### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14407933

Phase

Catalog #: 04018XT3ER324TC

Frame : 324TC Cooling method : IC411 - TEFC

Insulation class : F Mounting : W-6

Duty cycle : Cont.(S1) Rotation¹ : 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> : 653 lb

Dretestion degree		. 1000 III.a.s.i.		Approx. weight . 000 ib			
Protection degree		: IP55	Moment of ine	ertia (J)	sq.ft.lb		
Design		: B					
Output [HP]		40	40	40	40		
Poles		4	4	4	4		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		96.4/48.2	58.7	56.1	54.1		
L. R. Amperes [A]		742/371	364	387	400		
LRC [A]		7.7x(Code J)	6.2x(Code G)	6.9x(Code H)	7.4x(Code J)		
No load current [A	]	46.0/23.0	22.8	24.1	25.3		
Rated speed [RPM]		1780	1470	1475	1475		
Slip [%]		1.11	2.00	1.67	1.67		
Rated torque [ft.lb]		118	143	142	142		
Locked rotor torque [%]		270	200	229	250		
Breakdown torque [%]		300	210	240	260		
Service factor		1.15	1.00	1.00	1.00		
Temperature rise		80 K	80 K	80 K	80 K		
Locked rotor time		34s (cold) 19s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)	45s (cold) 25s (hot)		
Noise level <sup>2</sup>		71.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)		
	25%	92.8	93.4	92.9	92.7		
Efficiency (%)	50%	93.0	93.0	93.0	92.4		
Linciency (70)	75%	94.1	93.0	93.0	93.6		
	100%	94.1	92.4	93.0	93.0		
	25%	0.39	0.45	0.42	0.39		
Power Factor	50%	0.66	0.72	0.68	0.66		
	75%	0.77	0.81	0.79	0.77		

Drive end Non drive end Foundation loads

0.84

Bearing type : 6312 C3 6212 C3 Max. traction : 1094 lb Sealing : Oil Seal Lip Seal Max. compression : 1747 lb

12541 h

0.83

11307 h

Lubricant amount : 21 g 13 g Lubricant type : Mobil Polyrex EM

Notes

Lubrication interval

USABLE @208V 107A SF 1.00 SFA 107A

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.

0.83

0.83

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## DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer	
Customer	

#### Thermal protection

		•		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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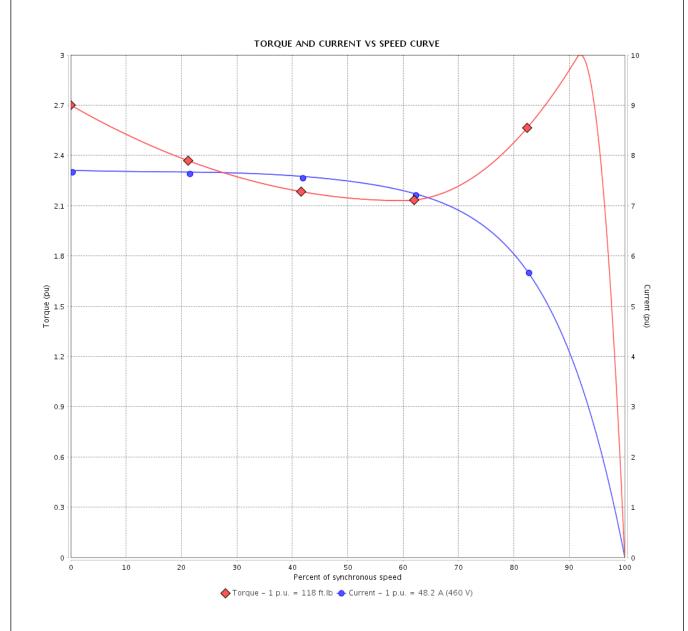


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14407933

Phase

Catalog #: 04018XT3ER324TC



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 96.4/48.2 A	Moment of inertia (J)	: 8.17 sq.ft.lb
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 118 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B
Locked rotor time	: 34s (cold) 19s (hot)		

Locked rotor time : 34s (cold) 19s (hot)

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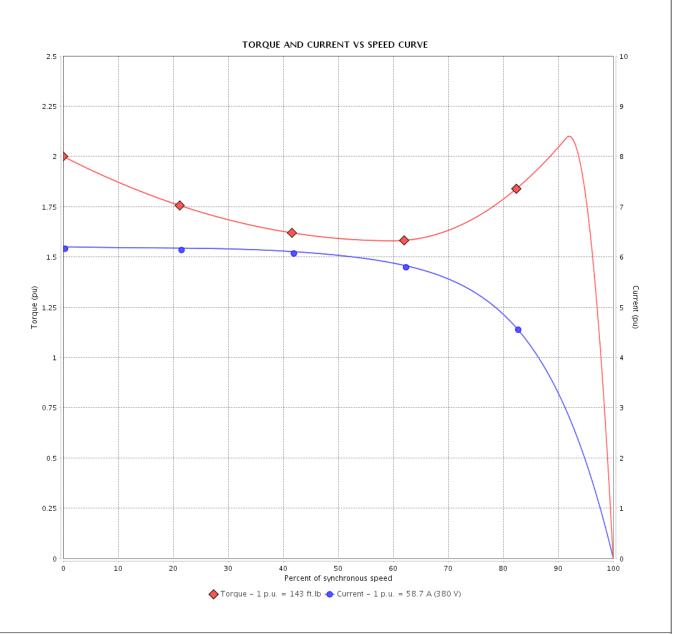
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14407933

Catalog #: 04018XT3ER324TC



Performance : 380 V 50 Hz 4P IE2 Rated current : 58.7 A Moment of inertia (J) : 8.17 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 143 ft.lb : F Service factor Locked rotor torque : 200 % : 1.00 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B

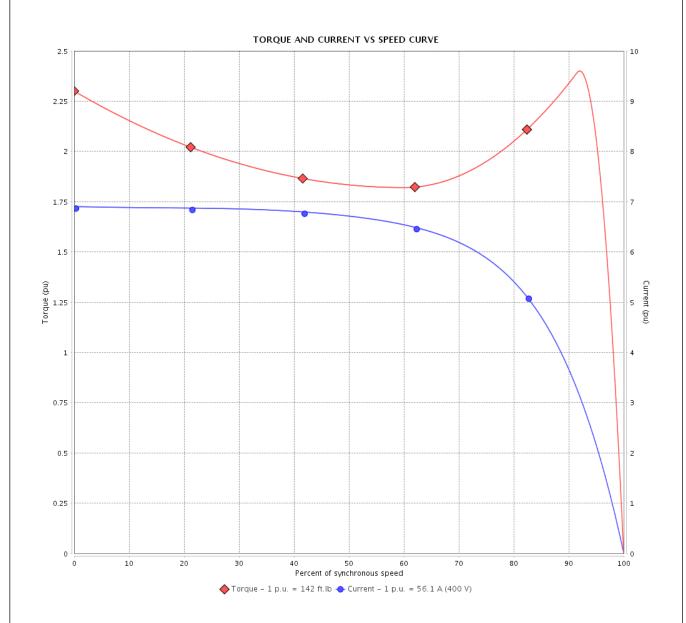
Locked rotor time : 45s (cold) 25s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14407933 Catalog #: 04018XT3ER324TC



Performance : 400 V 50 Hz 4P IE2 Rated current : 56.1 A Moment of inertia (J) : 8.17 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Rated torque : 142 ft.lb Insulation class : F : 229 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 240 % Temperature rise : B Rated speed : 1475 rpm Design Locked rotor time : 45s (cold) 25s (hot)

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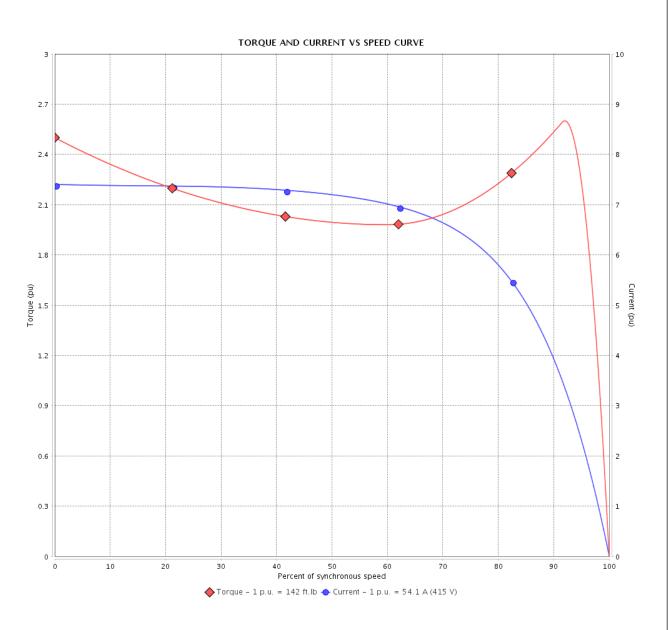
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14407933

Catalog #: 04018XT3ER324TC



: 415 V 50 Hz 4P IE2 Performance Rated current : 54.1 A Moment of inertia (J) : 8.17 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 142 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B

Locked rotor time : 45s (cold) 25s (hot)

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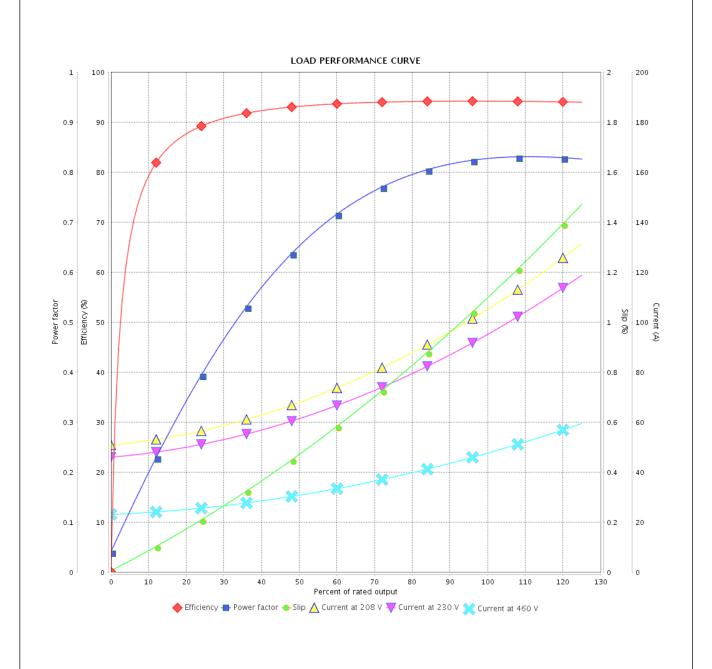


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14407933

Phase

Catalog #: 04018XT3ER324TC



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: 9	96.4/48.2 A	Moment o	f inertia (J)	: 8.17 sq.ft.lb	
LRC	: 7	7.7	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	118 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	270 %	Service fa	ctor	: 1.15	
Breakdown torque	: ;	300 %	Temperature rise		: 80 K	
Rated speed	: '	1780 rpm	Design		: B	
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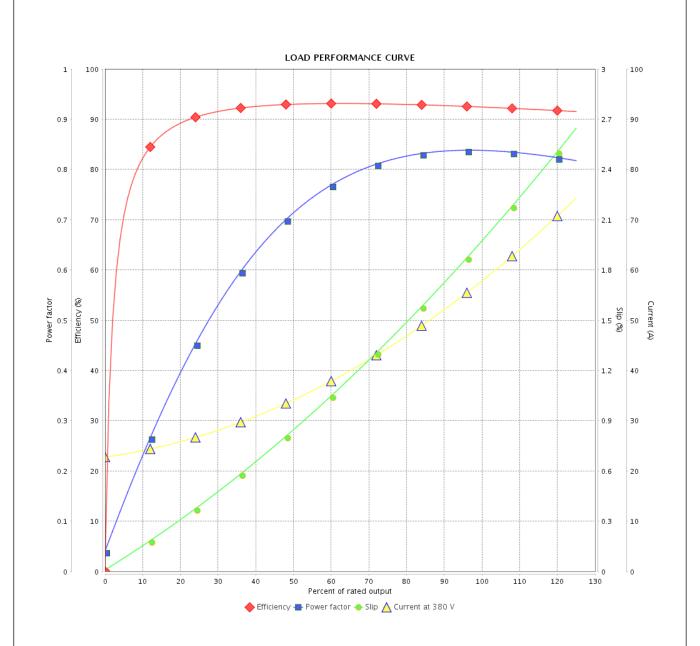
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04018XT3ER324TC

14407933



Performance : 380 V 50 Hz 4P IE2 Rated current : 58.7 A Moment of inertia (J) : 8.17 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 : 143 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage

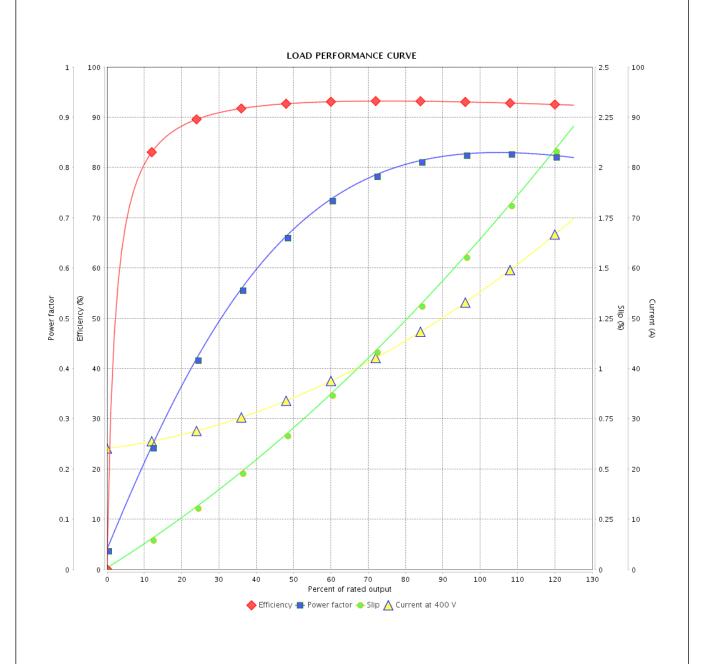


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14407933

Phase

Catalog #: 04018XT3ER324TC



Performance	:	400 V 50 Hz 4P IE2				
Rated current	:	56.1 A	Moment o	f inertia (J)	: 8.17 sq.ft.lb	
LRC	:	6.9	Duty cycle	)	: Cont.(S1)	
Rated torque	:	142 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	229 %	Service fa	ctor	: 1.00	
Breakdown torque	:	240 %	Temperati	Temperature rise		
Rated speed	:	1475 rpm	Design		: B	
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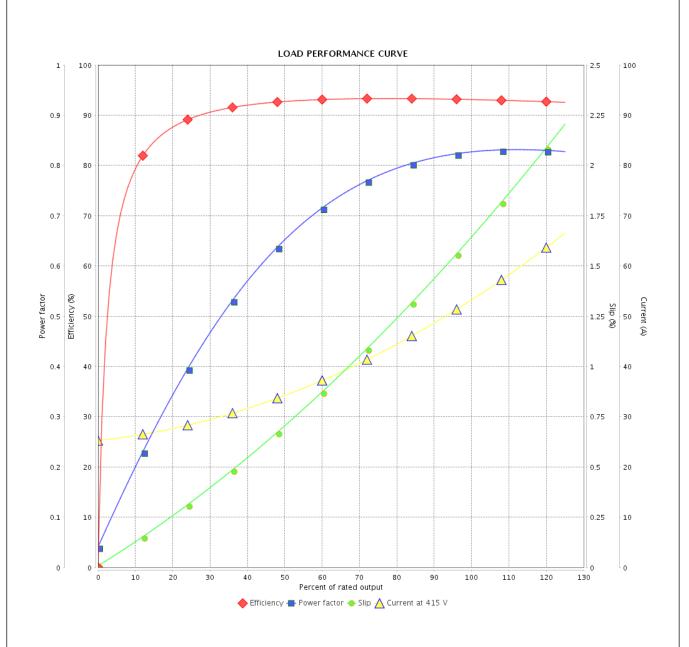
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14407933

Catalog #: 04018XT3ER324TC



Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 54.1 A : 7.4 : 142 ft.lb : 250 % : 260 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 8.17 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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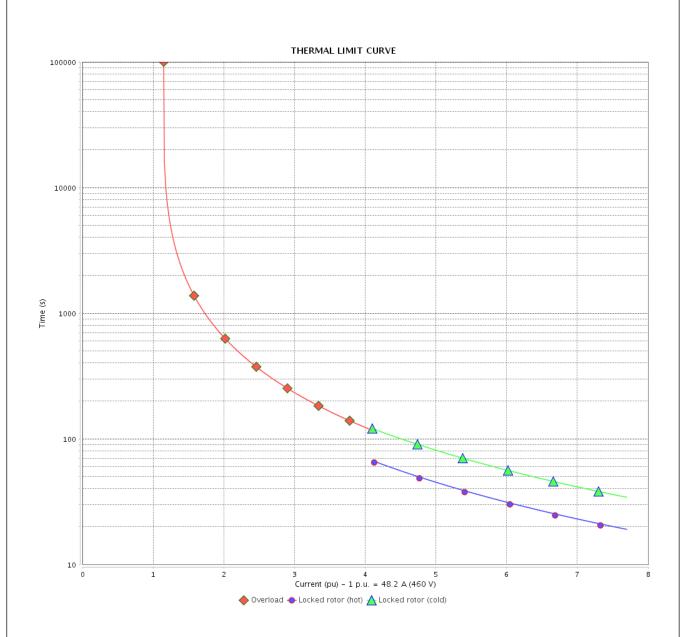


Customer	:					
Product line		NEMA Premium Efficiency <sup>-</sup> hase		Product code : Catalog # :	14407933 04018XT3EF	R324TC
Performance Rated current LRC Rated torque Locked rotor tord	: 96 : 7. : 11	30/460 V 60 Hz 4P 6.4/48.2 A .7 18 ft.lb 70 %	Moment of Duty cycle Insulation Service fa	class	: 8.17 sq.ft.lb : Cont.(S1) : F : 1.15	
Breakdown torqu Rated speed	ue : 30 : 17	00 % 780 rpm	Temperat Design		: 80 K : B	
Heating constant						
Cooling constant		Changes Summary		Performed	Checked	Date
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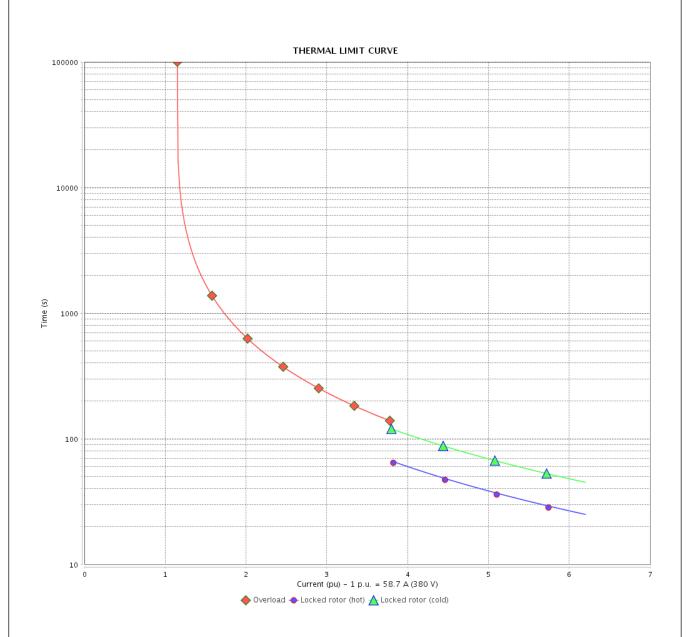


Customer	:					
Product line	: I P	NEMA Premium Efficiency hase		Product code : Catalog # :	14407933 04018XT3EF	R324TC
Performance	: 38	80 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 58 : 6. : 14 que : 20 ue : 2	8.7 A	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 8.17 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
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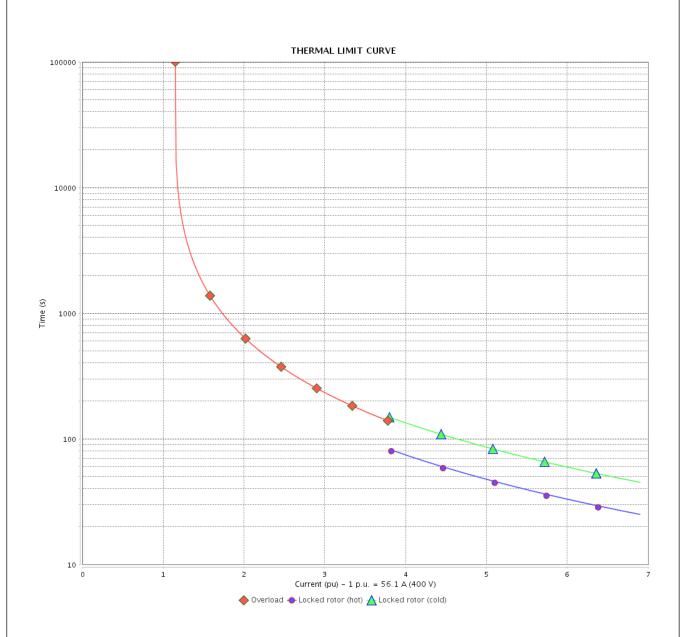


Customer	:					
Product line		NEMA Premium Efficiency ∃ hase	Γhree-	Product code :	14407933	
	,	nasc		Catalog # :	04018XT3EF	R324TC
Performance Rated current LRC Rated torque Locked rotor torq	: 5 : 6 : 1 que : 2 ue : 2	42 ft.lb 29 % 40 %	Duty cycle Insulation Service fa Temperate	class actor	: 8.17 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated current LRC Rated torque Locked rotor tord Breakdown torqt Rated speed	: 5 : 6 : 1 que : 2 ue : 2 : 1	6.1 A .9 42 ft.lb 29 %	Duty cycle Insulation Service fa	e class actor	: Cont.(S1) : F : 1.00	
Rated current LRC Rated torque Locked rotor torq Breakdown torq Rated speed	: 5 : 6 : 1 que : 2 ue : 2 : 1	6.1 A .9 42 ft.lb 29 % 40 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.00 : 80 K	
Rated current LRC Rated torque Locked rotor torg Breakdown torg Rated speed	: 5 : 6 : 1 que : 2 ue : 2 : 1	6.1 A .9 42 ft.lb 29 % 40 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed Heating constan Cooling constan	: 5 : 6 : 1 que : 2 ue : 2 : 1	6.1 A .9 42 ft.lb 29 % 40 % 475 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor torg Breakdown torg Rated speed Heating constan Cooling constan Rev.	: 5 : 6 : 1 que : 2 ue : 2 : 1	6.1 A .9 42 ft.lb 29 % 40 % 475 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed Heating constan Cooling constan	: 5 : 6 : 1 que : 2 ue : 2 : 1	6.1 A .9 42 ft.lb 29 % 40 % 475 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date

### Three Phase Induction Motor - Squirrel Cage



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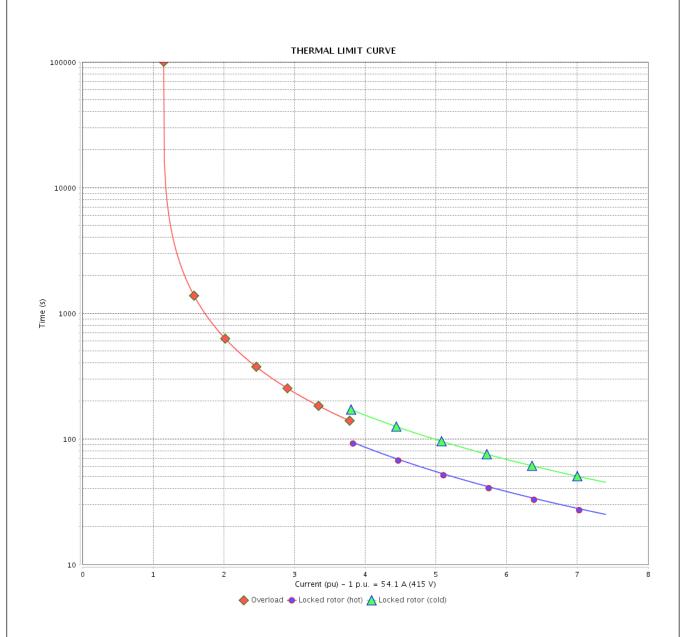


Customer	:					
Product line		NEMA Premium Efficiency	Three	Product code :	14407933	
Product line	F	Phase				
				Catalog # :	04018XT3EF	R324TC
Performance		15 V 50 Hz 4P IE2				
Rated current LRC		64.1 A 7.4	Moment of Duty cycle	of inertia (J)	: 8.17 sq.ft.lb : Cont.(S1)	
Rated torque	: 1	42 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord	que : 2	250 % 260 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		475 rpm	Design	uic lise	: B	
Heating constan	t					
Cooling constan						
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product code :

Phase

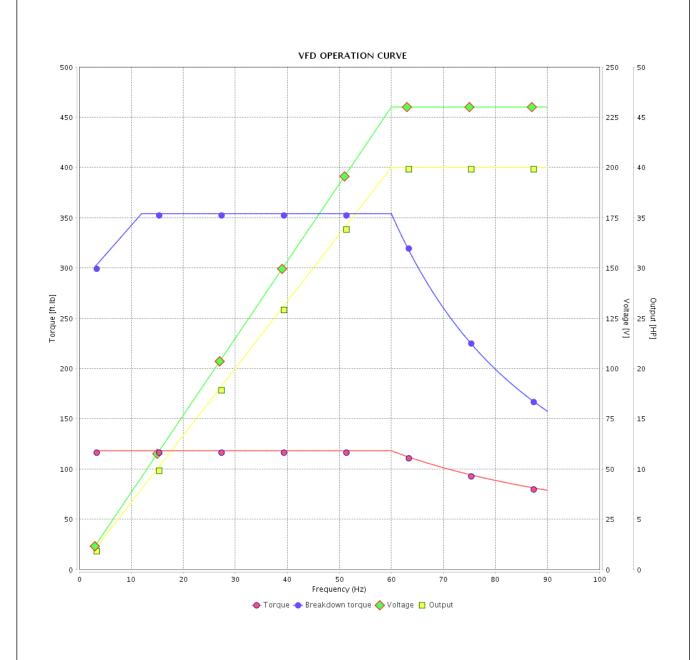
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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 96.4/48.2 A : 7.7 : 118 ft.lb : 270 % : 300 % : 1780 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 8.17 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

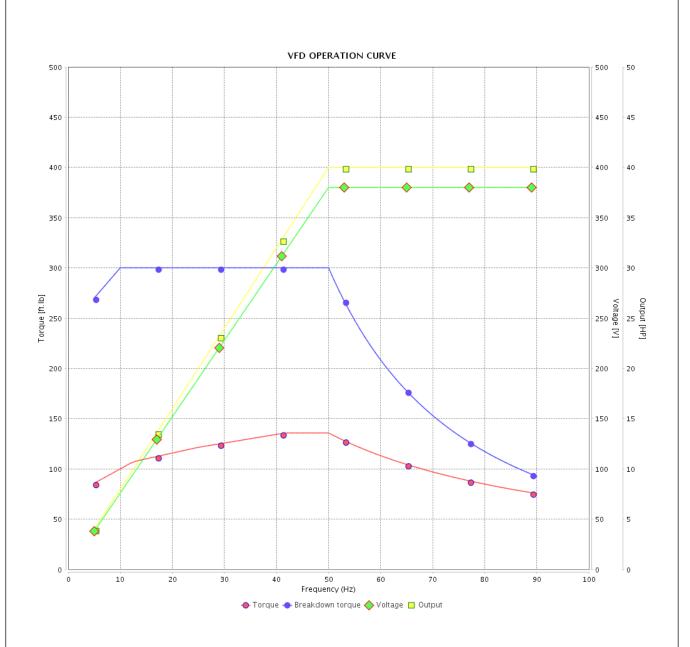


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14407933

Phase

Catalog #: 04018XT3ER324TC



Performance : 380 V 50 Hz 4P IE2 : 58.7 A Moment of inertia (J) : 8.17 sq.ft.lb Rated current **LRC** : Cont.(S1) : 6.2 Duty cycle : 143 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B

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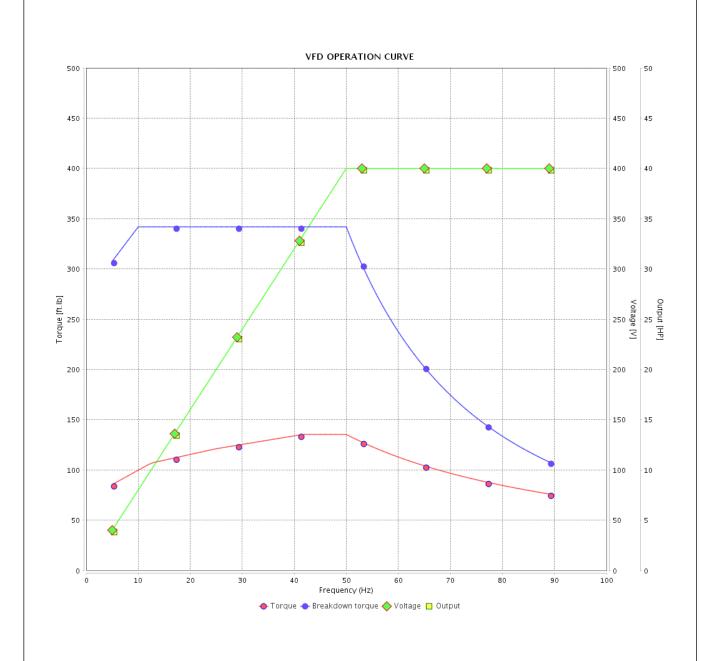
Customer

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 14407933

Catalog #: 04018XT3ER324TC



Performance		: 400 V 50 Hz 4P IE2				
Rated current		: 56.1 A	Moment o	f inertia (J)	: 8.17 sq.ft.lb	
LRC		: 6.9	Duty cycle	;	: Cont.(S1)	
Rated torque		: 142 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :	: 229 %	Service fa	ctor	: 1.00	
Breakdown torque	)	: 240 %	Temperati	ıre rise	: 80 K	
Rated speed		: 1475 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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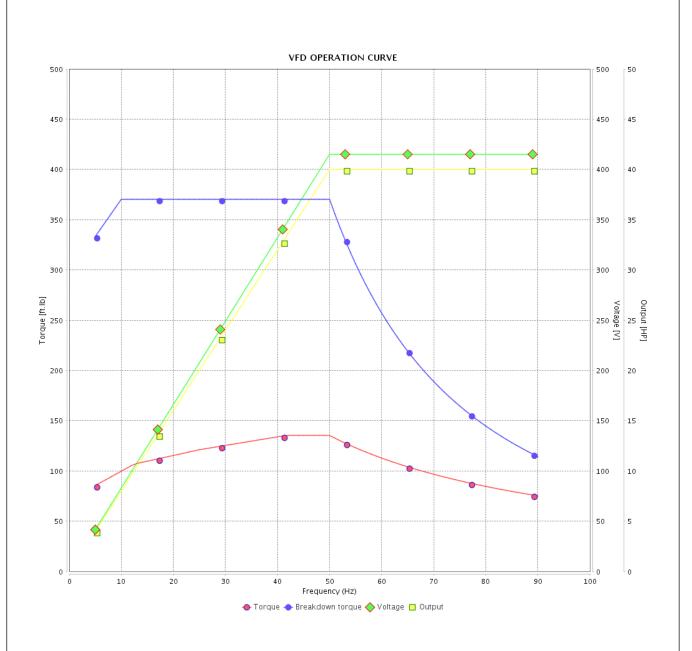
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Product line : NEMA Premium Efficiency Three- Product code : 14407933

Phase

Catalog #: 04018XT3ER324TC



Performance : 415 V 50 Hz 4P IE2 Rated current : 54.1 A Moment of inertia (J) : 8.17 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 142 ft.lb Insulation class : F Rated torque Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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