DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13923290

Catalog #: 02536ST3QIE284TSC-W2

Frame : 284/6TSC Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

: 1000 m.a.s.l. Altitude Approx. weight³ : 391 lb

Protection degre	е	: IP55		Momer	nt of inertia (J)	: 2	.69 sq.ft.lb	
Design		: B						
Output [HP]		25	20	20	20	25	25	25
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]		28.8	27.9	26.8	26.1	34.9	33.3	31.8
L. R. Amperes [A]		181	173	185	193	171	183	191
LRC [A]		6.3x(Code	6.2x(Code	6.9x(Code H)	7.4x(Code J)	4.9x(Code E)	5.5x(Code F)	6.0x(Code
		G)	G)					G)
No load current [A]	8.00	8.00	8.50	9.00	8.00	8.50	9.00
Rated speed [RPN	/ 1]	3545	2945	2950	2955	2910	2930	2935
Slip [%]		1.53	1.83	1.67	1.50	3.00	2.33	2.17
Rated torque [ft.lb]]	37.0	35.7	35.6	35.5	45.0	44.8	44.7
Locked rotor torqu	e [%]	200	200	229	240	160	180	190
Breakdown torque	[%]	250	240	280	300	200	220	240
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		30s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)
		17s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)
Noise level ²		72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
	25%	90.8	89.0	89.4	88.9	91.5	91.5	90.8
Efficiency (%)	50%	91.0	90.2	90.3	89.8	91.0	91.0	91.0
Efficiency (70)	75%	91.7	90.7	91.1	91.1	90.2	91.0	91.0
	100%	91.7	91.9	91.9	91.9	89.5	90.2	91.0
	25%	0.55	0.55	0.52	0.49	0.61	0.58	0.55
Power Factor	50%	0.79	0.79	0.77	0.75	0.83	0.81	0.80
Fower Factor	75%	0.86	0.86	0.85	0.83	0.88	0.87	0.86
	100%	0.88	0.89	0.88	0.87	0.90	0.89	0.89

Drive end Non drive end Foundation loads

Bearing type 6311 C3 6211 C3 Max. traction : 272 lb Sealing Inpro/Seal Inpro/Seal Max. compression : 663 lb 14000 h 17000 h Lubrication interval

Lubricant amount 18 g 11 g Mobil Polyrex EM Lubricant type

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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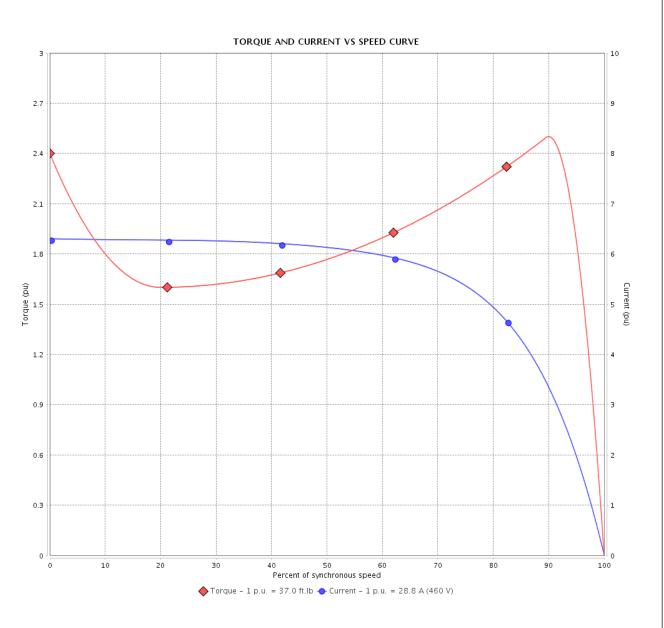


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13923290

Phase

Catalog #: 02536ST3QIE284TSC-W2



Performance	: 460 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.8 A : 6.3 : 37.0 ft.lb : 200 % : 250 % : 3545 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor time	: 30s (cold) 17s (hot)			

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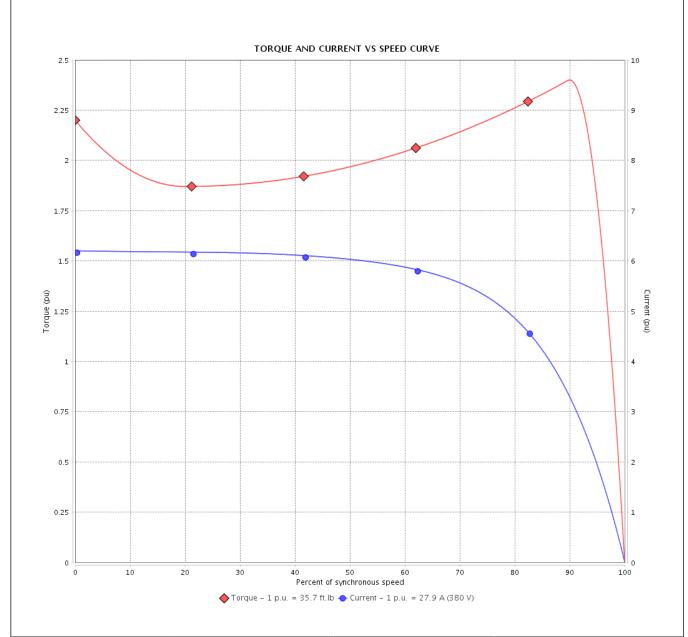
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 13923290

Catalog #: 02536ST3QIE284TSC-W2



Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 27.9 A	Moment of inertia (J)	: 2.69 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 35.7 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 2945 rpm	Design	: B	
Locked roter time	: 25s (cold) 14s (bot)			-

Locked rotor time : 25s (cold) 14s (hot)

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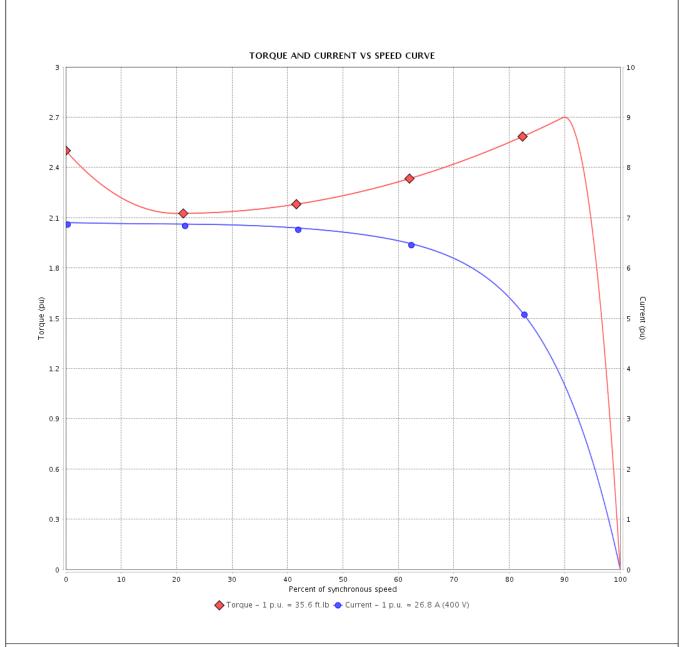
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02536ST3QIE284TSC-W2

13923290



Performance : 400 V 50 Hz 2P IE3 Rated current : 26.8 A Moment of inertia (J) : 2.69 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 35.6 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

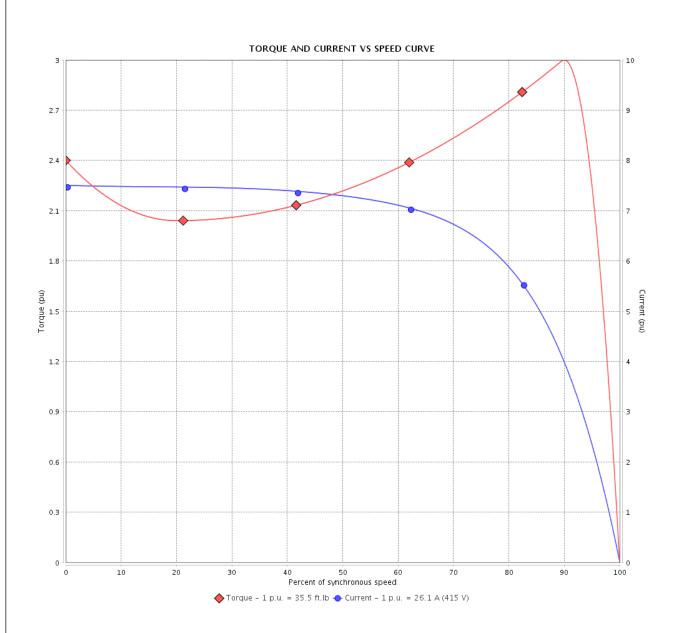
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Customer Product line : NEMA Premium Efficiency Three-Product code: 13923290

> Catalog #: 02536ST3QIE284TSC-W2



Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 26.1 A	Moment of inertia (J)	: 2.69 sq.ft.lb	
LRC	: 7.4	Duty cycle	: Cont.(S1)	
Rated torque	: 35.5 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 2955 rpm	Design	: B	
Locked rotor time	: 25s (cold) 14s (hot)			

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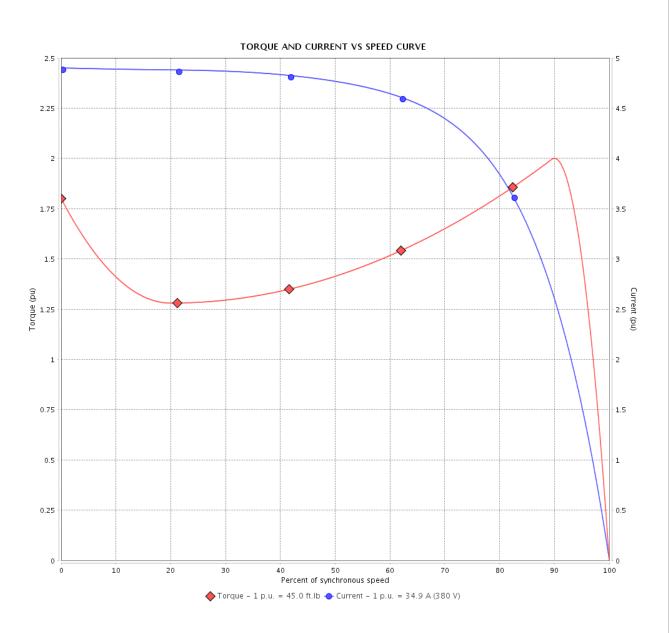
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 13923290

Catalog #: 02536ST3QIE284TSC-W2



Performance	: 380 V 50 Hz 2P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.9 A : 4.9 : 45.0 ft.lb : 160 % : 200 % : 2910 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Locked rotor time	: 25s (cold) 14s (hot)			

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13923290 Catalog #: 02536ST3QIE284TSC-W2 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. = 44.8 ft.lb ◆ Current - 1 p.u. = 33.3 A (400 V) Performance : 400 V 50 Hz 2P IE1 Rated current : 33.3 A Moment of inertia (J) : 2.69 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 44.8 ft.lb : F Locked rotor torque : 180 % Service factor : 1.00 : 105 K Breakdown torque : 220 % Temperature rise Rated speed : 2930 rpm Design : B Locked rotor time : 25s (cold) 14s (hot) Date Rev. Performed Checked **Changes Summary**

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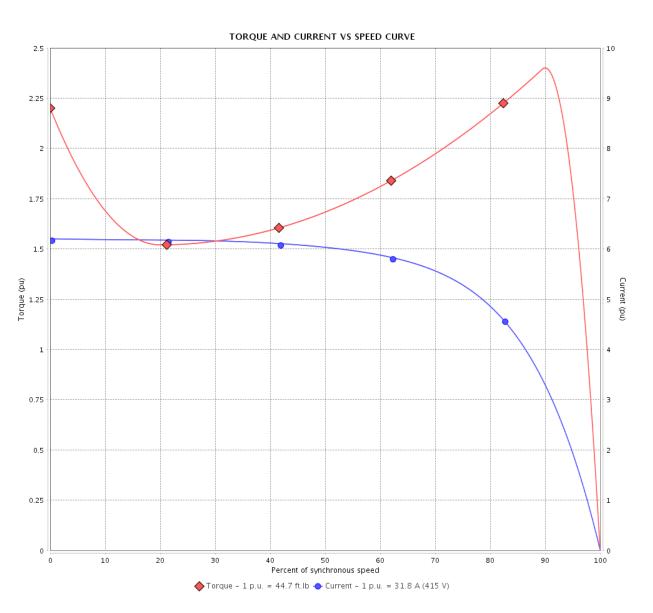
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02536ST3QIE284TSC-W2

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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 31.8 A : 6.0 : 44.7 ft.lb : 190 % : 240 % : 2935 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Locked rotor time	: 25s (cold) 14s (hot)				
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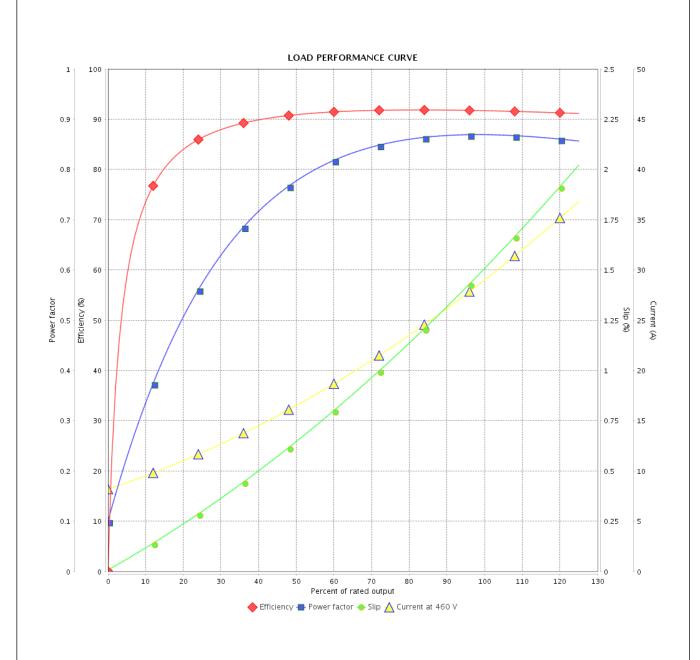
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13923290

Phase

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Performance	: 460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.8 A : 6.3 : 37.0 ft.lb : 200 % : 250 % : 3545 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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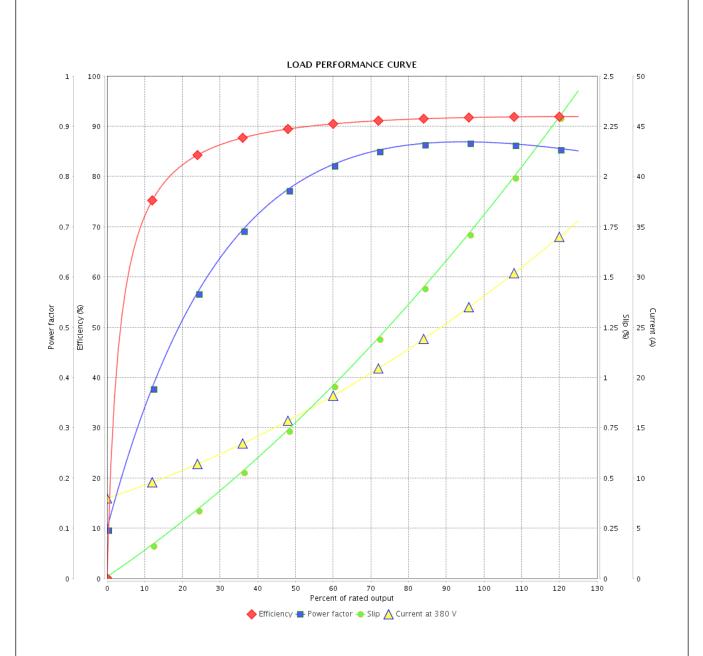
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02536ST3QIE284TSC-W2

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.9 A : 6.2 : 35.7 ft.lb : 200 % : 240 % : 2945 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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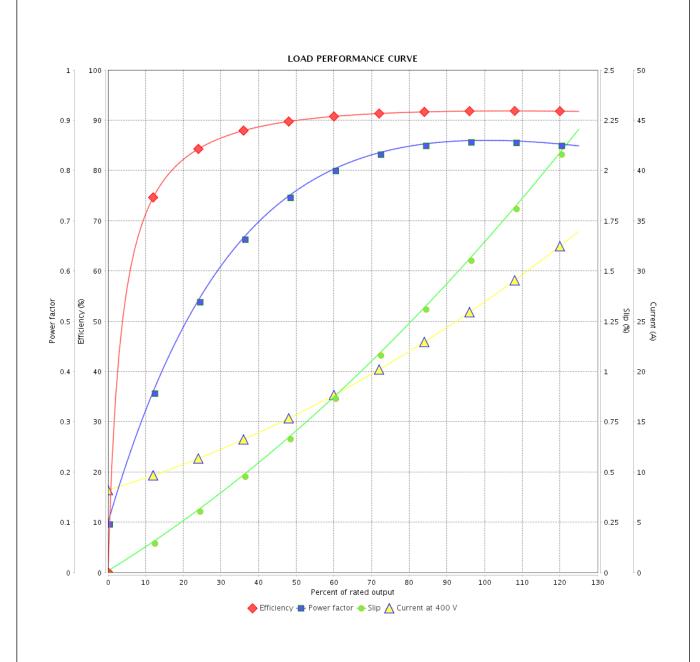
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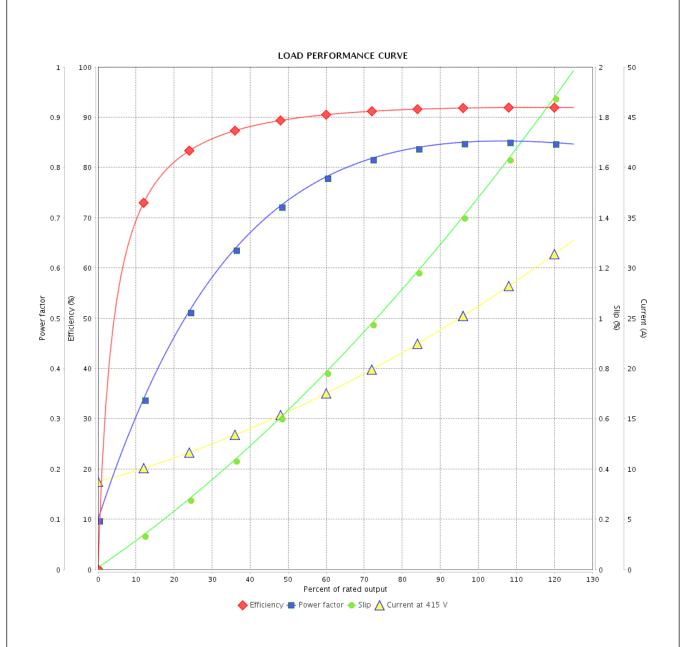
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Product line : NEMA Premium Efficiency Three- Product code : 13923290

Phase

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Performance	:	415 V 50 Hz 2P IE3	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	: 26.1 A Moment of : 7.4 Duty cycle : 35.5 ft.lb Insulation of : 240 % Service fact : 300 % Temperatur : 2955 rpm Design		class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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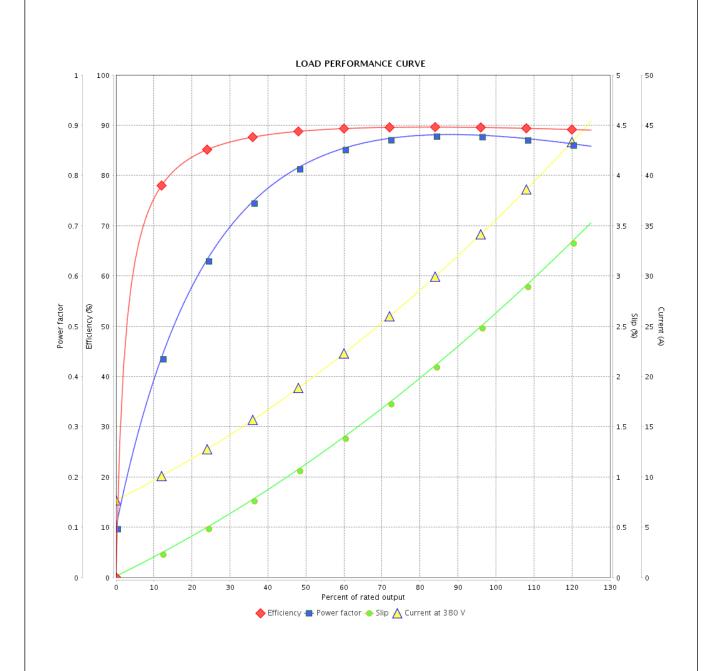
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 13923290

Catalog #: 02536ST3QIE284TSC-W2



Performance	: 3	380 V 50 Hz 2P IE1				
Rated current : 34.		34.9 A	Moment o	Moment of inertia (J)		
LRC	: 4	4.9	Duty cycle	;	: Cont.(S1)	
Rated torque		45.0 ft.lb	Insulation	class	: F	
Locked rotor torque		160 %	Service fa	ctor	: 1.00	
Breakdown torque		200 %	Temperati	Temperature rise		
Rated speed	: 2	2910 rpm	Design		: B	
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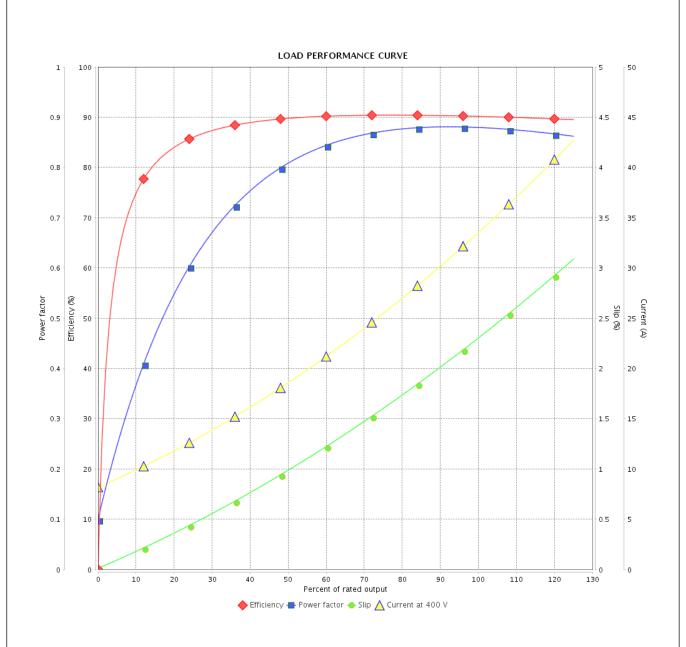
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Performance : 400 V 50 Hz 2P IE1 : 33.3 A Rated current Moment of inertia (J) : 2.69 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.5 : 44.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2930 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



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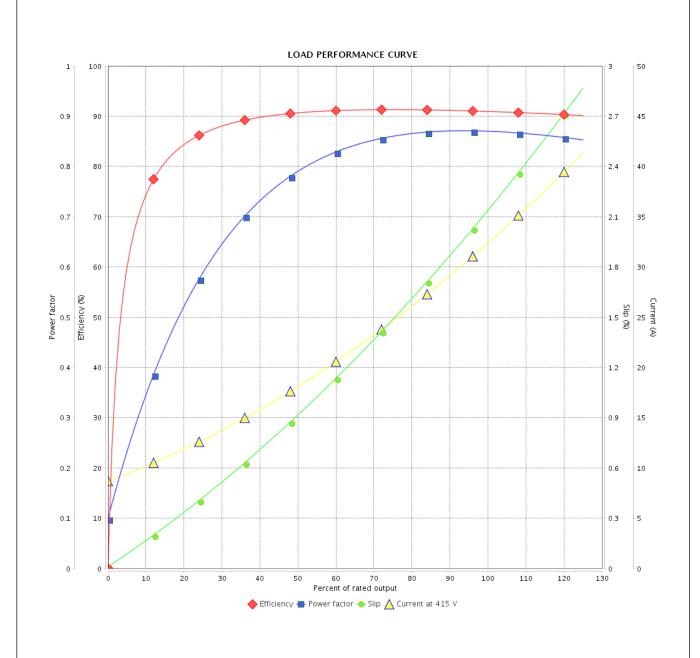
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Product code: 13923290

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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 31.8 A : 6.0 : 44.7 ft.lb : 190 % : 240 % : 2935 rpm	Moment of inerti Duty cycle Insulation class Service factor Temperature rise Design	` ,	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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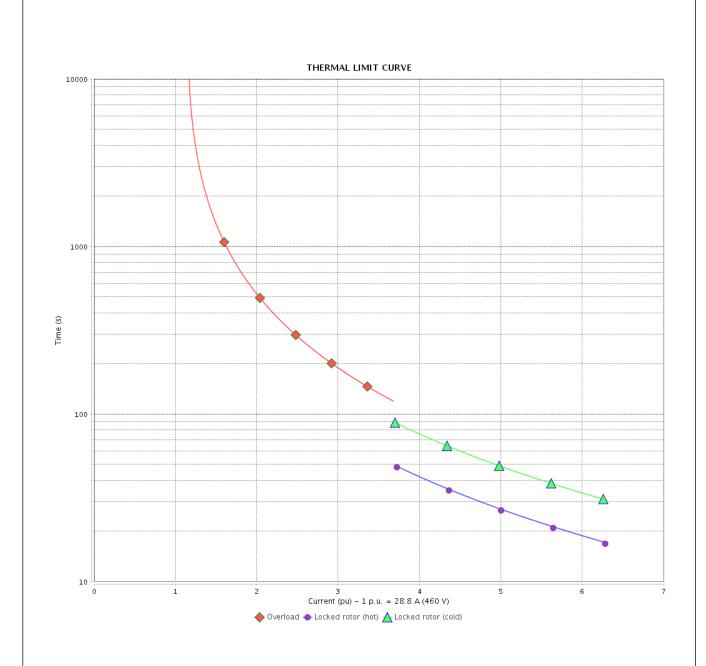


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13923290 02536ST3QIE	:284TSC-W2
Performance		: 460 V 60 Hz 2P		6 : (1)		
Rated current LRC		: 28.8 A : 6.3	Duty cycle		: 2.69 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torc		: 37.0 ft.lb : 200 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 250 % : 250 %	Temperat		: 80 K	
Rated speed		: 3545 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	L .	Changes Summary		Performed	Checked	Date
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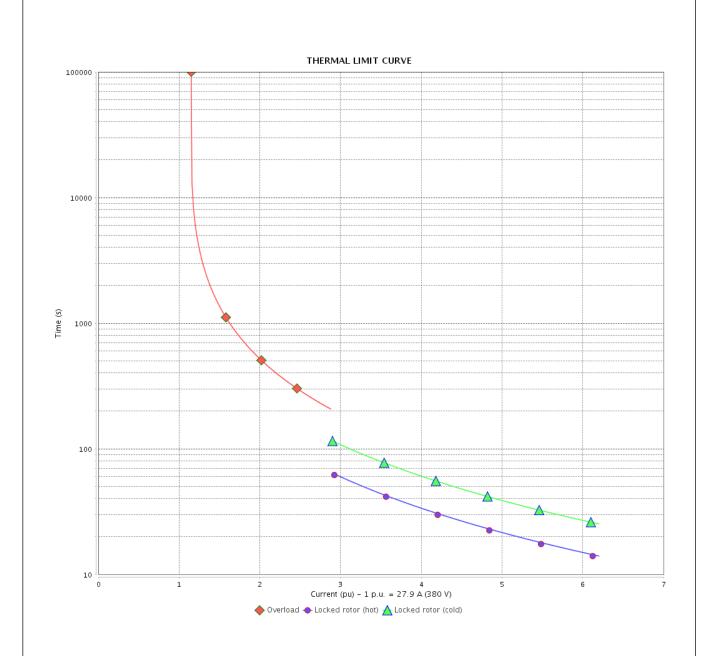


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13923290 02536ST3QI	E284TSC-W2
Performance Rated current LRC	:	380 V 50 Hz 2P IE3 27.9 A 6.2	Duty cycle		: 2.69 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord Breakdown torqu Rated speed	que :	35.7 ft.lb 200 % 240 % 2945 rpm	Insulation Service fa Temperatu Design	class ctor	: F : 1.00 : 80 K : B	
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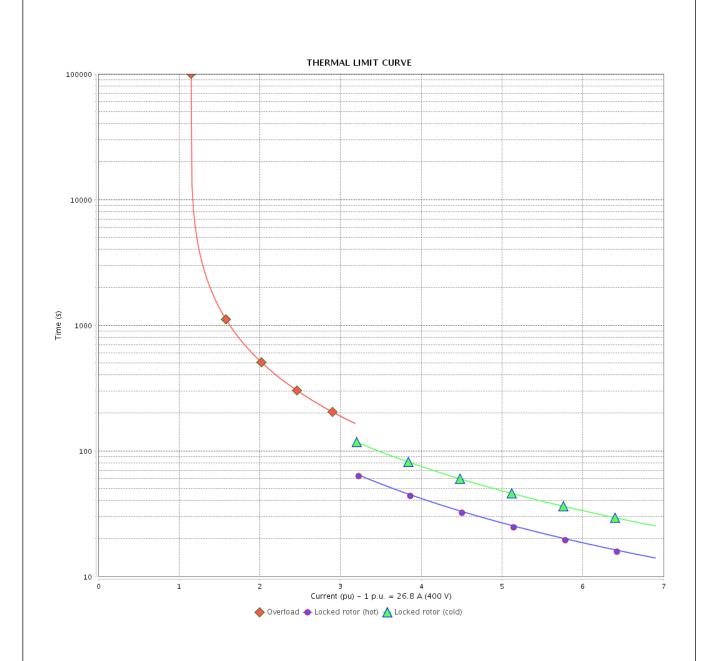


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13923290 02536ST3QIE	:284TSC-W2
Performance		: 400 V 50 Hz 2P IE3	1			
Rated current LRC Rated torque		: 26.8 A : 6.9 : 35.6 ft.lb	Duty cycle Insulation	class	: 2.69 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ie	: 229 % : 280 % : 2950 rpm	Service fa Temperat Design		: 1.00 : 80 K : B	
Heating constant						
Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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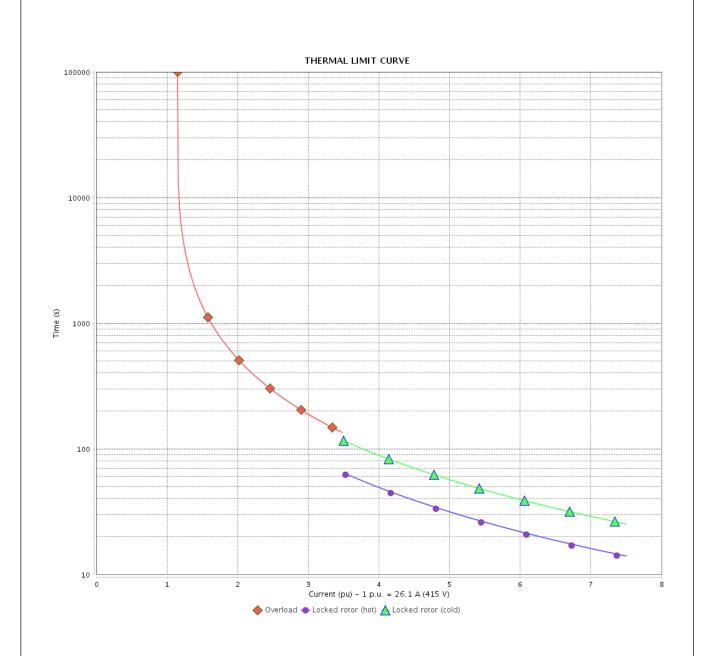


Customer	:	:				
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code : Catalog # :	13923290 02536ST3QII	E284TSC-W2
Performance Rated current LRC Rated torque Locked rotor torculations	: : : : : : : : : : : :	415 V 50 Hz 2P IE3 26.1 A 7.4 35.5 ft.lb 240 % 300 %	Duty cycle Insulation Service fa Temperatu	class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed Heating constant Cooling constant Rev.	t	2955 rpm Changes Summary	Design	Performed	: B	Date
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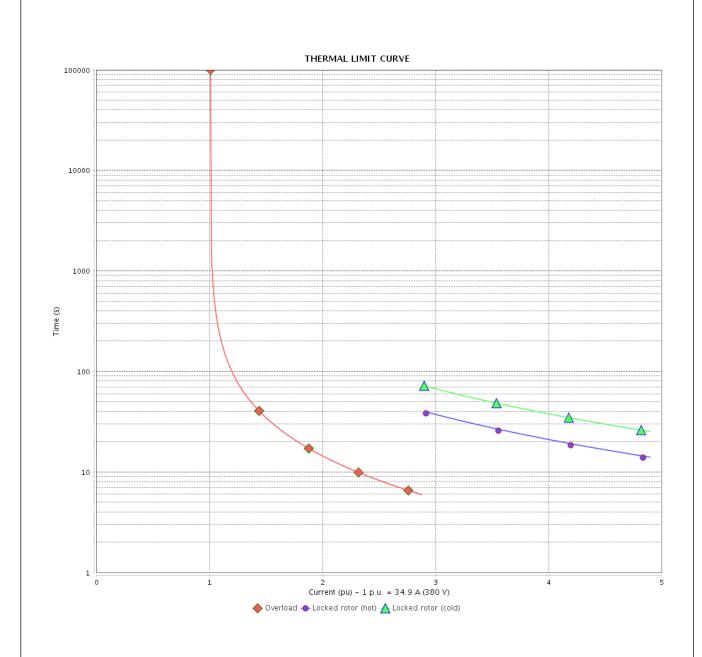


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13923290 02536ST3QIE	284TSC-W2
Performance		: 380 V 50 Hz 2P IE1				
Rated current LRC		: 34.9 A : 4.9	Moment of	of inertia (J)	: 2.69 sq.ft.lb : Cont.(S1)	
Rated torque		: 45.0 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 160 % : 200 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 2910 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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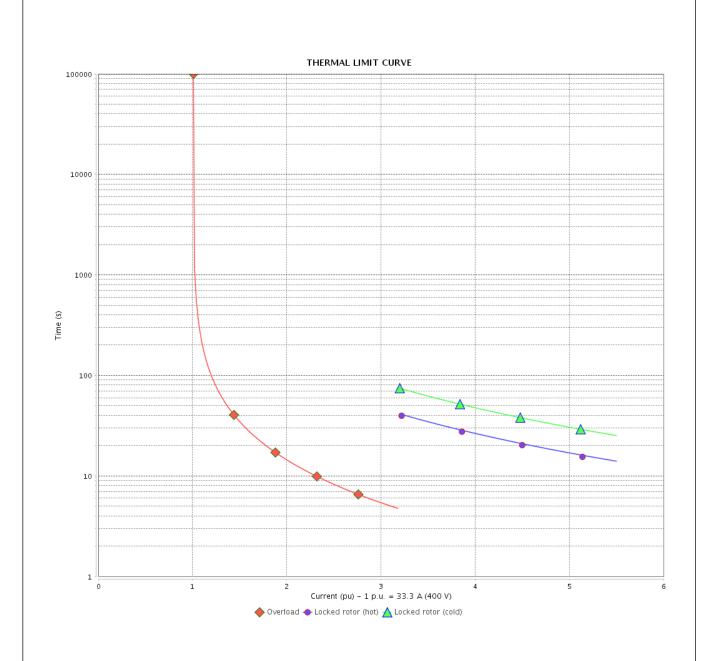


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Product line			13923290	
			0050007001	-204TOO 14/2
		Catalog #:	02536ST3QIE	E284TSC-W2
Performance	: 400 V 50 Hz 2P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 33.3 A : 5.5 : 44.8 ft.lb : 180 % : 220 % : 2930 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant Cooling constant				
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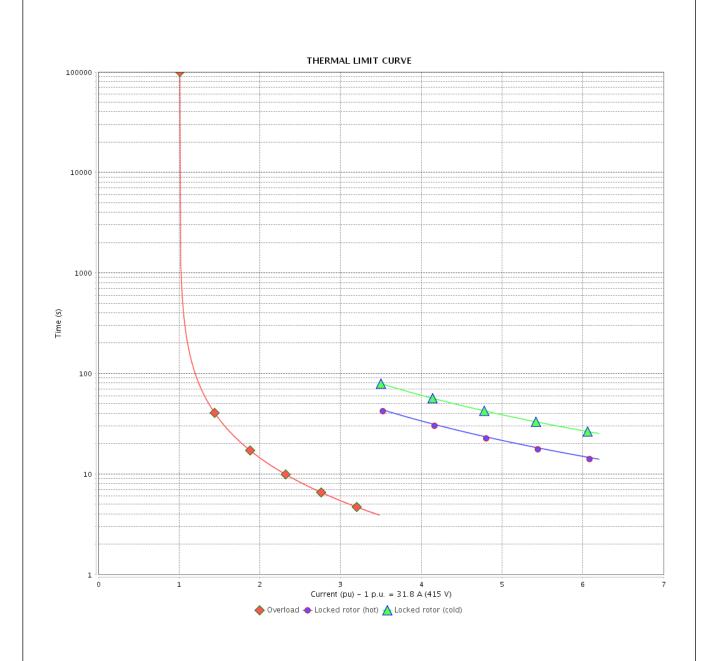


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13923290 02536ST3QIE	:284TSC-W2
Performance		: 415 V 50 Hz 2P IE2	I			
Rated current LRC Rated torque		: 31.8 A : 6.0 : 44.7 ft.lb	Duty cycle Insulation	class	: 2.69 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu	ie :	: 190 % : 240 %	Service fa Temperate		: 1.00 : 105 K	
Rated speed		: 2935 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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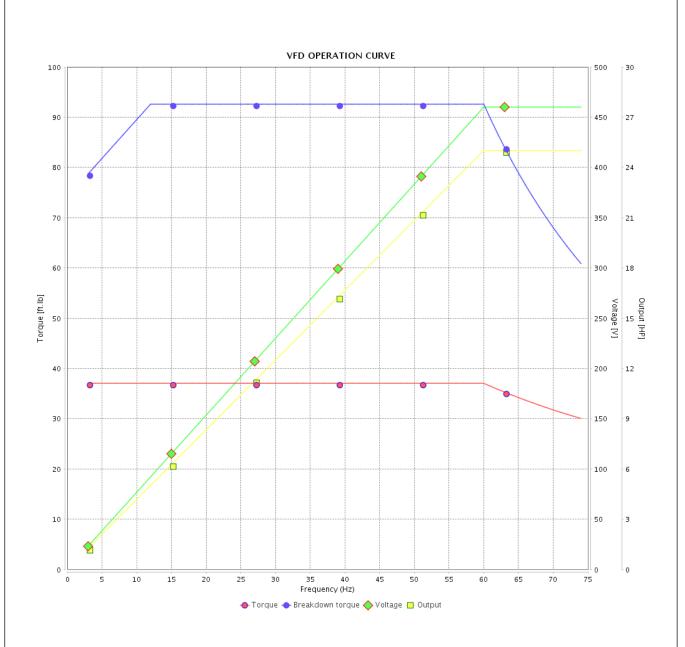
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13923290

Catalog #: 02536ST3QIE284TSC-W2



Performance		: 460 V 60 Hz 2F				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 28.8 A : 6.3 : 37.0 ft.lb : 200 % : 250 % : 3545 rpm	Duty o Insula Servic	rion class e factor erature rise	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Sui	mmary	Performed	Checked	Date
Performed by						

Checked by			Page	Revision
Date	14/04/2022		30 / 36	
This do	cument is exclusive	property of WEG S/A. Reprinting is not allowed without written	authorization of WE	G S/A.
		Subject to change without notice		

Three Phase Induction Motor - Squirrel Cage



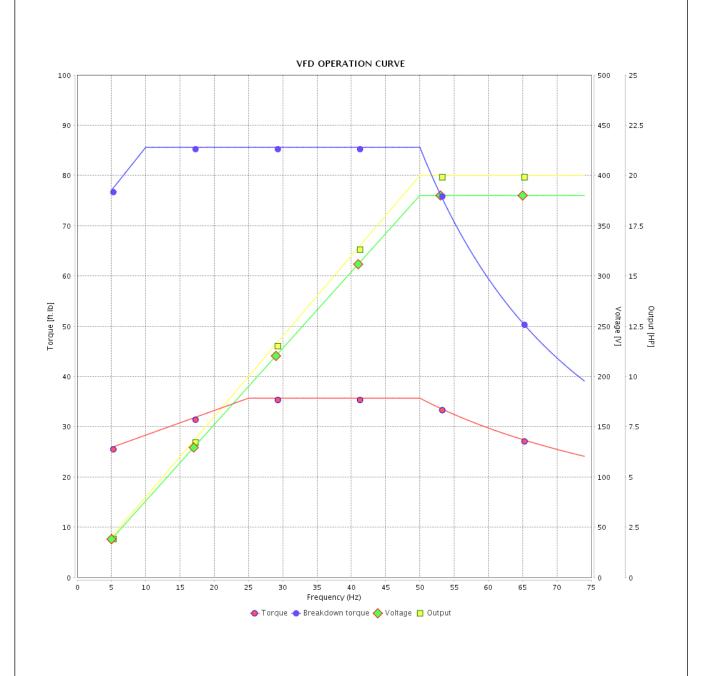
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02536ST3QIE284TSC-W2

13923290



Performance	:	380 V 50 Hz 2P IE3				
Rated current	: 27.9 A Moment		Moment of	of inertia (J) : 2.69 sq.ft.lb		
LRC	: (6.2	Duty cycle)	: Cont.(S1)	
Rated torque	•	35.7 ft.lb	Insulation	class	: F	
Locked rotor tord	que ::	200 %	Service fa	ctor	: 1.00	
		240 %	Temperati	Temperature rise		
Rated speed	::	2945 rpm	Design		: B	
Rev.		Changes Summary	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
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Three Phase Induction Motor - Squirrel Cage



Revision

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Customer

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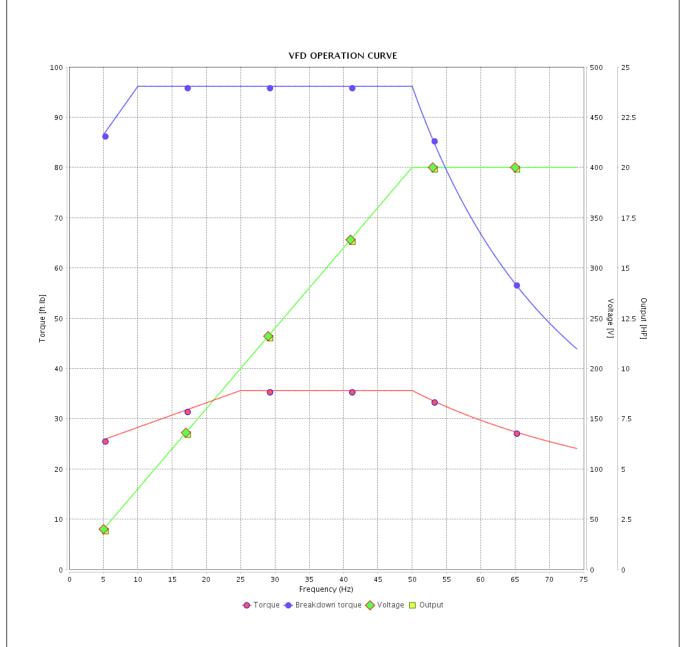
Date

14/04/2022

Product line : NEMA Premium Efficiency Three-

Product code: 13923290

Catalog #: 02536ST3QIE284TSC-W2



Performance : 400 V 50 Hz 2P IE3 Rated current : 26.8 A Moment of inertia (J) : 2.69 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class : 35.6 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2950 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page

Three Phase Induction Motor - Squirrel Cage

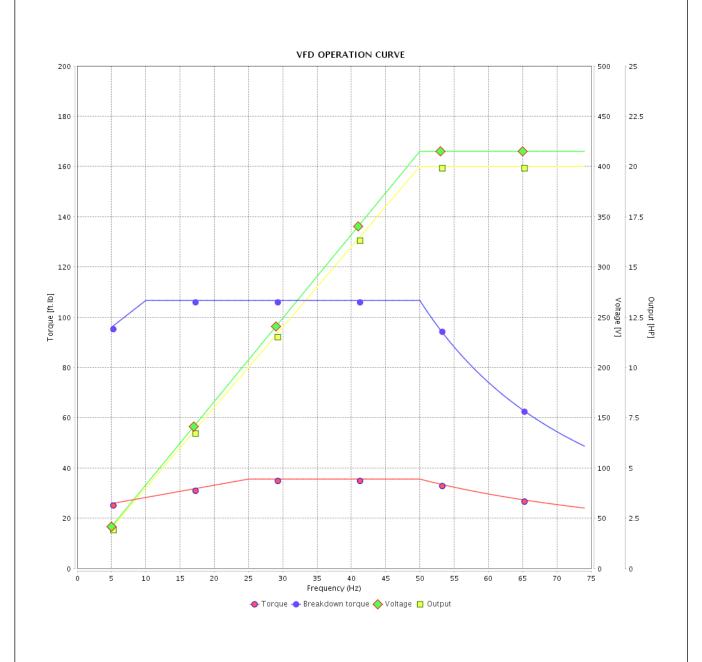


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13923290

Phase

Catalog #: 02536ST3QIE284TSC-W2



		,				
:						
:	Moment of inertia (J)		: 2.69 sq.ft.lb			
:	7.4	Duty cycle	Duty cycle		: Cont.(S1)	
:	35.5 ft.lb	Insulation	Insulation class			
ue :	240 %	Service fa	Service factor			
e :	: 300 % : 2955 rpm		Temperature rise Design			
:						
	Changes Summary		Performed	Checked	Date	
				Page	Revision	
14/04/2022				· ·		
	: : : : : : : :	e : 300 % : 2955 rpm Changes Summar	: 26.1 A Moment o : 7.4 Duty cycle : 35.5 ft.lb Insulation Service fa e : 300 % Temperatu : 2955 rpm Design Changes Summary	: 26.1 A	: 26.1 A Moment of inertia (J) : 2.69 sq.ft.lb : 7.4 Duty cycle : Cont.(S1) : 35.5 ft.lb Insulation class : F ue : 240 % Service factor : 1.00 e : 300 % Temperature rise : 80 K : 2955 rpm Design : B Changes Summary Performed Checked Page	

Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

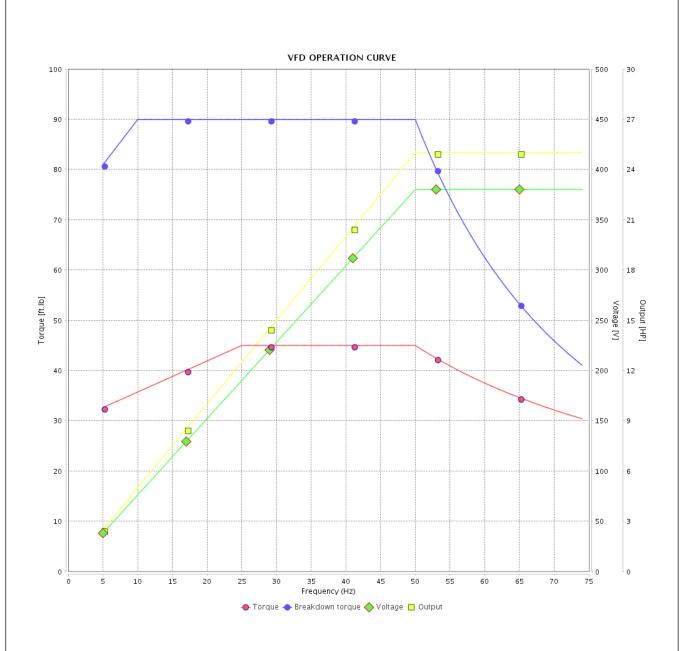
Product code: 13923290

Catalog #: 02536ST3QIE284TSC-W2

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Performance : 380 V 50 Hz 2P IE1 Rated current : 34.9 A Moment of inertia (J) : 2.69 sq.ft.lb **LRC** : 4.9 Duty cycle : Cont.(S1) : 45.0 ft.lb Insulation class : F Rated torque Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 2910 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



Customer

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Product line : NEMA Premium Efficiency Three- Product code :

Phase

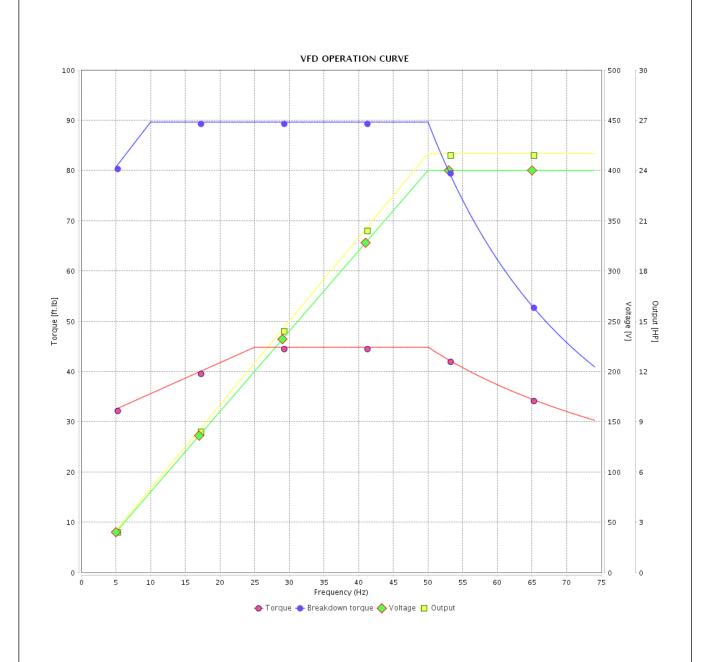
Product code: 13923290

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Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : NEMA Premium Efficiency Three-

Phase

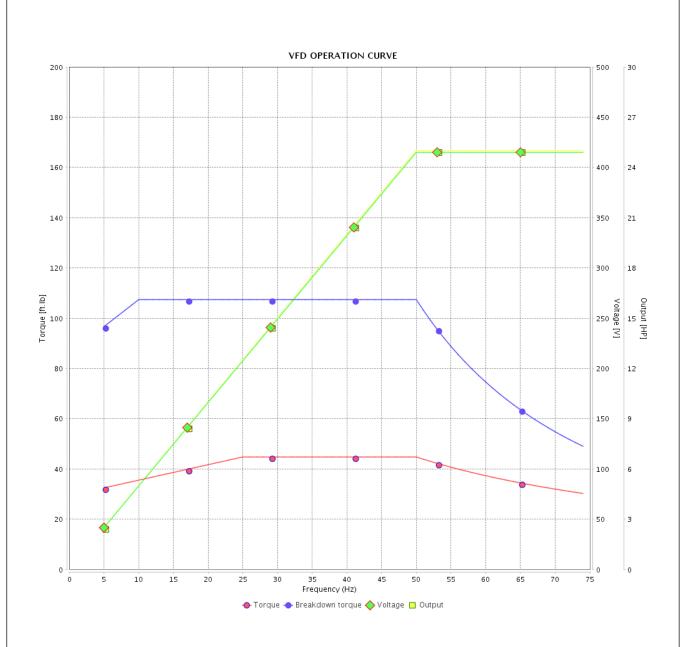
Product code: 13923290

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Performance : 415 V 50 Hz 2P IE2 Rated current : 31.8 A Moment of inertia (J) : 2.69 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.0 : 44.7 ft.lb Insulation class : F Rated torque Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 2935 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

