### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11625473

Phase

Catalog #: 04018ET3ER324TC-W22

Frame : 324TC 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> : 567 lb

/ tititude		. 1000 III.a.	J.I.	/ \ppiox	. weigit	. 0	07 10	
Protection degre	е	: IP55		Momer	nt 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	57.4	52.8
L. R. Amperes [A]		575/287	282	304	316	287	287	317
LRC [A]		6.1x(Code	6.6x(Code H)	7.3x(Code J)	7.7x(Code J)	5.0x(Code E)	5.0x(Code E)	6.0x(Code
		G)						G)
No load current [A	.]	34.0/17.0	16.8	17.3	18.6	16.8	16.8	18.6
Rated speed [RPI	Л]	1770	1475	1480	1480	1460	1460	1470
Slip [%]		1.67	1.67	1.33	1.33	2.67	2.67	2.00
Rated torque [ft.lb]	]	118	107	106	106	144	144	143
Locked rotor torqu	ie [%]	229	240	270	280	170	170	210
Breakdown torque	: [%]	240	260	290	310	180	180	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)	25s (cold)	27s (cold)	27s (cold)	25s (cold)	25s (cold)	27s (cold)
		20s (hot)	14s (hot)	15s (hot)	15s (hot)	14s (hot)	14s (hot)	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%	93.4	92.8	92.1	91.1	94.0	94.0	92.8
Efficiency (%) 50% 75%		93.6	92.9	92.4	91.7	93.6	93.6	93.0
		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	92.4	93.0
	25%	0.46	0.43	0.40	0.38	0.53	0.53	0.47
Power Factor	50%	0.72	0.68	0.64	0.62	0.78	0.78	0.72

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

0.75

0.82

0.73

0.80

Bearing type : 6312 C3 6212 C3 Max. traction : 978 lb Sealing : V'Ring V'Ring Max. compression : 1545 lb

0.78

0.84

Lubrication interval : 14000 h 15000 h Lubricant amount : 21 g 13 g Lubricant type : Mobil Polyrex EM

0.80

0.85

Notes

Power Factor

USABLE @208V 104A SF 1.15 SFA 120A

75%

100%

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

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

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

0.84

0.86

0.84

0.86

0.80

0.85

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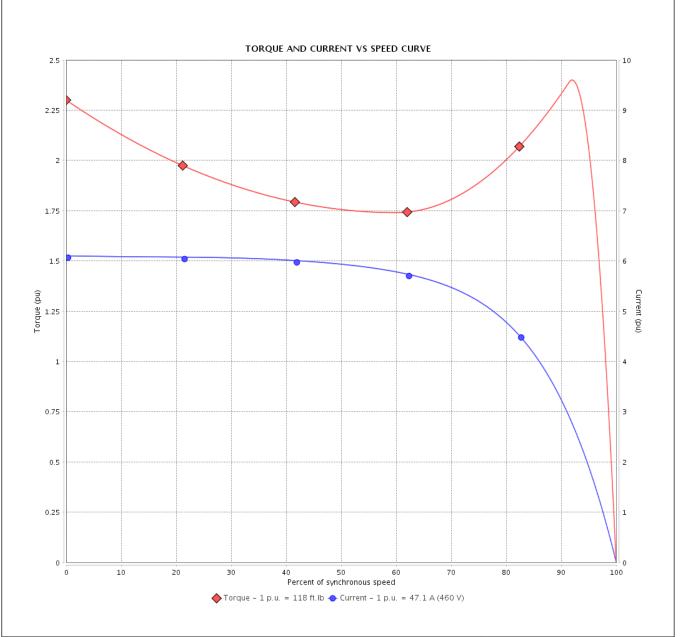
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11625473

Phase



Performance	: 230/460 V 60 Hz 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 94.2/47.1 A : 6.1 : 118 ft.lb : 229 % : 240 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : 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: 11625473 Catalog #: 04018ET3ER324TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3

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

Percent of synchronous speed ◆ Torque - 1 p.u. = 107 ft.lb ◆ Current - 1 p.u. = 42.8 A (380 V)

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

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#### Three Phase Induction Motor - Squirrel Cage



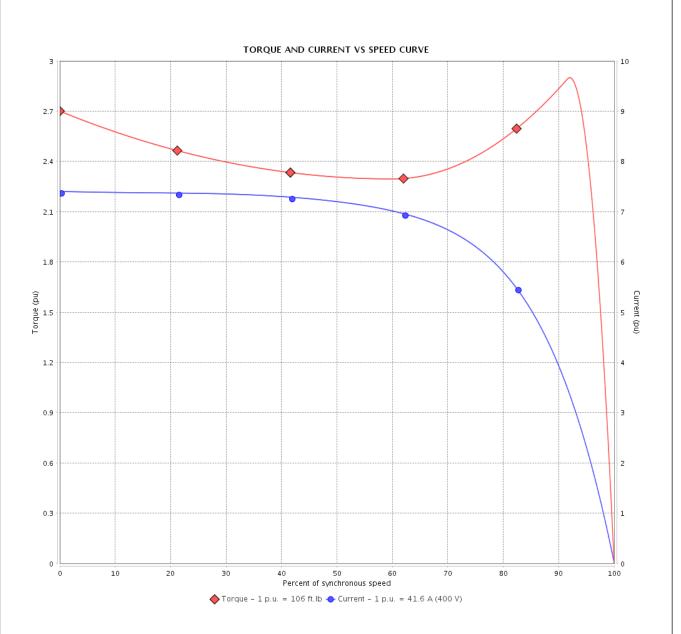
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04018ET3ER324TC-W22

11625473



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) Insulation class Rated torque : 106 ft.lb : 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)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11625473 Catalog #: 04018ET3ER324TC-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

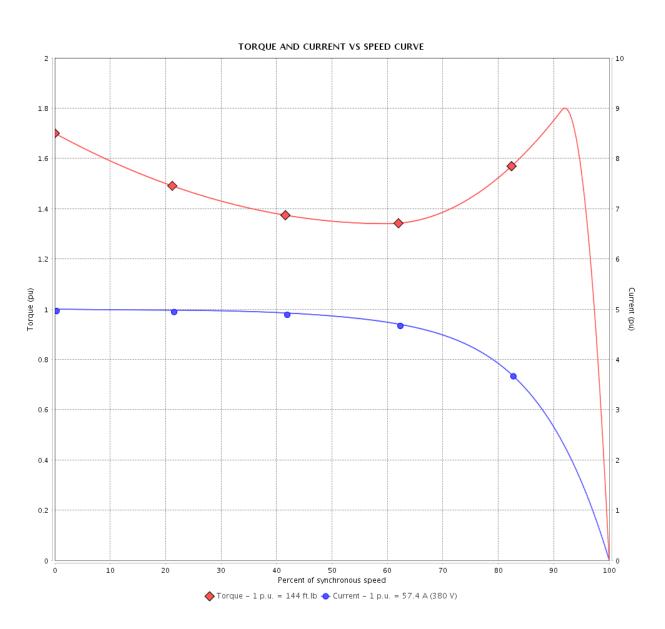


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11625473

Phase

Catalog #: 04018ET3ER324TC-W22



Performance	: 380 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.4 A : 5.0 : 144 ft.lb : 170 % : 180 % : 1460 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	

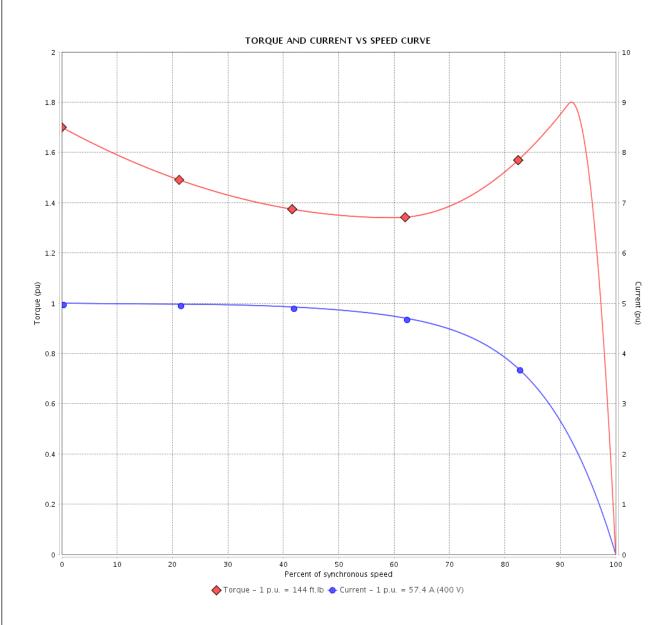
Locked rotor time : 25s (cold) 14s (hot)

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### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11625473



Performance	: 400 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)	
Rated torque	: 144 ft.lb	Insulation class	: F	
Locked rotor torque	: 170 %	Service factor	: 1.00	
Breakdown torque	: 180 %	Temperature rise	: 105 K	
Rated speed	: 1460 rpm	Design	: B	
Locked rotor time	: 25s (cold) 14s (hot)			

LOCKCU TOLOT LITTLE	. 2	33 (COId) 143 (HOL)			
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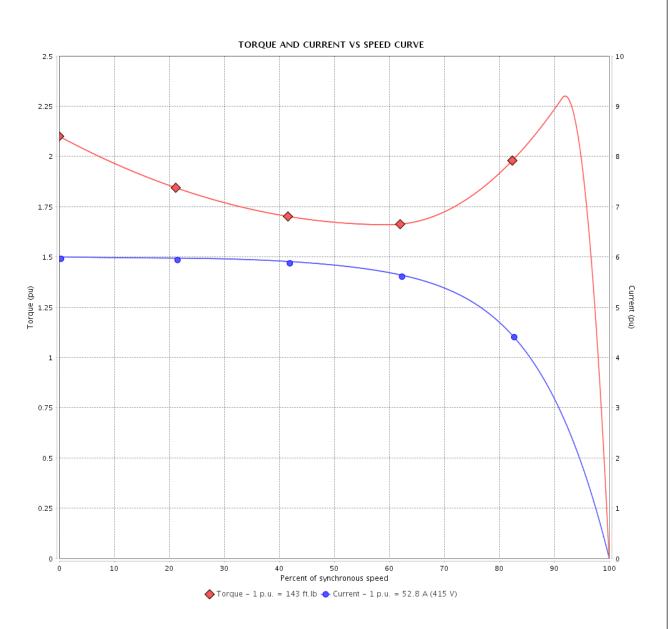


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11625473

Phase

Catalog #: 04018ET3ER324TC-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) Insulation class Rated torque : 143 ft.lb : 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)

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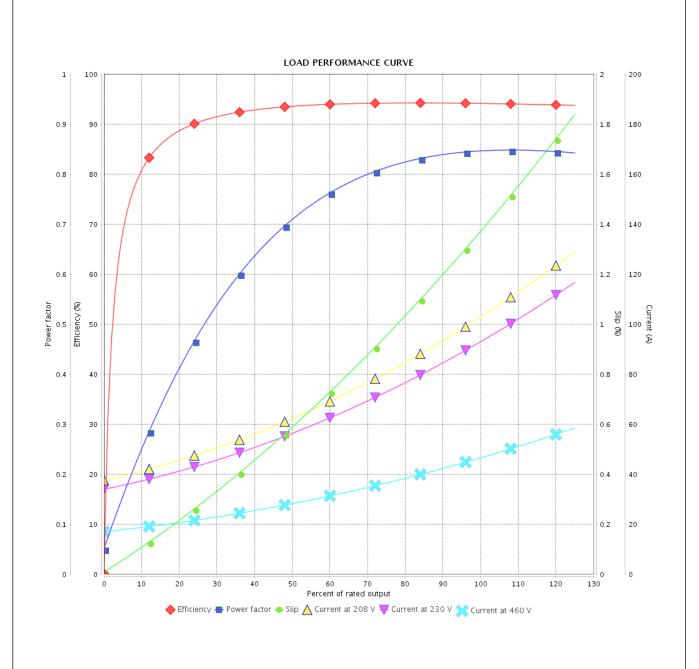
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11625473

Phase



Performance	:	230/460 V 60 Hz 4P				
Rated current	:	94.2/47.1 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	:	6.1	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	118 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	229 %	Service fa	ctor	: 1.25	
Breakdown torque	:	240 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1770 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

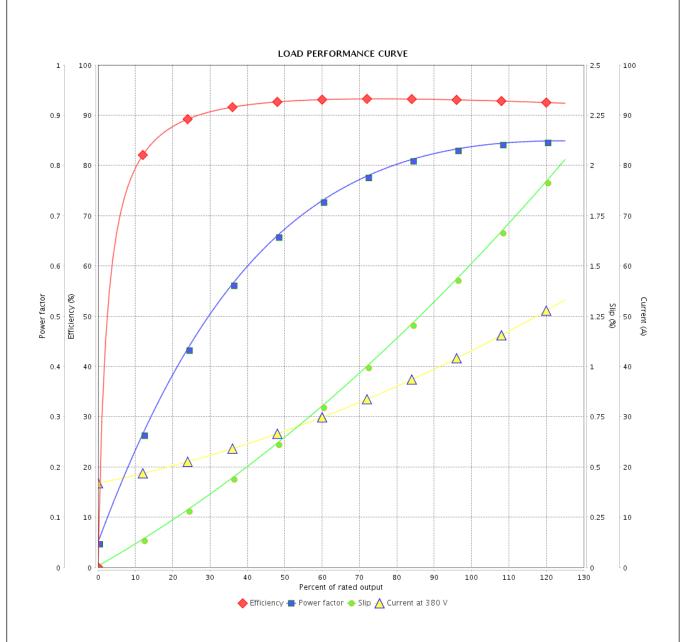
Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11625473

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Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 42.8 A	Moment of in	nertia (J)	: 9.16 sq.ft.lb	
LRC	: 6.6	Duty cycle		: Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation cl	ass	: F	
Locked rotor torque	: 240 %	Service factor	or	: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 1475 rpm	Design		: B	
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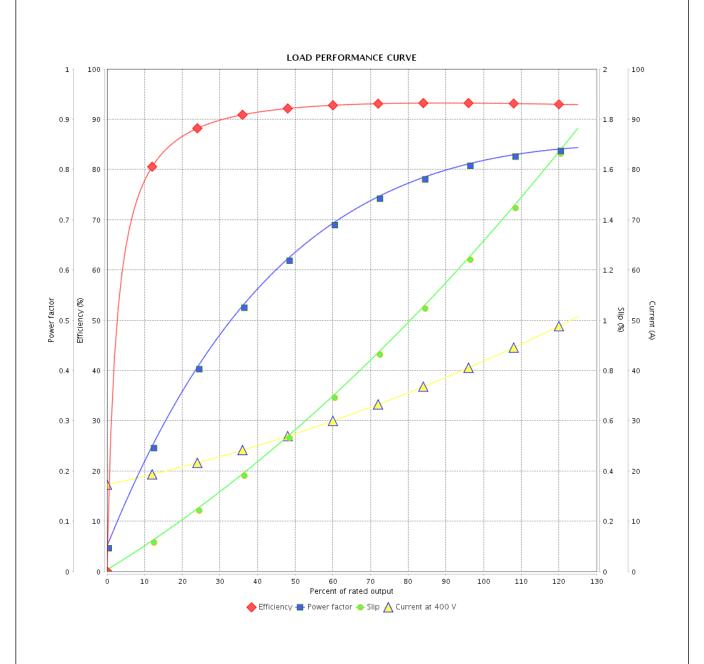
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11625473

Phase



Performance	: 4	400 V 50 Hz 4P IE3				
Rated current	ated current : 41.6 A		Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC : 7.3		7.3	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque		106 ft.lb	Insulation	class	: F	
Locked rotor torque		270 %	Service fa	ctor	: 1.00	
Breakdown torque	: : :	290 %	Temperati	Temperature rise :		
Rated speed	: '	1480 rpm	Design		: B	
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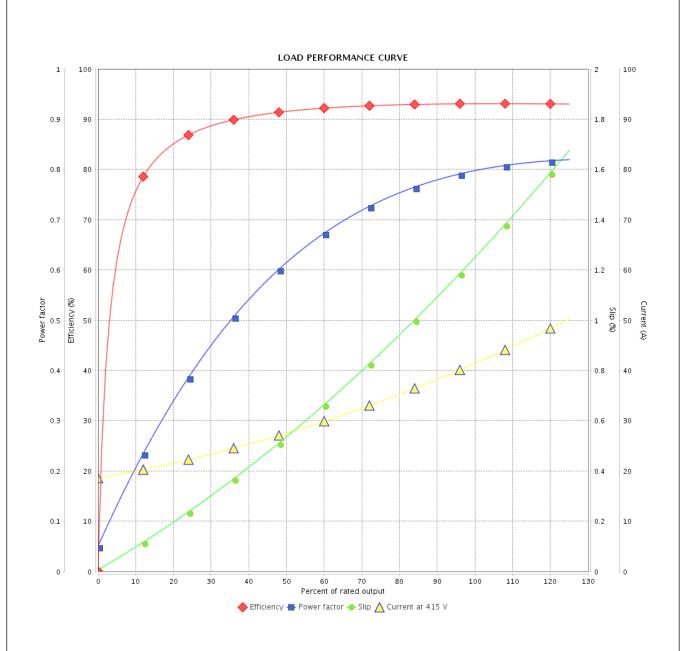


Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11625473



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 10 que : 20 ue : 3	1.1 A .7 06 ft.lb 80 % 10 % 480 rpm	Moment of Duty cycle Insulation Service far Temperation Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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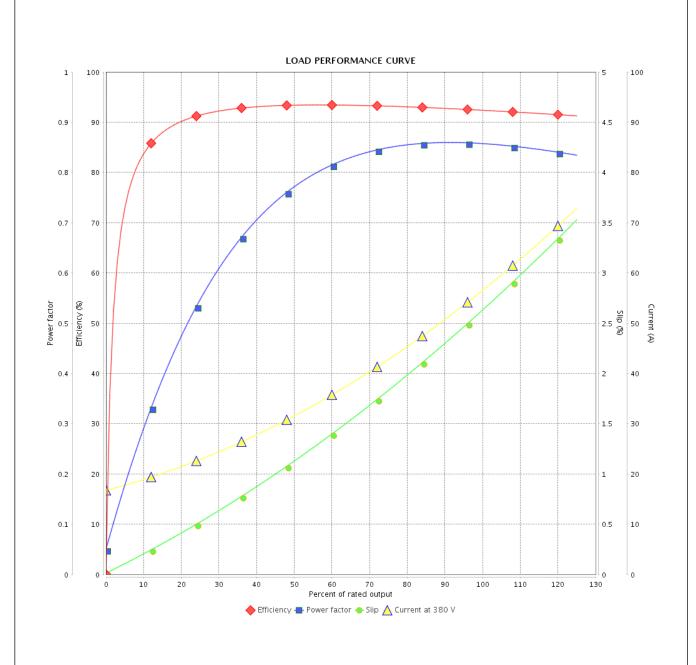
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11625473

Phase



Performance	: 3	880 V 50 Hz 4P IE2					
Rated current	ated 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		70 %	Service fa	Service factor :		: 1.00	
Breakdown torque	: 1	80 %	Temperati	Temperature rise : 105 K			
Rated speed	: 1	460 rpm	Design		: B		
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### Three Phase Induction Motor - Squirrel Cage



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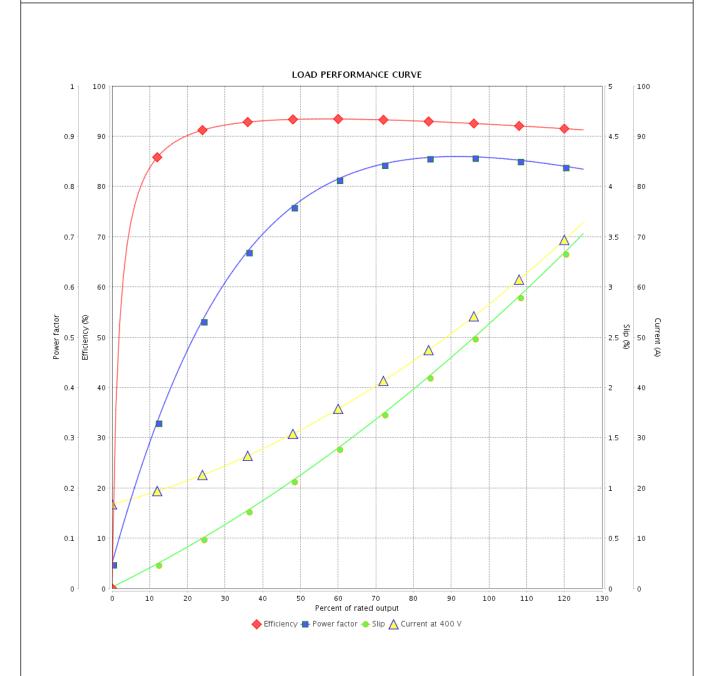
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Phase

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				,	
Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.4 A : 5.0 : 144 ft.lb : 170 % : 180 % : 1460 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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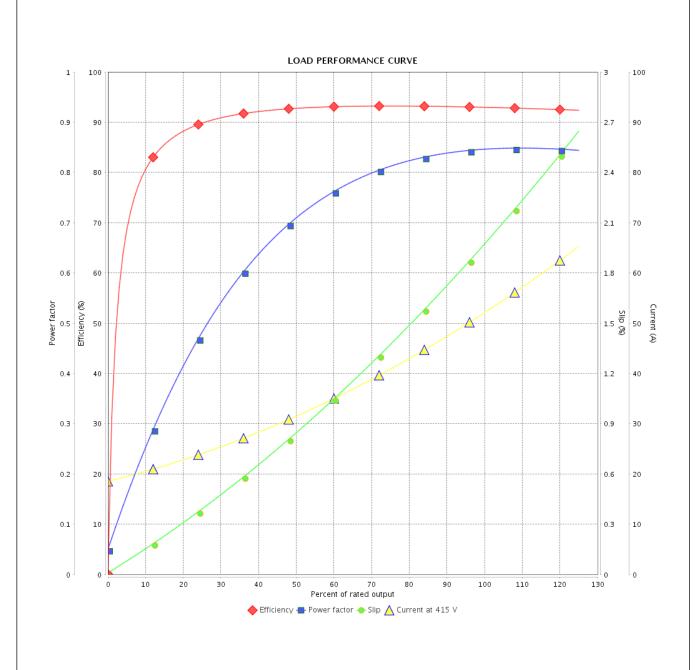
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11625473

Phase



Performance	:	415 V 50 Hz 4P IE2				
Rated current		52.8 A	Moment o	f 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	e :	210 %	Service fa	ctor	: 1.00	
Breakdown torque	:	229 %	Temperati	Temperature rise : 80 K		
Rated speed	:	1470 rpm	Design		: B	
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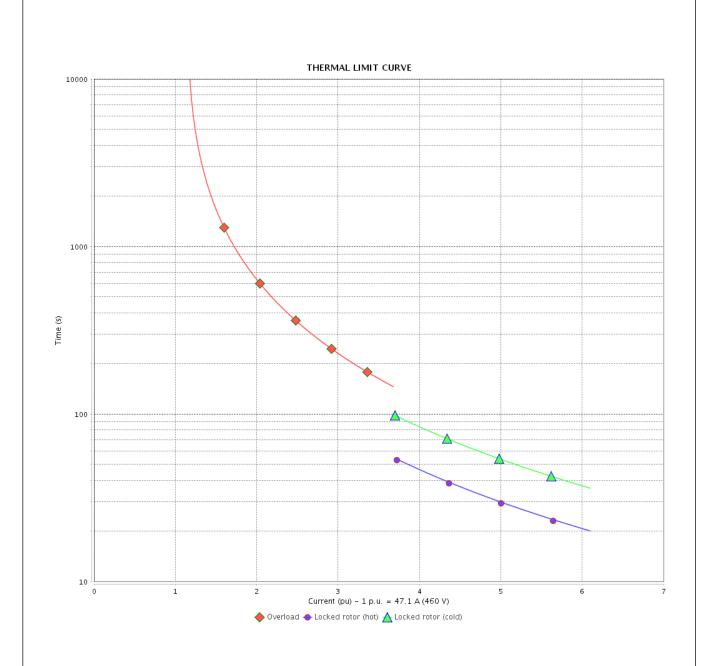


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Product line		NEMA Premium Efficiency	Three-	Product code :	11625473	
	P	hase		Catalog # :	04018ET3ER	324TC-W22
Performance		30/460 V 60 Hz 4P 4.2/47.1 A	Momento	finartia (I)	: 0.16 og ft lb	
Rated current LRC	: 6.	1	Duty cycle	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque		18 ft.lb 29 %	Insulation Service fa	class	: F : 1.25	
Breakdown torque	e : 24	40 %	Temperatu		: 80 K	
Rated speed	: 17	770 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summani		Performed	Checked	Date
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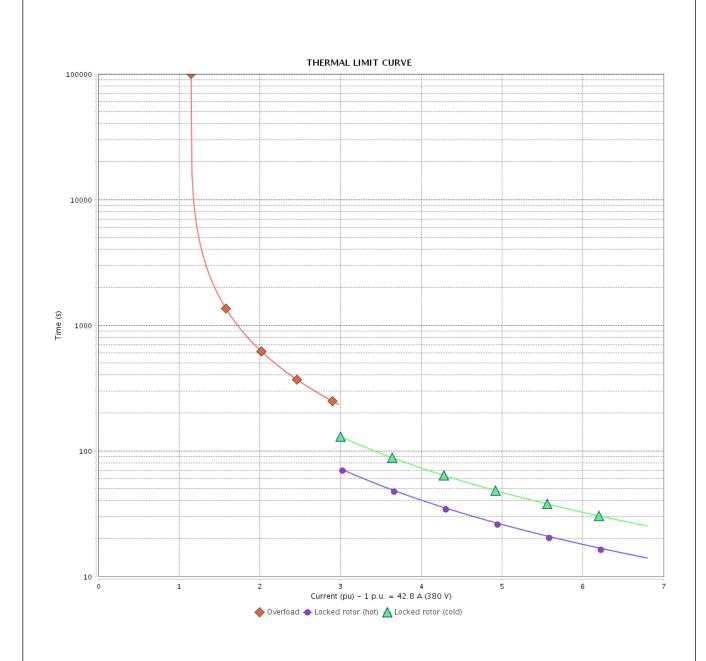


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11625473	
		Tildac		Catalog # :	04018ET3ER3	324TC-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 42.8 A		of inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque		: 6.6 : 107 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq	que	: 240 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		: 260 % : 1475 rpm	Temperati Design	ure rise	: 80 K : B	
		- · · · • · · · · · · · · · · · · · · ·	- 50.9"		· <del>-</del>	
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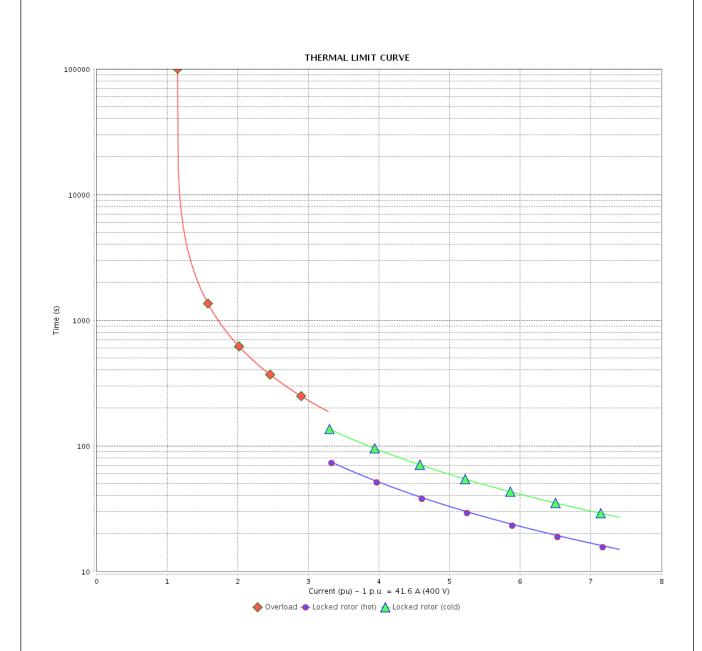


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Product line		NEMA Premium Efficiency	Three-	Product code :	11625473	
	P	hase		Catalog # :	04018ET3ER	324TC-W22
Performance		00 V 50 Hz 4P IE3				
Rated current LRC	: 4′ : 7.	1.6 A .3	Moment o  Duty cycle	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque	: 10	06 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		70 % 90 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		480 rpm	Design	2 <b>2</b>	: B	
Heating constant						
Cooling constant		01 0	1			
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

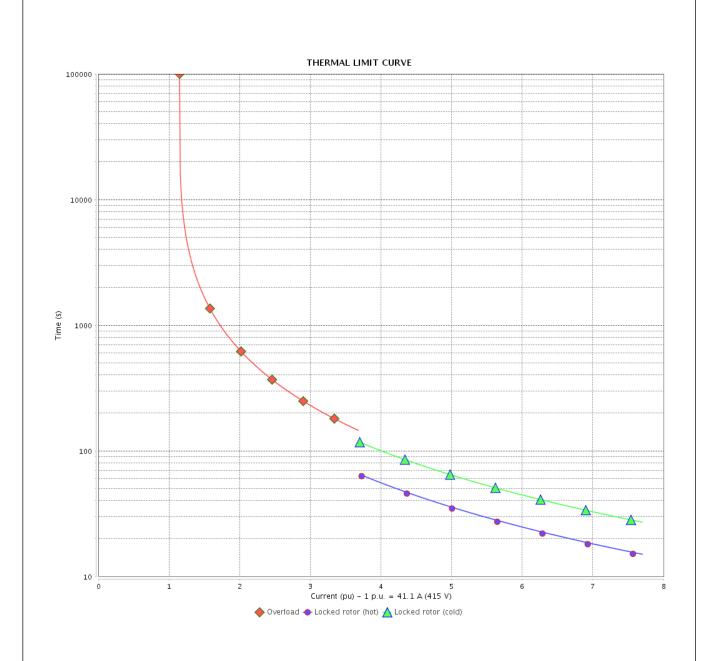


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11625473 04018ET3ER	324TC-W22
					04010210210	32410 WZZ
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC		: 41.1 A : 7.7	Moment of Duty cycle	of inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque		: 106 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 280 % : 310 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 1480 rpm	Design	a. 5 1100	: B	
Heating constan					,	
Cooling constant	t	01 0			<u> </u>	
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

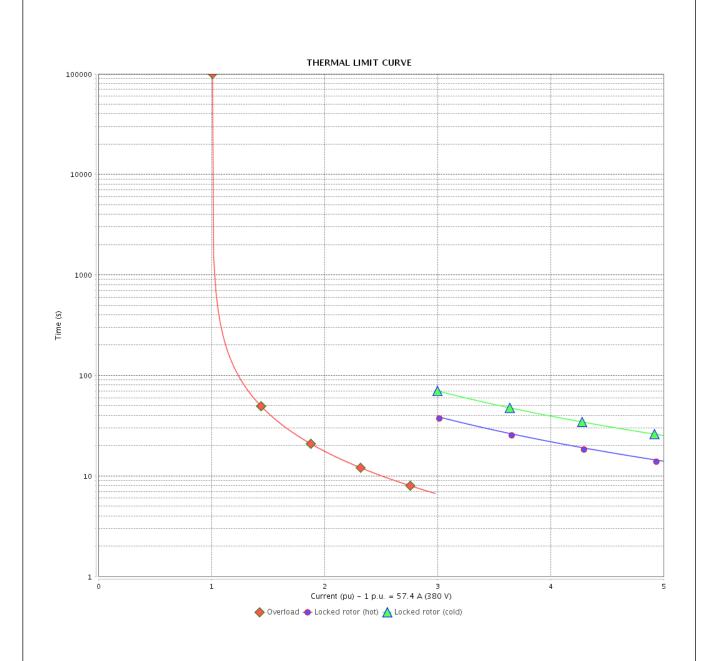


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11625473 04018ET3EF	324TC-W22
Performance		380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : que : ie :	57.4 A 5.0 144 ft.lb 170 % 180 % 1460 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

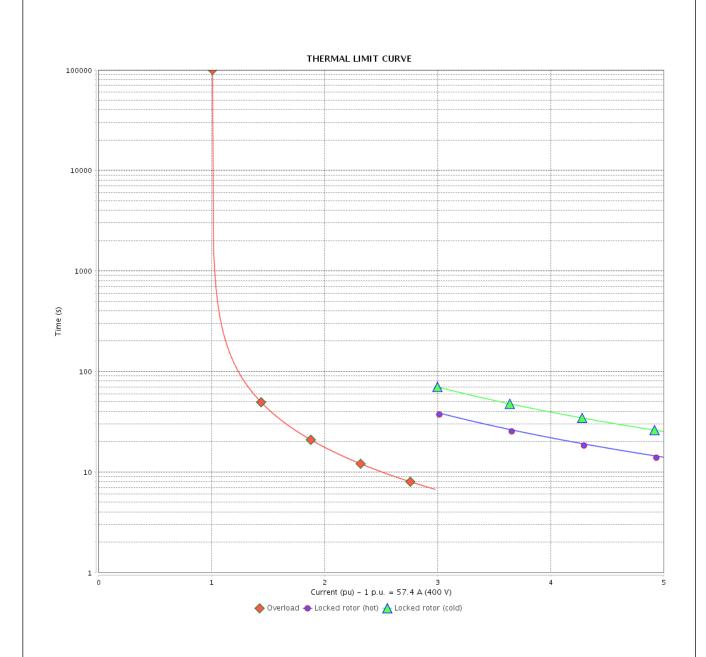


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11625473 04018ET3ER3	324TC-W22
Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC		: 57.4 A : 5.0	Moment of Duty cycle	of inertia (J) e	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 144 ft.lb : 170 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu		: 180 %	Temperat		: 105 K	
Rated speed		: 1460 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

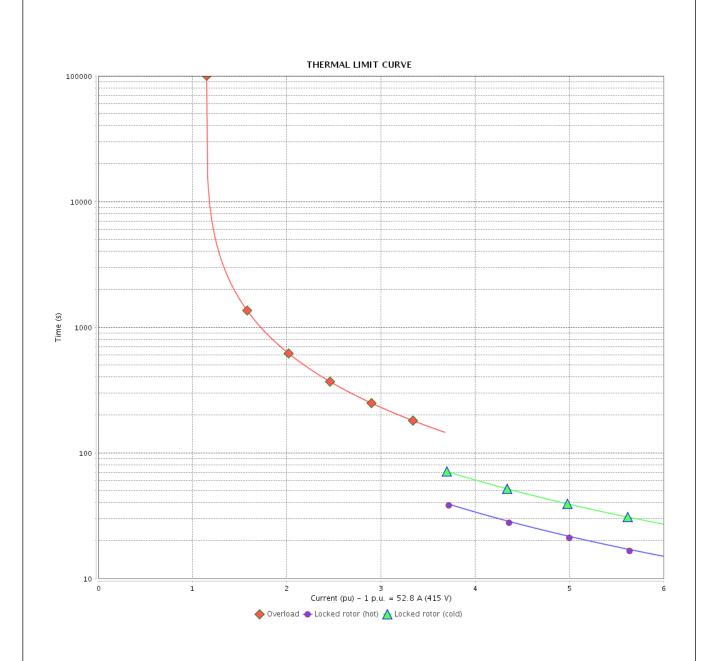


Customer	:					
Product line		NEMA Premium Efficiency <sup>-</sup> hase		Product code :	11625473	
			(	Catalog # :	04018ET3ER	324TC-W22
Performance		15 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6. : 1 <sup>4</sup> : 2 <sup>7</sup> : 22	2.8 A 0 43 ft.lb 10 % 29 % 470 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant  Rev.		Changes Summary	I	Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



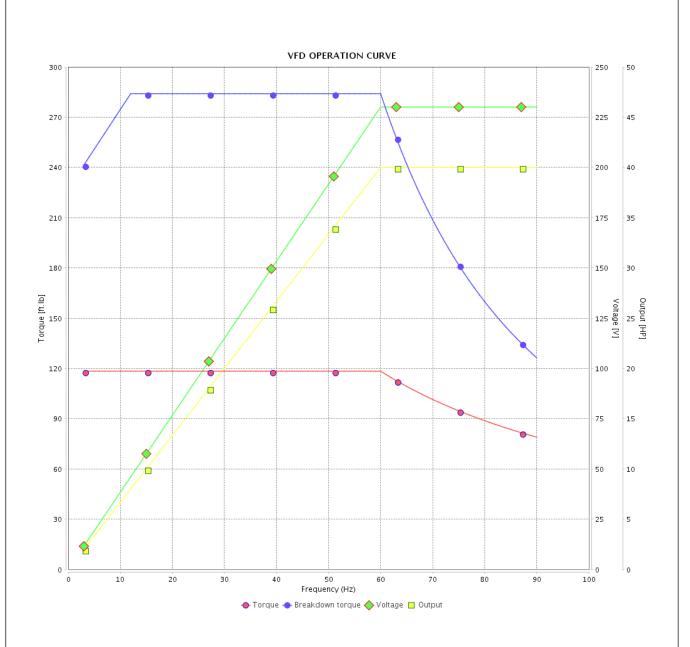
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11625473

Catalog #: 04018ET3ER324TC-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** Duty cycle : Cont.(S1) : 6.1 Insulation class : 118 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** 

### Three Phase Induction Motor - Squirrel Cage



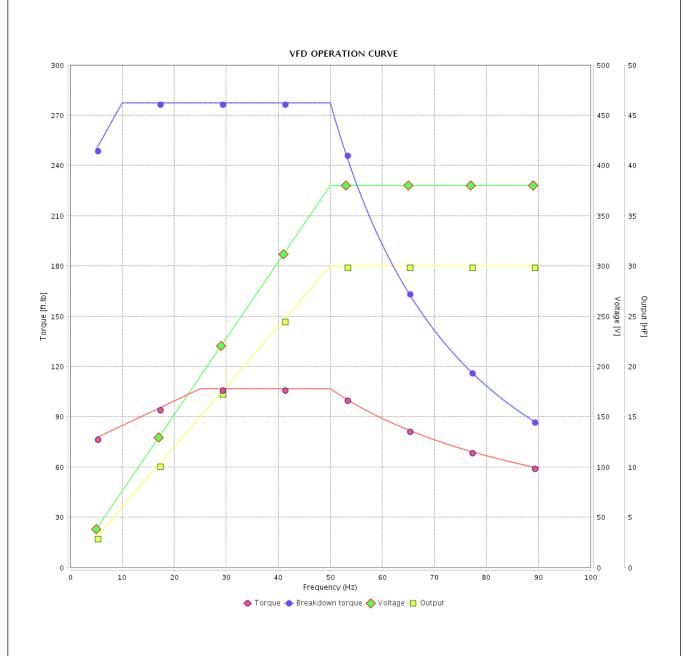
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11625473

Phase

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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 of 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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Date

### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

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Product line : NEMA Premium Efficiency Three-

Phase

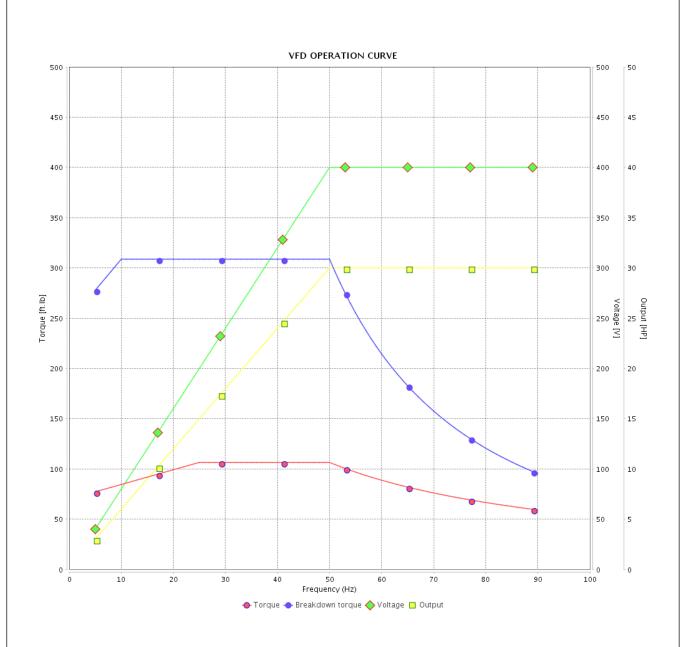
Product code: 11625473

Catalog #: 04018ET3ER324TC-W22

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Revision



: 40	00 V 50 Hz 4P IE3				
: 7. : 10  ue : 27	.3 06 ft.lb 70 % 90 %	Duty cycle Insulation Service fa	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	Changes Summary	'	Performed	Checked	Date
	: 4 : 7 : 1 que : 2 ue : 2	ie : 290 % : 1480 rpm	: 41.6 A : 7.3 : 106 ft.lb : 270 % : 290 % : 1480 rpm  Moment of Duty cycle Insulation Service fa	: 41.6 A  : 7.3  : 106 ft.lb  due  : 270 %  : 290 %  : 1480 rpm  Moment of inertia (J)  Duty cycle  Insulation class  Service factor  Temperature rise  Design	: 41.6 A       Moment of inertia (J)       : 9.16 sq.ft.lb         : 7.3       Duty cycle       : Cont.(S1)         : 106 ft.lb       Insulation class       : F         que       : 270 %       Service factor       : 1.00         ue       : 290 %       Temperature rise       : 80 K         : 1480 rpm       Design       : B

### Three Phase Induction Motor - Squirrel Cage



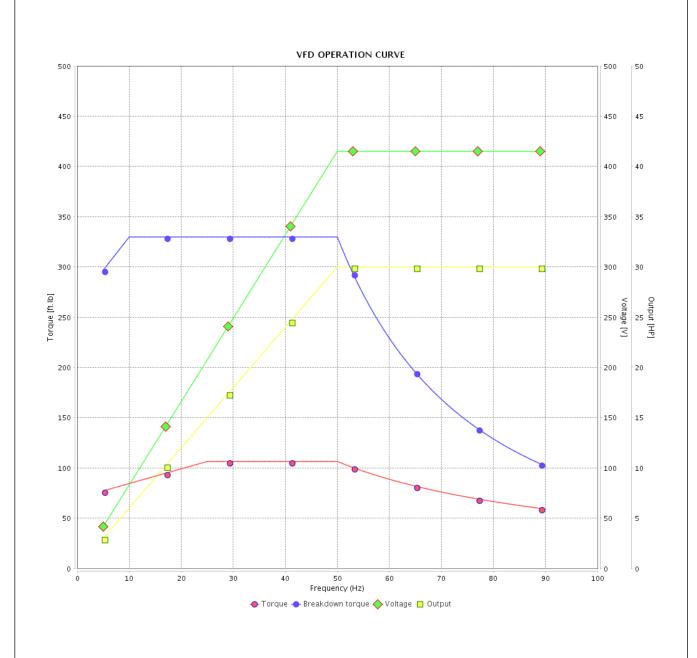
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11625473

Phase

Catalog #: 04018ET3ER324TC-W22

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.1 A : 7.7 : 106 ft.lb : 280 % : 310 % : 1480 rpm	Moment of inertia ( Duty cycle Insulation class Service factor Temperature rise Design	(J)	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



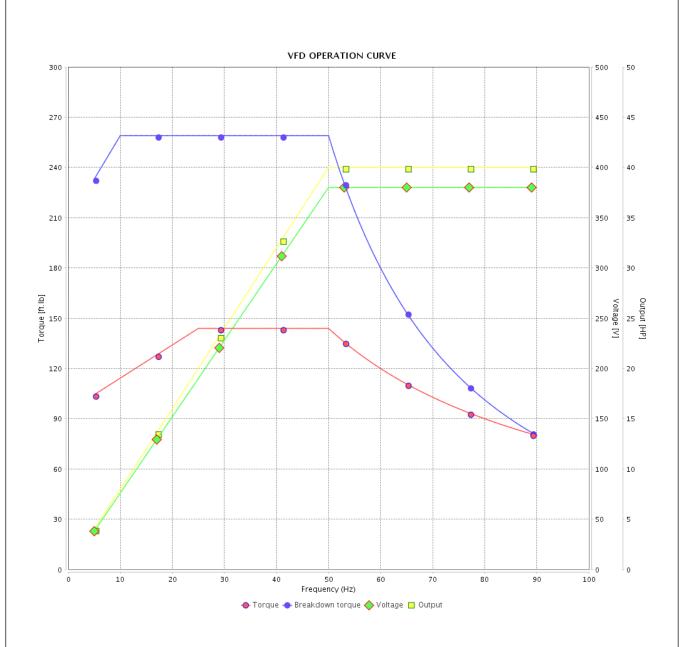
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11625473

Catalog #: 04018ET3ER324TC-W22



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

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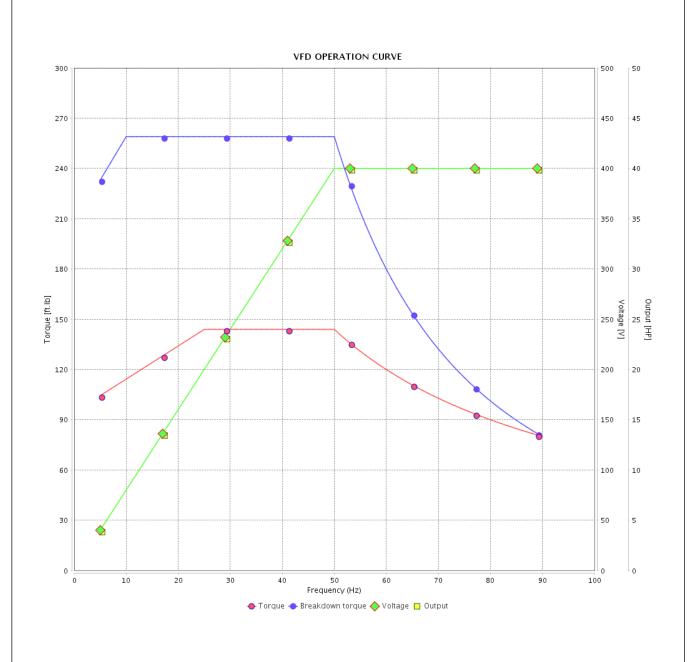
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11625473

Phase



Performance	: 4	100 V 50 Hz 4P IE2				
Rated current	: 5	: 57.4 A Momer		f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 5	5.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	144 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	170 %	Service fa	ctor	: 1.00	
Breakdown torque	:1	180 %	Temperati	ıre rise	: 105 K	
Rated speed	: 1	1460 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 11625473

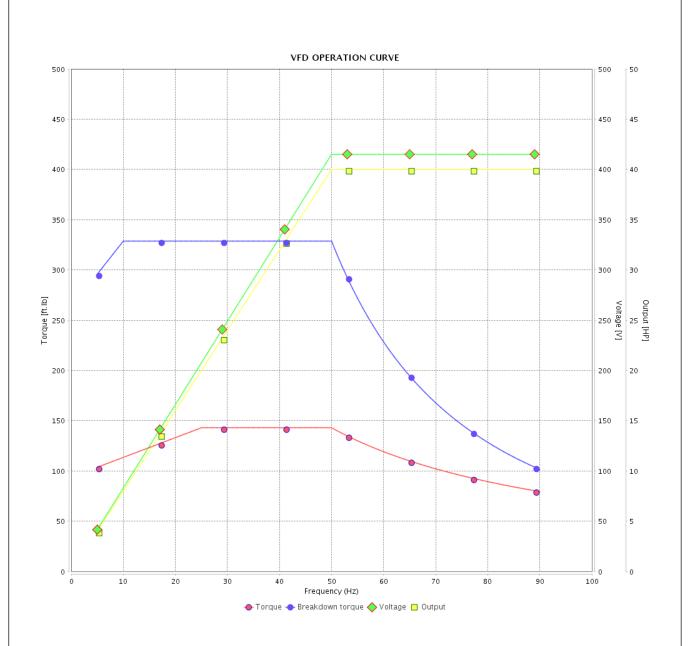
Phase

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

