### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13249038

Phase

Catalog #: 03012ET3E326TC-W22G

Frame : 324/6TC Cooling method : IC411 - TEFC

Insulation class : F 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> : 607 lb

Ailitude		. 1000 III.a.	5.1.	Approx	. weigni	. 0	U/ ID	
Protection degree : IP55			Momei	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]		230/460	380	400	415	380	400	415
Rated current [A]		72.4/36.2	36.9	36.2	35.4	43.7	41.7	40.7
L. R. Amperes [A]		449/224	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]		29.0/14.5	14.0	15.0	16.0	14.0	15.0	16.0
Rated speed [RPM]		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 torqu	e [%]	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 (9/)	50%	91.7	91.3	91.3	90.7	91.7	91.7	91.0
Efficiency (%)	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

Drive end Non drive end Foundation loads

0.39

0.61

0.74

0.80

0.36

0.58

0.71

0.79

Bearing type : 6312 C3 6212 C3 Max. traction : 1177 lb Sealing : V'Ring V'Ring Max. compression : 1784 lb

20000 h

0.41

0.64

0.76

0.83

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

0.41

0.65

0.76

0.82

20000 h

Notes

Power Factor

Lubrication interval

USABLE @208V 79.2A SF 1.15 SFA 91.0A

25%

50%

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.

0.48

0.71

0.80

0.84

0.44

0.68

0.78

0.83

0.41

0.65

0.76

0.82

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#### Three Phase Induction Motor - Squirrel Cage



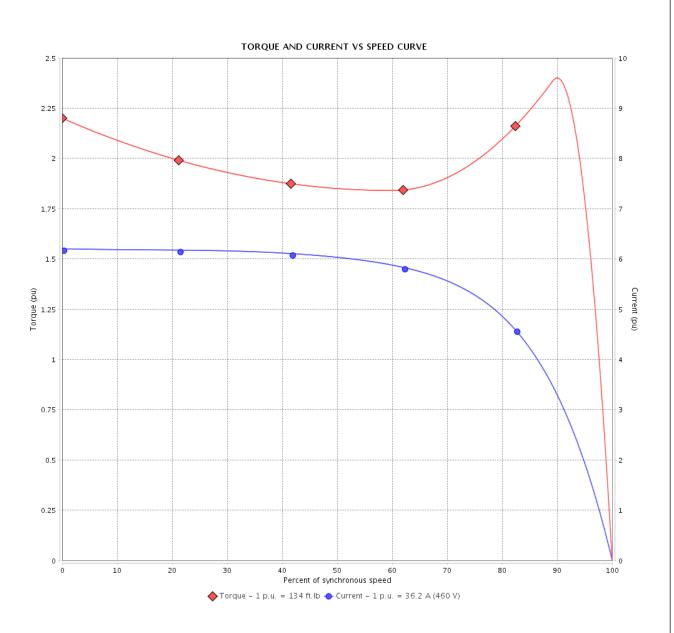
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13249038

Catalog #: 03012ET3E326TC-W22G



Performance : 230/460 V 60 Hz 6P Rated current : 72.4/36.2 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: 13249038 Catalog #: 03012ET3E326TC-W22G TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 135 ft.lb ◆ Current - 1 p.u. = 36.9 A (380 V)

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 : 190 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 229 % Temperature rise : B Rated speed : 975 rpm Design

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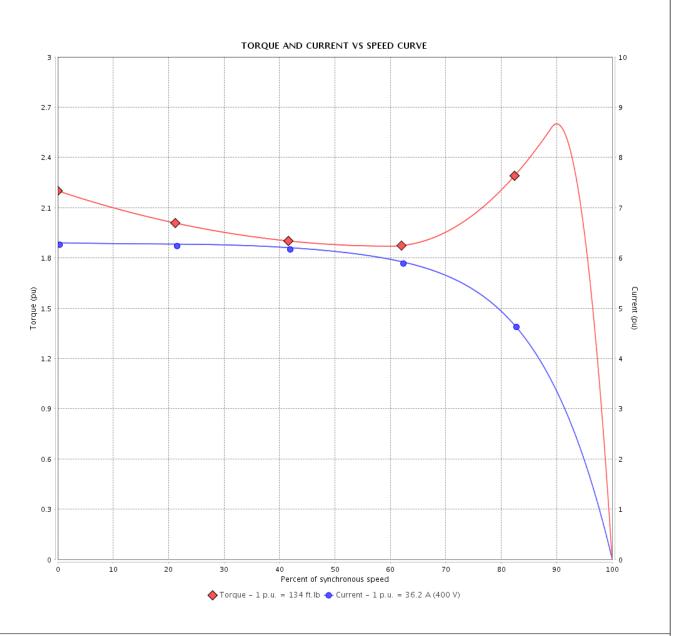


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13249038

Phase

Catalog #: 03012ET3E326TC-W22G



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
Looked veter times	. 27a (aald) 45a (bat)		

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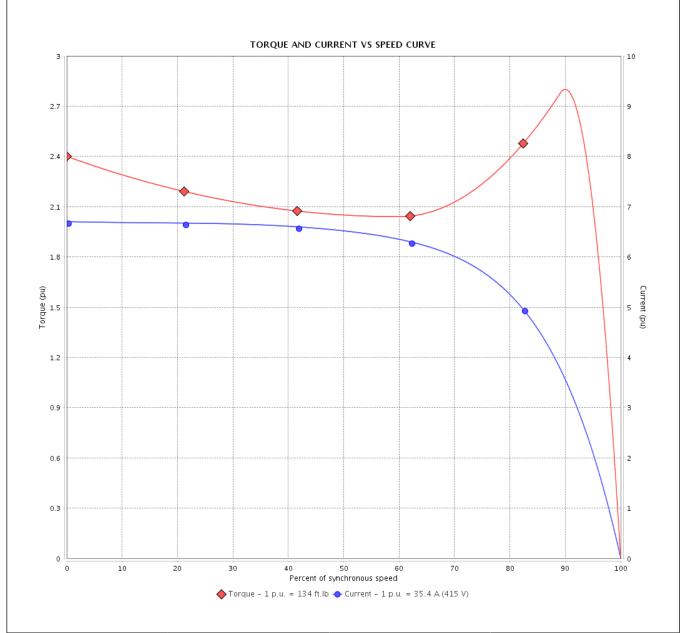


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13249038

Phase

Catalog #: 03012ET3E326TC-W22G



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 reter time	: 27s (sold) 15s (hot)		

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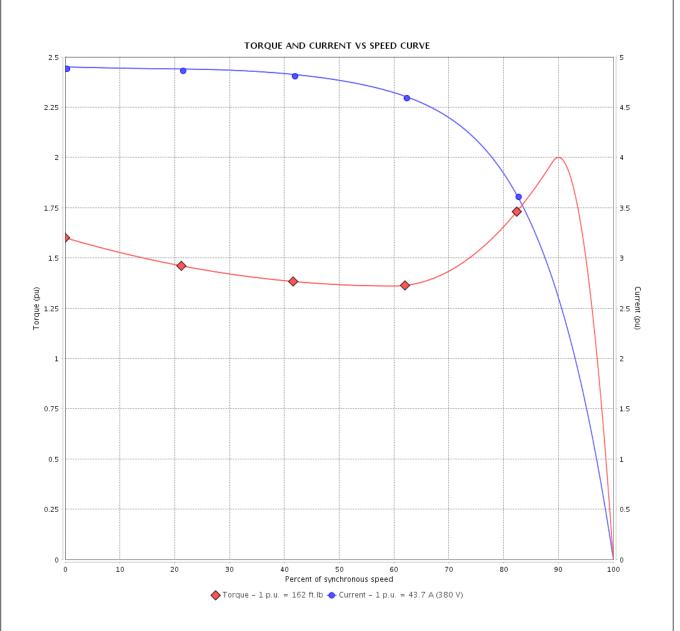
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03012ET3E326TC-W22G

13249038



of inertia (J) : 13.2 sq.ft.lb
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n class : F
actor : 1.00
ture rise : 80 K
: B
le : Cont.(S1) n class : F factor : 1.00 ture rise : 80 K

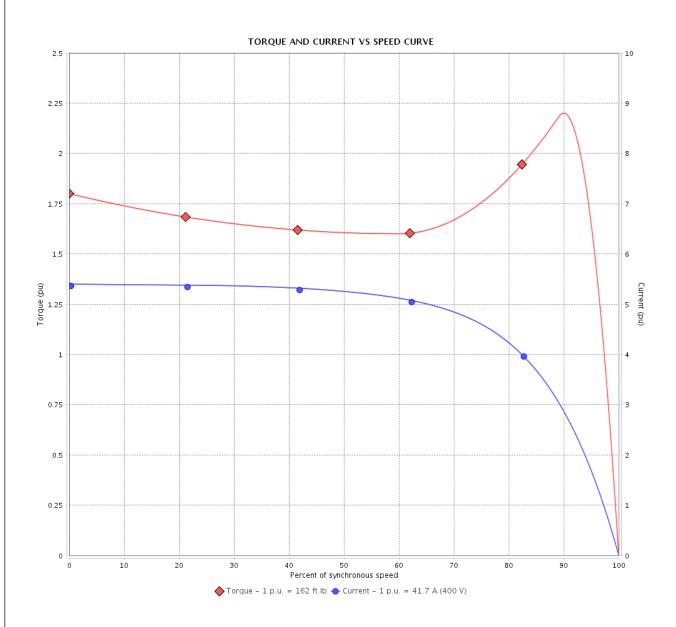
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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 13249038

> Catalog #: 03012ET3E326TC-W22G



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)			

Locked folor tilling	. 2	75 (COId) 155 (110t)			
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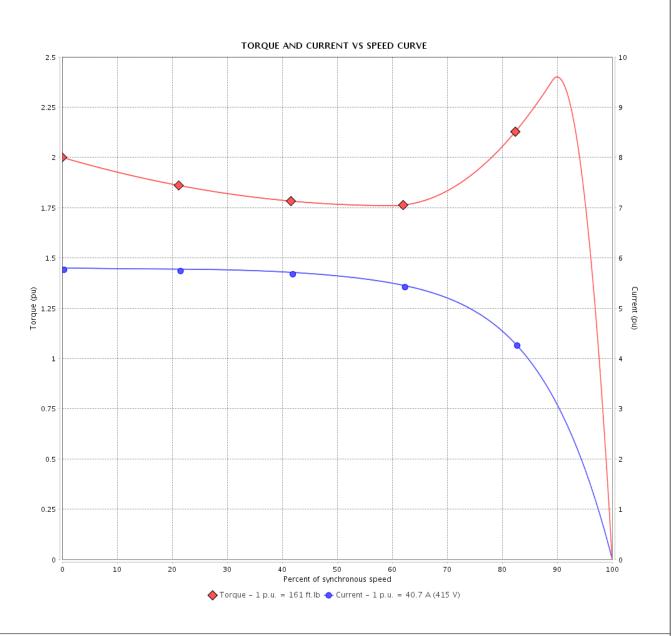
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03012ET3E326TC-W22G

13249038



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	
Laskad vatav tima	. 07a (aald) 45a (bat)	'		

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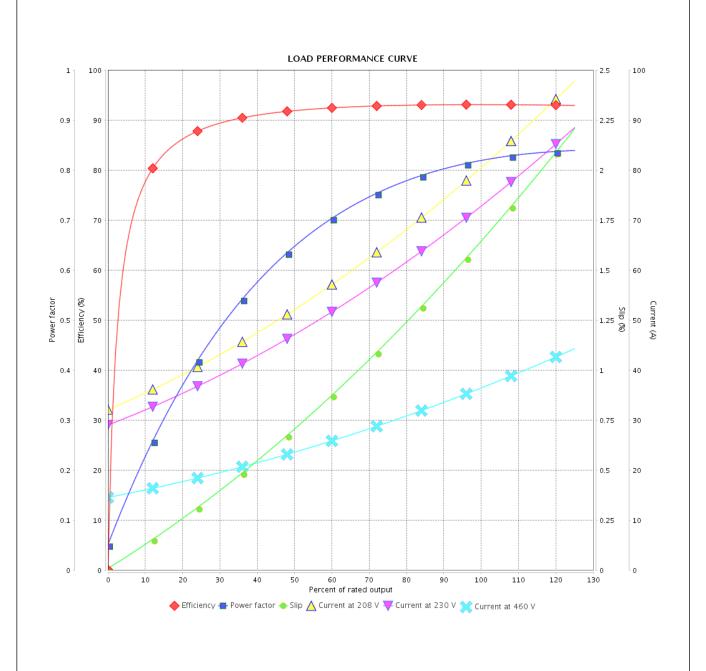


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13249038

Phase

Catalog #: 03012ET3E326TC-W22G



Performance	<u>:</u>	: 230/460 V 60 Hz 6P				
Rated current	ated current : 72.4/36.2 A		Moment of	Moment of inertia (J)		
LRC	:	6.2	Duty cycle	•	: Cont.(S1)	
Rated torque	-	134 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	220 %	Service fa	Service factor		
Breakdown torque : 240 %		240 %	Temperat	Temperature rise		
Rated speed	:	1180 rpm	Design		: B	
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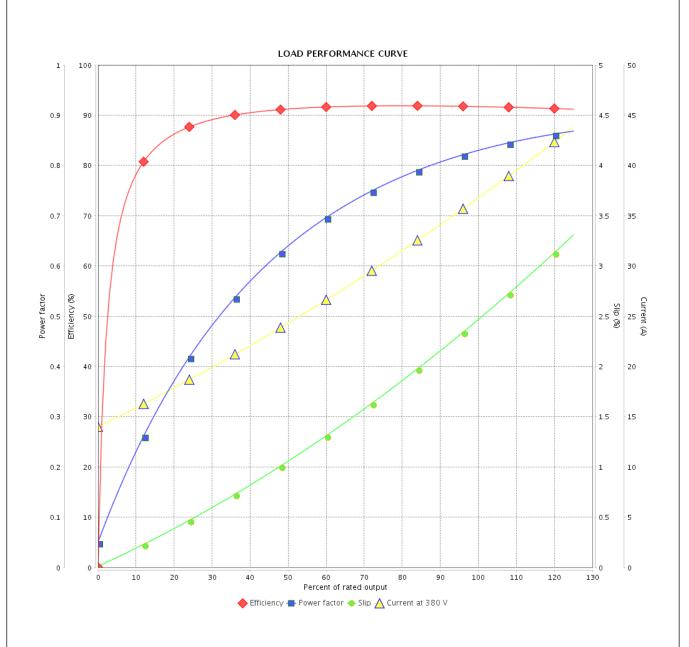
Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 13249038

Catalog #: 03012ET3E326TC-W22G

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 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	
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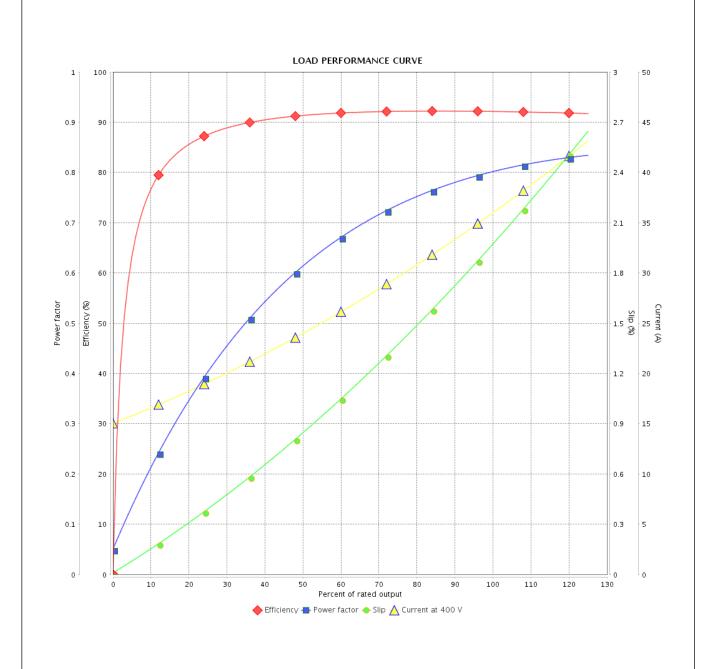
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13249038

Catalog #: 03012ET3E326TC-W22G



Performance	: 4	: 400 V 50 Hz 6P IE3				
Rated current	ated current : 36.2 A		Moment o	f inertia (J)	: 13.2 sq.ft.lb	
LRC	: 6	.3	Duty cycle	)	: Cont.(S1)	
Rated torque	: 1	34 ft.lb	Insulation	class	: F	
Locked rotor torque : 220 %		20 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	60 %	Temperati	Temperature rise		
Rated speed	: 9	80 rpm	Design		: B	
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Customer :

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Product line : NEMA Premium Efficiency Three- Pro

Phase

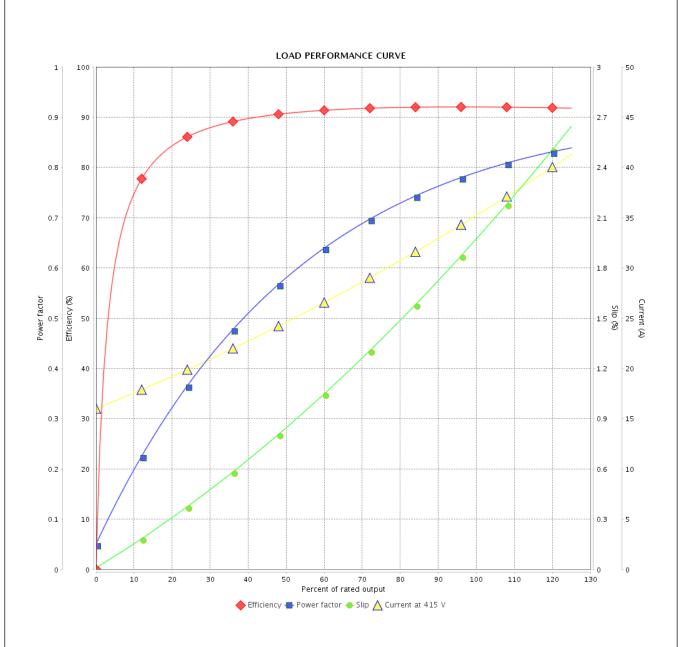
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Performance	:	: 415 V 50 Hz 6	SP IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	  ue  e :	: 35.4 A : 6.7 : 134 ft.lb : 240 % : 280 % : 980 rpm	]  -  -	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

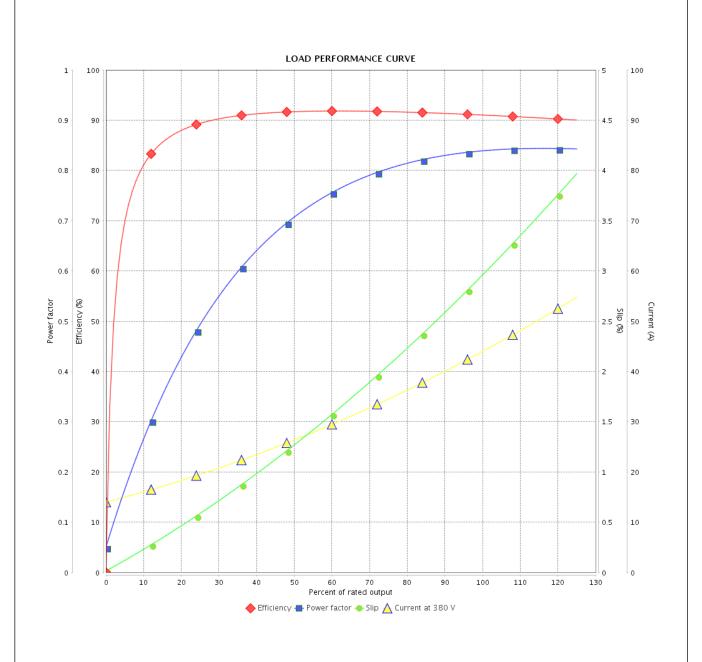


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13249038

Phase

Catalog #: 03012ET3E326TC-W22G



Performance	nance : 380 V 50 Hz 6P IE2					
Rated current	ated current : 43.7 A		Moment o	f inertia (J)	: 13.2 sq.ft.lb	
LRC	: 4	9	Duty cycle	)	: Cont.(S1)	
Rated torque	: 1	62 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 1	60 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	.00 %	Temperati	Temperature rise		
Rated speed	: 9	70 rpm Design		: B		
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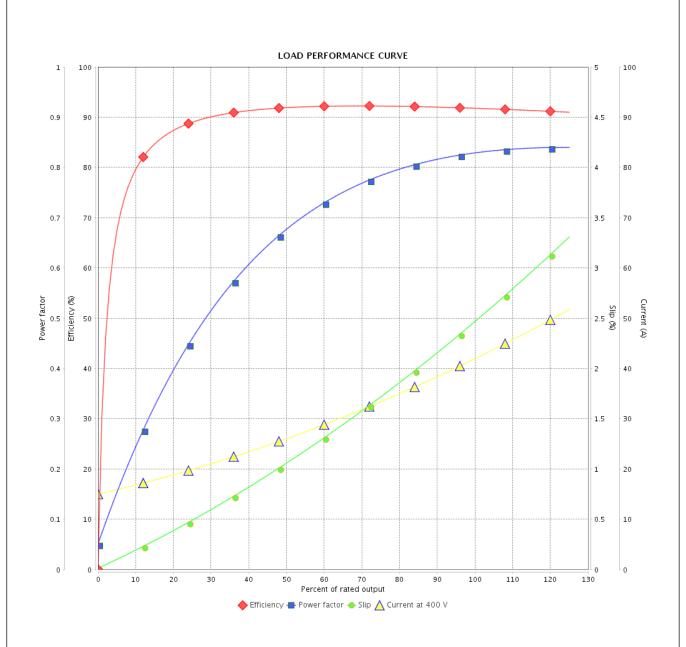
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Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 13249038

Catalog #: 03012ET3E326TC-W22G



Performance	: 4	00 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 10 gue : 13 gue : 20	1.7 A .4 62 ft.lb 80 % 20 % 75 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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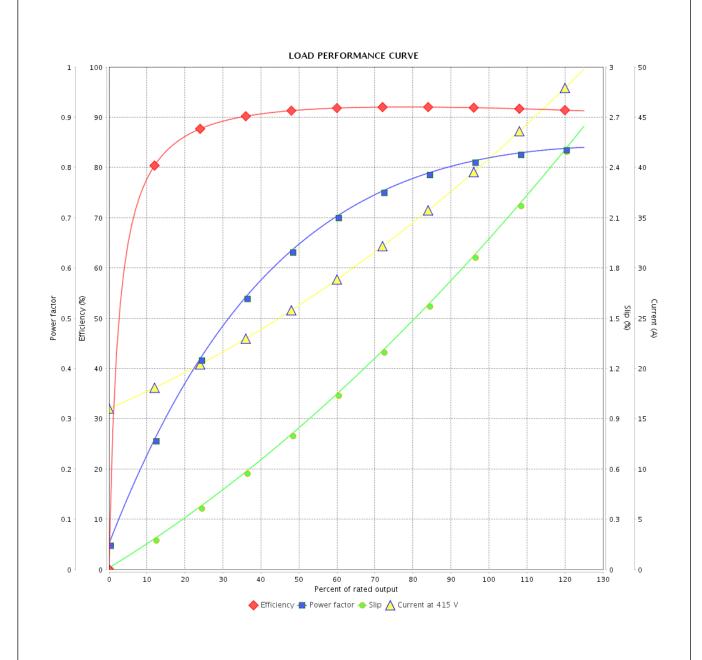
Customer

Product line : NEMA Premium Efficiency Three- Product code : 13249038

Phase

Catalog #: 03012ET3E326TC-W22G

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Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	RC : 5.8 Duty ated torque : 161 ft.lb Insul ocked rotor torque : 200 % Serv eakdown torque : 240 % Temp		class	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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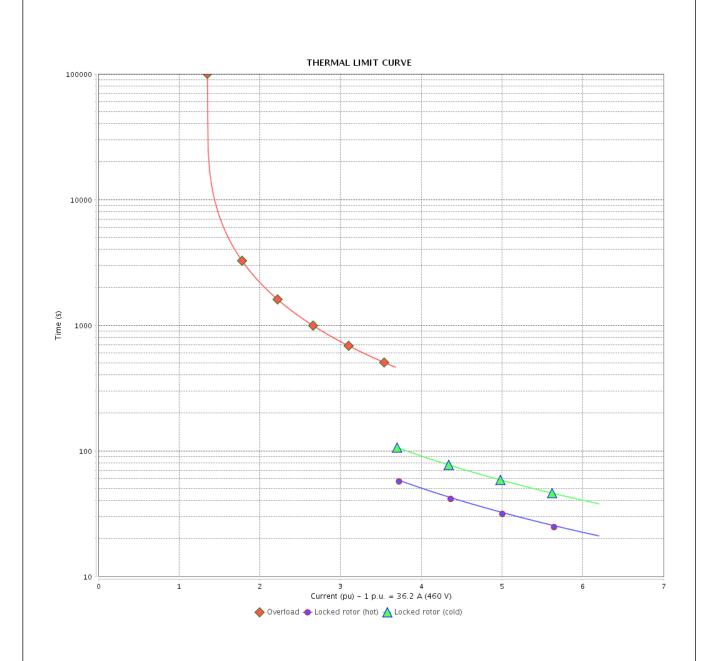


Customer	:				·	
Product line	: 1	NEMA Premium Efficiency	Three-	Product code :	13249038	
	Pl	hase		Catalog # :	03012ET3E32	26TC-W22G
					03012213232	
Performance	: 23	30/460 V 60 Hz 6P				
Rated current		2.4/36.2 A	Moment o	f inertia (J)	: 13.2 sq.ft.lb	
LRC Rated torque	: 6. : 13	2 34 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 22	20 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		40 % 180 rpm	Temperatu Design	ure rise	: 80 K : B	
	. 1		Design		. <b>D</b>	
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Cooling constant  Rev.		Changes Summary		Performed	Checked	Date
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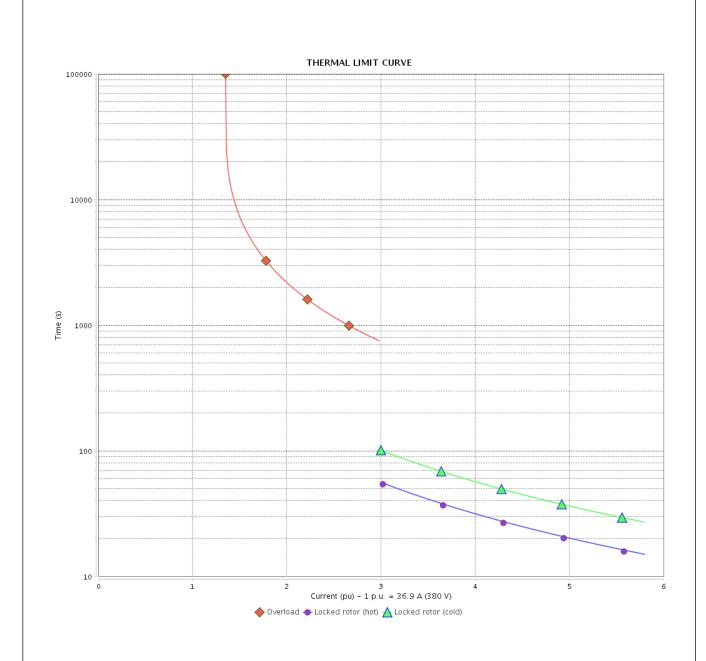


Customer	:				·	
Product line		NEMA Premium Efficiency	Three-	Product code :	13249038	
	P	hase		Catalog # :	03012ET3E32	26TC-W22G
<b>D</b> . (		20.1/50.11 00.150				
Performance Rated current		30 V 50 Hz 6P IE3 5.9 A	Moment o	f inertia (J)	: 13.2 sq.ft.lb	
LRC	: 5.	8	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torqu		35 ft.lb 90 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 22	29 %	Temperatu		: 80 K	
Rated speed	: 97	75 rpm	Design		: B	
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Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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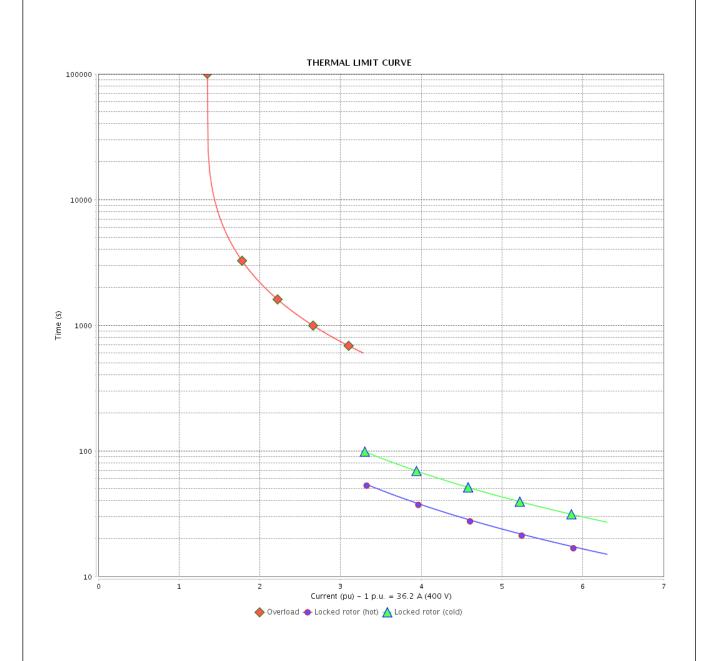


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	13249038	
	Phase		Catalog # :	03012ET3E32	26TC-W22G
Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC	: 36.2 A : 6.3	Moment o	f inertia (J)	: 13.2 sq.ft.lb	
Rated torque	: 0.3 : 134 ft.lb	Duty cycle Insulation	; class	: Cont.(S1) : F	
Locked rotor torque	: 220 %	Service fa		: 1.15	
Breakdown torque Rated speed	: 260 % : 980 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant	•				
Cooling constant					
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### Three Phase Induction Motor - Squirrel Cage



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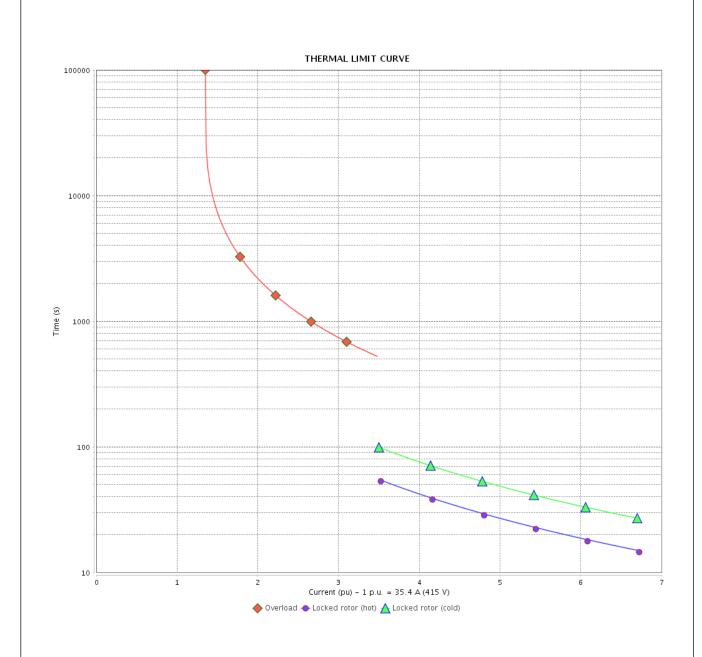


Customer		:				
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	13249038 03012ET3E32	6TC-W22G
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: : : : : : : : :	415 V 50 Hz 6P IE3  35.4 A 6.7 134 ft.lb 240 % 280 % 980 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 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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### Three Phase Induction Motor - Squirrel Cage

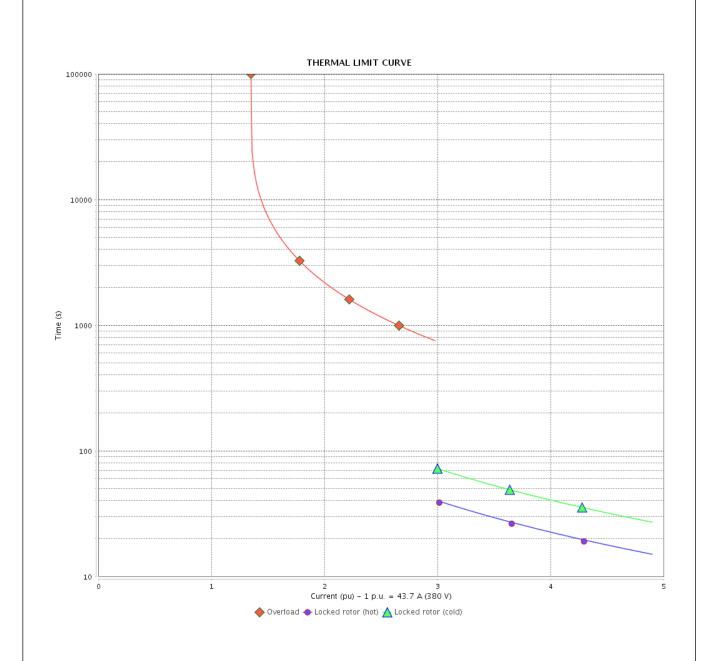


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	13249038 03012ET3E3	26TC-W22G
Performance	: 380 V 50 Hz 6P IE2				
Rated current	: 43.7 A	Moment o	f inertia (J)	: 13.2 sq.ft.lb	
LRC	: 4.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torque	: 162 ft.lb : 160 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 200 %	Temperatu		: 80 K	
Rated speed	: 970 rpm	Design		: B	
Heating constant					
Cooling constant			Y		
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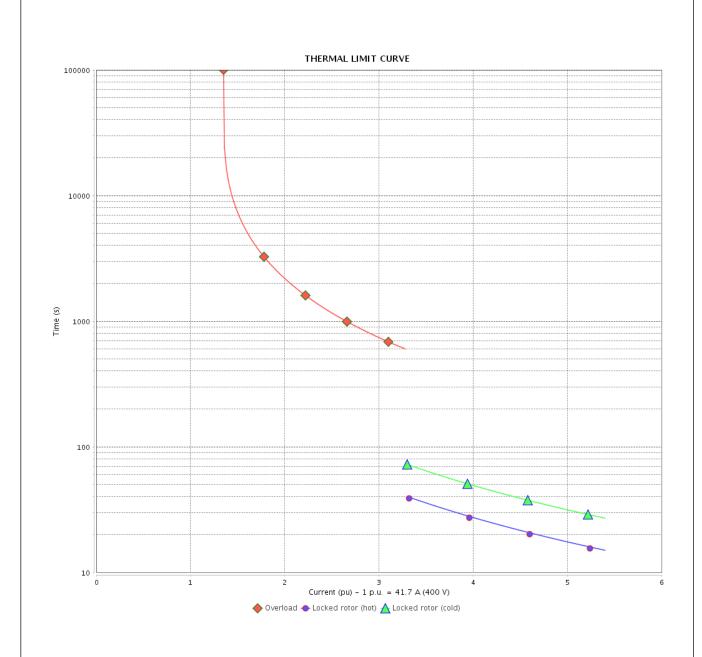


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13249038 03012ET3E32	6TC-W22G
Performance		: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	jue ie	: 41.7 A : 5.4 : 162 ft.lb : 180 % : 220 % : 975 rpm	Moment of Duty cycle Insulation Service far Temperate Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage

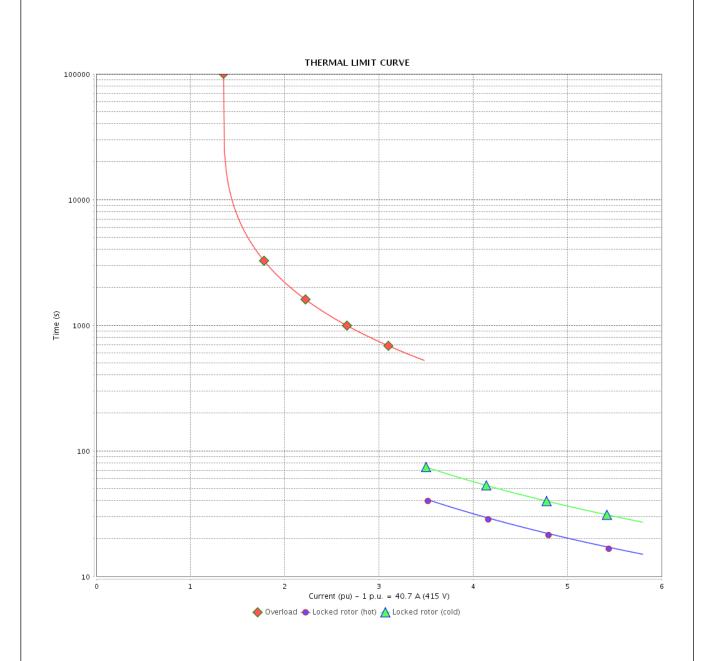


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13249038 03012ET3E32	26TC-W22G
				<u> </u>		
Performance		: 415 V 50 Hz 6P IE2				
Rated current LRC		: 40.7 A : 5.8	Duty cycle		: 13.2 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 161 ft.lb : 200 %	Insulation Service fa	class	: F : 1.15	
Breakdown torqu	ue	: 240 %	Temperat		: 80 K	
Rated speed		: 980 rpm	Design		: B	
Heating constant						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



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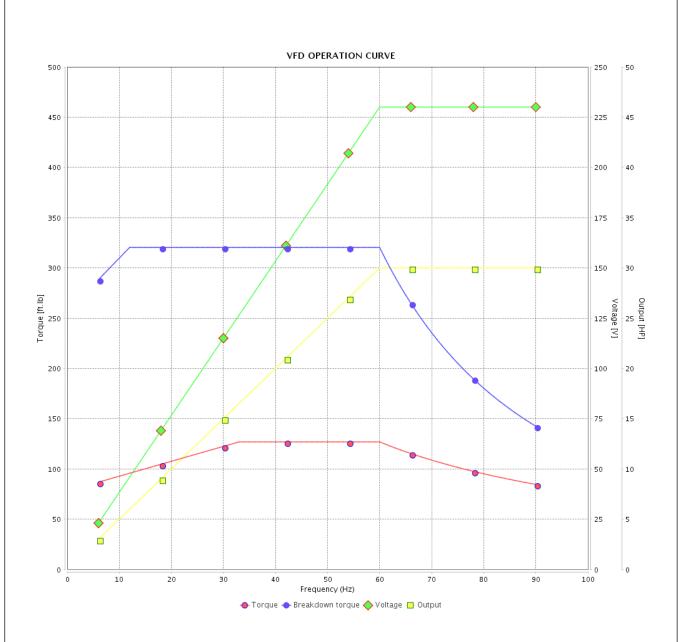
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13249038

Catalog #: 03012ET3E326TC-W22G

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Performance : 230/460 V 60 Hz 6P : 72.4/36.2 A Rated current Moment of inertia (J) : 13.2 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class : 134 ft.lb : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Page Checked by Revision

### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product code : 13249038

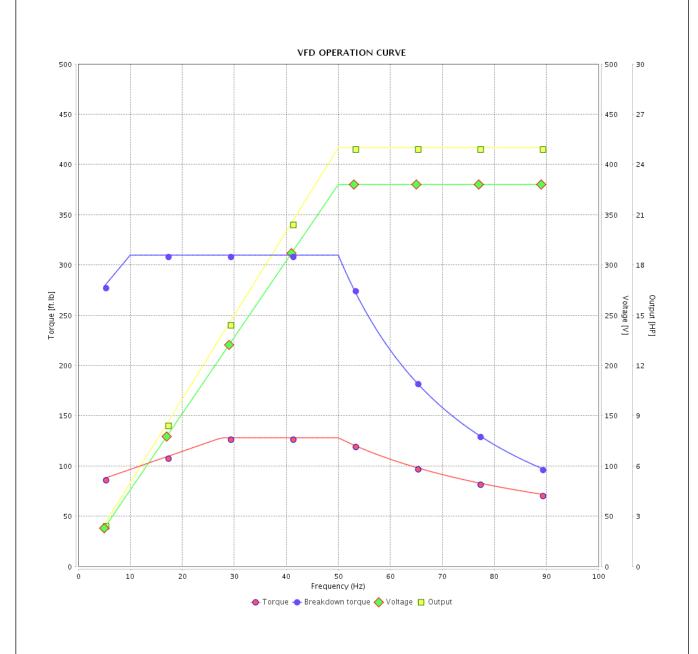
Phase

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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		ctor	: 1.00		
Breakdown torque	: 229 %	Temperature rise		: 80 K		
Rated speed	: 975 rpm	Design		: B		
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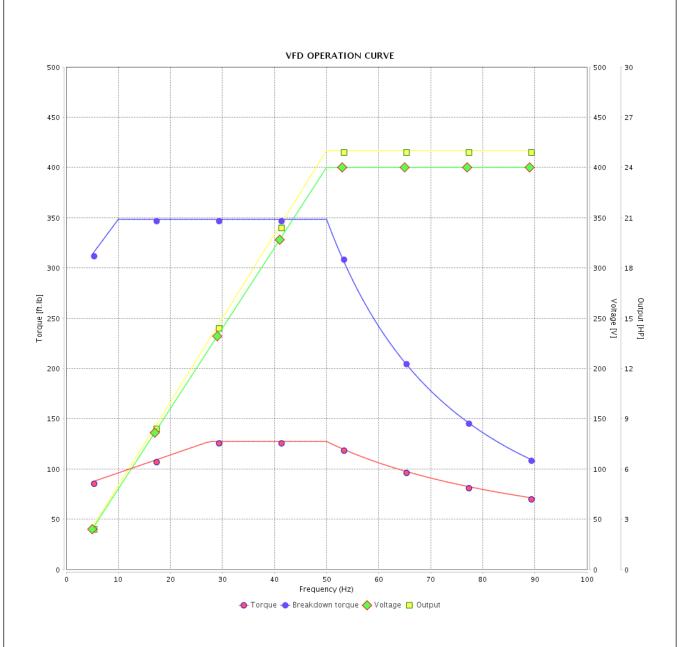
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13249038

Catalog #: 03012ET3E326TC-W22G



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

### Three Phase Induction Motor - Squirrel Cage



Customer

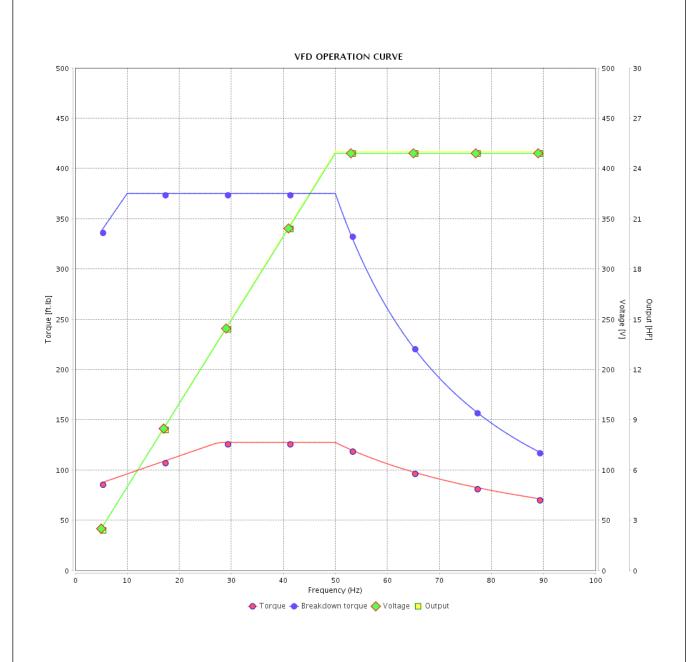
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03012ET3E326TC-W22G

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13249038



Performance : 415 V 50 Hz 6P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.4 A : 6.7 : 134 ft.lb : 240 % : 280 % : 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	
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#### Three Phase Induction Motor - Squirrel Cage



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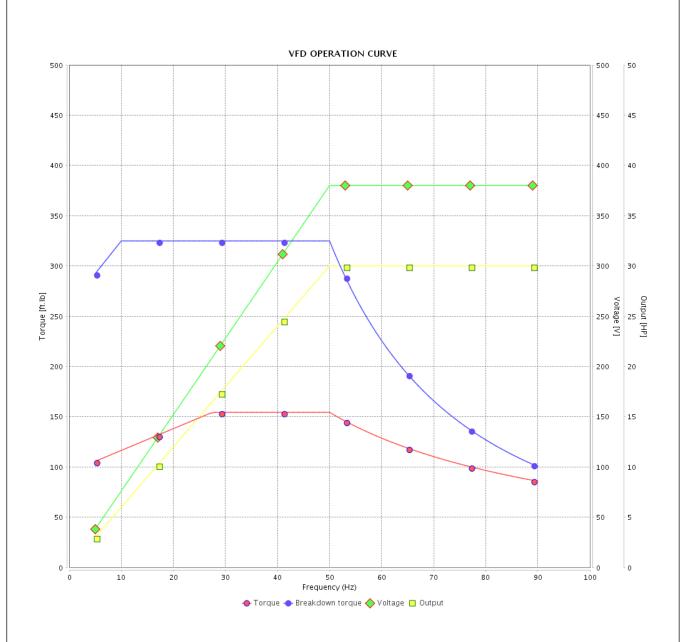
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13249038

Catalog #: 03012ET3E326TC-W22G

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

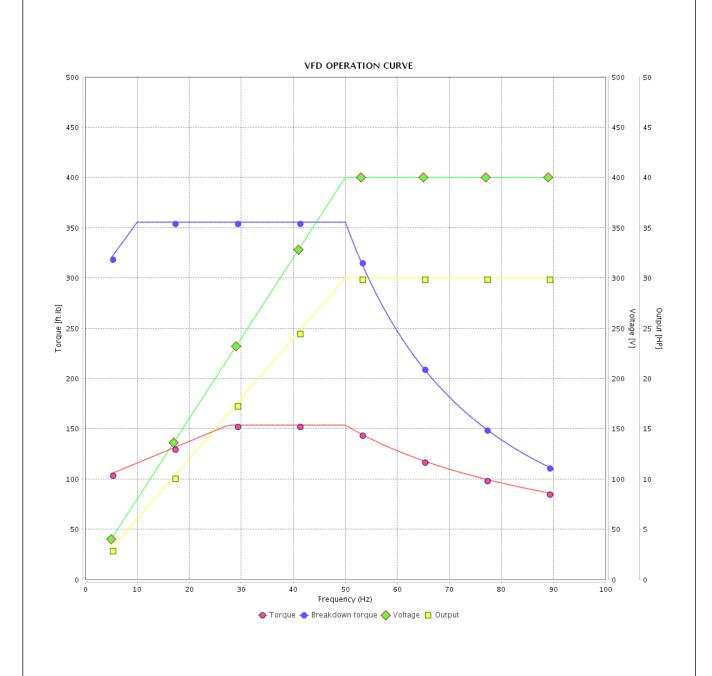


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13249038

Phase

Catalog #: 03012ET3E326TC-W22G



Performance	: 4	: 400 V 50 Hz 6P IE2						
Rated current : 4		1.7 A	Moment of	Moment of inertia (J)				
LRC	: 5	.4	Duty cycl	Duty cycle		: Cont.(S1)		
Rated torque			ı class	: F				
Locked rotor torq			actor	: 1.15				
Breakdown torqu	ie : 2	220 % Temperat	ure rise	: 80 K				
Rated speed	: 9	75 rpm Design		: B				
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#### Three Phase Induction Motor - Squirrel Cage



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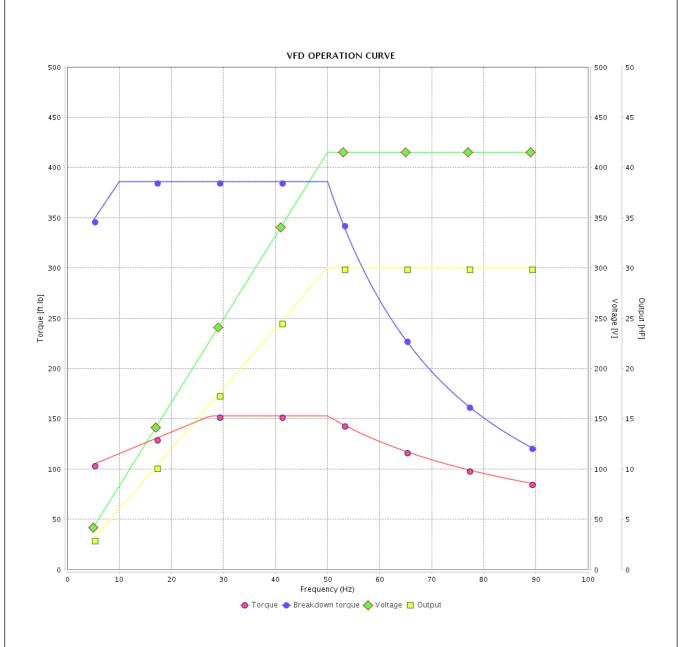
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13249038

Catalog #: 03012ET3E326TC-W22G

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