### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11893637

Catalog #: 05036ST3QIE326TSC-W2

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

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	c. weight³	: 5	74 lb	
Protection degre	е	: IP55		Momer	nt of inertia (J)	) : 5	.75 sq.ft.lb	
Design		: B						
Output [HP]		50	40	40	40	50	50	50
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		56.7	55.1	52.7	51.4	69.4	65.4	63.3
L. R. Amperes [A]		357	364	374	370	361	366	392
LRC [A]		6.3x(Code	6.6x(Code	7.1x(Code H)	7.2x(Code H)	5.2x(Code E)	5.6x(Code F)	6.2x(Code
		G)	G)					G)
No load current [A	.]	14.0	13.0	14.0	15.0	13.0	14.0	15.0
Rated speed [RPN	Л]	3555	2955	2960	2965	2935	2945	2950
Slip [%]		1.25	1.50	1.33	1.17	2.17	1.83	1.67
Rated torque [ft.lb]		73.9	71.1	71.0	70.8	89.5	89.2	89.0
Locked rotor torqu	ie [%]	240	240	260	280	190	210	229
Breakdown torque	: [%]	229	229	250	280	200	200	220
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		63s (cold)	68s (cold)	64s (cold)	61s (cold)	37s (cold)	43s (cold)	43s (cold)
		35s (hot)	38s (hot)	36s (hot)	34s (hot)	21s (hot)	24s (hot)	24s (hot)
Noise level <sup>2</sup>		76.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)
	25%	92.9	92.6	91.6	91.9	94.2	93.6	93.4
Efficiency (%)	50%	93.0	92.8	92.2	92.2	93.0	93.0	93.0
Linciency (70)	75%	93.0	92.9	92.8	93.1	92.4	92.4	93.0
	100%	93.0	93.0	93.3	93.3	91.0	91.7	92.4
	25%	0.58	0.58	0.55	0.52	0.65	0.61	0.59
Power Factor	50%	0.81	0.80	0.77	0.76	0.85	0.83	0.82
I OWEI FACIOI	75%	0.87	0.87	0.85	0.84	0.88	0.87	0.86
i		1						

Drive end

0.89

0.88

0.88 Non drive end Foundation loads

Bearing type 6312 C3 6212 C3 Inpro/Seal Inpro/Seal Sealing Lubrication interval 12000 h 15000 h

100%

Lubricant amount 21 g 13 g Lubricant type Mobil Polyrex EM

Max. traction : 464 lb : 1038 lb Max. compression

0.87

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.

0.89

0.89

0.88

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#### Three Phase Induction Motor - Squirrel Cage

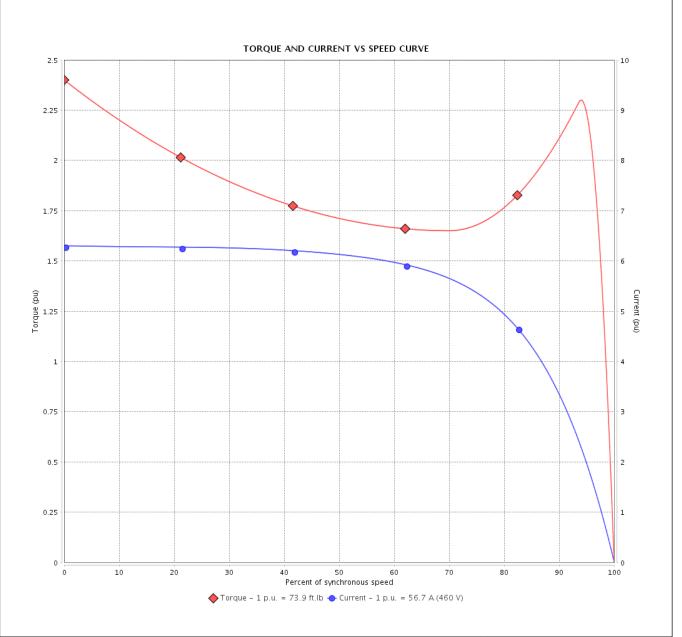


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11893637

Phase

Catalog #: 05036ST3QIE326TSC-W2



Performance : 460 V 60 Hz 2P Rated current : 56.7 A Moment of inertia (J) : 5.75 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 73.9 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B

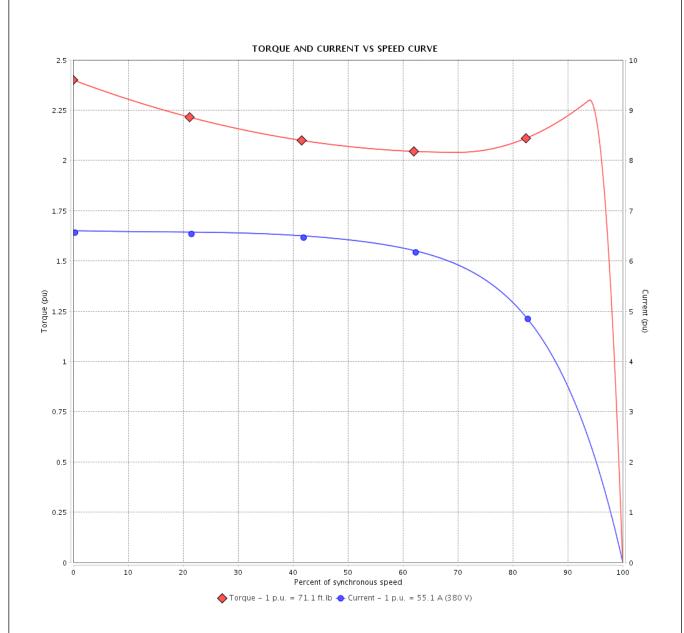
Locked rotor time : 63s (cold) 35s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11893637 Catalog #: 05036ST3QIE326TSC-W2



Performance : 380 V 50 Hz 2P IE2 Rated current : 55.1 A Moment of inertia (J) : 5.75 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 71.1 ft.lb : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K : B Rated speed : 2955 rpm Design Locked rotor time : 68s (cold) 38s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



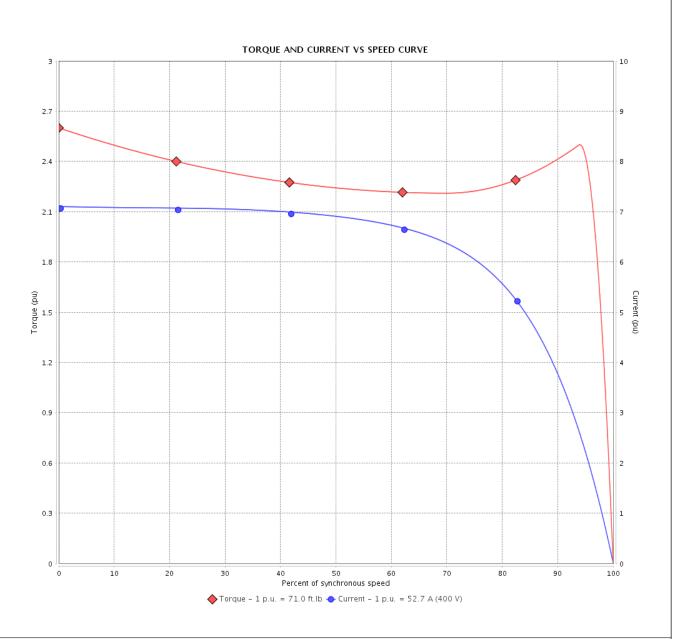
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11893637

Catalog #: 05036ST3QIE326TSC-W2



Performance : 400 V 50 Hz 2P IE3 Rated current : 52.7 A Moment of inertia (J) : 5.75 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 71.0 ft.lb : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B

Locked rotor time : 64s (cold) 36s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11893637 Catalog #: 05036ST3QIE326TSC-W2 TORQUE AND CURRENT VS SPEED CURVE 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 70.8 ft.lb ◆ Current - 1 p.u. = 51.4 A (415 V) : 415 V 50 Hz 2P IE3 Performance Rated current : 51.4 A Moment of inertia (J) : 5.75 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Rated torque : 70.8 ft.lb Insulation class : F Locked rotor torque : 280 % Service factor : 1.00

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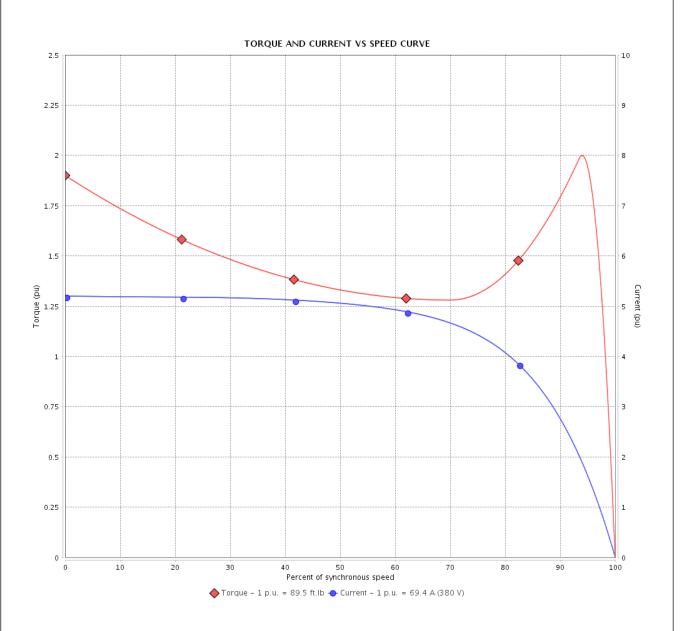


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11893637

Phase

Catalog #: 05036ST3QIE326TSC-W2



Performance : 380 V 50 Hz 2P Rated current : 69.4 A Moment of inertia (J) : 5.75 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 89.5 ft.lb : F Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 2935 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: 11893637 Catalog #: 05036ST3QIE326TSC-W2 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 ◆ Torque - 1 p.u. = 89.2 ft.lb ◆ Current - 1 p.u. = 65.4 A (400 V) Performance : 400 V 50 Hz 2P IE1 Rated current : 65.4 A Moment of inertia (J) : 5.75 sq.ft.lb : 5.6 LRC Duty cycle : Cont.(S1)

Rated torque Locked rotor torq Breakdown torqu Rated speed	ue : 2° e : 20	9.2 ft.lb 10 % 90 % 945 rpm	Insulation Service fa Temperatu Design	ctor	: F : 1.00 : 105 K : B	
Locked rotor time	: 4	3s (cold) 24s (ho	t)			
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#### Three Phase Induction Motor - Squirrel Cage



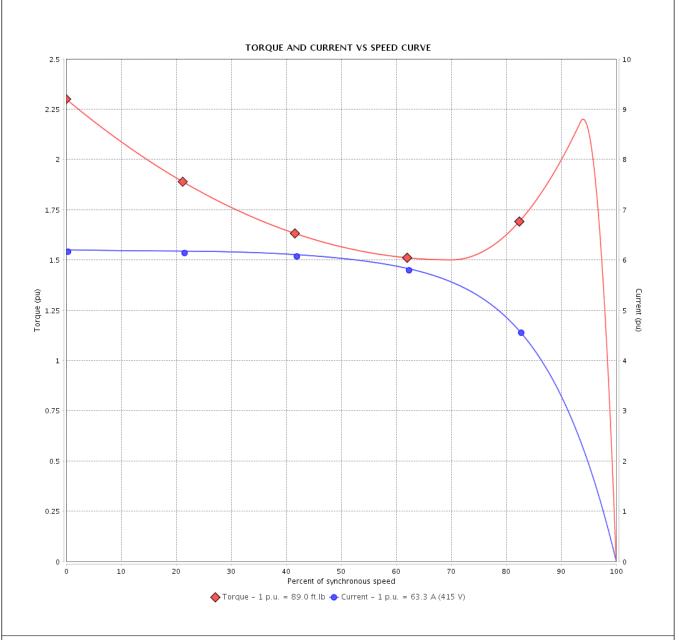
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11893637

Catalog #: 05036ST3QIE326TSC-W2



Performance : 415 V 50 Hz 2P IE1 Rated current : 63.3 A Moment of inertia (J) : 5.75 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 89.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00

Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2950 rpm Design : B

Locked rotor time : 43s (cold) 24s (hot)

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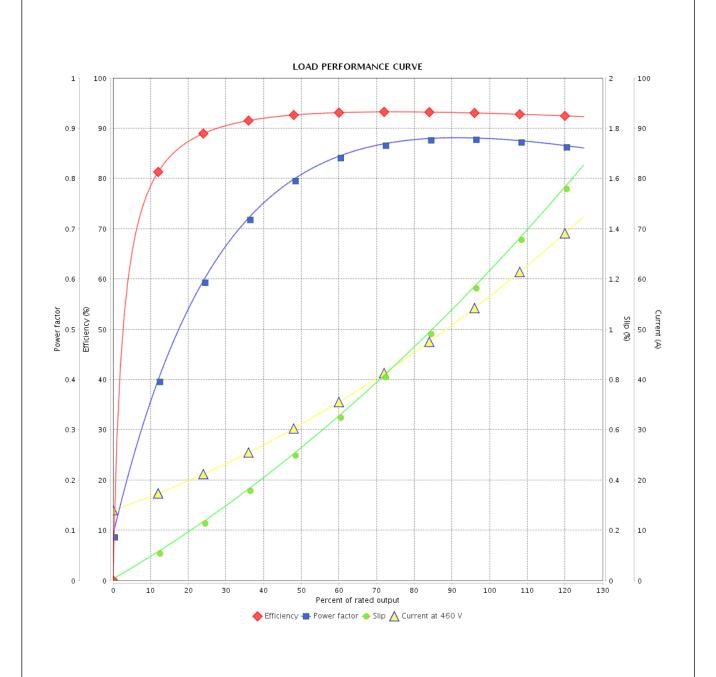


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11893637

Phase

Catalog #: 05036ST3QIE326TSC-W2



Performance	: 4	60 V 60 Hz 2P				
Rated current	ent : 56.7 A		Moment of	Moment of inertia (J)		
LRC	: 6	: 6.3		;	: Cont.(S1)	
Rated torque	: 7	3.9 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	40 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	229 % Temperatur		ure rise	: 80 K	
Rated speed	: 3	555 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

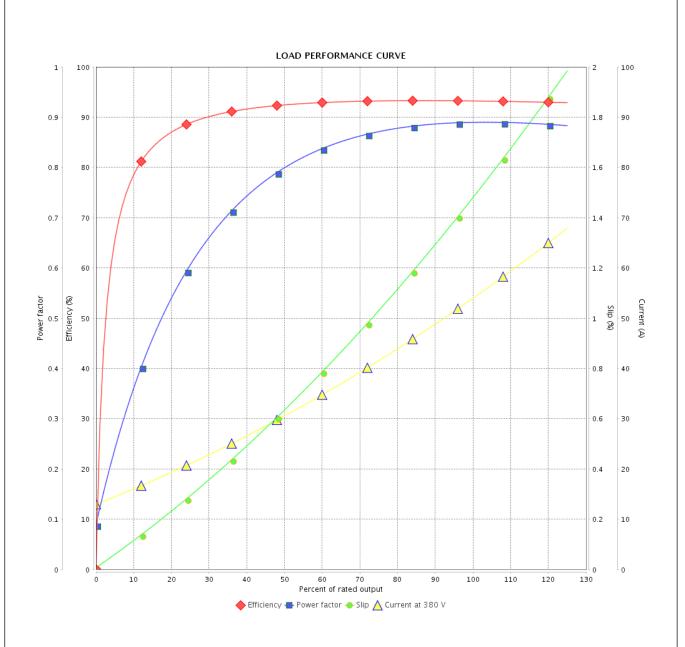
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Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 55.1 A : 6.6 : 71.1 ft.lb : 240 % : 229 % : 2955 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 5.75 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage

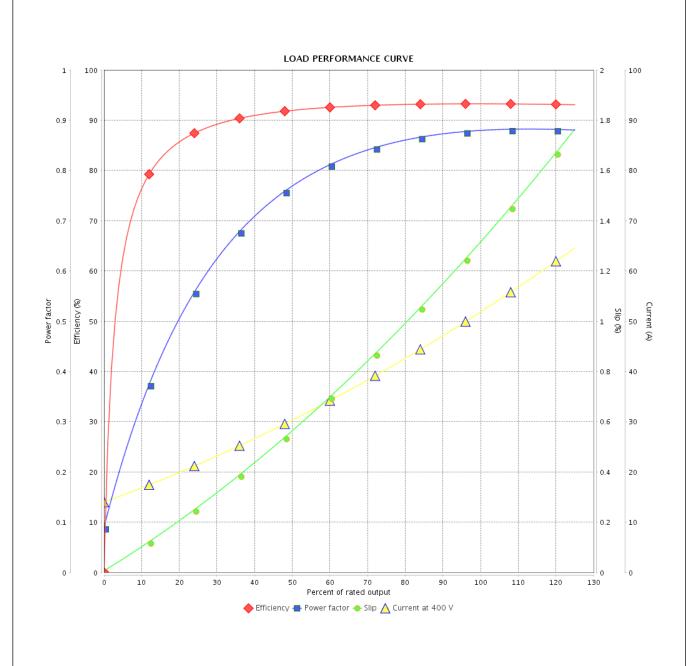


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11893637

Phase

Catalog #: 05036ST3QIE326TSC-W2



Performance	:	400 V 50 Hz 2P IE3				
Rated current	ent : 52.7 A		Moment o	f inertia (J)	: 5.75 sq.ft.lb	
LRC	:	7.1	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	:	71.0 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	260 %	Service fa	ctor	: 1.00	
Breakdown torque	akdown torque : 250 %		Temperature rise		: 80 K	
Rated speed	:	2960 rpm	Design		: B	
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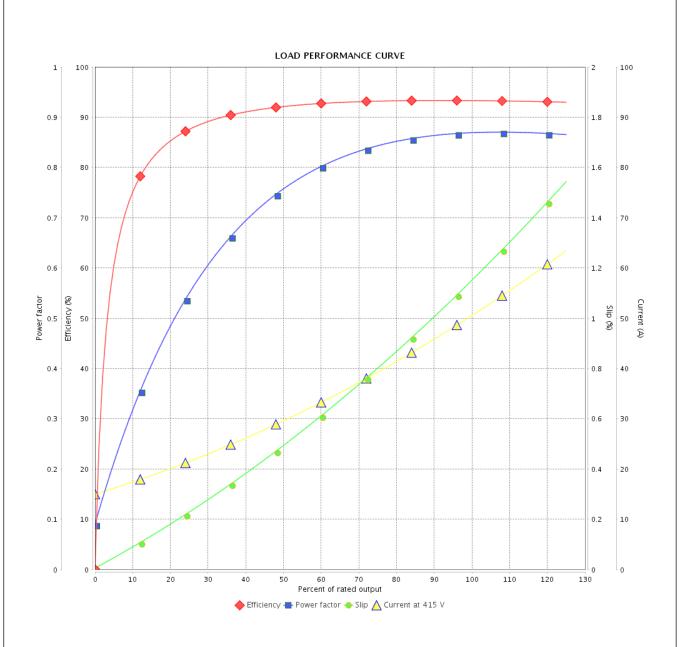
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Performance : 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 51.4 A : 7.2 : 70.8 ft.lb : 280 % : 280 % : 2965 rpm	Moment of inertia (J Duty cycle Insulation class Service factor Temperature rise Design	) : 5.75 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage

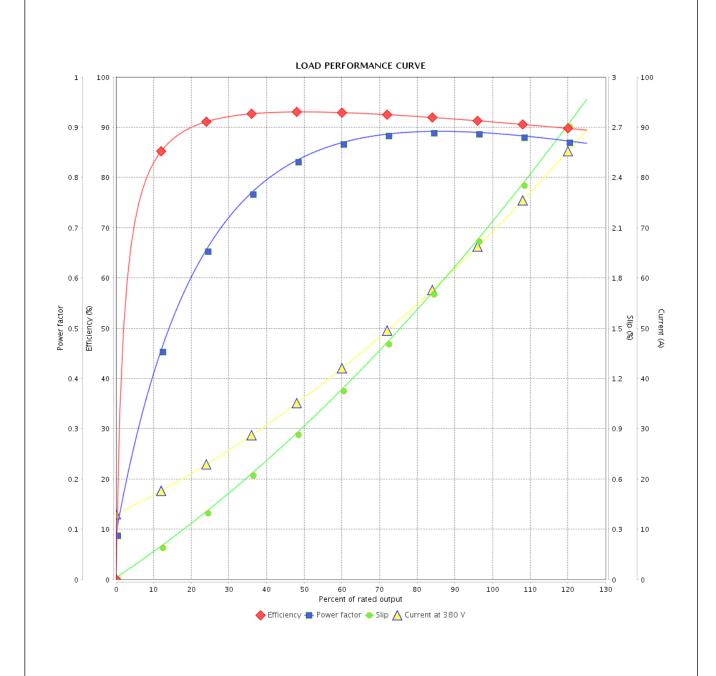


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11893637

Phase

Catalog #: 05036ST3QIE326TSC-W2



Performance	: 38	0 V 50 Hz 2P				
Rated current	t : 69.4 A Moment of inertia		f inertia (J)	: 5.75 sq.ft.lb		
LRC	: 5	2	Duty cycle	<del>)</del>	: Cont.(S1)	
Rated torque	: 89	9.5 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 19	90 %	Service factor		: 1.00	
Breakdown torque	Breakdown torque : 200 % Temperature rise		ure rise	: 105 K		
Rated speed	: 29	935 rpm	Design		: B	
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Phase

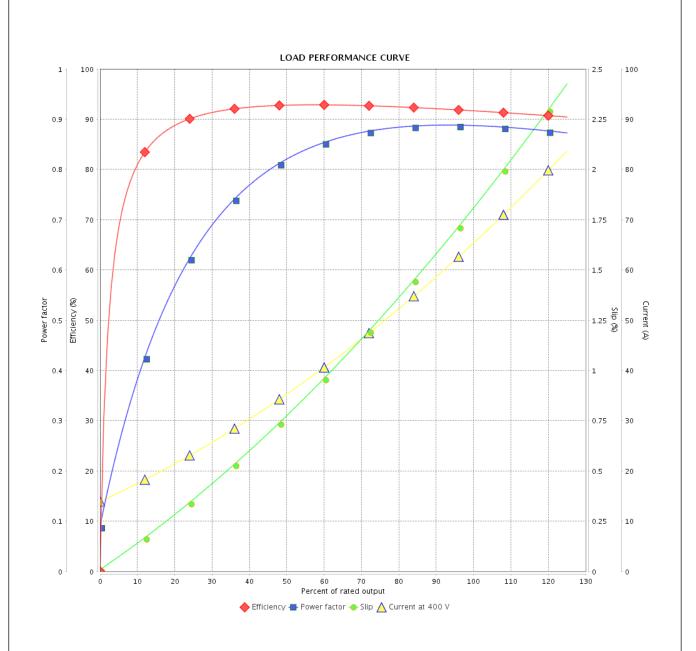
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Performance : 400 V 50 Hz 2P IE1 Rated current : 65.4 A Moment of inertia (J) : 5.75 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.6 Insulation class Rated torque : 89.2 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 2945 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage



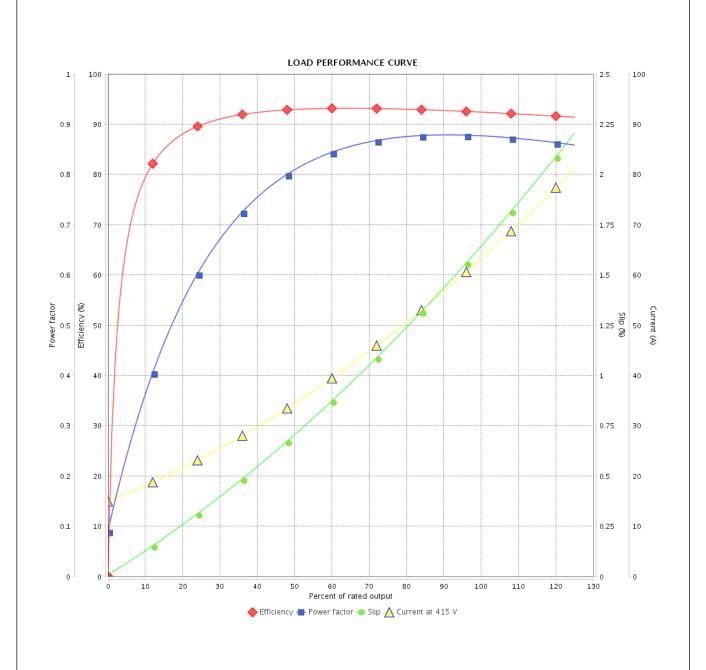
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 05036ST3QIE326TSC-W2

11893637



Performance	:	415 V 50 Hz 2P IE1				
Rated current	: 63.3 A Moment of		Moment o	f inertia (J)	: 5.75 sq.ft.lb	
LRC	:	6.2	Duty cycle	}	: Cont.(S1)	
Rated torque	:	89.0 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	229 %	Service factor		: 1.00	
Breakdown torque	:	220 %	Temperati	Temperature rise		
Rated speed	:	: 2950 rpm De:			: B	
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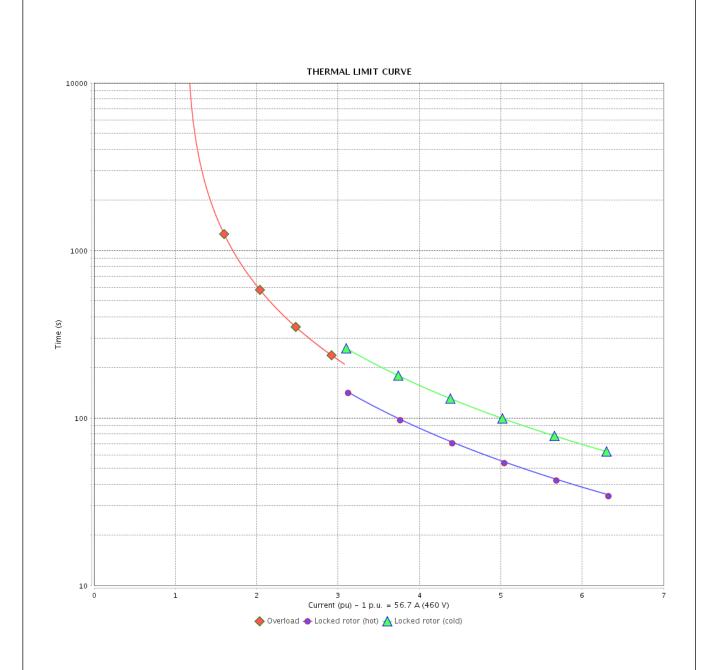


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	11893637 05036ST3QII	E326TSC-W2
Performance	: 460 V 60 Hz 2P				
Rated current LRC	: 56.7 A : 6.3	Moment of Duty cycle	f inertia (J)	: 5.75 sq.ft.lb : Cont.(S1)	
Rated torque	: 73.9 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 240 % : 229 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed	: 3555 rpm	Design	<i></i>	: B	
Heating constant					
Cooling constant	Changes O.		Dorform	Charles I	Data
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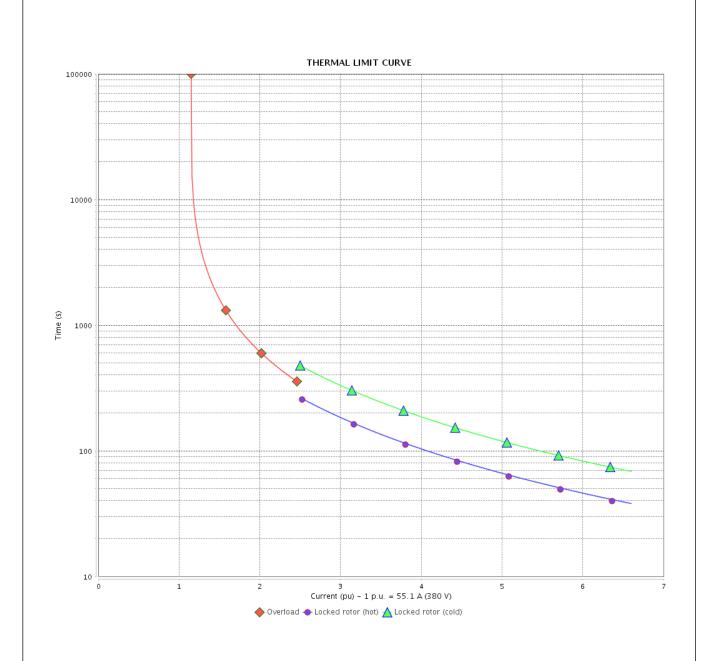


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11893637 05036ST3QIE	:326TSC-W2
Performance		: 380 V 50 Hz 2P IE2				
Rated current LRC		: 55.1 A : 6.6	Moment of Duty cycle	of inertia (J)	: 5.75 sq.ft.lb	
Rated torque		: 71.1 ft.lb	Insulation	class	: Cont.(S1) : F	
Locked rotor tord Breakdown torqu		: 240 % : 229 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 2955 rpm	Design	uic lise	: B	
Heating constant						
Cooling constant	l .	Changes Summary		Performed	Checked	Date
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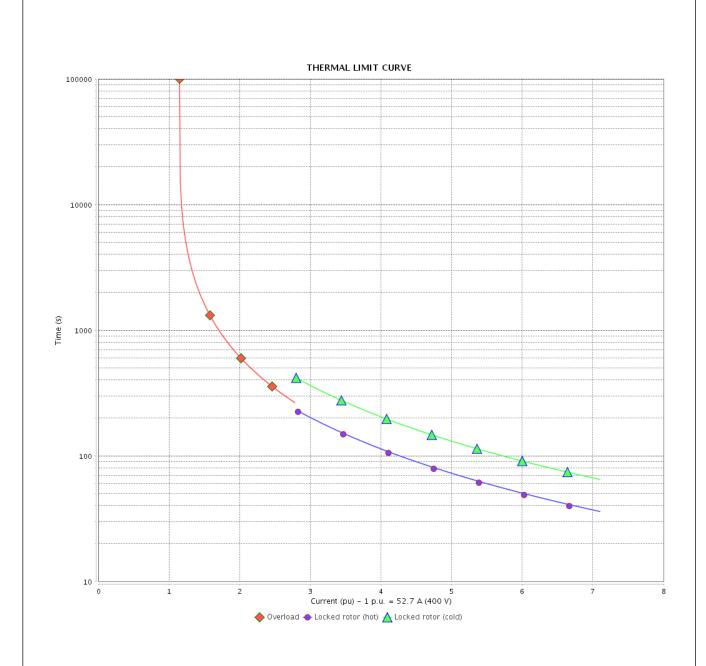


Customer	:			·	
Product line	: NEMA Premium Efficiency Phase		duct code :	11893637 05036ST3QIE	E326TSC-W2
Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 52.7 A : 7.1 : 71.0 ft.lb : 260 % : 250 % : 2960 rpm	Moment of ine Duty cycle Insulation clas Service factor Temperature r Design	ss	: 5.75 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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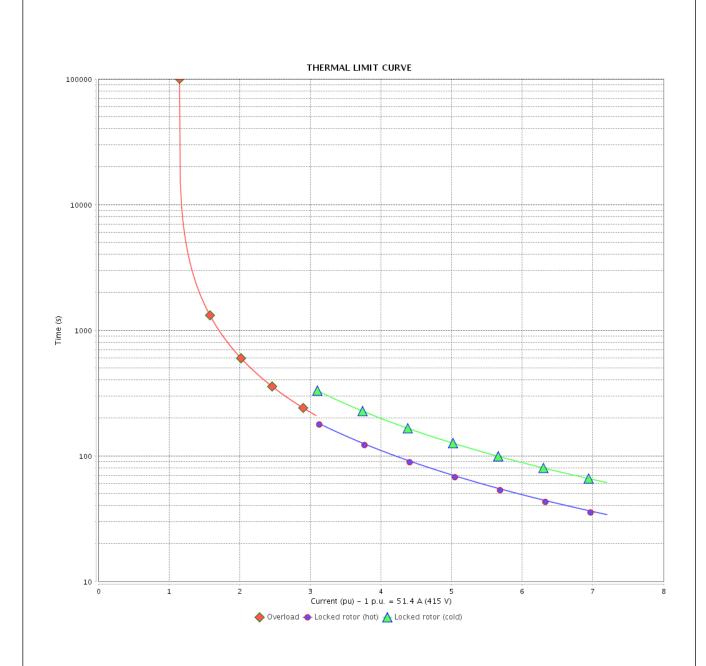


Customer				<del>_</del>	
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Product line	: NEMA Premium Efficiency	Three-	Product code :	11893637	
	Phase		Catalog # :	05036ST3QIE	SASTEC MA
			Jataiog # .	03030313Q1E	320130-442
Performance	: 415 V 50 Hz 2P IE3	Monage = 1	Finantia (I)	. 5 75 00 4 11-	
Rated current LRC	: 51.4 A : 7.2	Moment of Duty cycle	merua (J)	: 5.75 sq.ft.lb : Cont.(S1)	
Rated torque	: 70.8 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 280 % : 280 %	Service fac Temperatu		: 1.00 : 80 K	
Rated speed	: 2965 rpm	Design		: B	
Heating constant					
Cooling constant					
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

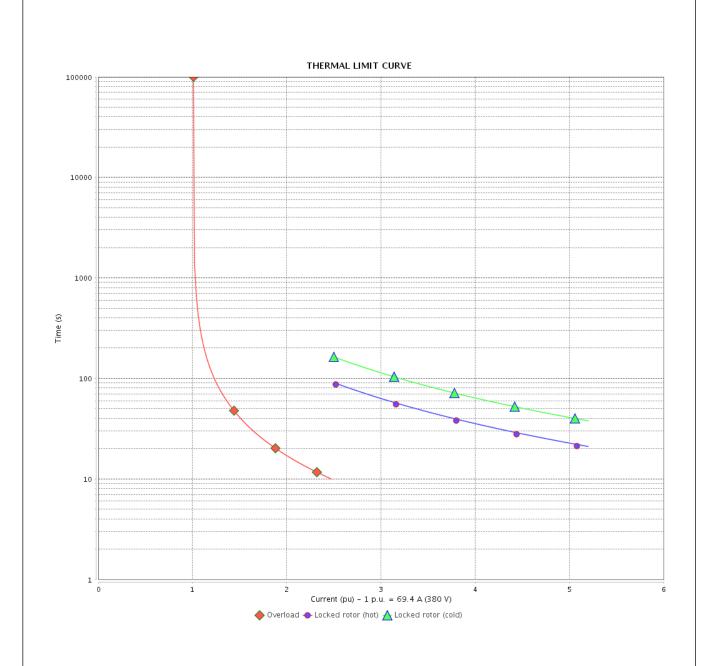


Customer		:			,	
Product line		: NEMA Premium Efficiency Phase		Product code :	11893637 05036ST3QI	E326TSC-W2
						L32013C-W2
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed Heating constant	: que : que :	380 V 50 Hz 2P 69.4 A 5.2 89.5 ft.lb 190 % 200 % 2935 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 5.75 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Cooling constant		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

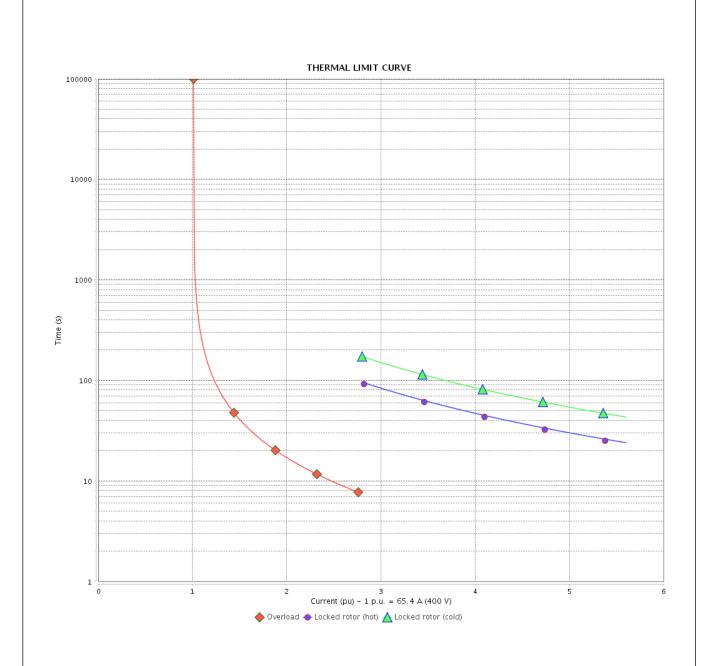


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11893637	222TCC W2
				Catalog # .	05036ST3QIE	.520130-772
Performance		: 400 V 50 Hz 2P IE1				
Rated current		: 65.4 A	Moment of	of inertia (J)	: 5.75 sq.ft.lb	
LRC Rated torque		: 5.6 : 89.2 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 210 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 200 % : 2945 rpm	Temperat Design	ure rise	: 105 K : B	
Heating constan		•	- J			
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

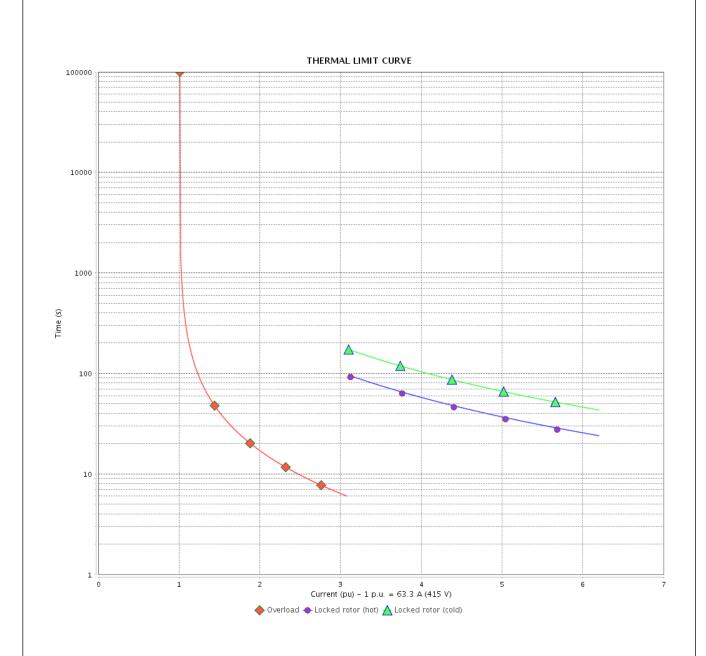


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11893637 05036ST3QIE	326TSC-W2
Performance Rated current	: 415 V 50 Hz 2P IE1 : 63.3 A	Momento	f inertia (J)	: 5.75 sq.ft.lb	
LRC	: 6.2	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torque	: 89.0 ft.lb : 229 %	Insulation Service fa		: F : 1.00	
Breakdown torque Rated speed	: 220 % : 2950 rpm	Temperatu Design		: 105 K : B	
Heating constant	·				
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by	20			Page	Revision

### Three Phase Induction Motor - Squirrel Cage



Customer



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#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-

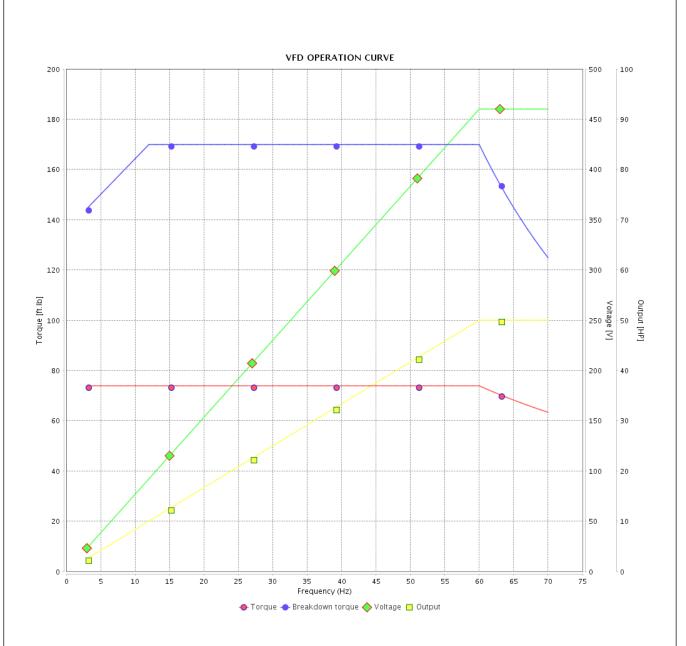
Phase

Product code: 11893637

Catalog #: 05036ST3QIE326TSC-W2

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Performance : 460 V 60 Hz 2P Rated current : 56.7 A Moment of inertia (J) : 5.75 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 Insulation class : 73.9 ft.lb : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage

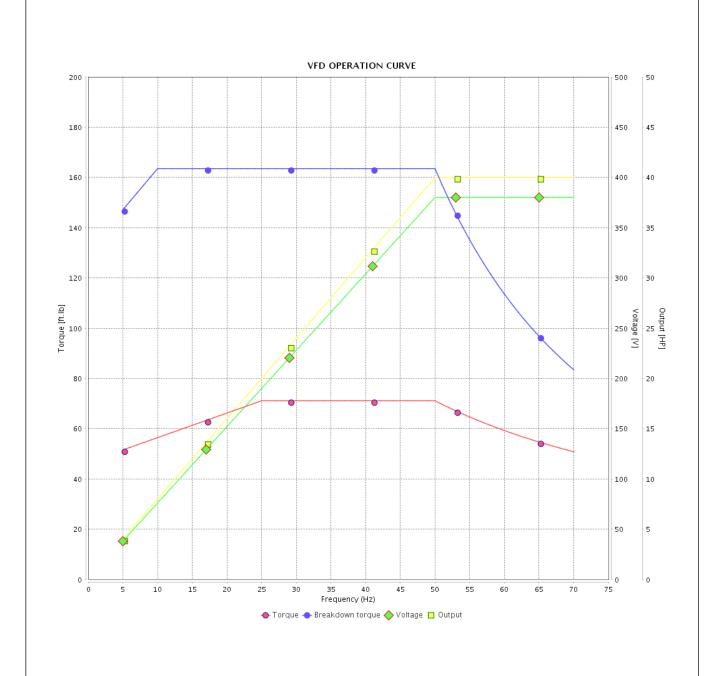


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11893637

Phase

Catalog #: 05036ST3QIE326TSC-W2



Performance	:	380 V 50 Hz 2P IE2				
Rated current : 55.1 A		Moment of	Moment of inertia (J)			
LRC	:	6.6	Duty cycle	•	: Cont.(S1)	
Rated torque	:	71.1 ft.lb	Insulation	class	: F	
Locked rotor torq	ue :	240 %	Service fa	ctor	: 1.00	
Breakdown torque	e :	229 %	Temperature rise		: 80 K	
Rated speed		2955 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-

Phase

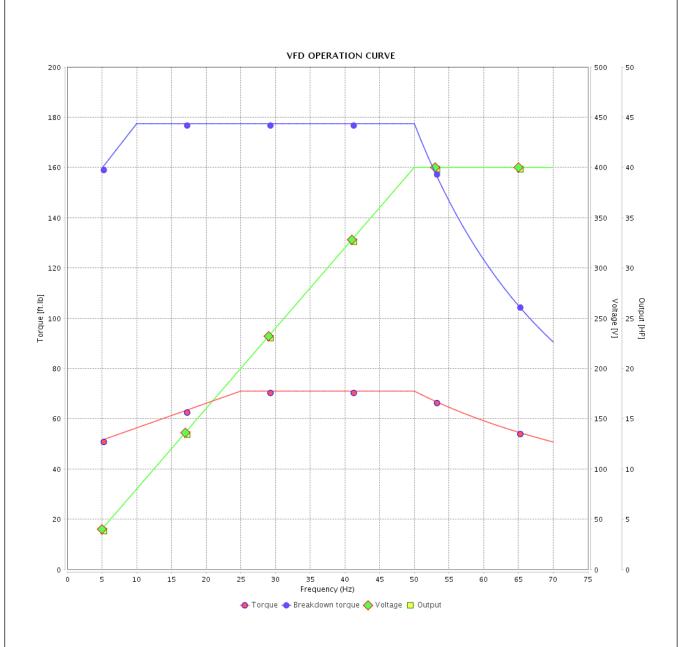
Product code: 11893637

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed			: 1.00 : 80 K		
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Performed by					

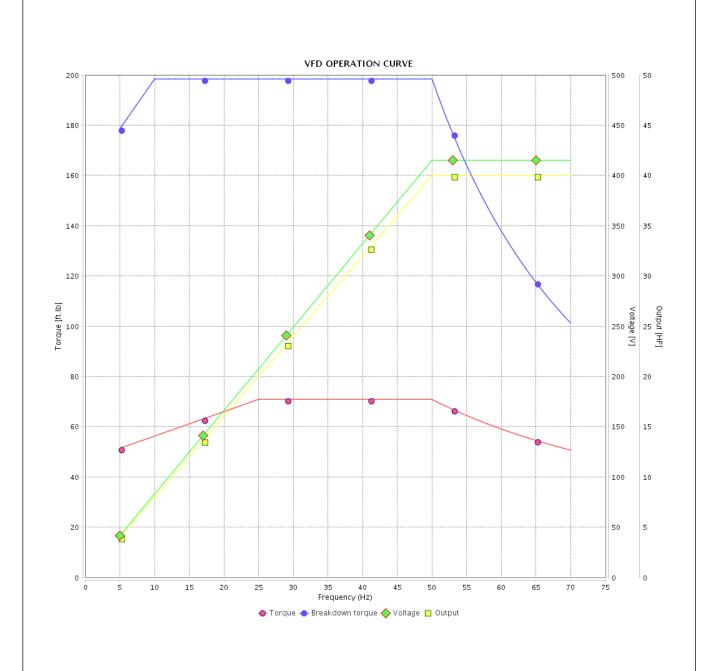
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11893637

Catalog #: 05036ST3QIE326TSC-W2



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 5	: 51.4 A Mor		Moment of inertia (J)		
LRC	: 7	.2	Duty cycle	)	: Cont.(S1)	
Rated torque	: 7	0.8 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	80 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	80 %	0 % Temperature rise		: 80 K	
Rated speed	: 2	965 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : NEMA Premium Efficiency Three-

Phase

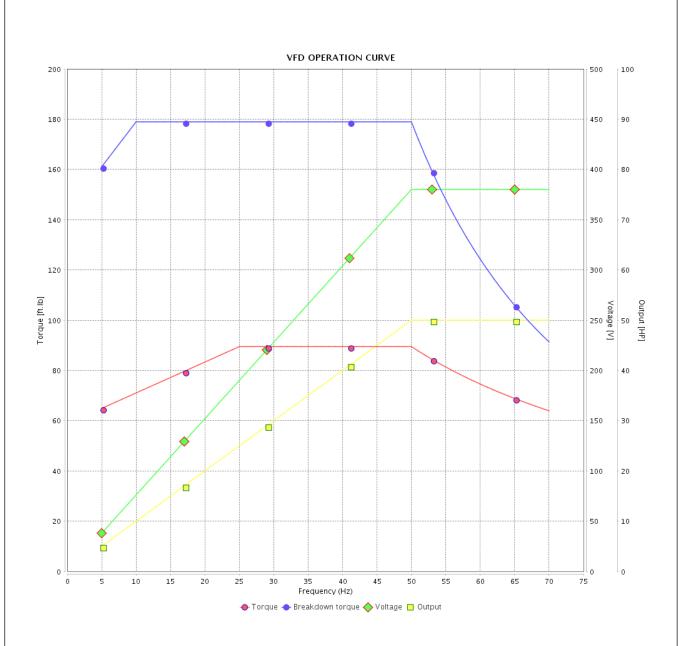
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Performance : 380 V 50 Hz 2P Rated current : 69.4 A Moment of inertia (J) : 5.75 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.2 Insulation class : 89.5 ft.lb : F Rated torque Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 2935 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage

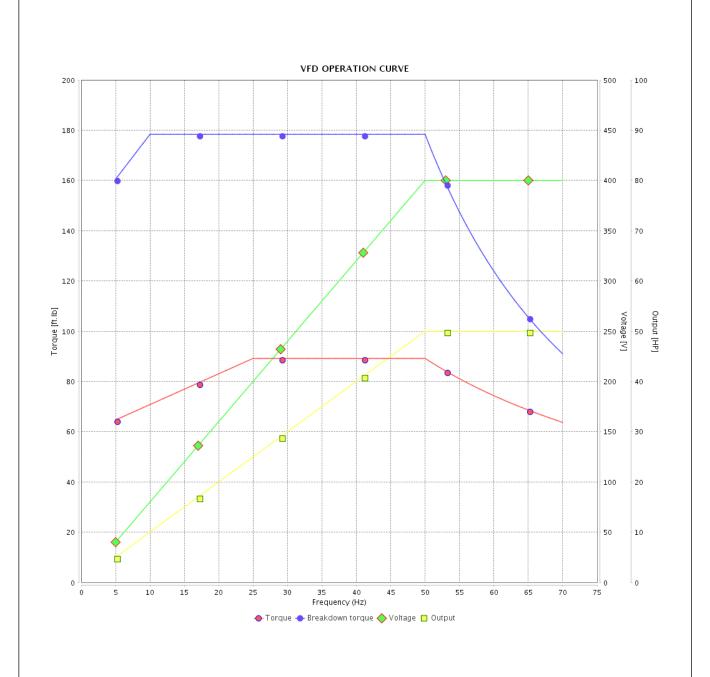


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 05036ST3QIE326TSC-W2

11893637



Performance	: 4	00 V 50 Hz 2P IE1				
Rated current	: 65.4 A Mo		Moment o	Moment of inertia (J)		
LRC	: 5	.6	Duty cycle	)	: Cont.(S1)	
Rated torque	: 8	9.2 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torque : 200 % Temperature rise		ıre rise	: 105 K			
Rated speed	: 2	945 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

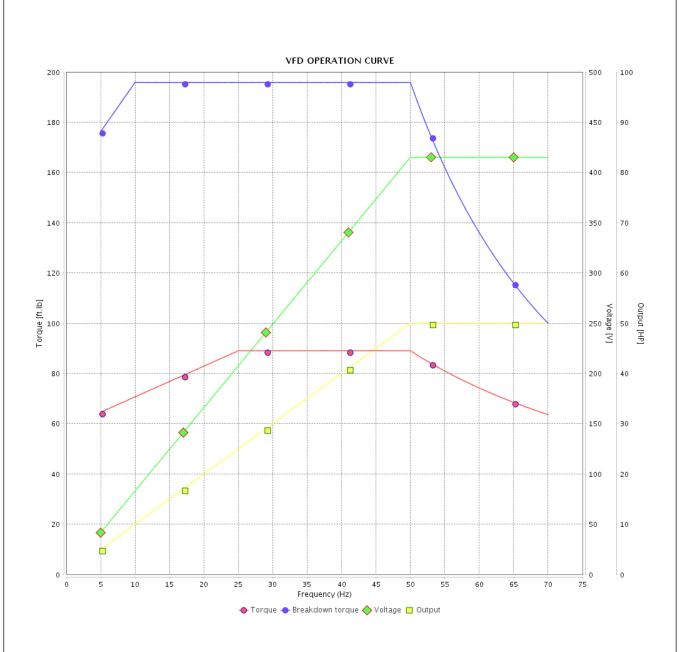
Product code: 11893637

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Performance : 415 V 50 Hz 2P IE1 Rated current : 63.3 A Moment of inertia (J) : 5.75 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 : 89.0 ft.lb Insulation class : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2950 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

