### DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



0.78

0.82

Customer

Product line : NEMA Premium Efficiency Three-Product code: 14406916

Catalog #: 02518XT3E284TC

Frame : 284TC Cooling method : IC411 - TEFC

Insulation class 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

: 1000 m.a.s.l. Approx. weight<sup>3</sup> : 483 lb Altitude Moment of inertia (J) : 4.54 sq.ft.lb

Protection degree : IP55

Design : B

Output [HP] 25 25 25 25 Poles 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 59.8/29.9 36.5 34.8 34.0 L. R. Amperes [A] 490/245 234 247 258 6.4x(Code F) 7.1x(Code F) 7.6x(Code G) LRC [A] 8.2x(Code G) No load current [A] 25.0/12.5 12.5 13.4 14.5 Rated speed [RPM] 1770 1460 1465 1470 Slip [%] 1.67 2.67 2.33 2.00 Rated torque [ft.lb] 74.2 90.2 89.9 89.6 Locked rotor torque [%] 320 229 240 260 Breakdown torque [%] 320 240 250 270 Service factor 1.15 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 36s (cold) 20s (hot) 36s (cold) 20s (hot) 36s (cold) 20s (hot) 36s (cold) 20s (hot) Noise level<sup>2</sup> 68.0 dB(A) 64.0 dB(A) 64.0 dB(A) 64.0 dB(A) 25% 92.2 92.8 92.2 92.2 50% 92.4 92.4 92.4 92.4 Efficiency (%) 75% 93.6 92.4 92.4 92.4 91.7 92.4 92.4 100% 93.6 0.45 0.42 25% 0.42 0.47 50% 0.72 0.70 0.67 0.68

> Drive end Non drive end Foundation loads

0.81

0.84

Bearing type 6311 C3 6211 C3 Max. traction : 810 lb Sealing Oil Seal Lip Seal Max. compression : 1293 lb

20000 h

0.78

0.83

20000 h

Lubricant amount 18 g 11 g Mobil Polyrex EM Lubricant type

Notes

Power Factor

Lubrication interval

USABLE @208V 64.5A SF 1.15 SFA 74.2A

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.

0.79

0.83

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## DATA SHEET

### Three Phase Induction Motor - Squirrel Cage



Customer		

#### Thermal protection

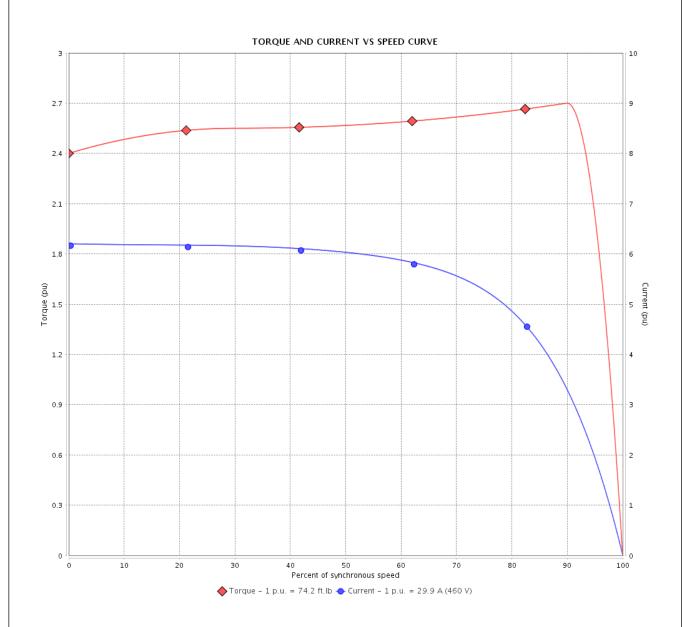
		<u> </u>		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14406916 Catalog #: 02518XT3E284TC



Performance : 230/460 V 60 Hz 4P Rated current : 59.8/29.9 A Moment of inertia (J) : 4.54 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) : 74.2 ft.lb Insulation class Rated torque : F Locked rotor torque : 320 % Service factor : 1.15 Breakdown torque : 320 % 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



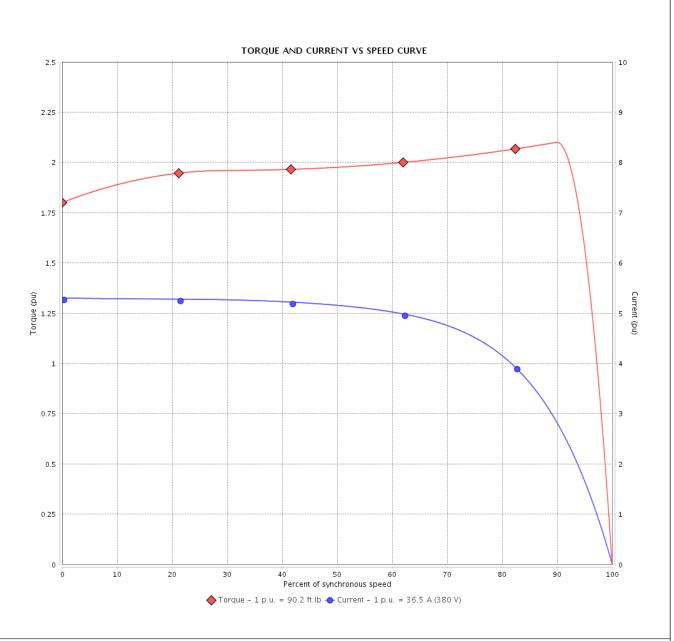
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14406916

Catalog #: 02518XT3E284TC



Performance : 380 V 50 Hz 4P IE2 Rated current : 36.5 A Moment of inertia (J) : 4.54 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 90.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 229 % : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B

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

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### Three Phase Induction Motor - Squirrel Cage

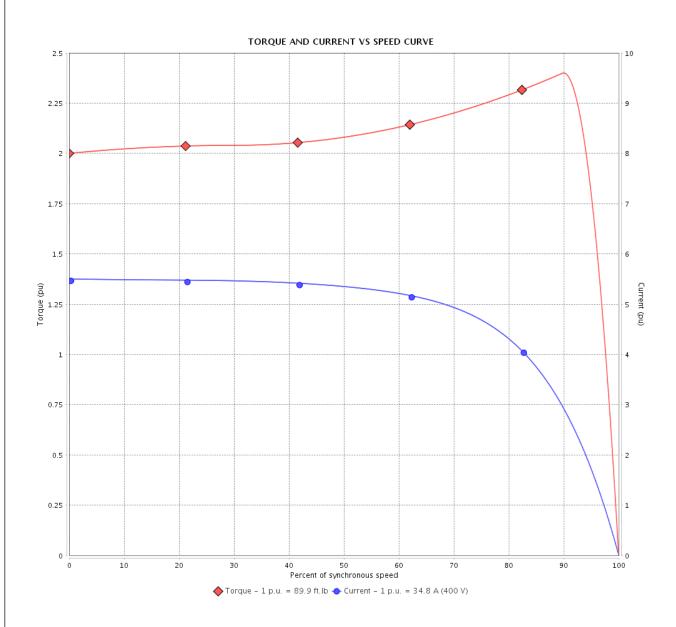


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14406916

Phase

Catalog #: 02518XT3E284TC



Performance	: 400 V 50 Hz 4P IE2			
Rated current	: 34.8 A	Moment of inertia (J)	: 4.54 sq.ft.lb	
LRC	: 7.1	Duty cycle	: Cont.(S1)	
Rated torque	: 89.9 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 1465 rpm	Design	: B	

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

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#### Three Phase Induction Motor - Squirrel Cage



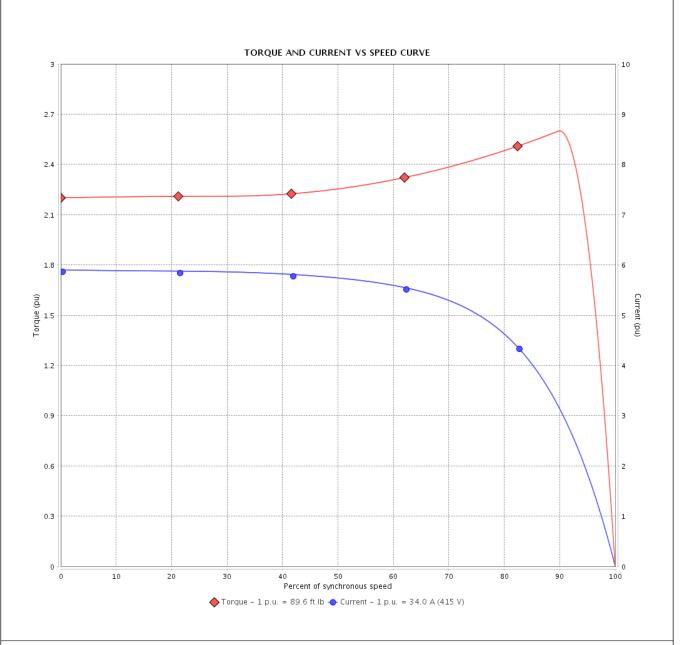
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14406916

Catalog #: 02518XT3E284TC



Performance : 415 V 50 Hz 4P IE2 Rated current : 34.0 A Moment of inertia (J) : 4.54 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : 89.6 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B

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

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### Three Phase Induction Motor - Squirrel Cage

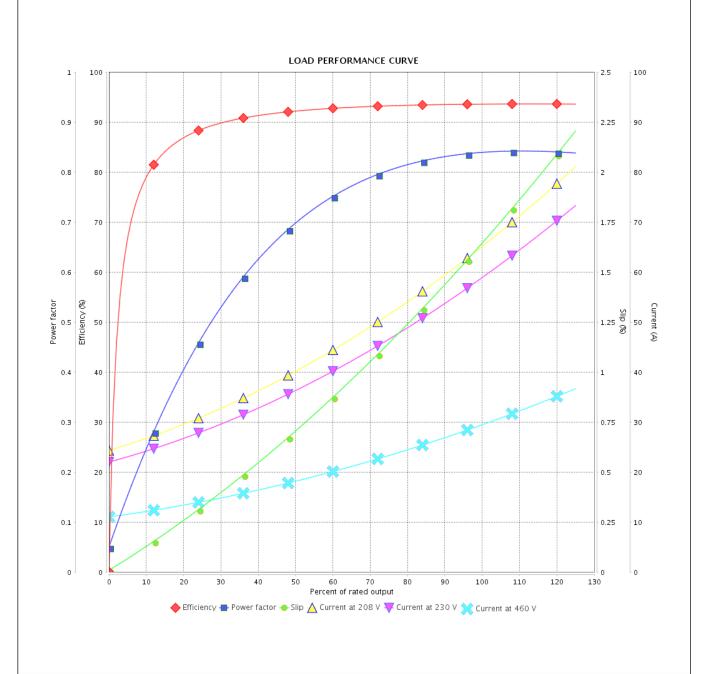


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14406916

Phase

Catalog #: 02518XT3E284TC



Performance	:	230/460 V 60 Hz 4P				
Rated current	:	59.8/29.9 A	Moment of	f inertia (J)	: 4.54 sq.ft.lb	
LRC	:	8.2	Duty cycle	•	: Cont.(S1)	
Rated torque	:	74.2 ft.lb	Insulation class		: F	
Locked rotor tord	que :	320 %	Service fa	ctor	: 1.15	
Breakdown torqu	ue :	320 %	Temperature rise		: 80 K	
Rated speed	:	1770 rpm	Design		: B	
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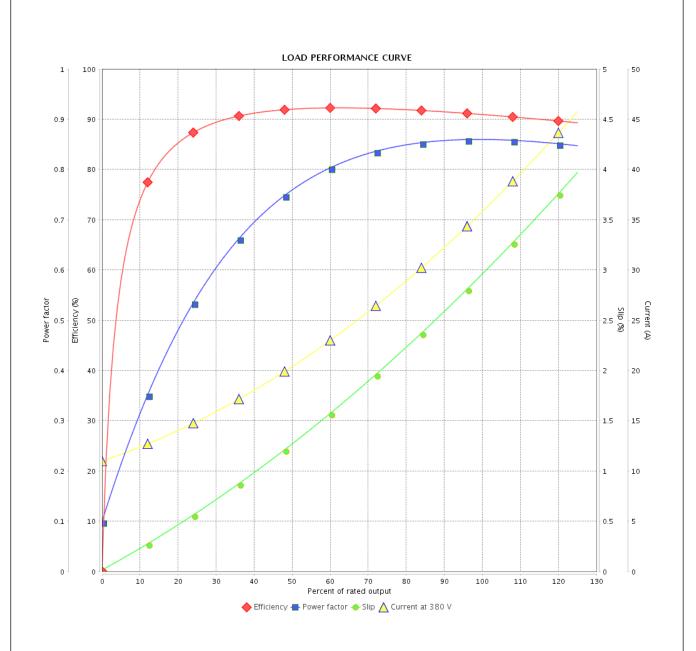
Date

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Product line : NEMA Premium Efficiency Three- Product code : 14406916

Phase

Catalog #: 02518XT3E284TC



Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.5 A : 6.4 : 90.2 ft.lb : 229 % : 240 % : 1460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



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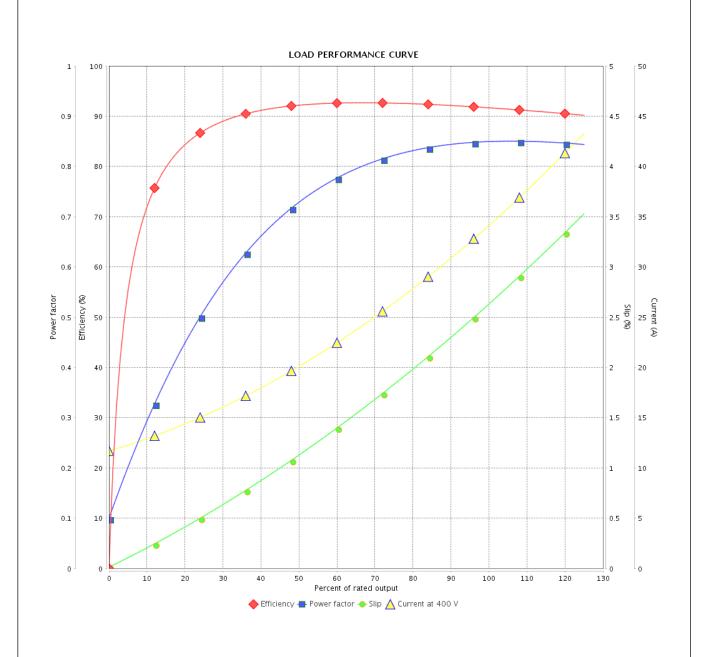
Date

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Product line : NEMA Premium Efficiency Three- Product code : 14406916

Phase

Catalog #: 02518XT3E284TC



Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 4.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



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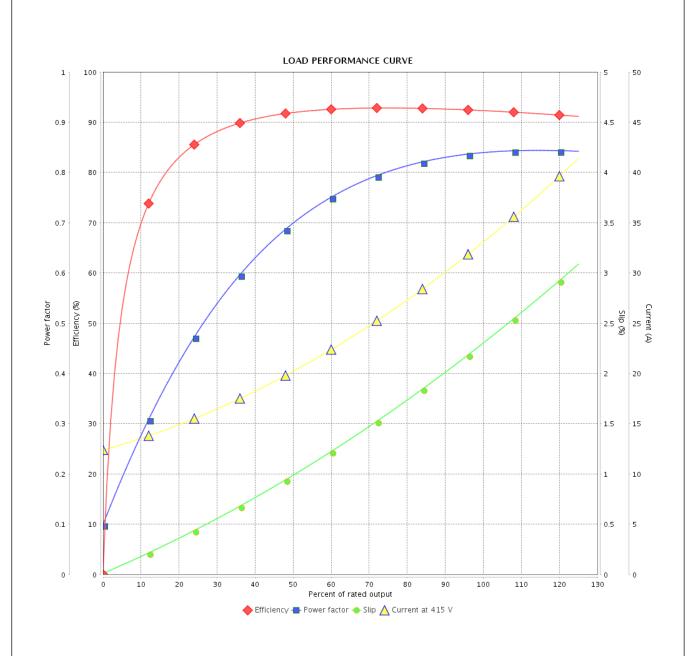
Date

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Product line : NEMA Premium Efficiency Three- Product code : 14406916

Phase

Catalog #: 02518XT3E284TC



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.0 A : 7.6 : 89.6 ft.lb : 260 % : 270 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage

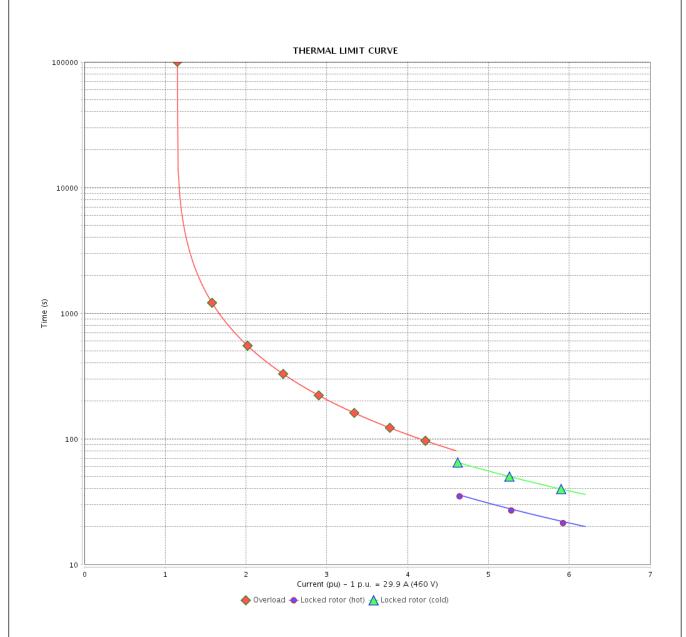


Customer	:					
Product line	<u>:</u>	NEMA Premium Efficiency	Three-	Product code :	14406916	
	Р	hase		Catalog # :	02518XT3E2	284TC
Performance		30/460 V 60 Hz 4P			. =	
Rated current LRC	: 5	9.8/29.9 A .2	Moment o	of inertia (J)	: 4.54 sq.ft.lb : Cont.(S1)	
Rated torque	: 7	4.2 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord		20 % 20 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		770 rpm	Design	ure rise	: B	
Heating constan						
Cooling constan						
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

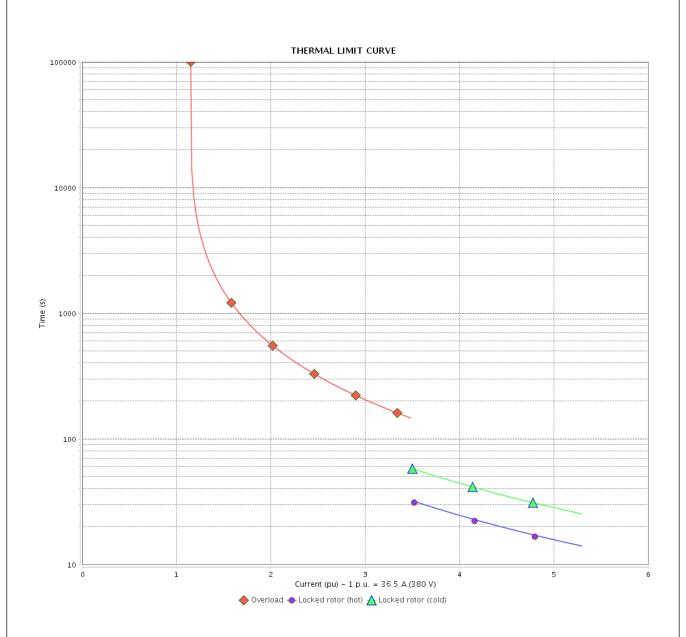


Product line		NEMA Premium Efficiency T hase	Three-	Product code :	14406916	
	·	ndoo		Catalog #:	02518XT3E2	84TC
Performance Rated current LRC Rated torque Locked rotor tor	: 3 : 6 : 9 rque : 2	.4 0.2 ft.lb 29 %	Duty cycle Insulation Service fa	class actor	: 4.54 sq.ft.lb : Cont.(S1) : F : 1.00	
Rated current _RC Rated torque	: 3 : 6 : 9 rque : 2 ; 2 : 1	6.5 A .4 0.2 ft.lb 29 % 40 %	Duty cycle Insulation	e class actor	: Cont.(S1) : F	
Rated current LRC Rated torque Locked rotor tor Breakdown torg Rated speed	: 3 : 6 : 9 rque : 2 : 1 : 1	6.5 A .4 0.2 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 tor Breakdown torg Rated speed	: 3 : 6 : 9 rque : 2 : 1 : 1	6.5 A .4 0.2 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 tor Breakdown torg Rated speed Heating constar Cooling constar	: 3 : 6 : 9 rque : 2 : 1 : 1	6.5 A .4 0.2 ft.lb 29 % 40 % 460 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 tor Breakdown torg Rated speed Heating constar Cooling constar Rev.	: 3 : 6 : 9 rque : 2 : 1 : 1	6.5 A .4 0.2 ft.lb 29 % 40 % 460 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current IRC Rated torque Locked rotor tor Breakdown torg Rated speed Heating constar Cooling constar	: 3 : 6 : 9 rque : 2 : 1 : 1	6.5 A .4 0.2 ft.lb 29 % 40 % 460 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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### Three Phase Induction Motor - Squirrel Cage

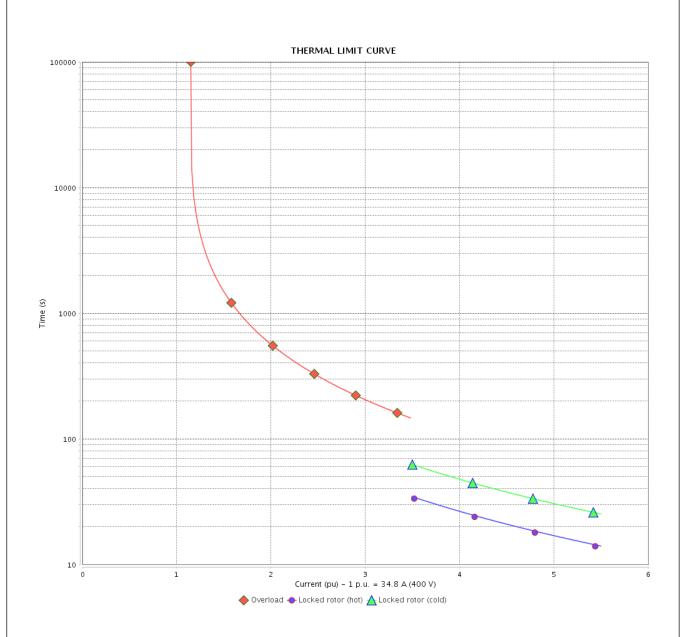


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Customer	:					
Product line	: i	NEMA Premium Efficiency <sup>-</sup> hase	Three-	Product code :	14406916	
	• •	nasc		Catalog # :	02518XT3E2	284TC
Performance	· 40	00 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	: 7. : 89 que : 24 ue : 28	9.9 ft.lb 40 % 50 %	Duty cycle Insulation Service fa Temperati	class ctor	: 4.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed Heating constan		465 rpm	Design		: B	
Cooling constant						
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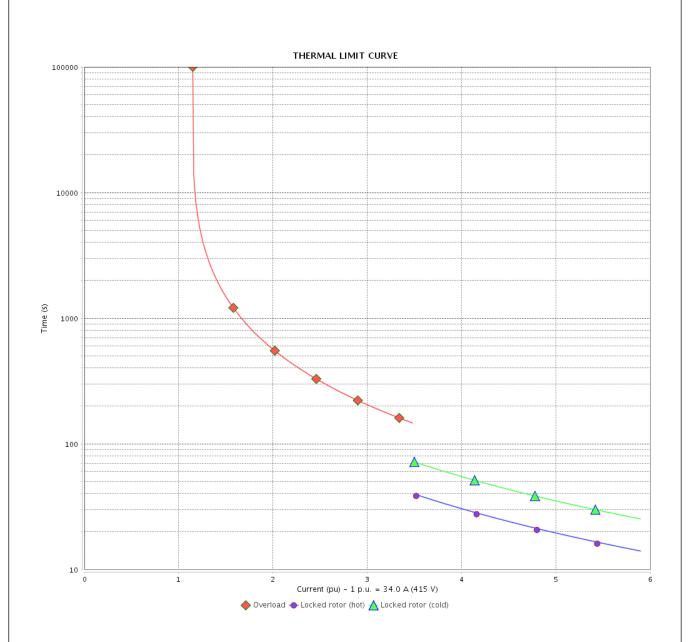


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	14406916 02518XT3E2	284TC
				-		
Performance		15 V 50 Hz 4P IE2	I			
Rated current LRC	: 34 : 7.	4.0 A	Moment of Duty cycle	of inertia (J)	: 4.54 sq.ft.lb : Cont.(S1)	
Rated torque	: 89	9.6 ft.lb	Insulation	class	: F	
Locked rotor tord		60 %	Service fa		: 1.00	
Breakdown torqu Rated speed		70 % 470 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan		•				
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage



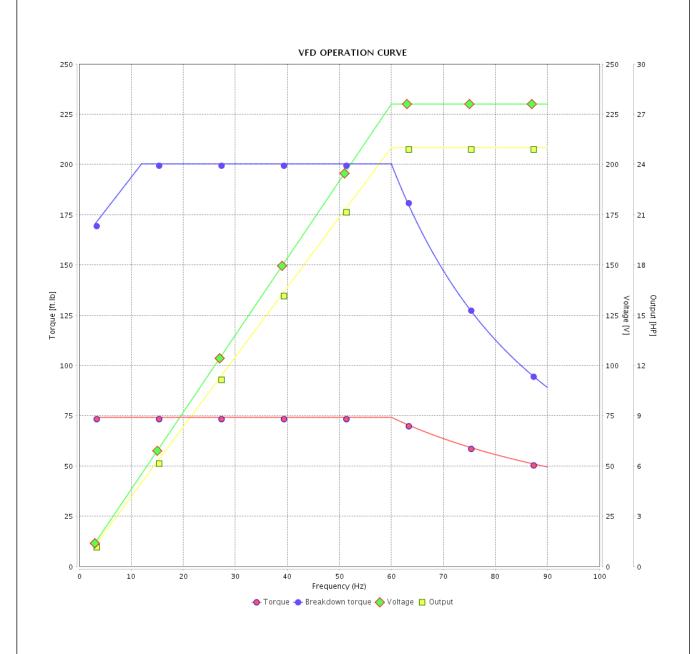
Customer

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14406916

Catalog #: 02518XT3E284TC



Performance : 230/460 V 60 Hz 4P : 59.8/29.9 A Rated current Moment of inertia (J) : 4.54 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) : 74.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 320 % Service factor : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

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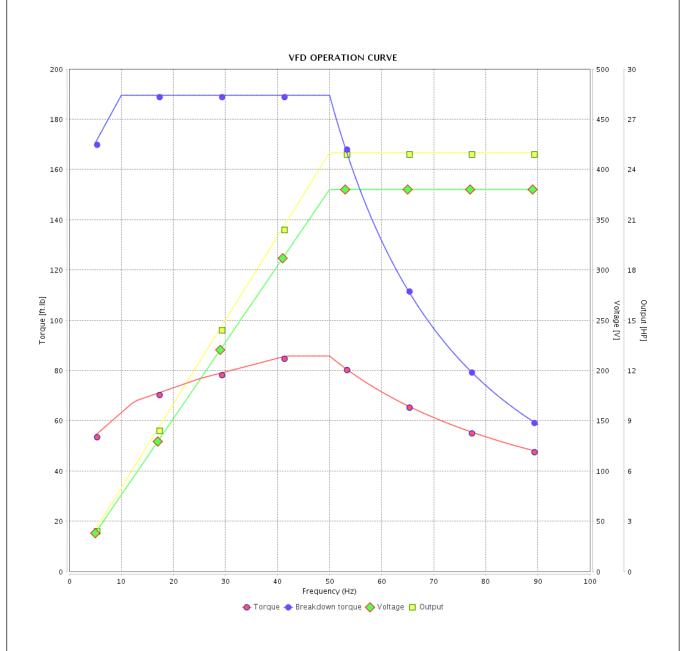
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Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 14406916

Catalog #: 02518XT3E284TC



Performance : 380 V 50 Hz 4P IE2 Rated current : 36.5 A Moment of inertia (J) : 4.54 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 Insulation class : 90.2 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by

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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

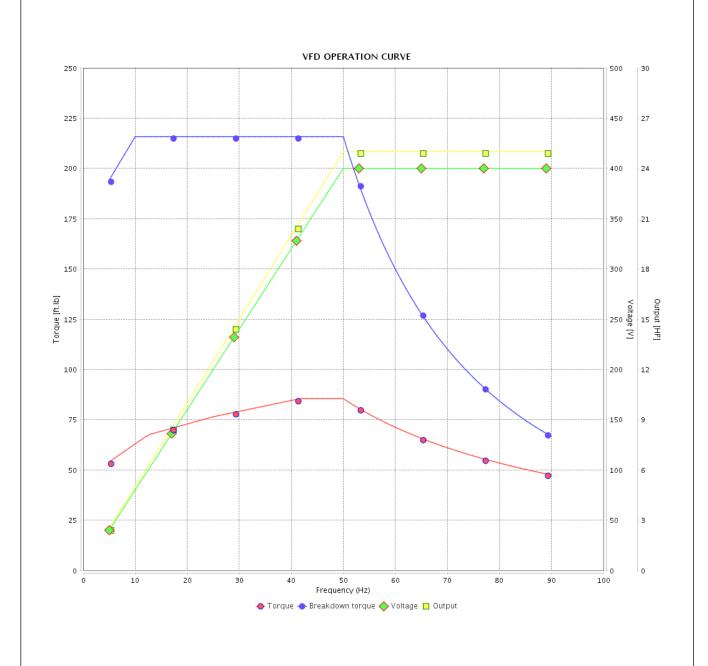
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14406916

Catalog #: 02518XT3E284TC



Performance : 400 V 50 Hz 4P IE2 : 34.8 A Rated current Moment of inertia (J) : 4.54 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 89.9 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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#### Three Phase Induction Motor - Squirrel Cage



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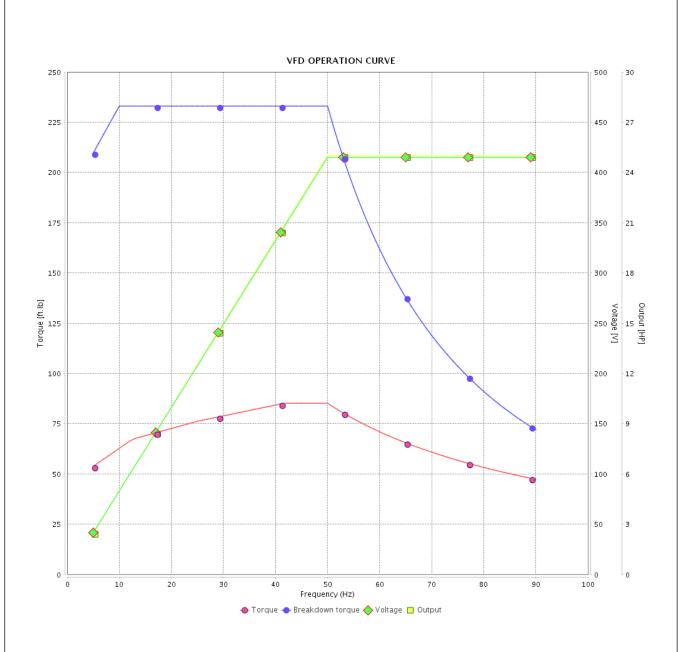
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14406916

Catalog #: 02518XT3E284TC



Performance : 415 V 50 Hz 4P IE2 Rated current : 34.0 A Moment of inertia (J) : 4.54 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : 89.6 ft.lb Insulation class : F Rated torque Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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