DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12039624

Phase

Catalog #: 03012ST3QIE326TC-W22

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

Insulation class : F Mounting : F-1

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. weight³ : 612 lb

Protection degree Design	е	: IP55 : B		Momer	nt of inertia (J)	: 1	3.2 sq.ft.lb	
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	/ []	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)
N1 . ' 12		21s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)
Noise level ²	0.50/	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
Lineieney (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
I OWEL FACIOI	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

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

Bearing type : 6312 C3 6212 C3 Max. traction : 1175 lb Sealing : Inpro/Seal Inpro/Seal Max. compression : 1787 lb

Lubrication interval : 20000 h 20000 h Lubricant amount : 21 g 13 g Lubricant type : Mobil Polyrex EM

Notes

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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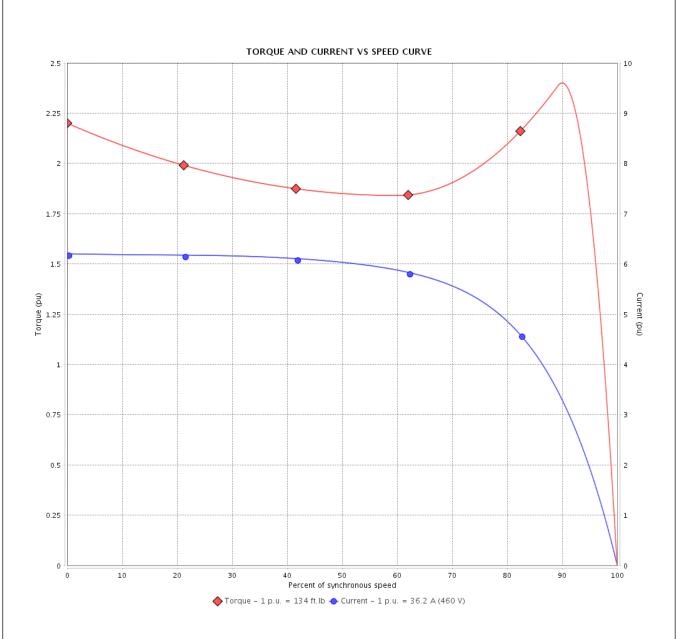


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12039624

Phase

Catalog #: 03012ST3QIE326TC-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

Locked rotor time : 37s (cold) 21s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12039624 Catalog #: 03012ST3QIE326TC-W22 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) : 135 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 975 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage

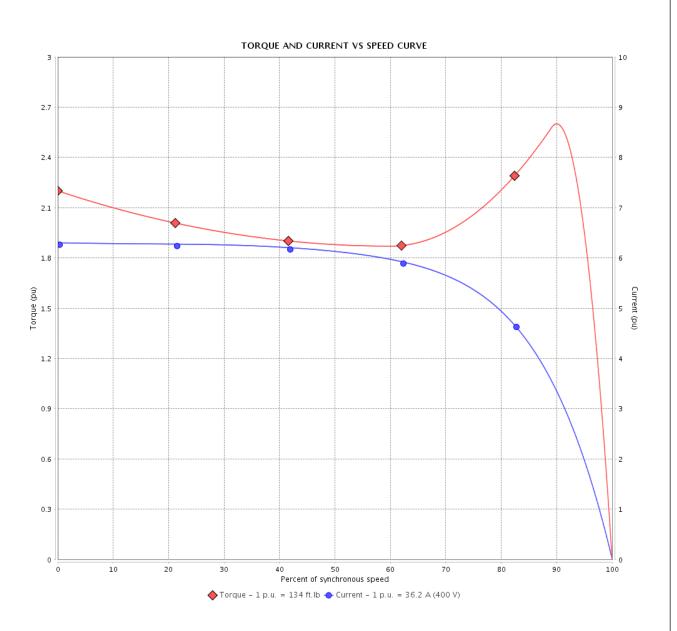


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12039624

Phase

Catalog #: 03012ST3QIE326TC-W22



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) Insulation class Rated torque : 134 ft.lb : 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)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12039624 Catalog #: 03012ST3QIE326TC-W22 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. = 134 ft.lb ◆ Current - 1 p.u. = 35.4 A (415 V) 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) Insulation class Rated torque : 134 ft.lb : F : 240 % Locked rotor torque Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 980 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Performed Checked Date Rev. **Changes Summary**

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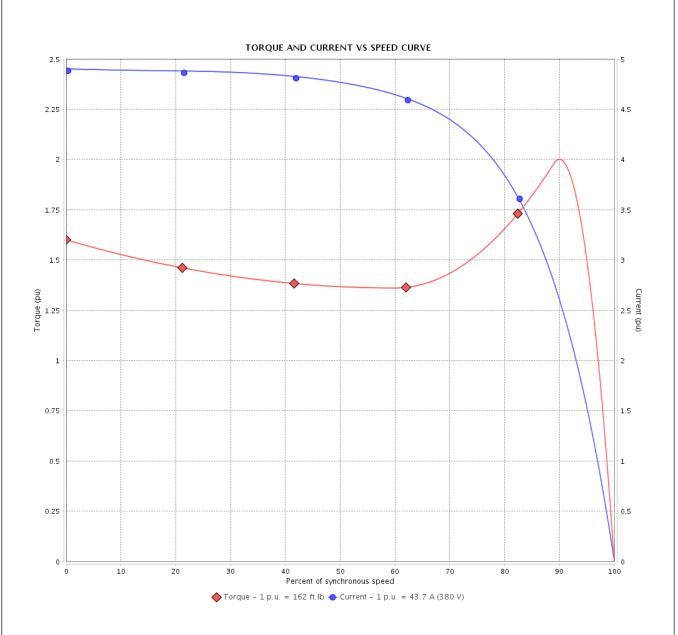
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 12039624

Catalog #: 03012ST3QIE326TC-W22



Performance	: 380 V 50 Hz 6P IE2		
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 class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B
Locked rotor time	: 27s (cold) 15s (bot)		

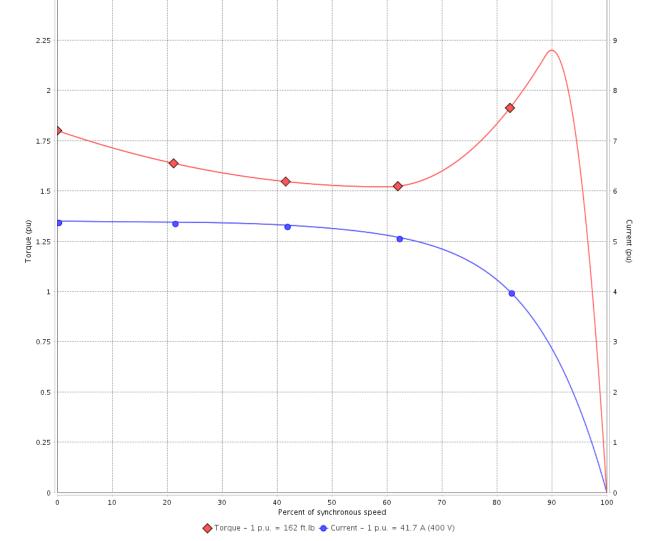
Locked rotor time : 27s (cold) 15s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 12039624 Catalog #: 03012ST3QIE326TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25



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) Insulation class : F Rated torque : 162 ft.lb Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K : B Rated speed : 975 rpm Design Locked rotor time : 27s (cold) 15s (hot)

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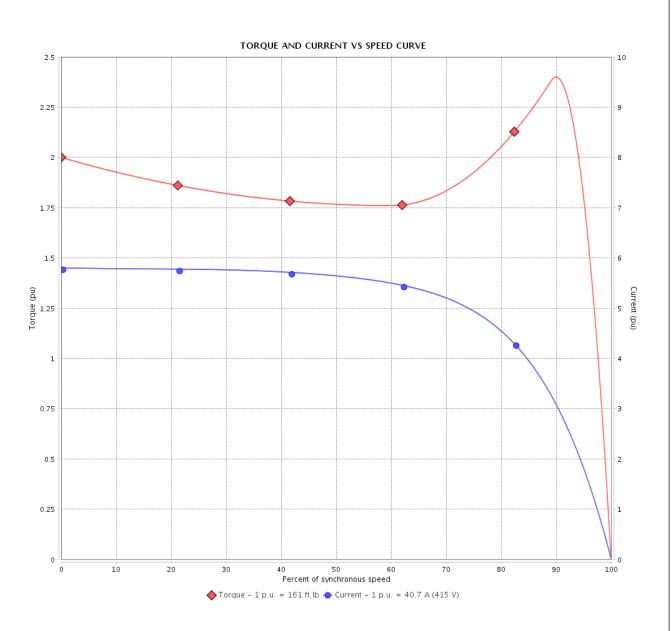


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Product line : NEMA Premium Efficiency Three- Product code : 12039624

Phase

Catalog #: 03012ST3QIE326TC-W22



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)	1	

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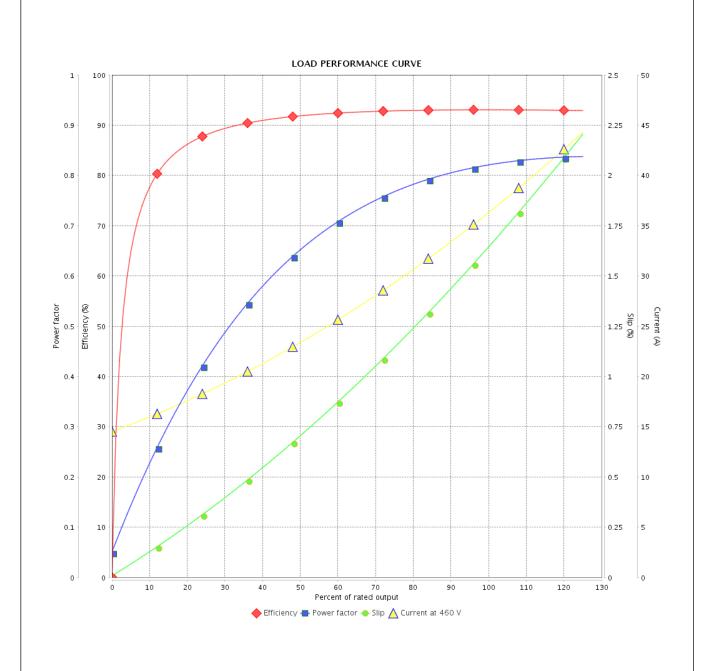
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12039624

Catalog #: 03012ST3QIE326TC-W22



Performance	: 4	60 V 60 Hz 6P				
Rated current	: 3	6.2 A	Moment o	f inertia (J)	: 13.2 sq.ft.lb	
LRC	: 6	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	34 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	20 %	Service fa	ctor	: 1.25	
Breakdown torque	e : 2	40 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	180 rpm	Design		: B	
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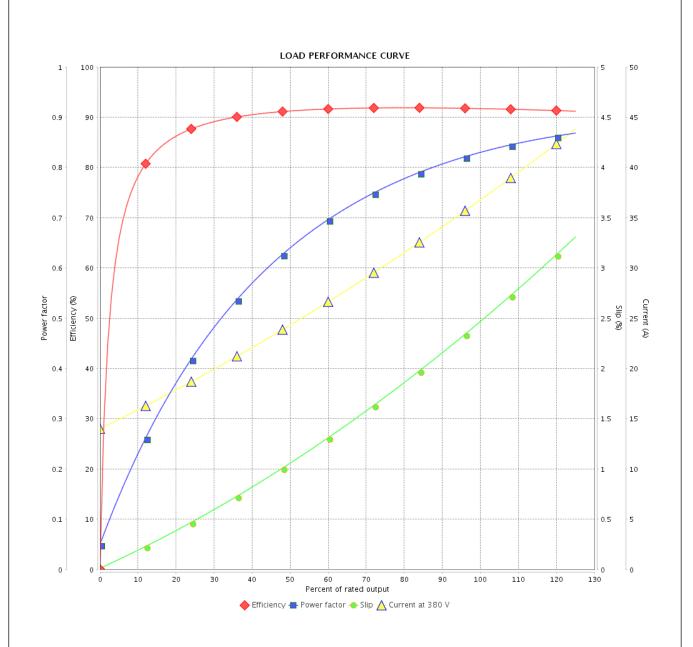
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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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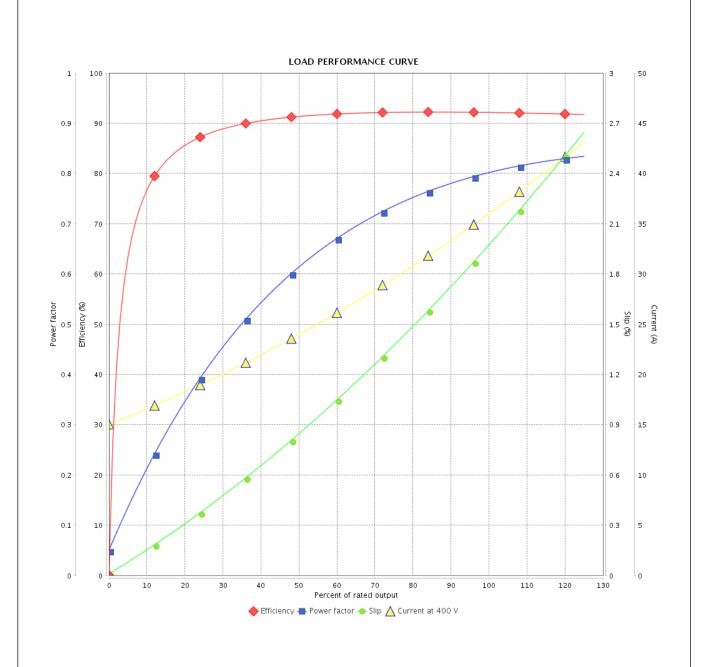


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Performance	: 4	00 V 50 Hz 6P IE3				
Rated current	: 3	36.2 A	Moment o	f inertia (J)	: 13.2 sq.ft.lb	
LRC	: 6	5.3	Duty cycle	}	: Cont.(S1)	
Rated torque	: 1	34 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	220 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	260 %	Temperature rise		: 80 K	
Rated speed	: 9	980 rpm	Design		: B	
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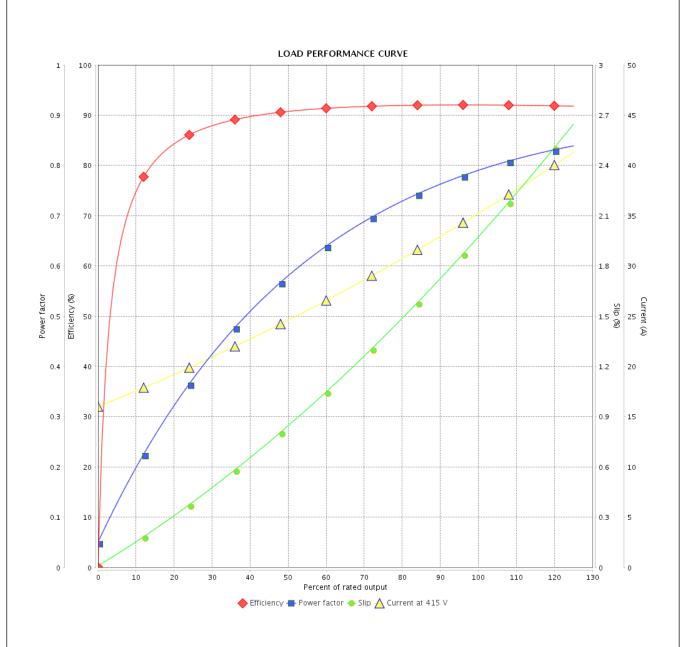
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Phase

Product code: 12039624

Catalog #: 03012ST3QIE326TC-W22



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) : 134 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 980 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

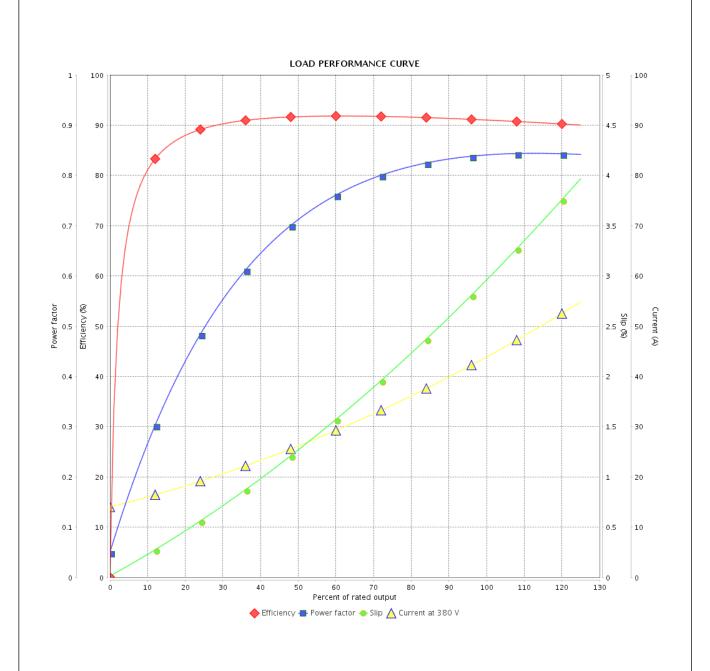


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Product line : NEMA Premium Efficiency Three- Product code : 12039624

Phase

Catalog #: 03012ST3QIE326TC-W22



Performance	: 3	: 380 V 50 Hz 6P IE2				
Rated current	Rated 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 %	Temperature rise		: 80 K	
Rated speed	: 9	70 rpm	Design		: B	
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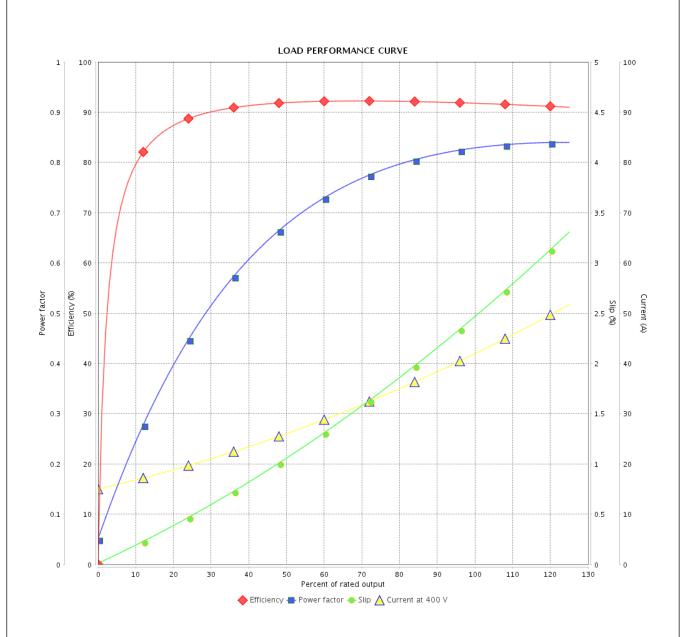
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Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.7 A : 5.4 : 162 ft.lb : 180 % : 220 % : 975 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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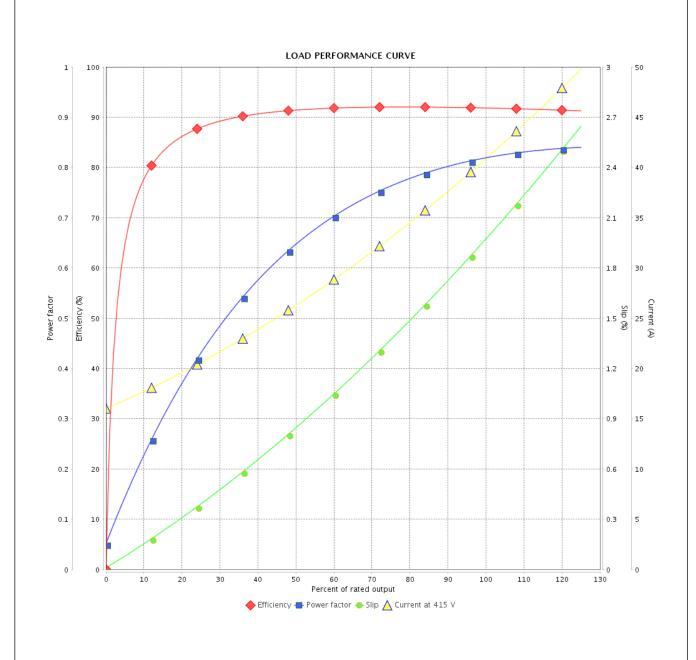
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Product line : NEMA Premium Efficiency Three- Product code : 12039624

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Performance	: 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 c Service fact Temperatur Design	lass tor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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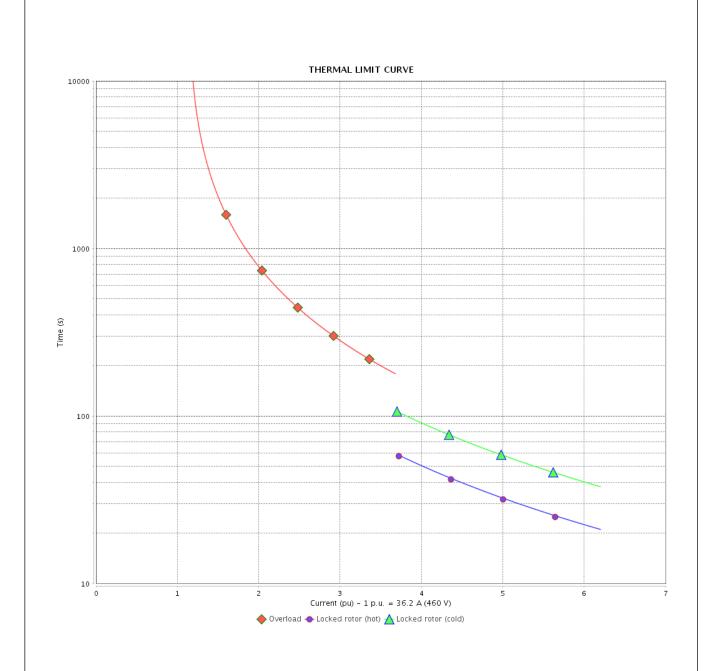


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Product line		: NEMA Premium Efficiency Phase		Product code :	12039624	
				Catalog # :	03012ST3QIE	326TC-W22
Performance		: 460 V 60 Hz 6P	I			
Rated current LRC		: 36.2 A : 6.2	Moment of Duty cycle	of inertia (J)	: 13.2 sq.ft.lb : Cont.(S1)	
Rated torque		: 134 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 220 % : 240 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 1180 rpm	Design		: B	
Heating constant	t					
Cooling constant	t					
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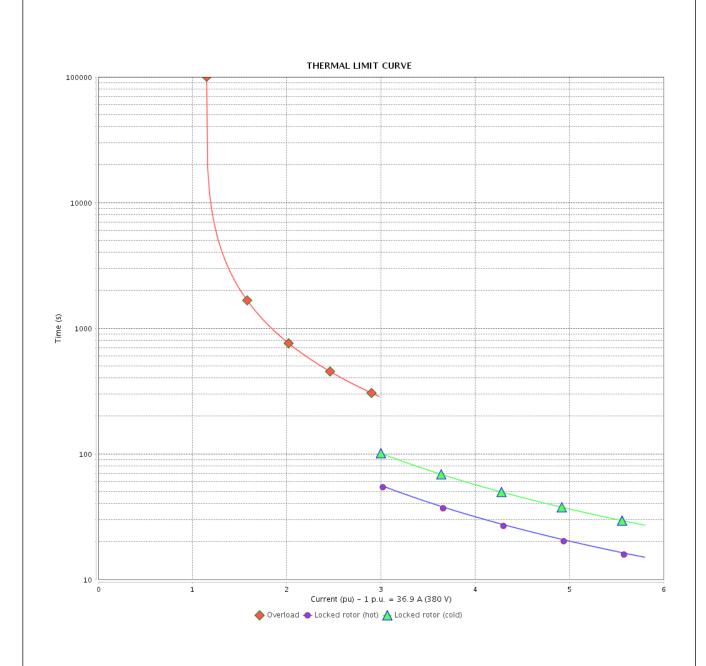


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Product line		NEMA Premium Efficiency hase		Product code :	12039624 03012ST3QIE	326TC-W22
Performance Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 36 : 5. : 13 e : 19	30 V 50 Hz 6P IE3 3.9 A 8 35 ft.lb 90 % 29 % 75 rpm	Moment of Duty cycle Insulation Service fac 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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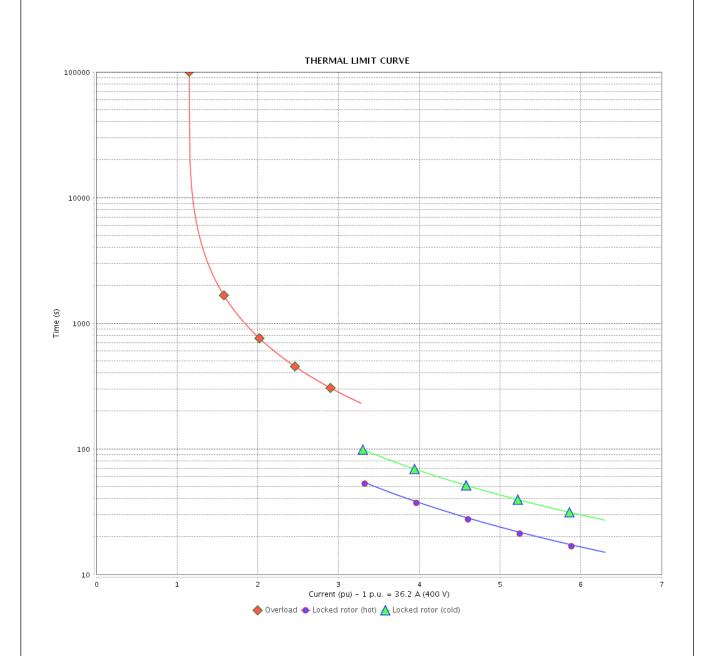


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12039624 03012ST3QIE	:326TC-W22
Performance		: 400 V 50 Hz 6P IE3				
Rated current		: 36.2 A	Moment o	of inertia (J)	: 13.2 sq.ft.lb	
LRC	:	: 6.3	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor torc		: 134 ft.lb : 220 %	Insulation Service fa		: F : 1.15	
Breakdown torqu Rated speed	ie :	: 260 % : 980 rpm	Temperati Design		: 80 K : B	
Heating constant	t					
Cooling constant	t			,		
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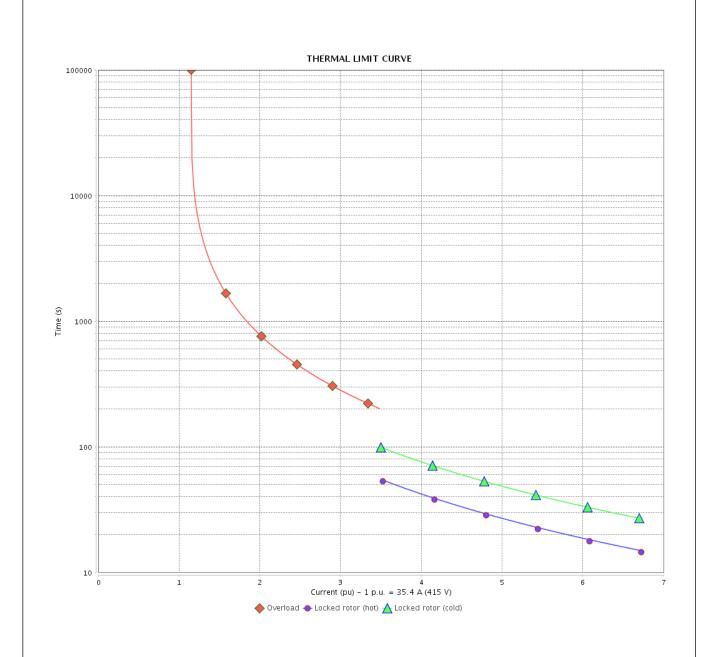


Customer	:				<u>, </u>	
Product line		NEMA Premium Efficiency ∃ Phase		Product code :	12039624 03012ST3QIE	E326TC-W22
				Satalog # .	03012313QIL	
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 3 : 6 : 1 jue : 2 ie : 2	15 V 50 Hz 6P IE3 5.4 A 5.7 34 ft.lb 40 % 80 %	Moment of Duty cycle Insulation Service fac 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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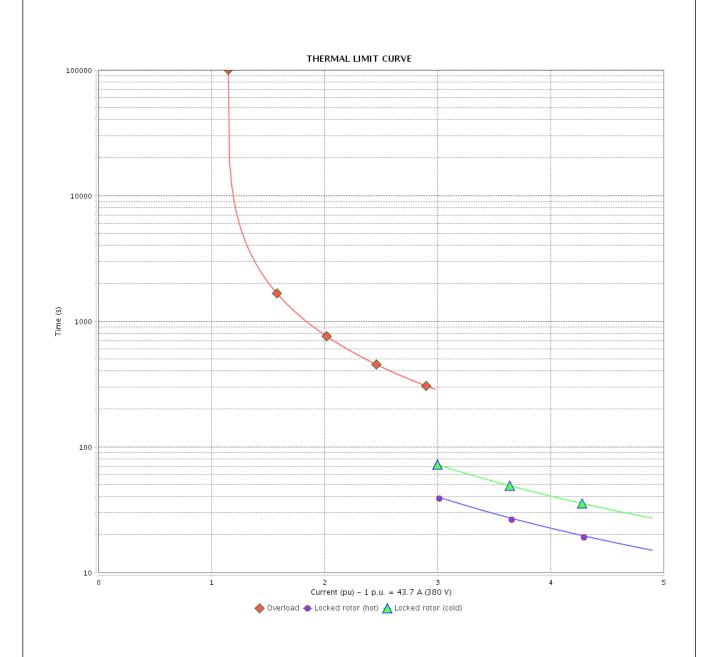


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	12039624	
			Catalog # :	03012ST3QII	E326TC-W22
Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.7 A : 4.9 : 162 ft.lb : 160 % : 200 % : 970 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	<u>, </u>				
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Cooling constant Rev.	Changes Summary	1	Performed	Checked	Date
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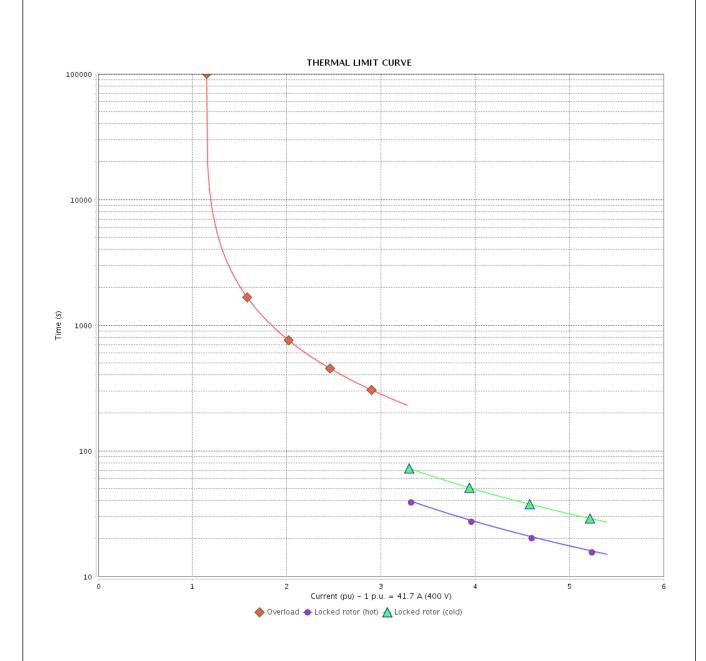


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	12039624	
			Catalog # :	03012ST3QI	E326TC-W22
Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.7 A : 5.4 : 162 ft.lb : 180 % : 220 % : 975 rpm	Moment o 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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Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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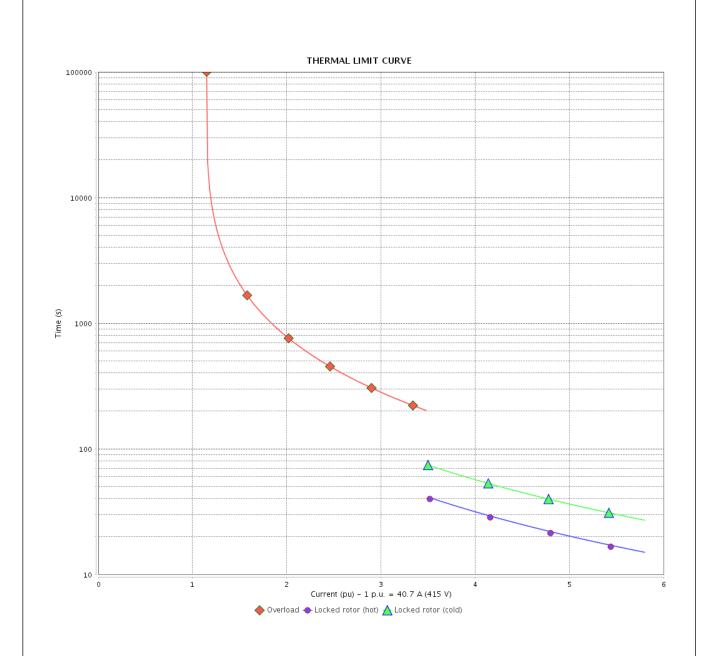


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Product line	: NEMA Premium Efficiency Phase		Product code :	12039624	-226TO W22
		-	Catalog # :	03012ST3QI	-3261C-W22
Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.7 A : 5.8 : 161 ft.lb : 200 % : 240 % : 980 rpm	Moment 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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Heating constant Cooling constant					
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Date

14/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

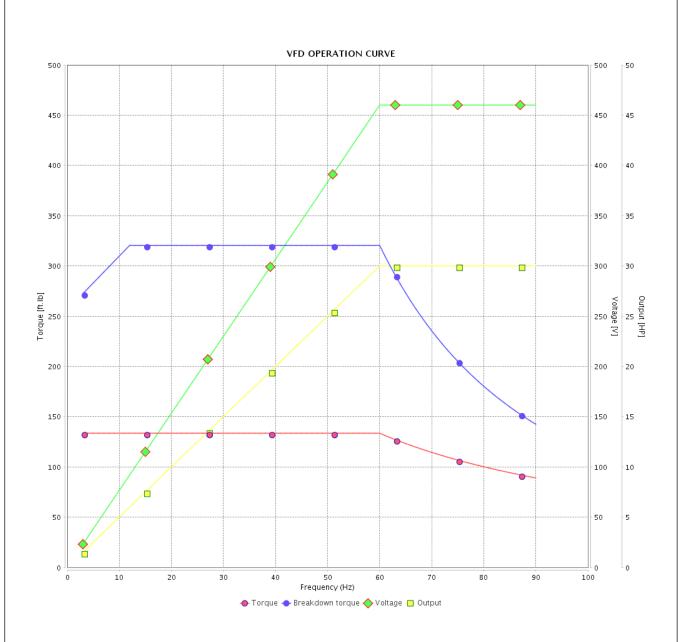
Product code: 12039624

Catalog #: 03012ST3QIE326TC-W22

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Revision



Performance : 460 V 60 Hz 6P Rated current : 36.2 A Moment of inertia (J) : 13.2 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 : 134 ft.lb Insulation class : 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

Three Phase Induction Motor - Squirrel Cage

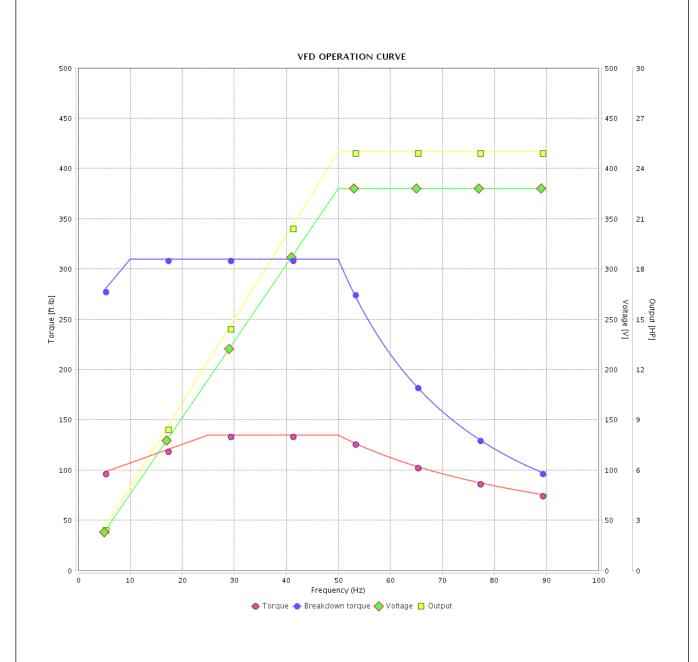


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12039624

Phase

Catalog #: 03012ST3QIE326TC-W22



Performance	: 38	30 V 50 Hz 6P IE3	3			
Rated current	: 36	6.9 A	Moment of	of inertia (J)	: 13.2 sq.ft.lb	
LRC	: 5.	8	Duty cycle	9	: Cont.(S1)	
Rated torque	: 13	35 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 19	90 %	Service fa	ictor	: 1.00	
Breakdown torque	: 22	29 %	Temperati	ure rise	: 80 K	
Rated speed	: 97	75 rpm	Design		: B	
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Customer :

Checked by

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Product line : NEMA Premium Efficiency Three-

Phase

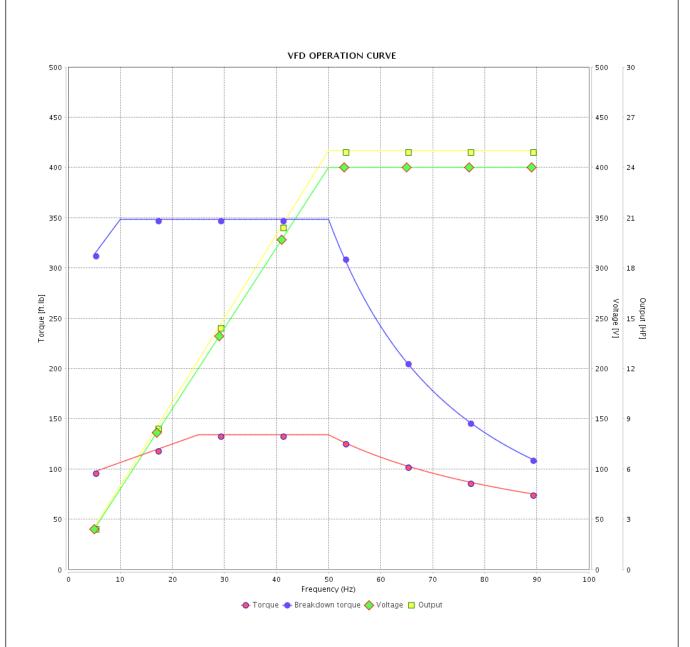
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Performance		: 400 V 50 Hz 6P	IE3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 36.2 A : 6.3 : 134 ft.lb : 220 % : 260 % : 980 rpm	Moment of Duty cycle Insulation Service for Temperary Design	n class actor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.		Changes Sun	nmary	Performed	Checked	Date
Performed by						

Three Phase Induction Motor - Squirrel Cage



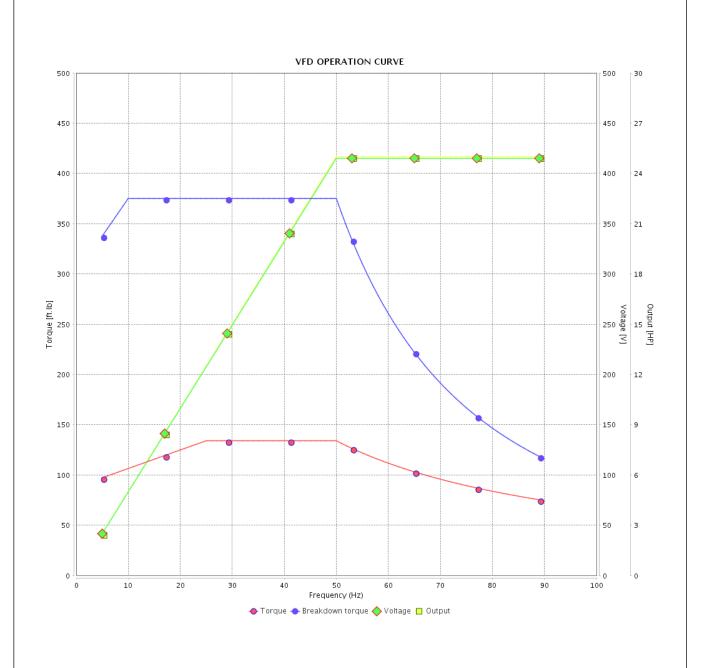
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03012ST3QIE326TC-W22

12039624



Performance	:	415 V 50 Hz 6P IE3				
Rated current	:	35.4 A	5.4 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	e :	240 %	Service fa	ctor	: 1.15	
Breakdown torque	:	280 %	Temperature rise		: 80 K	
Rated speed	:	980 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

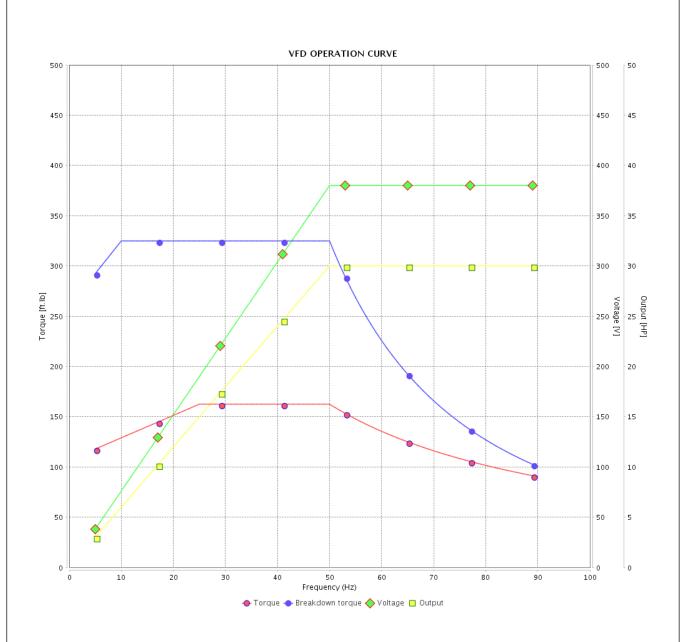
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12039624

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

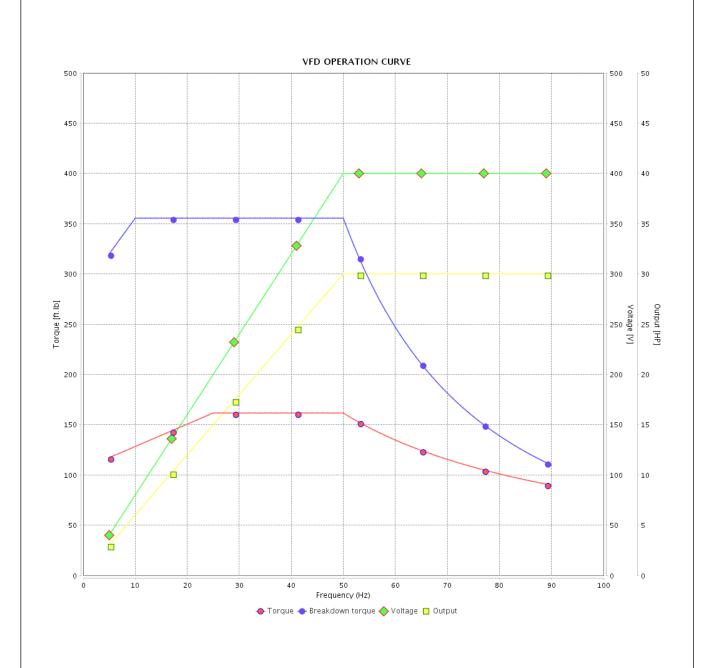


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12039624

Phase

Catalog #: 03012ST3QIE326TC-W22



Performance	: 41	00 V 50 Hz 6P IE2				
Rated current LRC Rated torque	: 4 : 5 : 10	1.7 A 4 62 ft.lb	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 13.2 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 2:	30 % 20 % 75 rpm			: 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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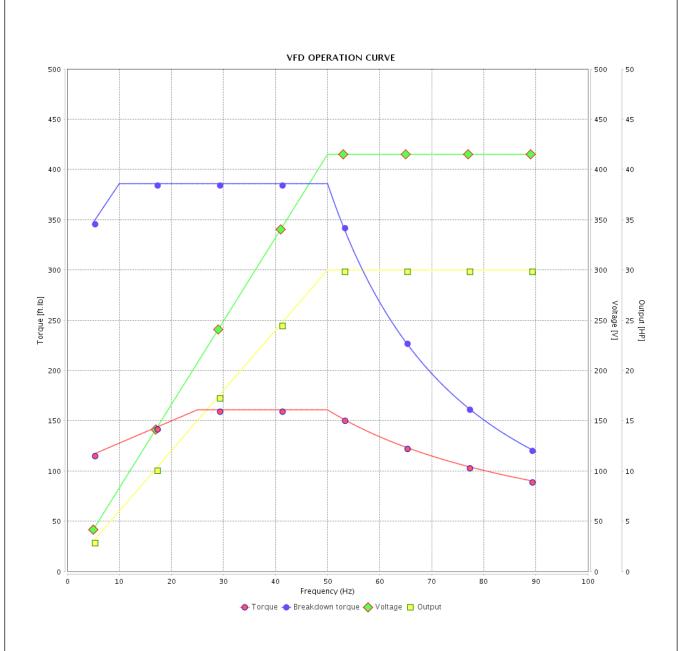
Product line : NEMA Premium Efficiency Three-

Phase

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Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	CC : 5.8 Duty cycle Ited torque : 161 ft.lb Insulation class cked rotor torque : 200 % Service factor eakdown torque : 240 % Temperature rise		: Cont.(S1) class : F ctor : 1.15		
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