### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431847

Catalog #: 03012ST3QIE326T-W22

Frame : 324/6T 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

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 598 lb

/ lititude		. 1000 111.4.	3.1.	/ tppi oz	. weigin	. 0	30 ID	
Protection degree		: IP55		Momer	nt of inertia (J)	: 1	3.2 sq.ft.lb	
Design		: B						
Output [HP]		30	25	25	25	30	30	30
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		36.2	36.9	36.2	35.4	43.7	41.7	40.7
L. R. Amperes [A]		224	214	228	237	214	225	236
LRC [A]		6.2x(Code	5.8x(Code	6.3x(Code H)	6.7x(Code H)	4.9x(Code E)	5.4x(Code F)	5.8x(Code
		G)	G)					G)
No load current [A]		14.5	14.0	15.0	16.0	14.0	15.0	16.0
Rated speed [RPN	1]	1180	975	980	980	970	975	980
Slip [%]		1.67	2.50	2.00	2.00	3.00	2.50	2.00
Rated torque [ft.lb]		134	135	134	134	162	162	161
Locked rotor torque [%]		220	190	220	240	160	180	200
Breakdown torque [%]		240	229	260	280	200	220	240
Service factor		1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		37s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)
		21s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)
Noise level <sup>2</sup>		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)
	25%	91.5	91.2	91.2	90.4	92.1	92.1	91.3
Efficiency (%)	50%	91.7	91.3	91.3	90.7	91.7	91.7	91.0
Lincicity (70)	75%	93.0	91.8	92.2	91.9	91.7	92.4	92.4
	100%	93.0	91.7	92.1	92.0	91.0	91.7	91.7
	25%	0.42	0.41	0.39	0.36	0.48	0.44	0.41
Power Factor	50%	0.65	0.64	0.61	0.58	0.71	0.68	0.65
1 OWCI I ACIOI	75%	0.77	0.76	0.74	0.71	0.81	0.78	0.76
	100%	0.82	0.83	0.80	0.79	0.84	0.83	0.82

Drive end Non drive end Foundation loads

6312 C3 Bearing type 6212 C3 Max. traction : 1182 lb Sealing Inpro/Seal Inpro/Seal : 1780 lb Max. compression

20000 h

Lubricant amount 21 g 13 g

20000 h

Mobil Polyrex EM Lubricant type

Notes

Lubrication interval

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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#### Three Phase Induction Motor - Squirrel Cage



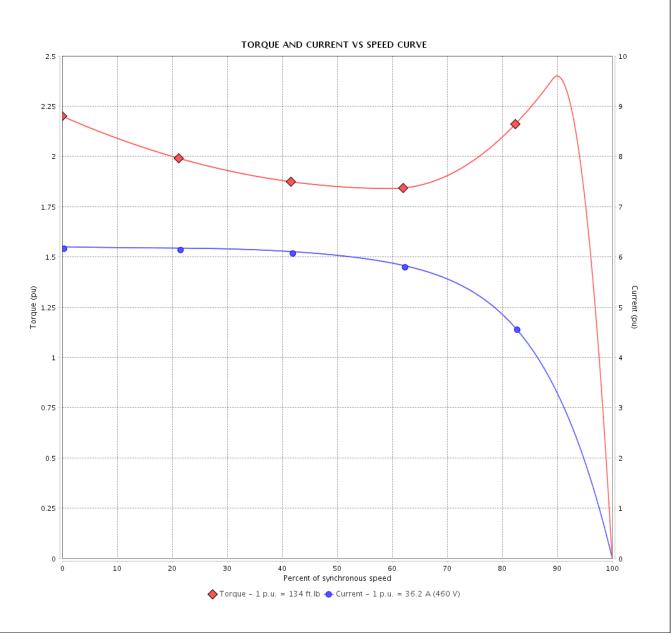
Customer :

Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 11431847

Catalog #: 03012ST3QIE326T-W22



Performance : 460 V 60 Hz 6P Rated current : 36.2 A Moment of inertia (J) : 13.2 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 134 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

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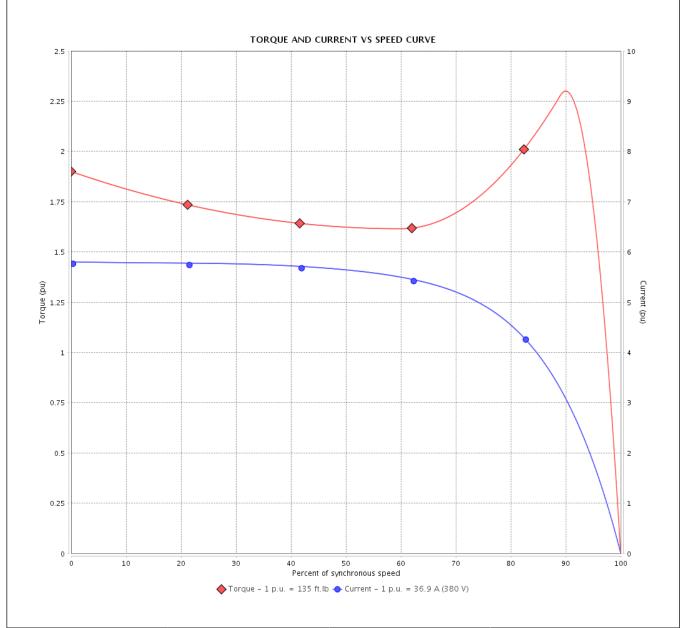
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11431847

Catalog #: 03012ST3QIE326T-W22



Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 36.9 A	Moment of inertia (J)	: 13.2 sq.ft.lb	
LRC	: 5.8	Duty cycle	: Cont.(S1)	
Rated torque	: 135 ft.lb	Insulation class	: F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 975 rpm	Design	: B	
Locked roter time	: 27s (cold) 15s (bot)			

LOCKCO TOTOL UITK		73 (6014) 103 (1101)			
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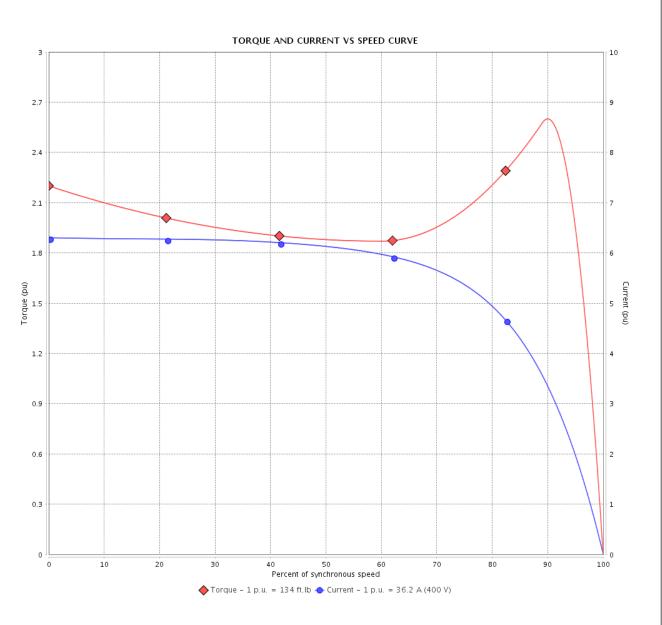


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 03012ST3QIE326T-W22

11431847



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 36.2 A	Moment of inertia (J)	: 13.2 sq.ft.lb
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 134 ft.lb	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B
Locked rotor time	: 27s (cold) 15s (hot)	1	

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11431847 Catalog #: 03012ST3QIE326T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Torque (pu) 1.2 0.6 0.3 40 50 -Percent of synchronous speed

Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 35.4 A	Moment of inertia (J)	: 13.2 sq.ft.lb	
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation class	:F ` ´	
Locked rotor torque	: 240 %	Service factor	: 1.15	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			

◆ Torque - 1 p.u. = 134 ft.lb ◆ Current - 1 p.u. = 35.4 A (415 V)

LOCKCU TOLOT LITT	. 2	73 (cold) 103 (110t)			
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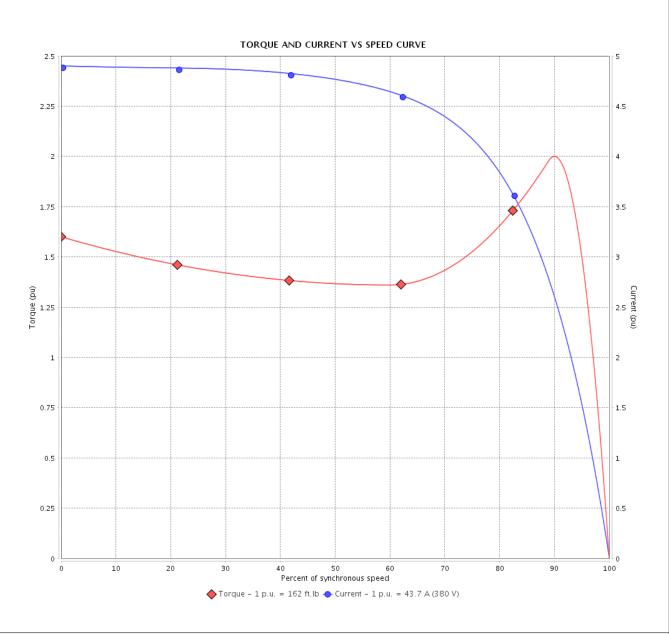
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431847

Catalog #: 03012ST3QIE326T-W22



Performance	: 380 V 50 Hz 6P IE2		
Rated current LRC	: 43.7 A : 4.9	Moment of inertia (J)	: 13.2 sq.ft.lb
Rated torque	. 4.9 : 162 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B
Looked reter time	: 27a (aald) 15a (bat)		

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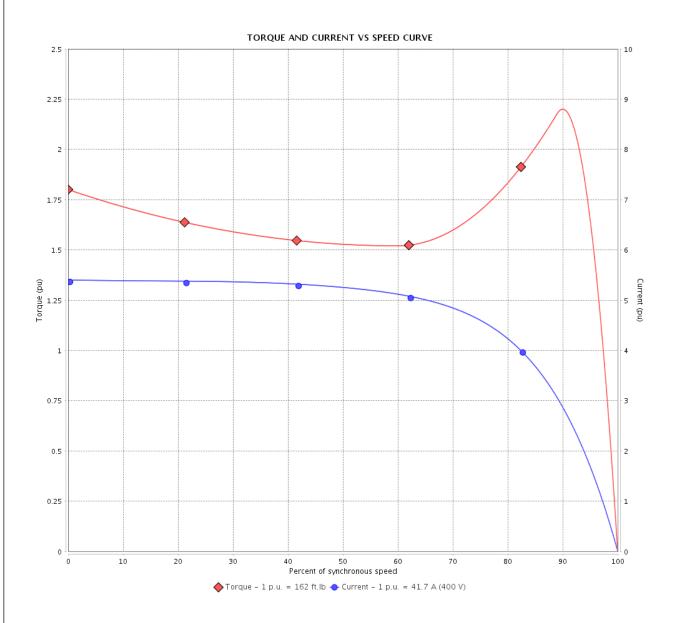
#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431847

Catalog #: 03012ST3QIE326T-W22



Performance	: 400 V 50 Hz 6P IE2			
Rated current	: 41.7 A	Moment of inertia (J)	: 13.2 sq.ft.lb	
LRC	: 5.4	Duty cycle	: Cont.(S1)	
Rated torque	: 162 ft.lb	Insulation class	:F ` ´	
Locked rotor torque	: 180 %	Service factor	: 1.15	
Breakdown torque	: 220 %	Temperature rise	: 80 K	
Rated speed	: 975 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			

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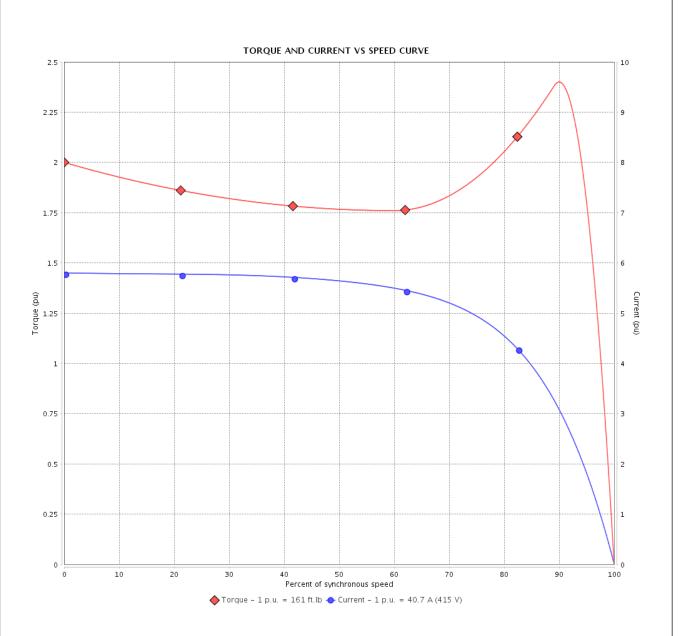
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 03012ST3QIE326T-W22

11431847



Performance	: 415 V 50 Hz 6P IE2			
Rated current	: 40.7 A	Moment of inertia (J)	: 13.2 sq.ft.lb	
LRC	: 5.8	Duty cycle	: Cont.(S1)	
Rated torque	: 161 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.15	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			

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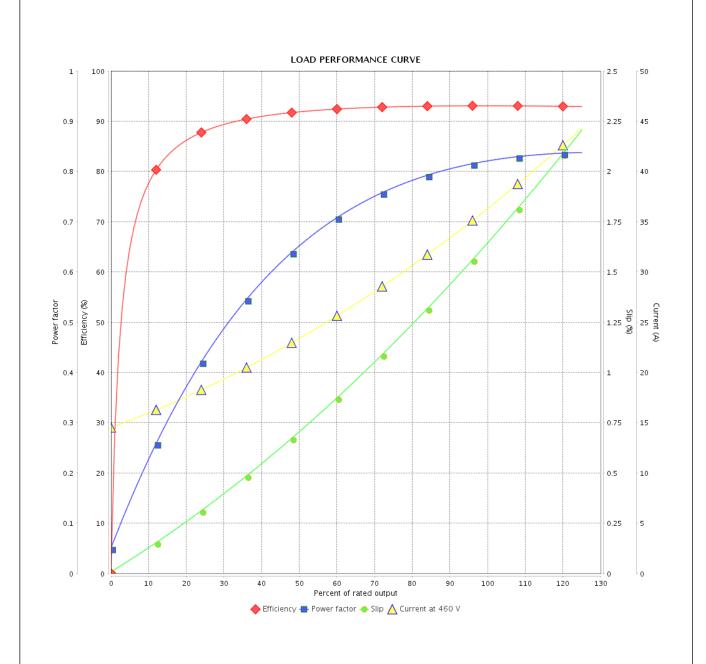
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431847

Phase

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Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.2 A : 6.2 : 134 ft.lb : 220 % : 240 % : 1180 rpm	Moment of in Duty cycle Insulation of Service fact Temperature Design	lass	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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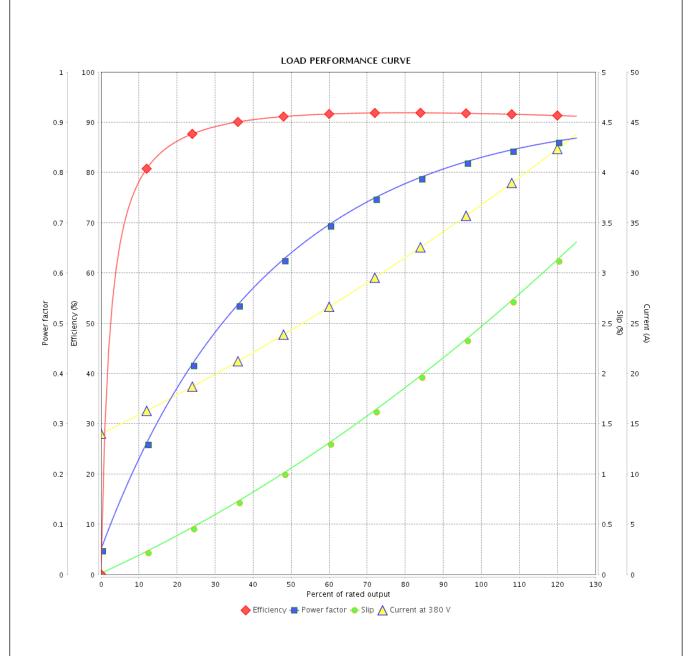
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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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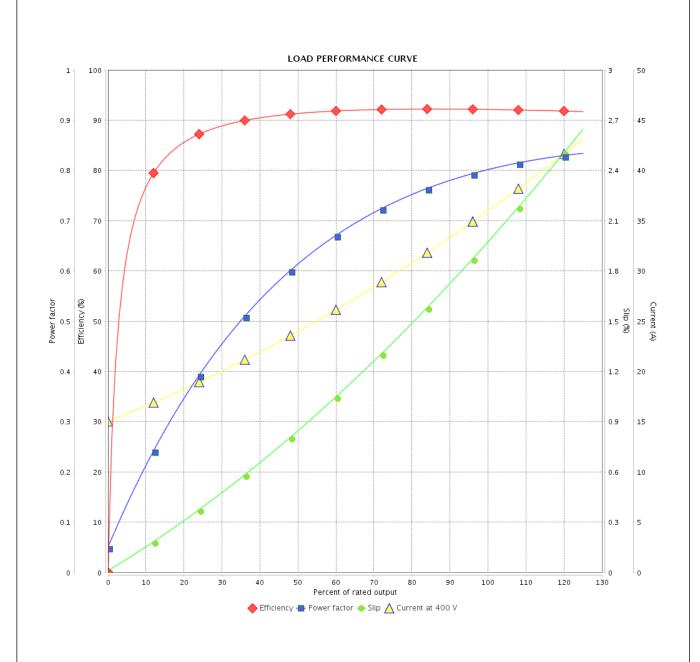
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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 36.2 A : 6.3 : 134 ft.lb : 220 % : 260 % : 980 rpm	Moment of in Duty cycle Insulation of Service fact Temperature Design	lass	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rated speed  Rev.	Changes Summary	Design	Performed	Checked	Date
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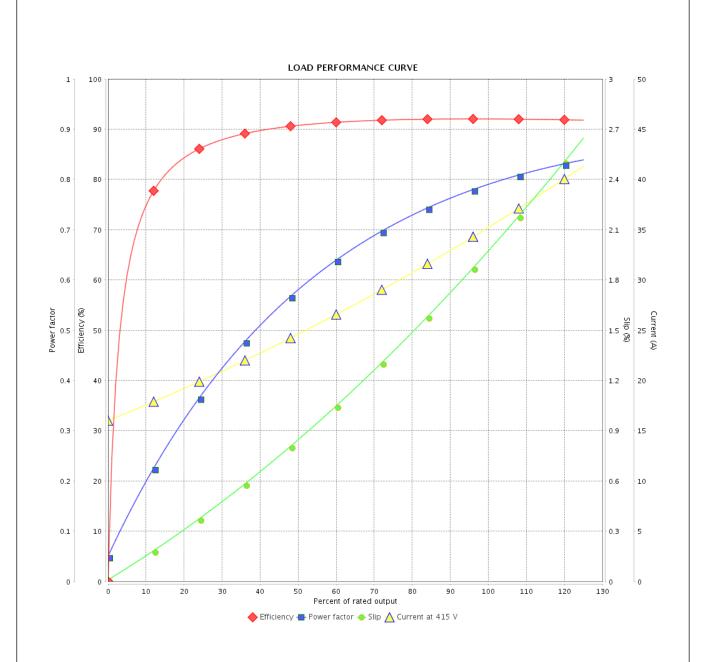
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 415 V 50 Hz 6P IE3				
Rated current	: 35.4 A	Moment of	inertia (J)	: 13.2 sq.ft.lb	
LRC	: 6.7	Duty cycle		: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation of	lass	: F	
Locked rotor torque	: 240 %	Service fac	tor	: 1.15	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 980 rpm	Design		: B	
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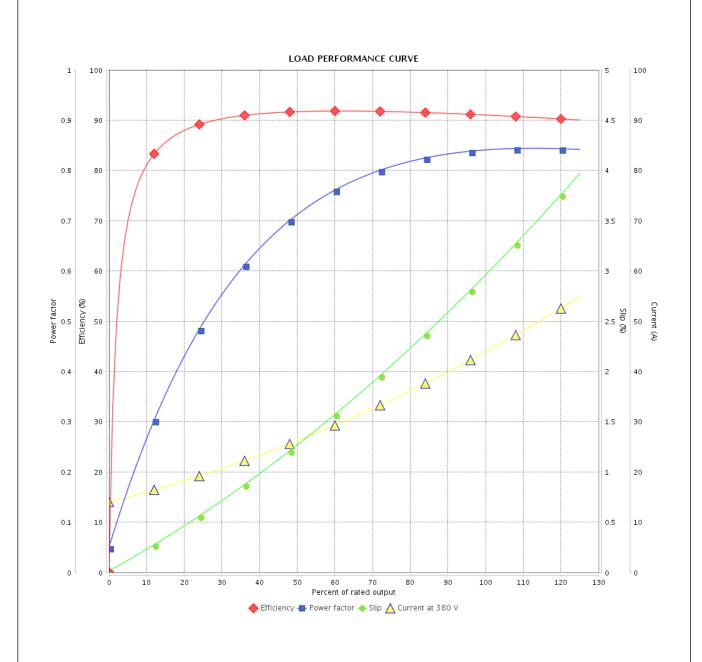


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431847

Phase

Catalog #: 03012ST3QIE326T-W22



Performance	: 3	880 V 50 Hz 6P IE2				
Rated current	: 4	13.7 A	Moment o	f inertia (J)	: 13.2 sq.ft.lb	
LRC	: 4	l.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	62 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 1	160 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	200 %	Temperati	ıre rise	: 80 K	
Rated speed	: 9	970 rpm	Design		: B	
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Phase

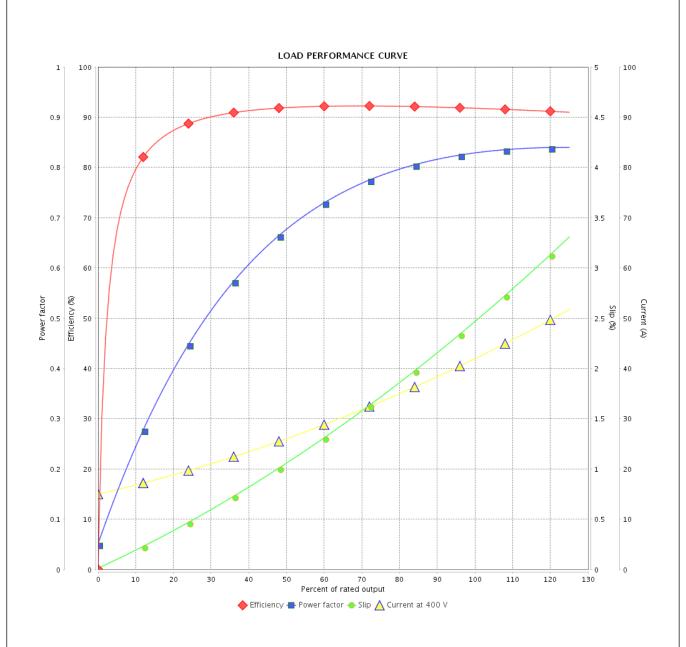
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Performance	: 4	00 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 1 jue : 1	1.7 A 6.4 62 ft.lb 80 % 120 % 175 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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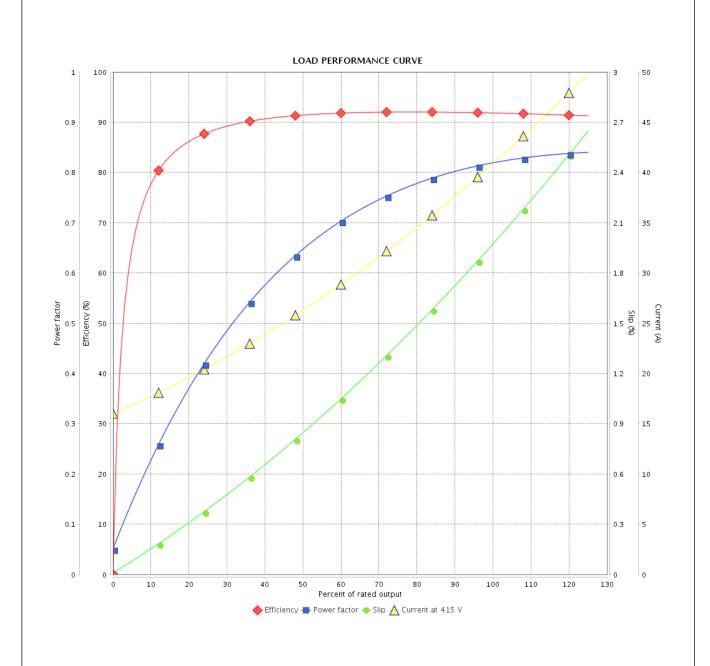


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Product line : NEMA Premium Efficiency Three- Product code : 11431847

Phase

Catalog #: 03012ST3QIE326T-W22



Performance	: 4	15 V 50 Hz 6P IE2				
Rated current	: 4	0.7 A	Moment o	f inertia (J)	: 13.2 sq.ft.lb	
LRC	: 5	5.8	Duty cycle		: Cont.(S1)	
Rated torque	: 1	61 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	.00 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	40 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 9	180 rpm	Design		: B	
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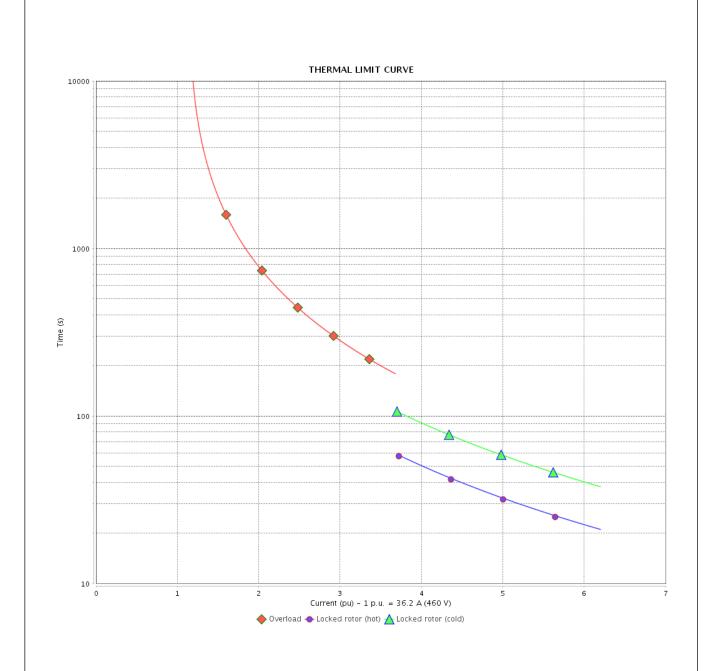


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431847 03012ST3QIE	:326T-W22
Performance		: 460 V 60 Hz 6P		<u> </u>		
Rated current LRC		: 36.2 A : 6.2	Duty cycle		: 13.2 sq.ft.lb : Cont.(S1)	
Rated torque		: 134 ft.lb : 220 %	Insulation Service fa		: F : 1.25	
Locked rotor tord Breakdown torqu		: 220 % : 240 %	Temperat		: 1.25 : 80 K	
Rated speed		: 1180 rpm	Design		: B	
Heating constant						
Cooling constant	<u>t</u>	Changes Commercial		Douts was!	Charles I	Data
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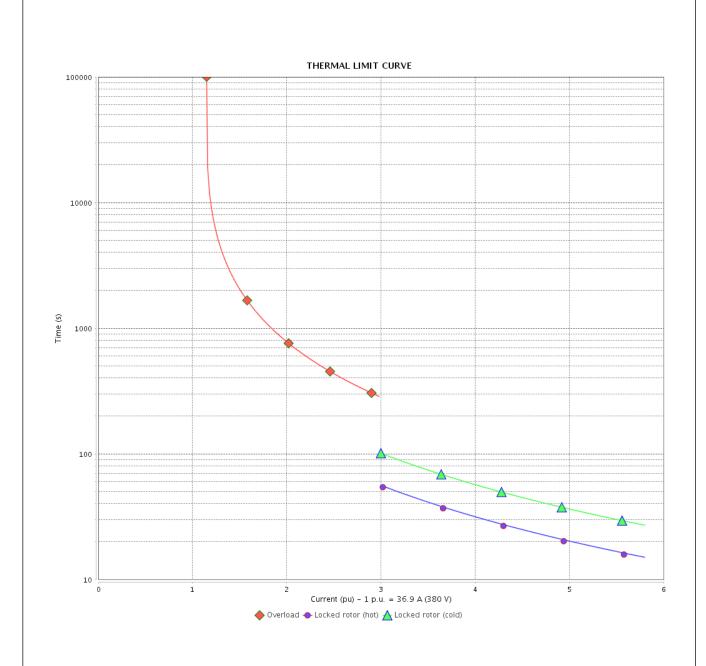


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	11431847 03012ST3QIE	E326T-W22
			Suturing # .		3231 WZZ
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 380 V 50 Hz 6P IE3 : 36.9 A : 5.8 : 135 ft.lb : 190 % : 229 % : 975 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	Date
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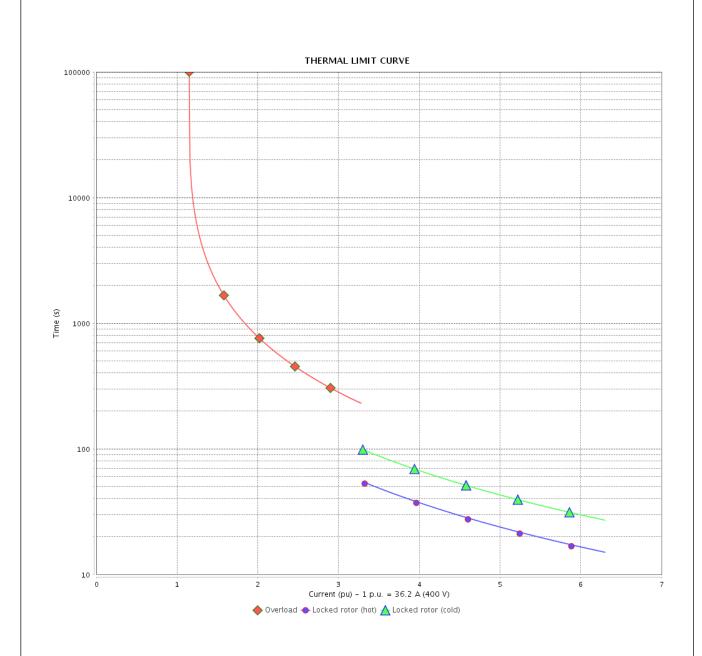


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2 201011101	•			
Product line	: NEMA Premium Efficiency	Three- Produ	ct code : 1	1431847
	Phase	Catalo		3012ST3QIE326T-W22
		Catalo	og # .	3012513QIE3201-W22
Performance	: 400 V 50 Hz 6P IE3			
Rated current	: 36.2 A	Moment of inerti		3.2 sq.ft.lb
LRC Rated torque	: 6.3 : 134 ft.lb	Duty cycle Insulation class	: C : F	Cont.(S1)
Locked rotor torque	: 220 %	Service factor	: 1	.15
Breakdown torque	: 260 %	Temperature rise	e : 8 : E	0 K
Rated speed	: 980 rpm	Design	: E	•
Heating constant				
Cooling constant  Rev.	Changes Summers	l Da	erformed Ch	necked Date
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### Three Phase Induction Motor - Squirrel Cage



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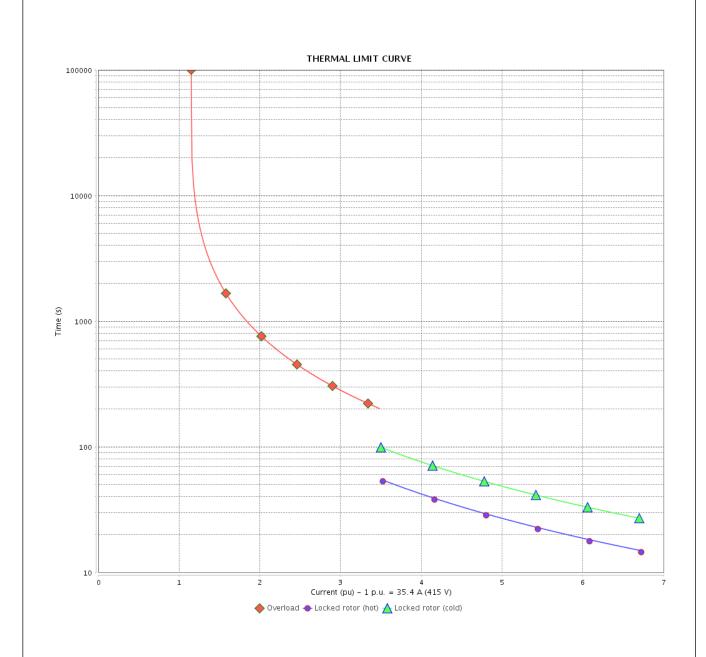


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431847 03012ST3QIE	:326T-W22
Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC		: 35.4 A : 6.7	Moment of Duty cycle	of inertia (J)	: 13.2 sq.ft.lb : Cont.(S1)	
Rated torque		: 134 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 240 % : 280 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 980 rpm	Design	uic lise	: B	
Heating constan						
Cooling constant	t	01 0				
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### Three Phase Induction Motor - Squirrel Cage



Customer



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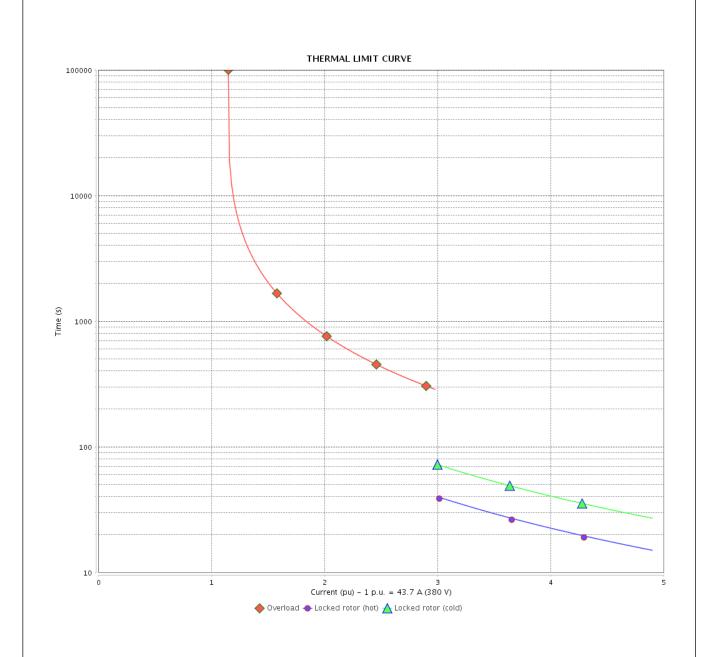


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11431847 03012ST3QIE	:326T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43 : 4. : 16 : 16 : 20	30 V 50 Hz 6P IE2 3.7 A 9 62 ft.lb 60 % 00 % 70 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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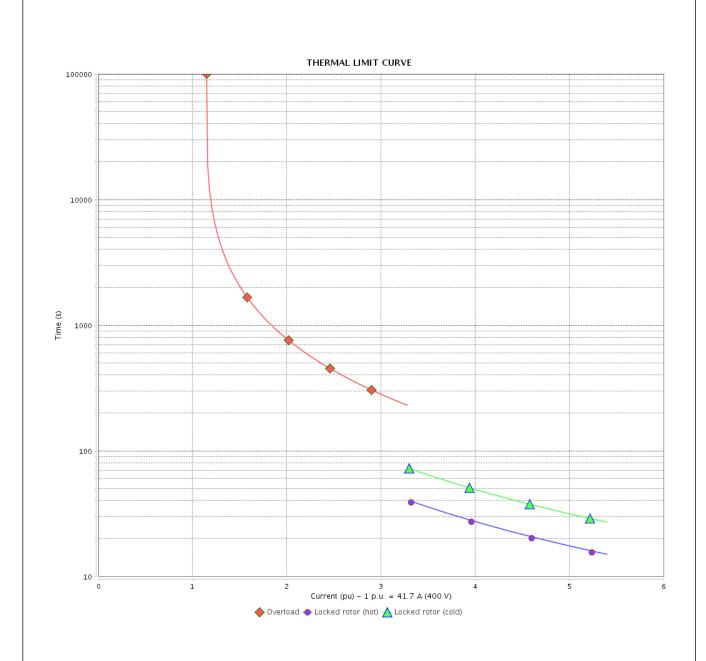


Customer	:					
Product line		NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	11431847 03012ST3QI	E326T-W22
Performance Rated current LRC Rated torque Locked rotor torce Breakdown torque Rated speed Heating constant	: 4 : 5 : 7 que : 7 : 9	400 V 50 Hz 6P IE2 41.7 A 5.4 162 ft.lb 180 % 220 % 975 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor ıre rise	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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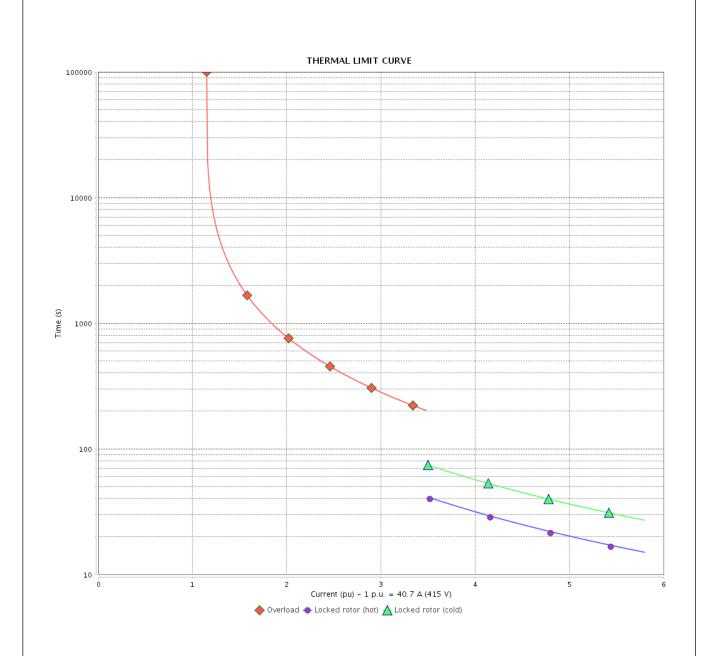


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11431847 03012ST3QIE	:326T-W22
Performance		: 415 V 50 Hz 6P IE2				
Rated current		: 40.7 A	Moment o	of inertia (J)	: 13.2 sq.ft.lb	
LRC Rated torque		: 5.8 : 161 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 200 %	Service fa		: 1.15	
Breakdown torqu Rated speed		: 240 % : 980 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant	t					
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### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



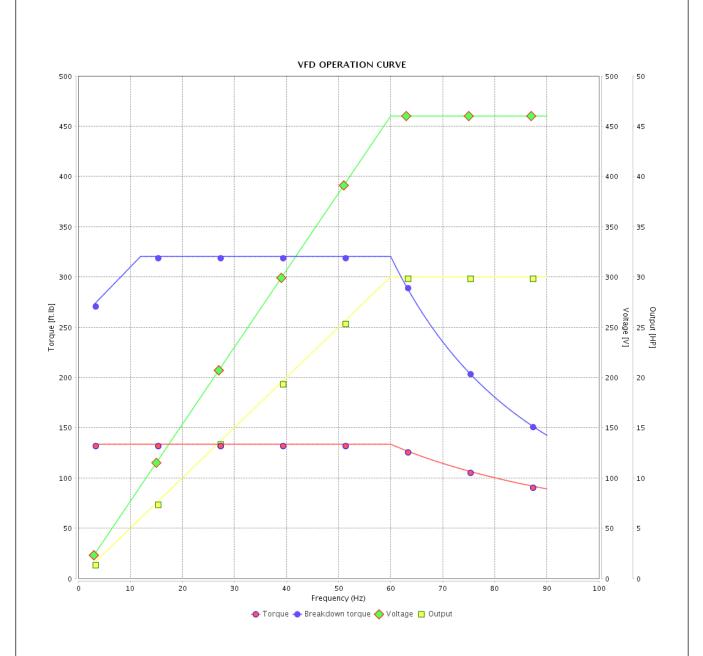
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11431847

Phase

Catalog #: 03012ST3QIE326T-W22

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Performance : 460 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.2 A : 6.2 : 134 ft.lb : 220 % : 240 % : 1180 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 13.2 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage

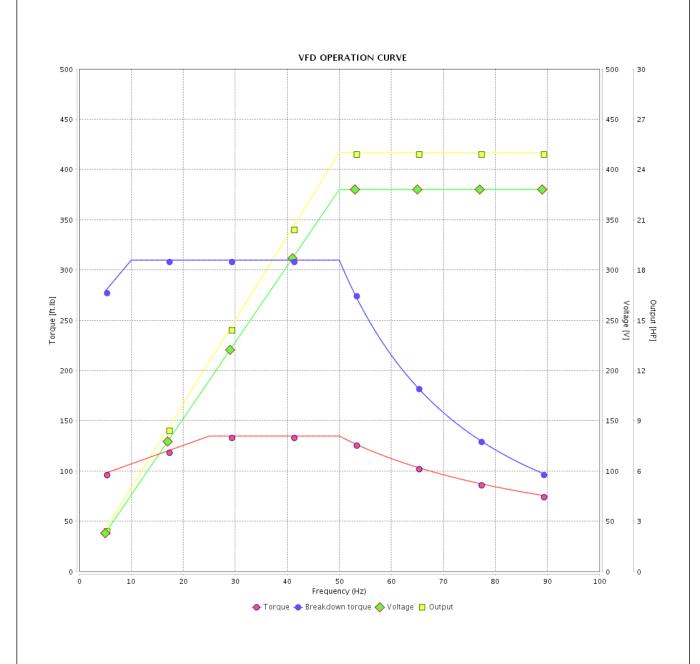


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431847

Phase

Catalog #: 03012ST3QIE326T-W22



Performance	: 38	380 V 50 Hz 6P IE3				
Rated current : 36.9 A		Moment o	of inertia (J)	: 13.2 sq.ft.lb		
LRC	: 5.	5.8 Duty cycle 35 ft.lb Insulation class		: Cont.(S1)		
Rated torque	: 13			class	: F	
Locked rotor torqu	ue : 19	: 190 % Service fac : 229 % Temperatu	ce factor	: 1.00		
Breakdown torque	e : 22		Temperati	ure rise	: 80 K	
Rated speed	: 97	P75 rpm Design			: B	
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#### Three Phase Induction Motor - Squirrel Cage



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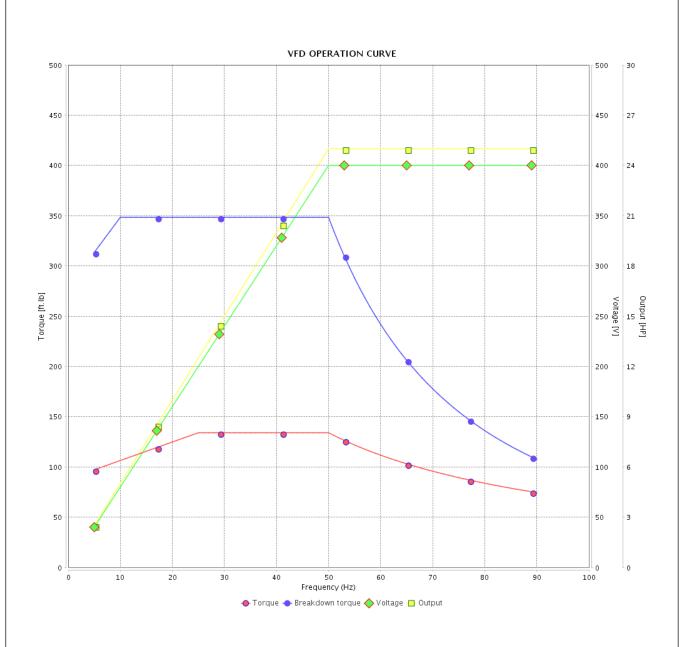
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431847

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Performance : 400 V 50 Hz 6P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.2 A : 6.3 : 134 ft.lb : 220 % : 260 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



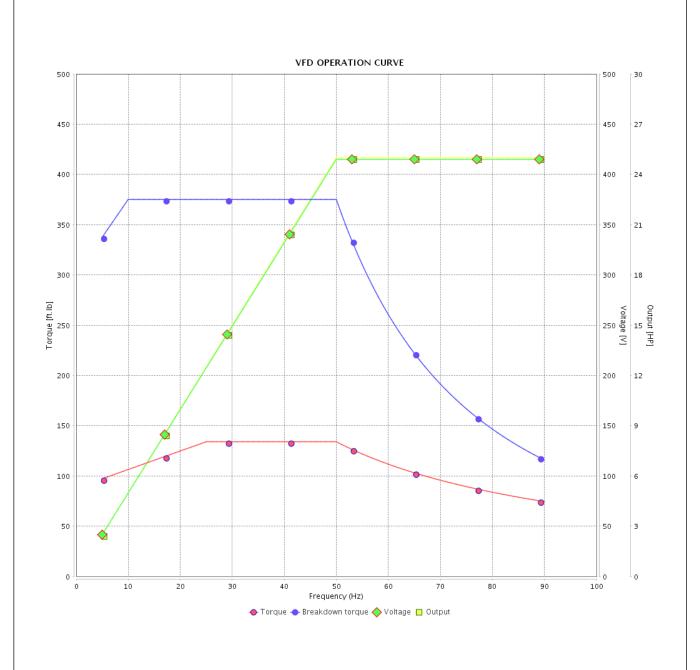
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03012ST3QIE326T-W22

11431847



Performance	: 4	415 V 50 Hz 6P IE3				
Rated current : 35.4 A		Moment o	Moment of inertia (J)			
LRC	: (	6.7	Duty cycle	}	: Cont.(S1)	
Rated torque	:	134 ft.lb	Insulation class		: F	
Locked rotor torque		240 %	Service factor		: 1.15	
Breakdown torque	: 2	280 %	Temperati	Temperature rise		
Rated speed	: 9	: 980 rpm		Design		
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#### Three Phase Induction Motor - Squirrel Cage



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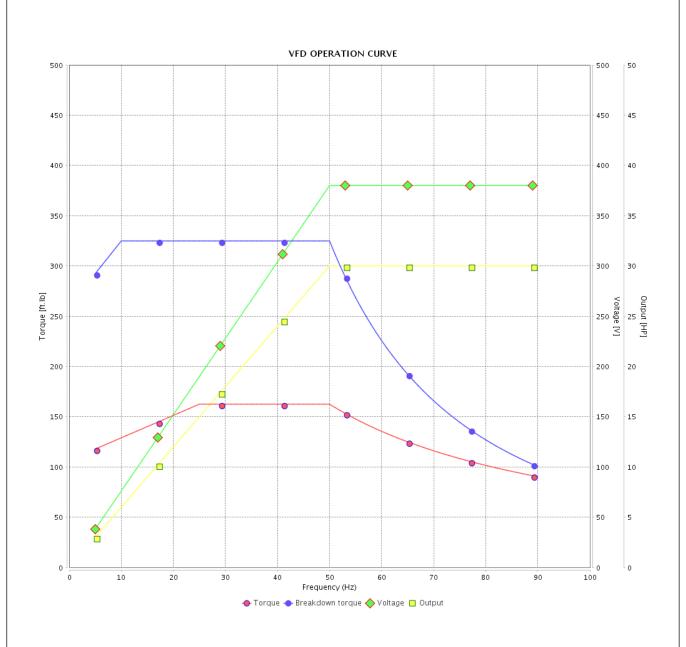
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11431847

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Performance	: 380 V 50 Hz 6P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.7 A : 4.9 : 162 ft.lb : 160 % : 200 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
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#### Three Phase Induction Motor - Squirrel Cage



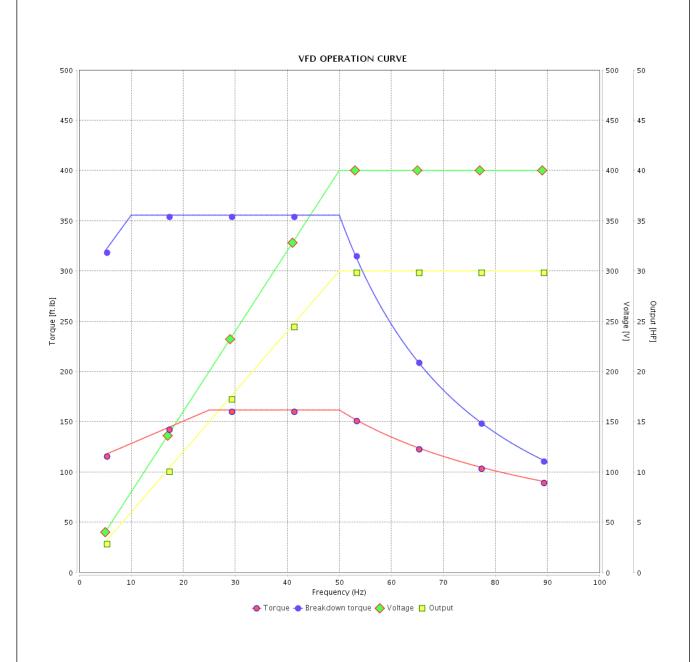
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11431847

Phase

Catalog #: 03012ST3QIE326T-W22

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Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

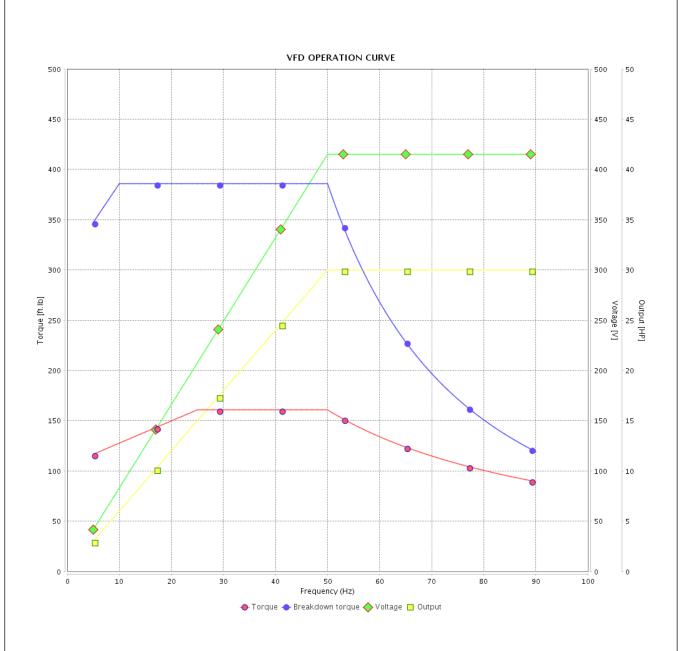
Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 11431847

Catalog #: 03012ST3QIE326T-W22

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Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC	: 40.7 A : 5.8	Moment of inertia (J) Duty cycle		: 13.2 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque	: 161 ft.lb : 200 % : 240 %	Insulation class Service factor Temperature rise Design		: F : 1.15 : 80 K	
Rated speed	: 980 rpm			: B	
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