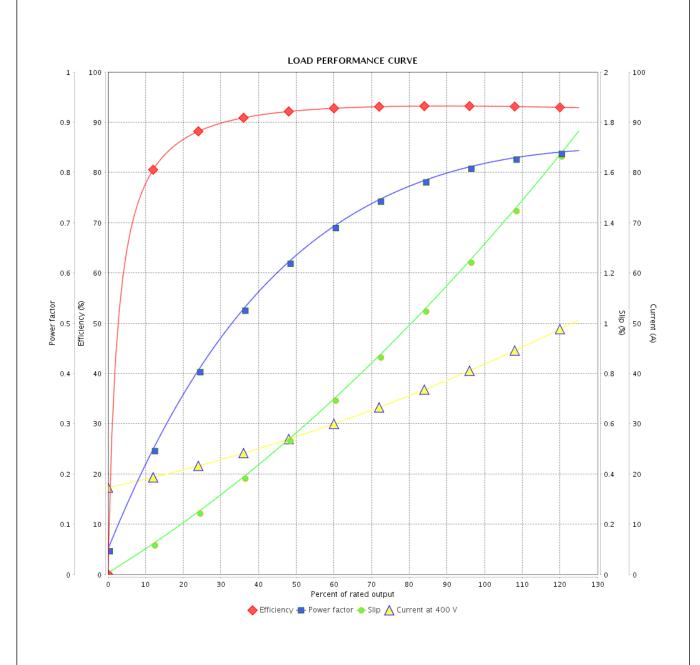


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447129

Phase

Catalog #: 04018ET3E324TC-W22



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current	Rated current : 41.6 A		Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 7	.3	Duty cycle	)	: Cont.(S1)	
Rated torque	: 1	06 ft.lb	Insulation	class	: F	
Locked rotor torque : 270 %		70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	90 %	Temperati	Temperature rise : 80 K		
Rated speed	: 1	480 rpm	Design		: B	
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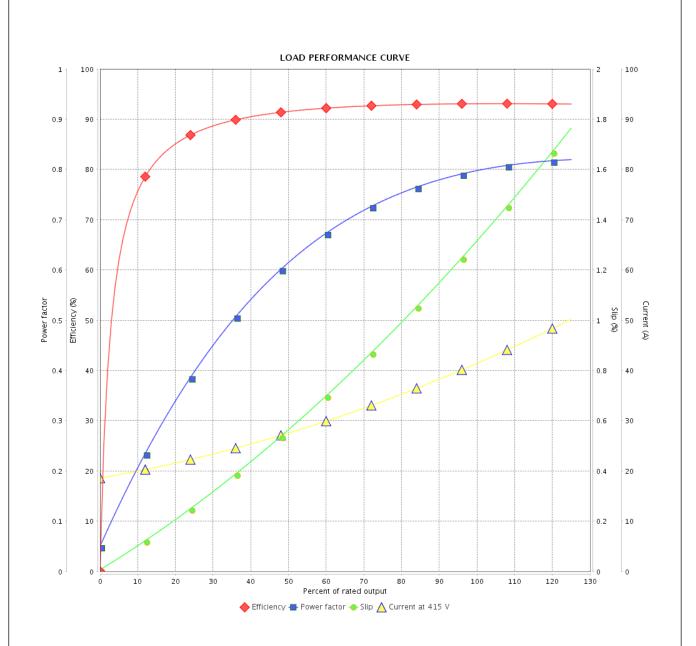
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Product line : NEMA Premium Efficiency Three- Product code : 12447129

Phase

Catalog #: 04018ET3E324TC-W22



Performance : 415 V 50 Hz 4P IE3 Rated current : 41.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class Rated torque : F Locked rotor torque : 280 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage

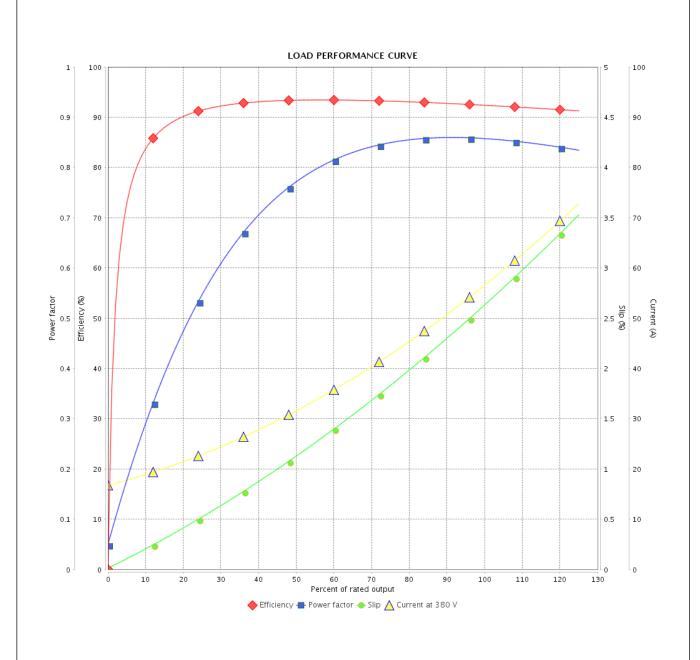


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447129

Phase

Catalog #: 04018ET3E324TC-W22



Performance	: 3	880 V 50 Hz 4P IE2				
Rated current	Rated current : 57.4 A		Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 5	5.0	Duty cycle	)	: Cont.(S1)	
Rated torque	: 1	44 ft.lb	Insulation	class	: F	
Locked rotor torque : 170 %		70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 1	80 %	Temperati	Temperature rise : 105 K		
Rated speed	: 1	460 rpm	Design		: B	
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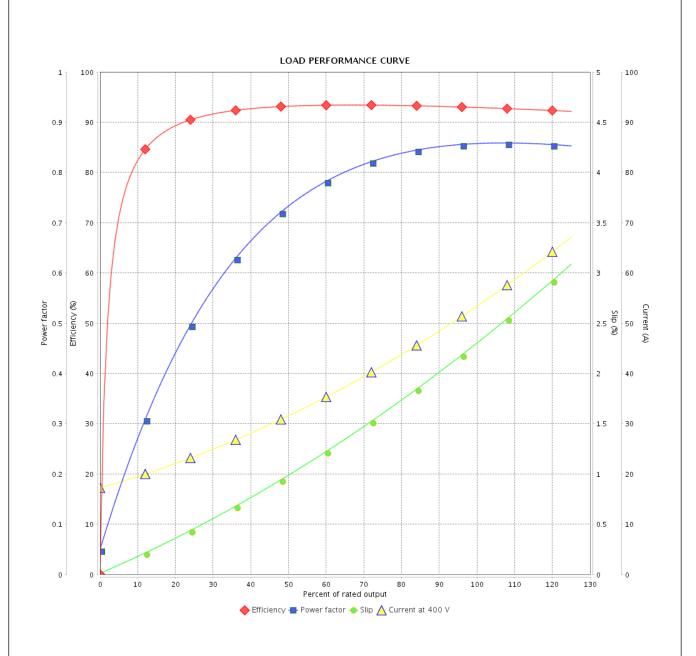


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447129

Phase

Catalog #: 04018ET3E324TC-W22



Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 54.1 A : 5.6 : 143 ft.lb : 190 % : 210 % : 1465 rpm	Moment of Duty cycle Insulation of Service fac Temperatur Design	class tor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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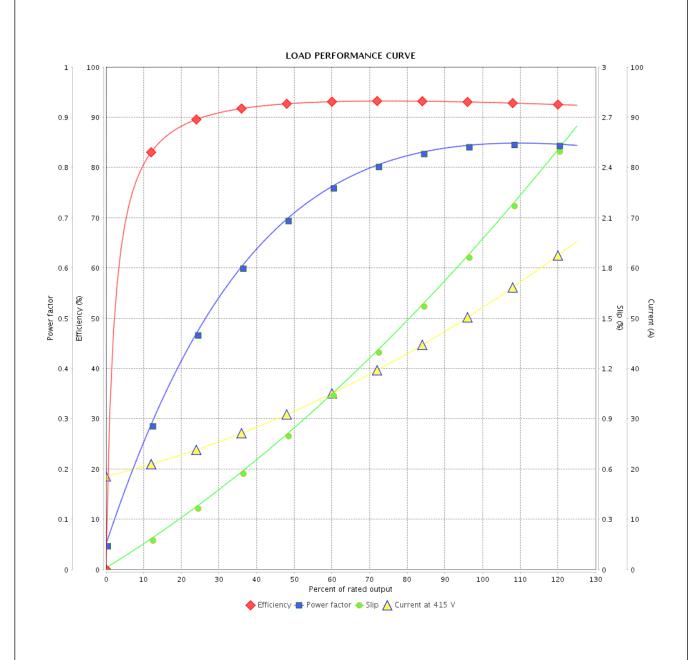


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447129

Phase

Catalog #: 04018ET3E324TC-W22



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	ated current : 52.8 A		Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6	.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	43 ft.lb	Insulation	class	: F	
Locked rotor torque : 210 %		10 %	Service fa	ctor	: 1.00	
Breakdown torque		29 %	Temperati	Temperature rise : 80 K		
Rated speed	: 1	470 rpm	Design		: B	
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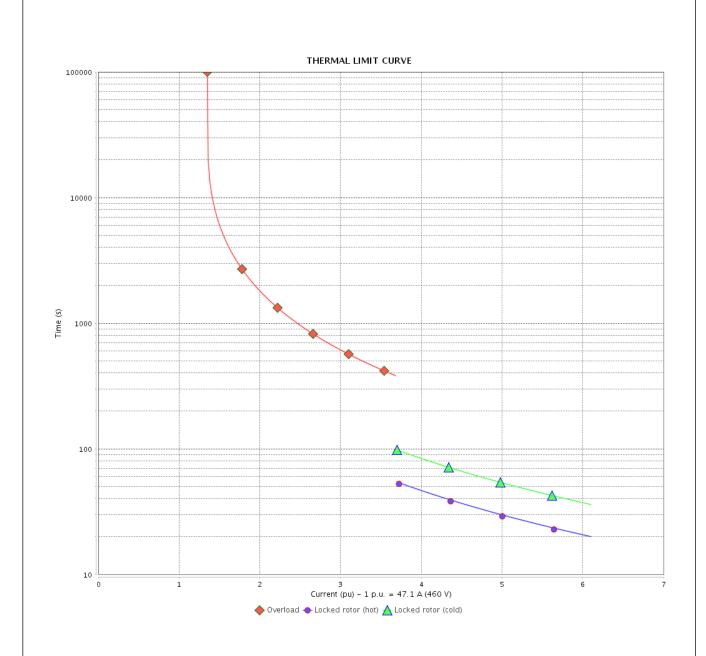


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Product line		NEMA Premium Efficiency	Three-	Product code :	12447129	
	PI	hase		Catalog # :	04018ET3E32	P4TC-W22
					0.10.102.102.02	-110 1122
Performance	. 23	B0/460 V 60 Hz 4P				
Rated current		4.2/47.1 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6.	1	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torque		19 ft.lb 29 %	Insulation Service fa		: F : 1.25	
Breakdown torque	e : 24	40 %	Temperatu		: 80 K	
Rated speed	: 17	770 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summani		Performed	Checked	Date
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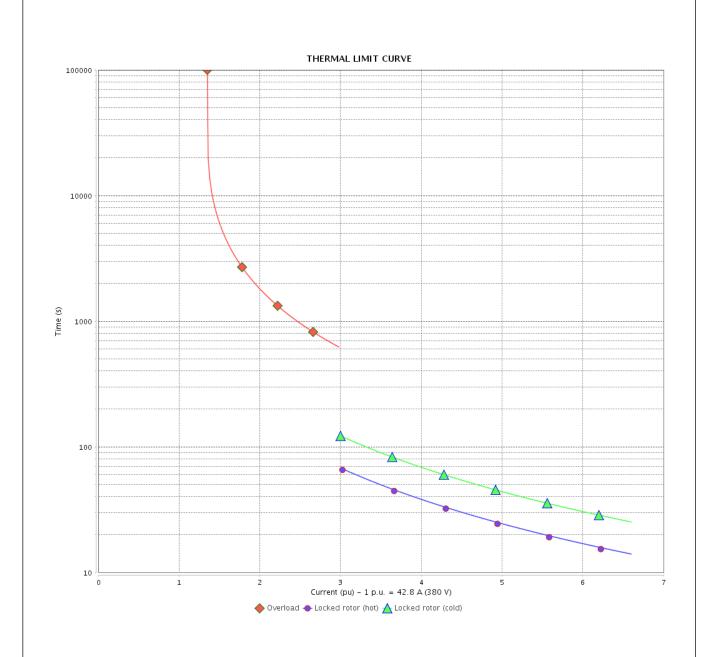


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447129 04018ET3E32	24TC-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 42.8 A	Moment of	of inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque		: 6.6 : 107 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 240 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 260 % : 1475 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant		·				
Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



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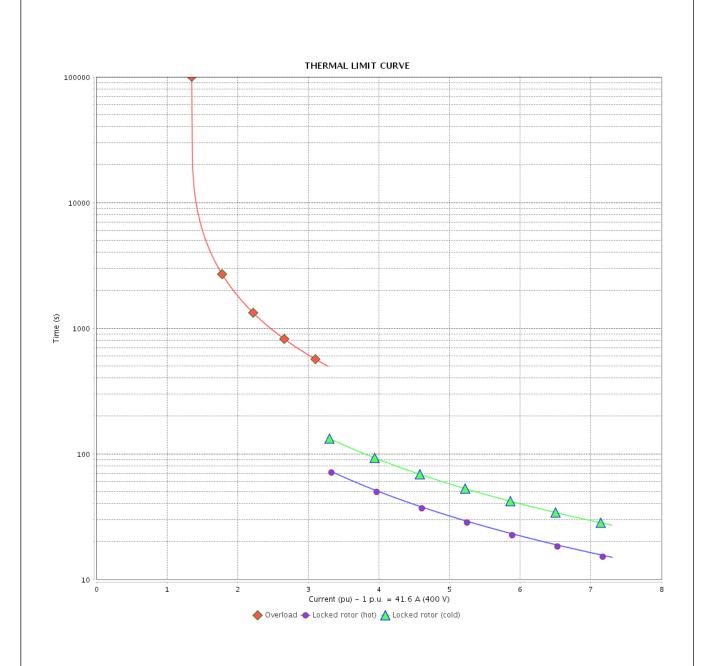


Customer		:				
Product line		: NEMA Premium Efficiency <sup>*</sup> Phase		Product code : Catalog # :	12447129 04018ET3E3	24TC-W22
Performance Rated current LRC Rated torque Locked rotor toro	:	400 V 50 Hz 4P IE3 41.6 A 7.3 106 ft.lb 270 %	Moment o Duty cycle Insulation Service fa	class	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torqu Rated speed	ue :	290 % 1480 rpm	Temperatu Design		: 80 K : B	
Heating constant						
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### Three Phase Induction Motor - Squirrel Cage



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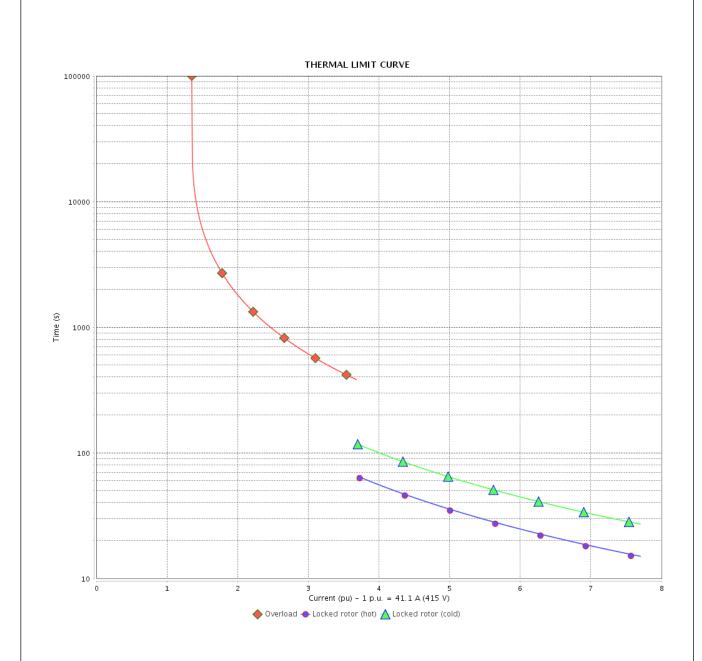


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447129 04018ET3E32	04TC W22
				Catalog # .	04016E13E32	2410-7722
D. (		445.7750.11 40.150				
Performance Rated current		: 415 V 50 Hz 4P IE3 : 41.1 A	Moment o	of inertia (J)	: 9.16 sq.ft.lb	
LRC		: 7.7	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		: 106 ft.lb : 280 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 310 %	Temperat		: 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

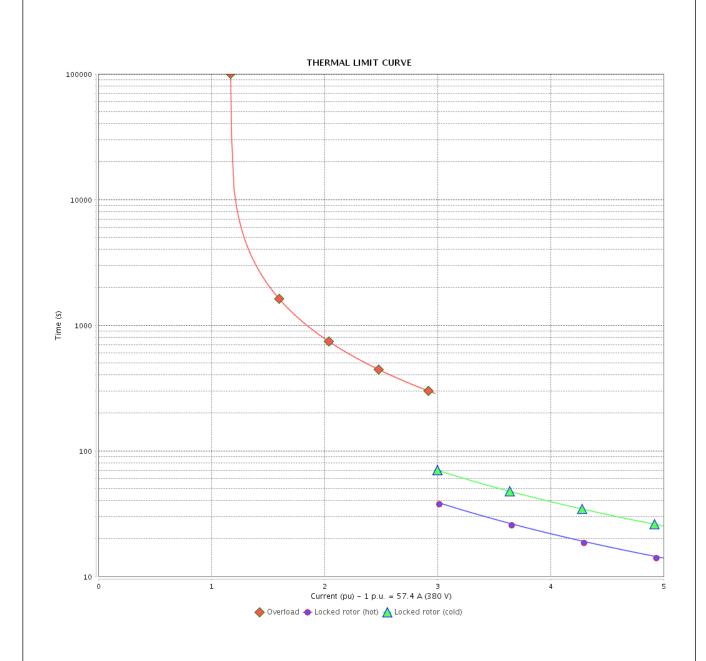


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	12447129	DATO 18/22
			Catalog # :	04018ET3E3	241C-VV22
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Performance	: 380 V 50 Hz 4P IE2	Merro	finantic (1)	.0.40 6.11	
Rated current LRC	: 57.4 A : 5.0	Duty cycle	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque	: 144 ft.lb	Insulation	class	: F	
Locked rotor torque	: 170 %	Service fa		: 1.00	
Breakdown torque Rated speed	: 180 % : 1460 rpm	Temperati Design	ure rise	: 105 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

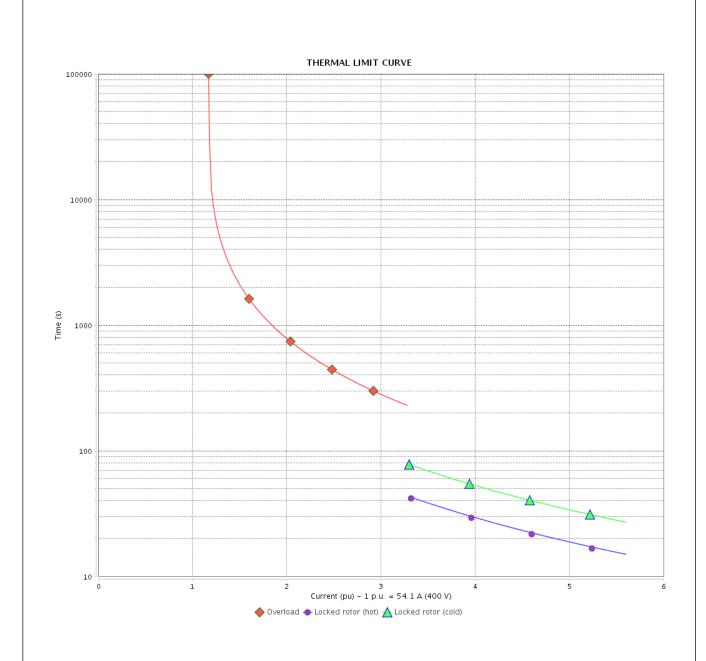


Customer	<u> </u>				
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Product line	: NEMA Premium Efficiency	Three-	Product code :	12447129	
	Phase		Catalog # :	04018ET3E3	24TC-\N/22
				0401021020	2410 1122
Darfamara	. 400 \/ 50    - 45    50				
Performance Rated current	: 400 V 50 Hz 4P IE2 : 54.1 A	Moment	of inertia (J)	: 9.16 sq.ft.lb	
LRC	: 5.6	Duty cycle	9	: Cont.(S1)	
Rated torque	: 143 ft.lb : 190 %	Insulation Service fa	class	: F : 1.00	
Locked rotor torque Breakdown torque	: 210 %	Temperati		: 1.00 : 105 K	
Rated speed	: 1465 rpm	Design		: B	
Heating constant	-				
Cooling constant			,		
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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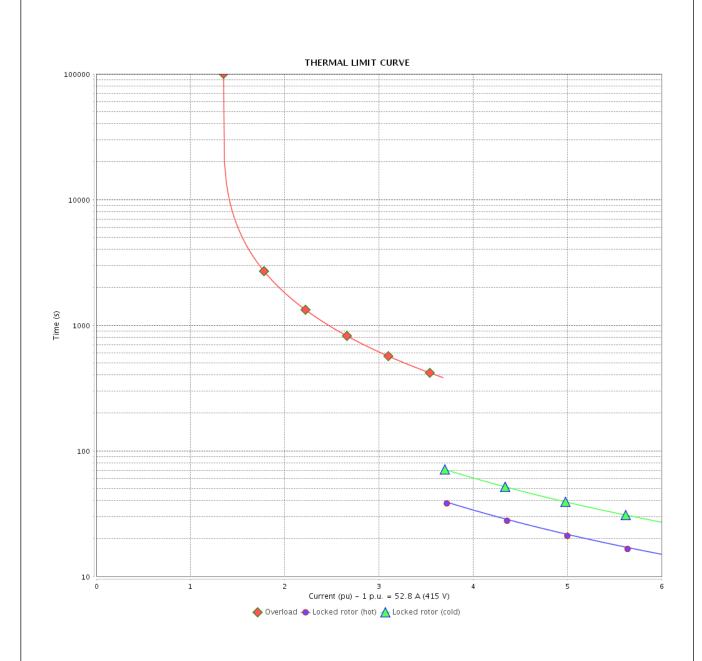


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447129 04018ET3E32	24TC-W22
Performance		: 415 V 50 Hz 4P IE2	I			
Rated current LRC		: 52.8 A : 6.0	Duty cycle		: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 143 ft.lb : 210 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 229 %	Temperat		: 80 K	
Rated speed		: 1470 rpm	Design		: B	
Heating constan						
Cooling constant	l	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 :

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Product line : NEMA Premium Efficiency Three-

Phase

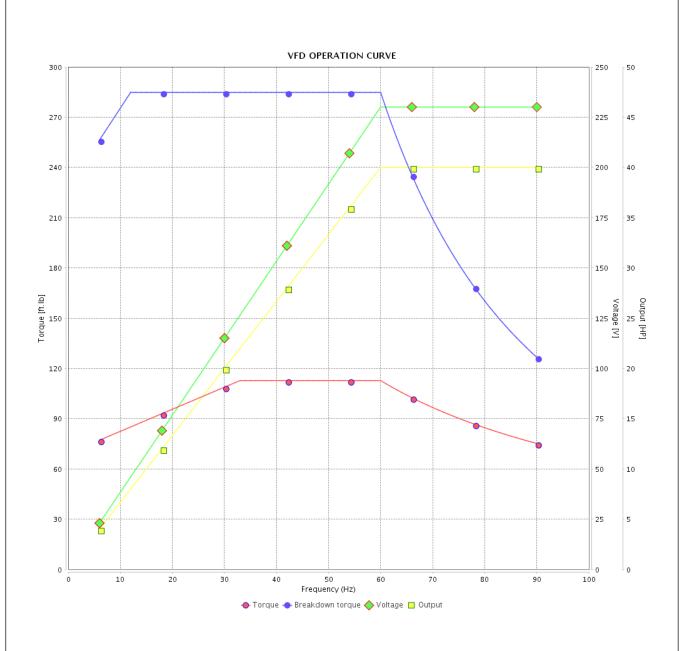
Product code: 12447129

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Performance	:	: 230/460 V 60 Hz 4	<b>1</b> P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	ue le	: 94.2/47.1 A : 6.1 : 119 ft.lb : 229 % : 240 % : 1770 rpm	Du Ins Se Ter	oment of uty cycle sulation ervice fac mperatu esign	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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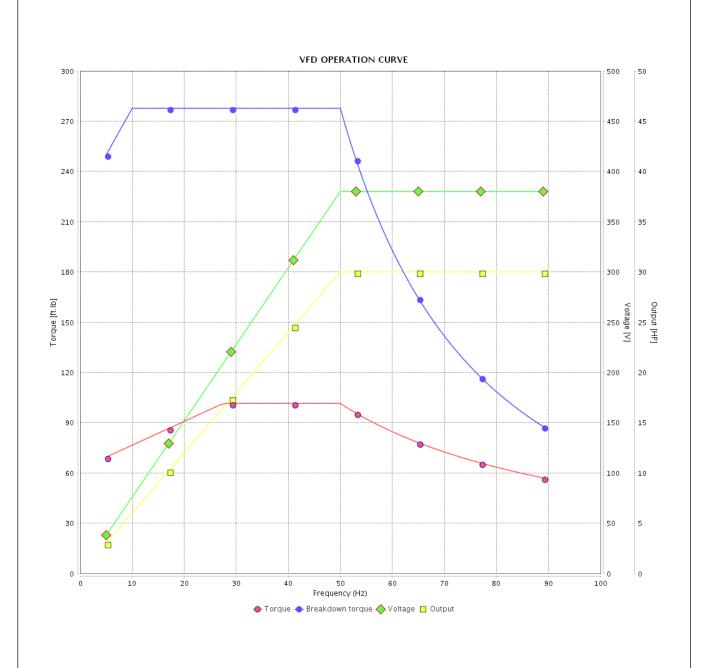
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447129

Catalog #: 04018ET3E324TC-W22



Performance	: 3	880 V 50 Hz 4P IE3	) V 50 Hz 4P IE3			
Rated current	ted current : 42.8 A M		Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6	6.6	Duty cycle	)	: Cont.(S1)	
Rated torque	: 1	07 ft.lb	Insulation	class	: F	
Locked rotor torqu	gue : 240 % Service factor		ctor	: 1.00		
Breakdown torque		260 %	Temperati	Temperature rise		
Rated speed : 147		475 rpm	Design		: B	
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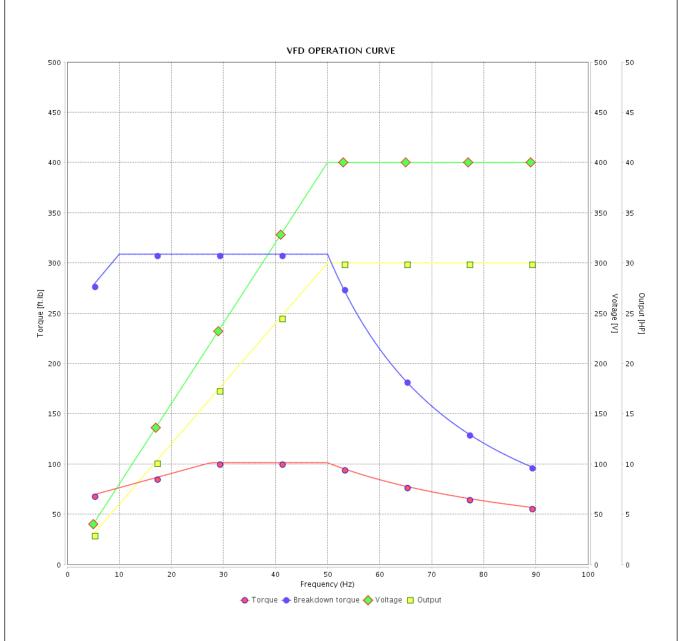
Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 12447129

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.6 A : 7.3 : 106 ft.lb : 270 % : 290 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage

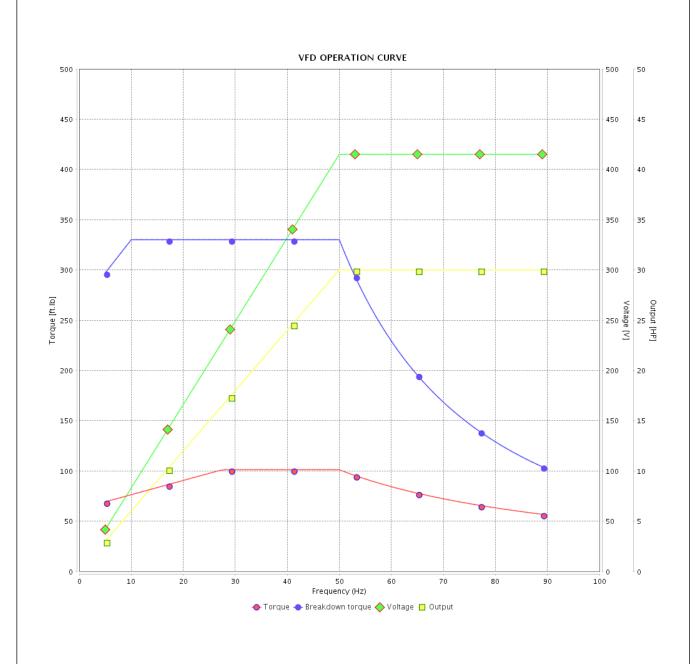


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447129

Phase

Catalog #: 04018ET3E324TC-W22



Performance	. 1	15 V 50 Hz 4P IE3				
renomance	. 4	13 V 30 112 4F 1E3	3 V 30 HZ 4F IE3			
Rated current	: 4	1.1 A	Moment of	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 7.	.7	Duty cycle	<b>!</b>	: Cont.(S1)	
Rated torque	: 10	06 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 28	80 %	Service fa	ctor	: 1.00	
Breakdown torque	Breakdown torque : 310 %		Temperati	Temperature rise		
Rated speed		480 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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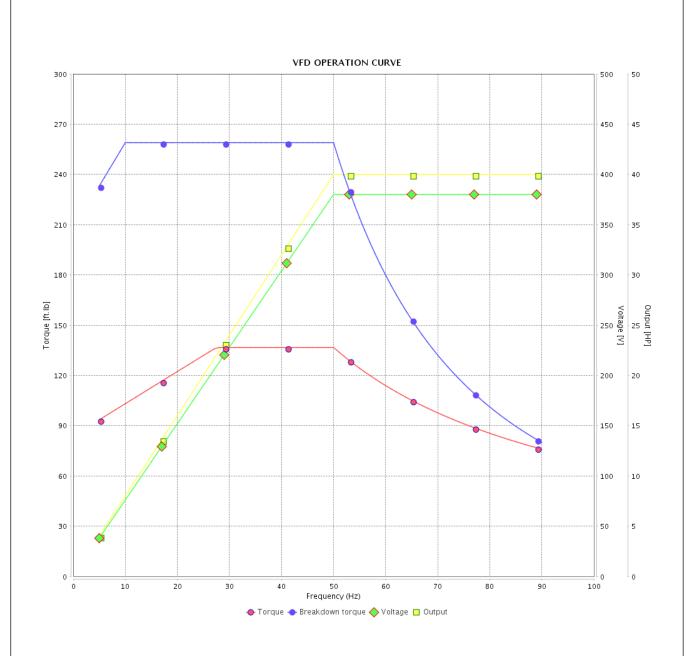
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 38	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 14 que : 17 ie : 18	7.4 A 0 14 ft.lb 70 % 80 % 160 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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### Three Phase Induction Motor - Squirrel Cage

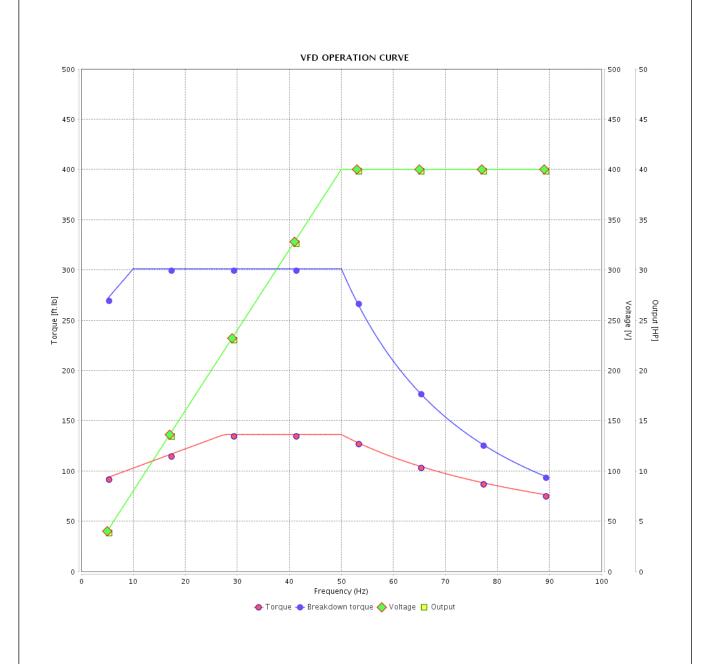


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447129

Phase

Catalog #: 04018ET3E324TC-W22



Danfarmana	. 4	00 V 50 H= 4D IF0							
Performance		: 400 V 50 Hz 4P IE2							
Rated current	: 54	4.1 A Moment of inertia (J)		f inertia (J)	: 9.16 sq.ft.lb				
LRC	: 5	: 5.6 Duty cyc : 143 ft.lb Insulation		<b>;</b>	: Cont.(S1)				
Rated torque	: 14			class	: F				
Locked rotor torqu	ue : 19	90 %	Service fa	Service factor					
Breakdown torque	e : 2	10 %	Temperature rise		: 105 K				
Rated speed	: 14	: 1465 rpm			: B				
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

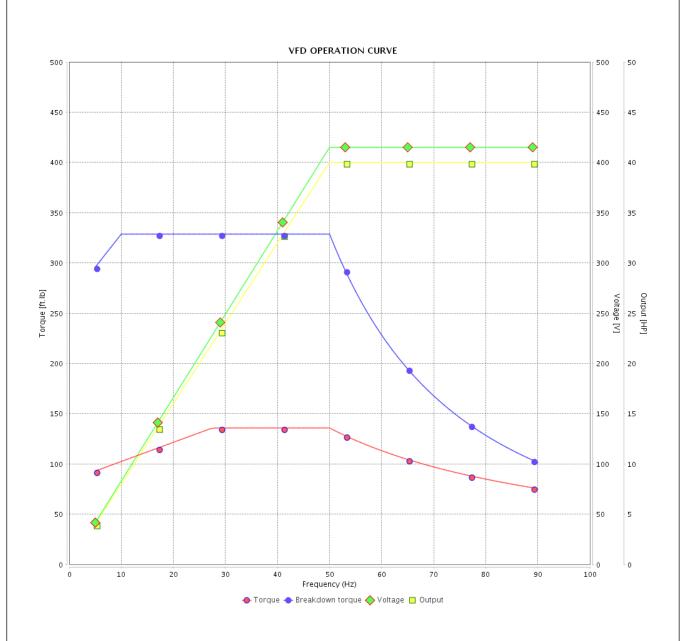
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12447129

Catalog #: 04018ET3E324TC-W22

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Performance	: 415 V 50 Hz 4P IE2							
Rated current	: 52.8 A	Moment of inertia (J)		: 9.16 sq.ft.lb				
LRC	: 6.0	Duty cycle		: Cont.(S1)				
Rated torque	: 143 ft.lb Insulation class			:F				
Locked rotor torque	: 210 %	Service factor		: 1.00				
Breakdown torque	: 229 %	Temperature rise		: 80 K				
Rated speed	: 1470 rpm	Design		: B				
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