### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14443172

Phase

Catalog #: 03036XT3E286TS

Frame : 286TS Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation : 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> : 506 lb

Protection degree		: IP55	Moment of inertia (J) : 3.08 sq.ft.lb		sq.ft.lb
Design		: B			
Output [HP]		30	30	30	30
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		67.4/33.7	41.3	38.9	37.9
L. R. Amperes [A]		452/226	211	222	250
LRC [A]		6.7x(Code G)	5.1x(Code E)	5.7x(Code F)	6.6x(Code G)
No load current [A	.]	15.0/7.50	7.00	8.00	8.40
Rated speed [RPN	Л]	3545	2910	2930	2940
Slip [%]	Slip [%]		3.00	2.33	2.00
Rated torque [ft.lb]		44.4	54.1	53.8	53.6
Locked rotor torque [%]		250	190	200	220
Breakdown torque	Breakdown torque [%]		190	200	260
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		77s (cold) 43s (hot)	57s (cold) 32s (hot)	27s (cold) 15s (hot)	57s (cold) 32s (hot)
Noise level <sup>2</sup>		75.0 dB(A)	70.0 dB(A)	70.0 dB(A)	70.0 dB(A)
	25%	92.2	92.9	92.9	92.9
Efficiency (%)	50%	92.4	92.4	92.4	92.4
Efficiency (70)	75%	93.0	91.7	92.4	92.4
	100%	93.0	91.0	91.7	91.7
	25%	0.58	0.65	0.60	0.58
Power Factor	50%	0.78	0.82	0.80	0.78
FUWEI FACIOI	75%	0.86	0.88	0.87	0.86
	100%	0.88	0.89	0.89	0.88

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

14226 h

Bearing type : 6311 C3 6211 C3 Max. traction : 354 lb Sealing : Oil Seal Lip Seal Max. compression : 860 lb

Lubricant amount : 18 g 11 g Lubricant type : Mobil Polyrex EM

11517 h

Notes

Lubrication interval

USABLE @208V 74.5A SF 1.00 SFA 74.5A

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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# DATA SHEET



Customer		

Thermal	protection
HIIGHIIIAI	protection

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: 14443172 Catalog #: 03036XT3E286TS TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 44.4 ft.lb ◆ Current - 1 p.u. = 33.7 A (460 V) Performance : 230/460 V 60 Hz 2P Rated current : 67.4/33.7 A Moment of inertia (J) : 3.08 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 44.4 ft.lb Insulation class Rated torque : F : 250 % Locked rotor torque Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3545 rpm Design : B Locked rotor time : 77s (cold) 43s (hot) Date Rev. Performed Checked **Changes Summary** 

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#### Three Phase Induction Motor - Squirrel Cage



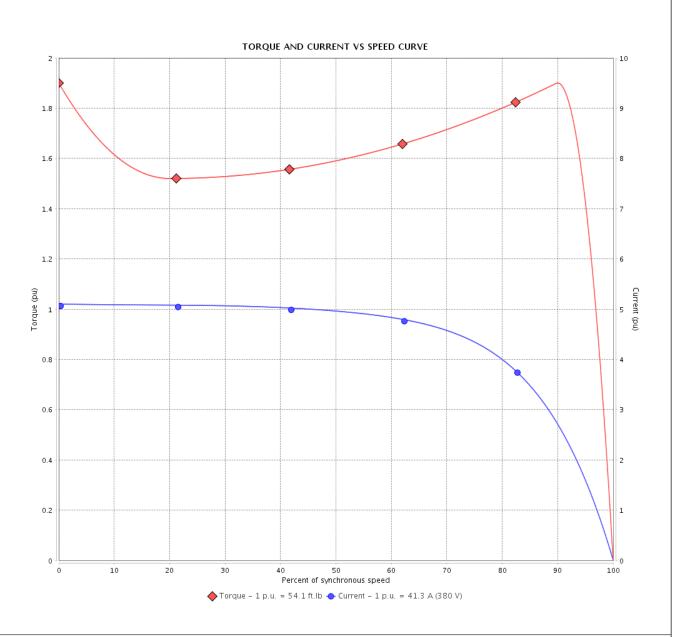
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14443172

Catalog #: 03036XT3E286TS



Performance : 380 V 50 Hz 2P IE1 Rated current : 41.3 A Moment of inertia (J) : 3.08 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 54.1 ft.lb : F Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 190 % Temperature rise : 80 K Rated speed : 2910 rpm Design : B

Locked rotor time : 57s (cold) 32s (hot)

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#### Three Phase Induction Motor - Squirrel Cage

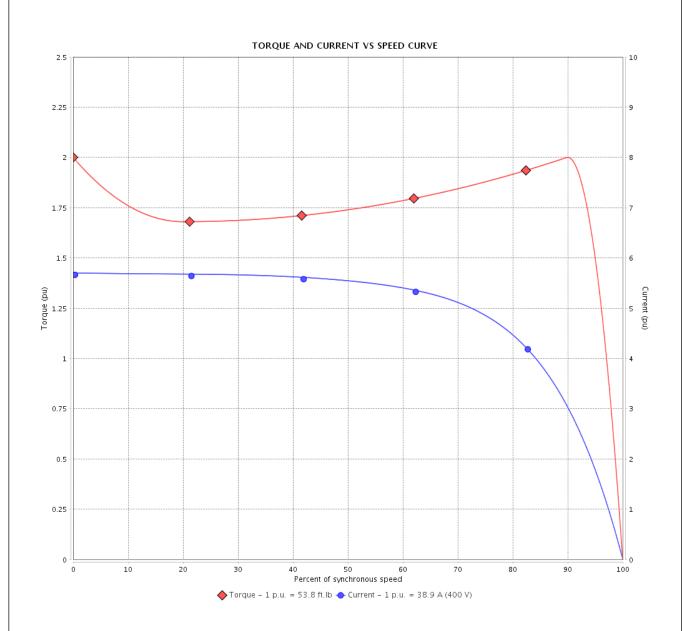


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14443172

Phase

Catalog #: 03036XT3E286TS



Performance	: 400 V 50 Hz 2P IE2			
Rated current	: 38.9 A	Moment of inertia (J)	: 3.08 sq.ft.lb	
LRC	: 5.7	Duty cycle	: Cont.(S1)	
Rated torque	: 53.8 ft.lb	Insulation class	:F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 200 %	Temperature rise	: 80 K	
Rated speed	: 2930 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			

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

		(00.0) 100 (1.01)			
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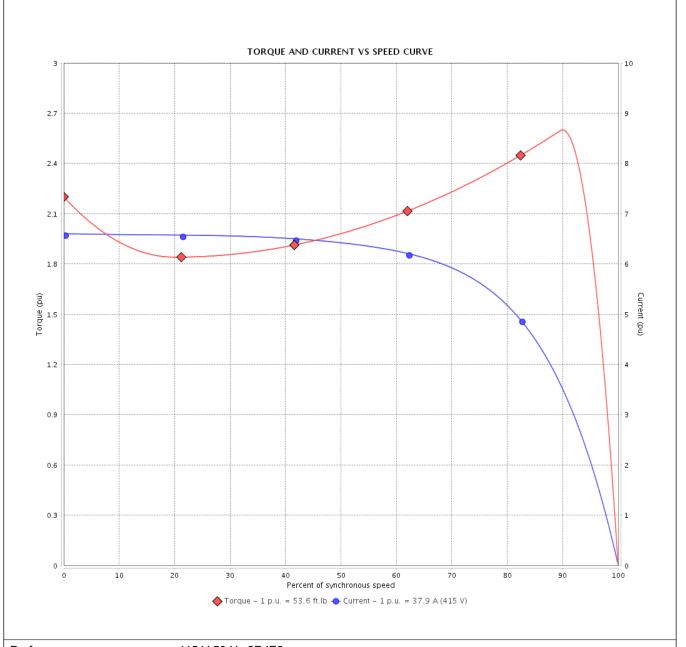
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14443172

Catalog #: 03036XT3E286TS



Performance : 415 V 50 Hz 2P IE2 Rated current : 37.9 A Moment of inertia (J) : 3.08 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.6 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00

Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 2940 rpm Design : B

Locked rotor time : 57s (cold) 32s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



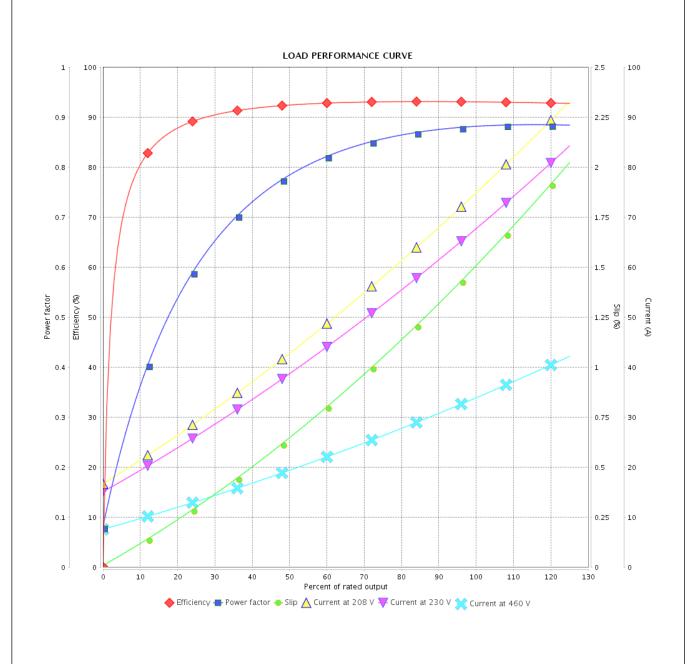
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03036XT3E286TS

14443172



Performance	: 2	230/460 V 60 Hz 2P				
Rated current	: 6	67.4/33.7 A	Moment o	f inertia (J)	: 3.08 sq.ft.lb	
LRC	: 6	6.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 4	14.4 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	250 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	240 %	Temperati	ıre rise	: 80 K	
Rated speed	: 3	3545 rpm	Design		: B	
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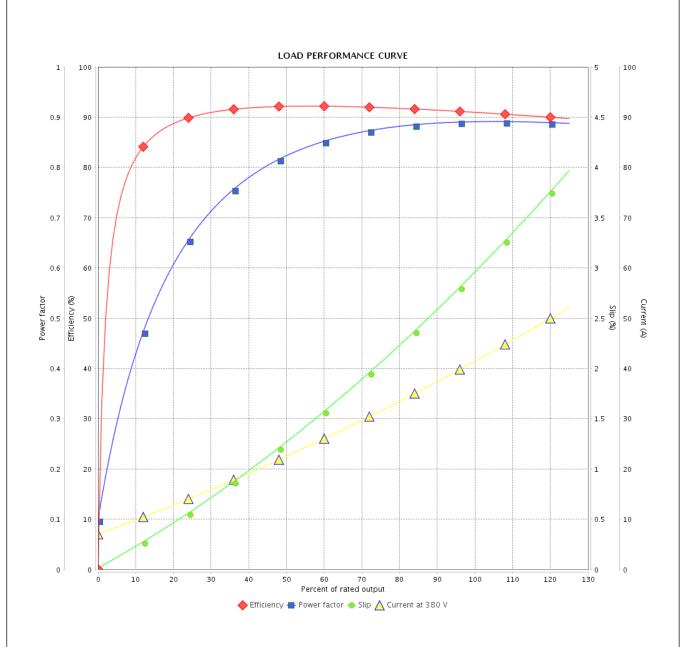
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 14443172

Catalog #: 03036XT3E286TS



Performance : 380 V 50 Hz 2P IE1 Rated current : 41.3 A Moment of inertia (J) : 3.08 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.1 Rated torque : 54.1 ft.lb Insulation class : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 80 K Rated speed : 2910 rpm Design : B Rev. Checked Changes Summary Performed Date

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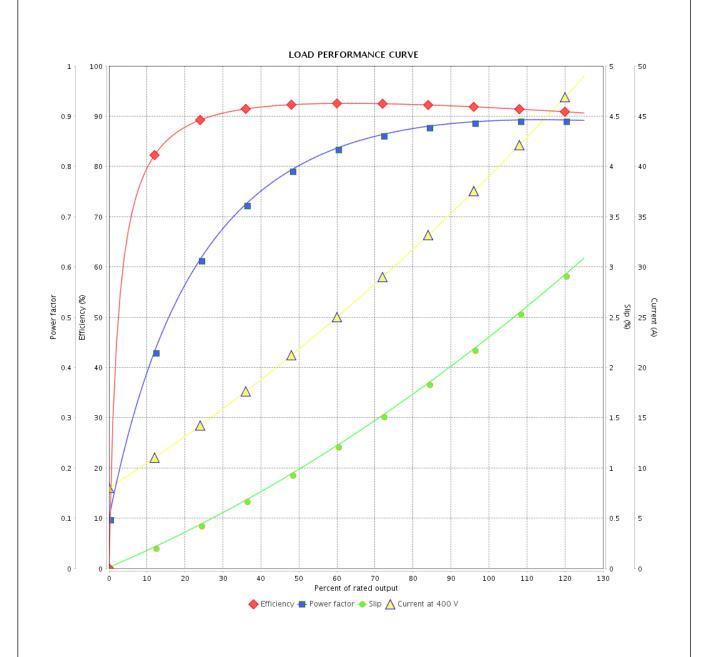


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Product line : NEMA Premium Efficiency Three- Product code : 14443172

Phase

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Rated speed	: 2930 rpm	Design		: B	
Breakdown torque	: 200 %	Temperatu	ıre rise	: 80 K	
Locked rotor torque	: 200 %	Service fa	ctor	: 1.00	
Rated torque	: 53.8 ft.lb	Insulation class		Insulation class : F	
LRC	: 5.7	Duty cycle		: Cont.(S1)	
Rated current	: 38.9 A	Moment of inertia (J)		: 3.08 sq.ft.lb	
Performance	: 400 V 50 Hz 2P IE2	<u> </u>			

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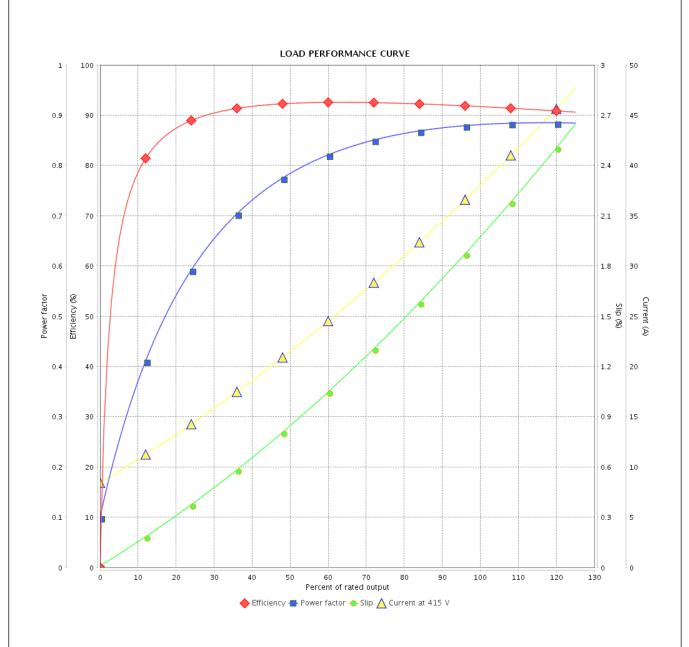
Date

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Product line : NEMA Premium Efficiency Three- Product code : 14443172

Phase

Catalog #: 03036XT3E286TS



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 37.9 A : 6.6 : 53.6 ft.lb : 220 % : 260 % : 2940 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 3.08 sq.ff.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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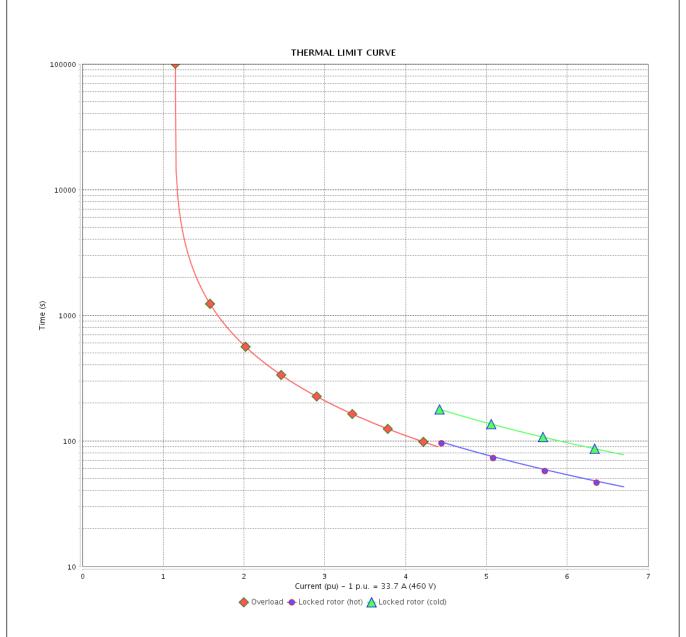


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	14443172	
i roduct line	F	Phase				
				Catalog # :	03036XT3E2	286TS
Performance		230/460 V 60 Hz 2P				
Rated current LRC		67.4/33.7 A 6.7	Moment of Duty cycle	of inertia (J)	: 3.08 sq.ft.lb : Cont.(S1)	
Rated torque		14.4 ft.lb	Insulation	class	: F	
Locked rotor tord	ηue : 2	250 %	Service fa		: 1.15	
Breakdown torqu Rated speed		240 % 8545 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan		•				
Cooling constant						
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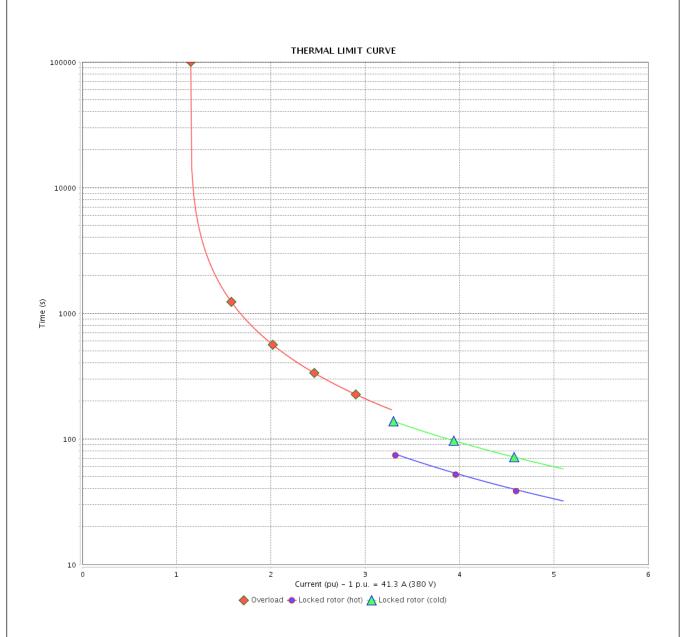


	:					
Product line	:1	NEMA Premium Efficiency T	hree-	Product code :	14443172	
	P	hase				20070
				Catalog # :	03036XT3E2	2861S
		30 V 50 Hz 2P IE1				
Rated current		1.3 A	Moment o	f inertia (J)	: 3.08 sq.ft.lb : Cont.(S1)	
Performance Rated current LRC Rated torque	: 4 : 5. : 54	1.3 A 1 4.1 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Rated current .RC Rated torque .ocked rotor tor	: 4 : 5. : 5 <sup>4</sup> que : 1!	1.3 A 1 4.1 ft.lb 90 %	Duty cycle Insulation Service fa	e class ctor	: Cont.(S1)	
Rated current LRC Rated torque Locked rotor tord Breakdown tord	: 4 : 5. : 5- que : 19 ue : 19	1.3 A 1 4.1 ft.lb 90 % 90 %	Duty cycle Insulation	e class ctor	: Cont.(S1) : F : 1.00	
Rated current RC	: 4 : 5. : 5- que : 1! ue : 1! : 2!	1.3 A 1 4.1 ft.lb 90 %	Duty cycle Insulation Service fa Temperate	e class ctor	: Cont.(S1) : F : 1.00 : 80 K	
Rated current LRC Rated torque Locked rotor torgoreakdown torgoreated speed Heating constan Cooling constan	: 4 : 5. : 54 que : 19 ue : 19 : 29	1.3 A 1 4.1 ft.lb 90 % 90 % 910 rpm	Duty cycle Insulation Service fa Temperati	class ctor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	
Rated current LRC Rated torque Locked rotor torg Breakdown torg Rated speed	: 4 : 5. : 54 que : 19 ue : 19 : 29	1.3 A 1 4.1 ft.lb 90 %	Duty cycle Insulation Service fa Temperati	e class ctor	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current .RC Rated torque .ocked rotor torgoreakdown torqoreated speed Heating constan Cooling constan Rev.	: 4 : 5. : 54 que : 19 ue : 19 : 29	1.3 A 1 4.1 ft.lb 90 % 90 % 910 rpm	Duty cycle Insulation Service fa Temperati	class ctor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current .RC Rated torque .ocked rotor torgonicated speed Heating constan Cooling constan	: 4 : 5. : 54 que : 19 ue : 19 : 29	1.3 A 1 4.1 ft.lb 90 % 90 % 910 rpm	Duty cycle Insulation Service fa Temperati	class ctor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date

#### Three Phase Induction Motor - Squirrel Cage



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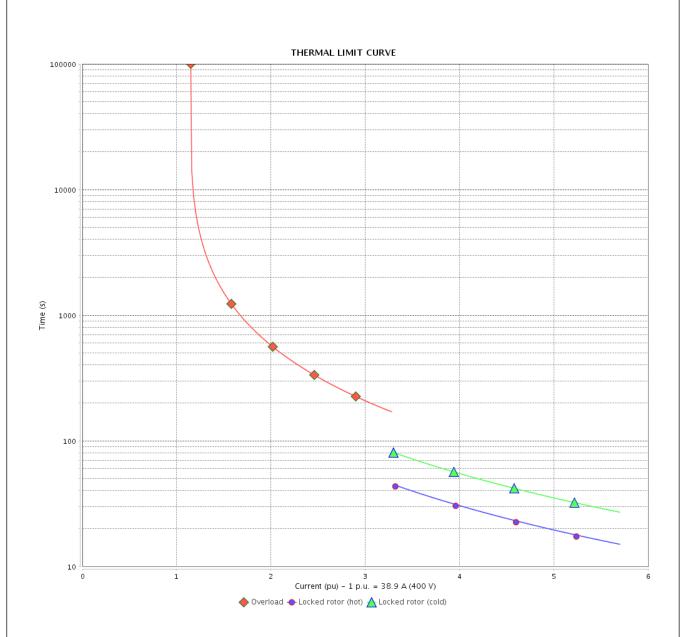


Product line	:	NEMA Premium Efficiency 1	Γhree-	Product code :	14443172	
	Р	hase				OCTO
				Catalog # :	03036XT3E2	86TS
Performance Rated current IRC Rated torque Locked rotor tor Breakdown torq Rated speed	: 3 : 5 : 5 que : 2 ue : 2	00 V 50 Hz 2P IE2 8.9 A .7 3.8 ft.lb 00 % 930 rpm	Moment of Duty cycle Insulation Service far Temperations	class actor	: 3.08 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed	: 3 : 5 : 5 que : 2 ue : 2 : 2	8.9 A .7 3.8 ft.lb 00 % 00 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.00 : 80 K	
Rated current .RC Rated torque .ocked rotor tor Breakdown torq Rated speed	: 3 : 5 : 5 que : 2 ue : 2 : 2	8.9 A .7 3.8 ft.lb 00 % 00 %	Duty cycle Insulation Service fa Temperate	e class actor	: Cont.(S1) : F : 1.00 : 80 K	Date
Rated current RC Rated torque ocked rotor tor breakdown torq Rated speed Heating constar Cooling constar	: 3 : 5 : 5 que : 2 ue : 2 : 2	8.9 A .7 3.8 ft.lb 00 % 00 % 930 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current RC Rated torque ocked rotor tor Breakdown torq Rated speed Heating constar Cooling constar Rev.	: 3 : 5 : 5 que : 2 ue : 2 : 2	8.9 A .7 3.8 ft.lb 00 % 00 % 930 rpm	Duty cycle Insulation Service fa Temperate	e class actor ure rise	: Cont.(S1) : F : 1.00 : 80 K : B	Date
Rated current RC Rated torque ocked rotor tor creakdown torq rated speed leating constar Cooling constar	: 3 : 5 : 5 que : 2 ue : 2 : 2	8.9 A .7 3.8 ft.lb 00 % 00 % 930 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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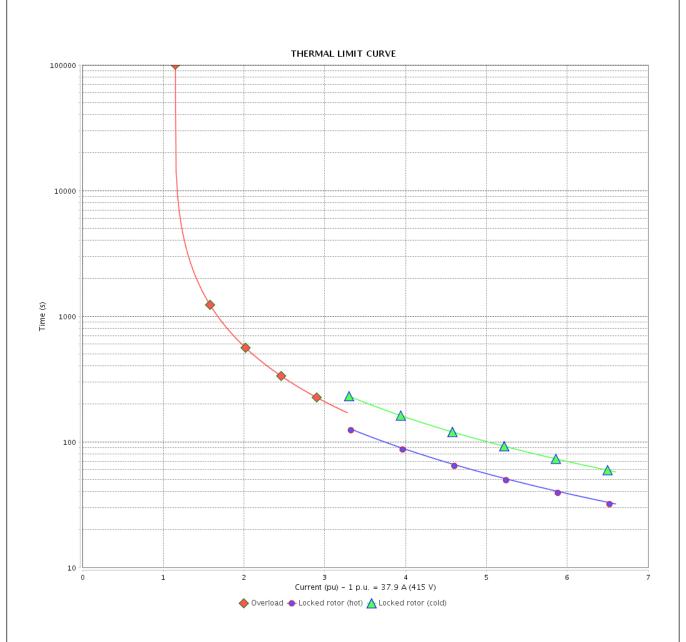


Customer	:					
Product line	.,	NEMA Premium Efficiency	Three-	Product code :	14443172	
	P	hase		Catalog #:	03036XT3E2	20070
				<u> </u>		
Performance	: 4	15 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 53 jue : 22 ie : 26	7.9 A 6 3.6 ft.lb 20 % 60 % 940 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 3.08 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	<u> </u>					
Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage

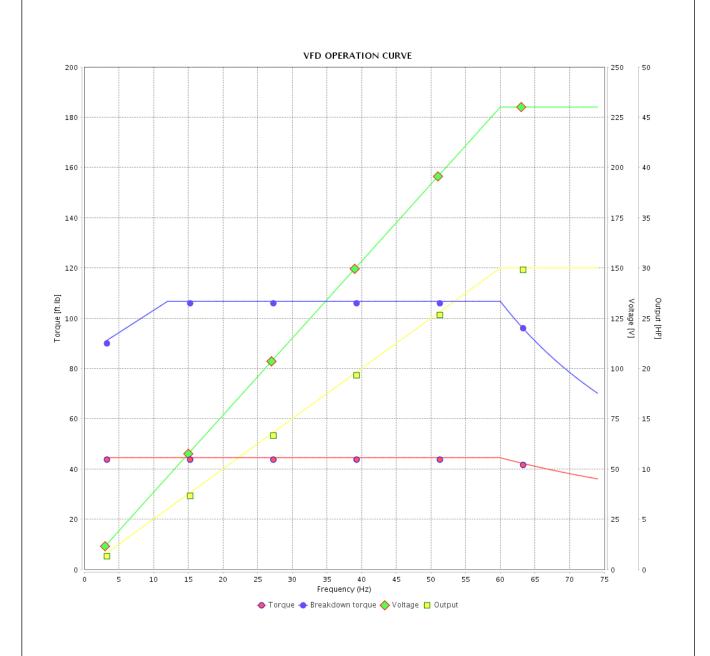


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 14443172

Catalog #: 03036XT3E286TS



Performance	: 2	: 230/460 V 60 Hz 2P				
Rated current	: 6	: 67.4/33.7 A Mo		f inertia (J)	: 3.08 sq.ft.lb	
LRC	: 6	: 6.7 Duty cycle		•	: Cont.(S1)	
Rated torque	: 4	4.4 ft.lb Insulation class		class	: F	
Locked rotor tord	que : 2	250 %	% Service factor		: 1.15	
Breakdown torque : 240		240 %	Temperati	Temperature rise		
Rated speed	: 3	3545 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

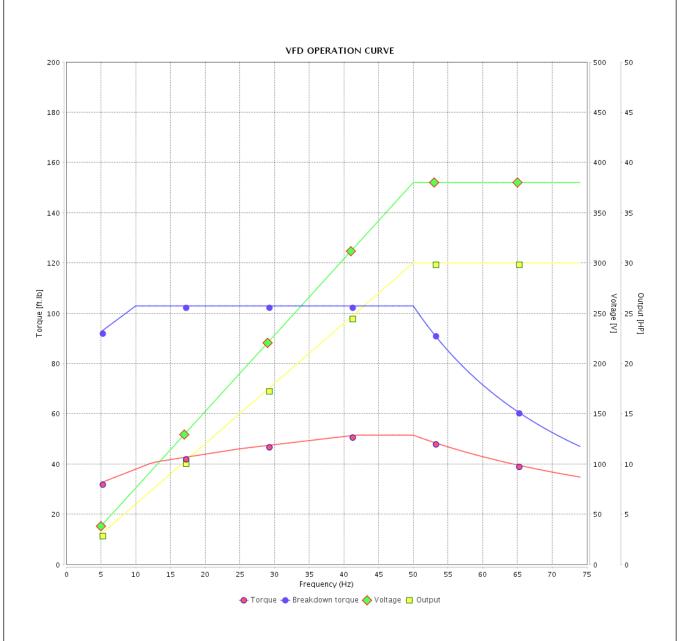
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14443172

Catalog #: 03036XT3E286TS



Performance : 380 V 50 Hz 2P IE1 Rated current : 41.3 A Moment of inertia (J) : 3.08 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.1 : 54.1 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 80 K Rated speed : 2910 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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#### Three Phase Induction Motor - Squirrel Cage

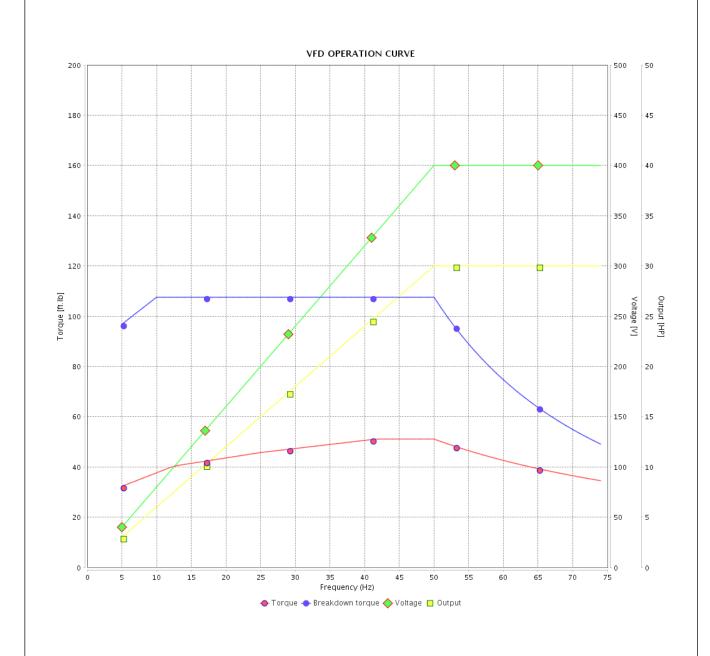


Customer

Product line : NEMA Premium Efficiency Three-Product code:

14443172

Catalog #: 03036XT3E286TS



Performance	: 40	: 400 V 50 Hz 2P IE2							
Rated current	: 38	8.9 A Moment of inertia (J)		of inertia (J)	: 3.08 sq.ft.lb				
LRC	: 5.	.7	Duty cycle		: Cont.(S1)				
Rated torque	: 53	3.8 ft.lb	Insulation class		: F ` ´				
Locked rotor torqu	ue : 20	00 %	Service fa	Service factor					
Breakdown torque	e : 20	00 %	Temperati	Temperature rise					
Rated speed	: 29	: 2930 rpm		Design					
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#### Three Phase Induction Motor - Squirrel Cage



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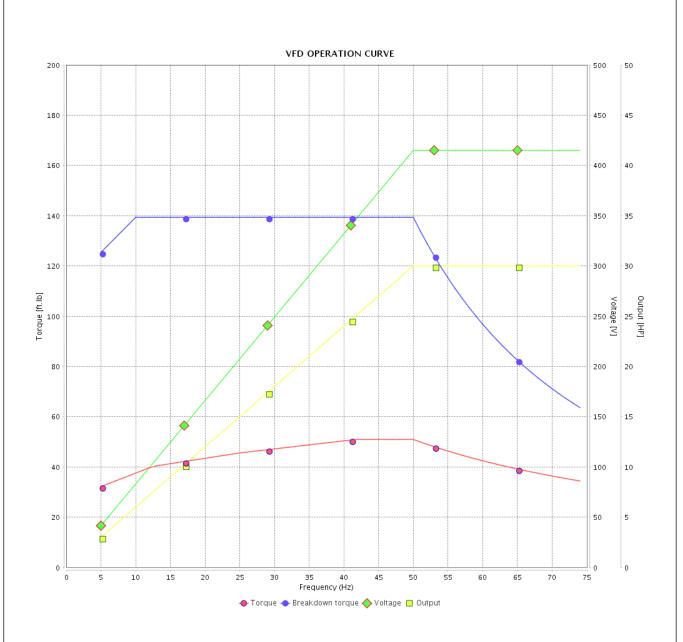
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14443172

Catalog #: 03036XT3E286TS



Performance	: 415 V 50 Hz 2P IE2							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 37.9 A : 6.6 : 53.6 ft.lb : 220 % : 260 % : 2940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.08 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B				
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