DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447101

Catalog #: 02536ET3E284TSC-W22

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹

: Both (CW and CCW) : -20°C to +40°C Starting method Ambient temperature : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 406 lb Altitude

Protection degree : IP55 Moment 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]		230/460	380	400	415	380	400	415
Rated current [A]		57.0/28.5	27.6	26.5	25.8	34.9	33.3	31.8
L. R. Amperes [A]		359/180	171	183	191	171	183	191
LRC [A]		6.3x(Code	6.2x(Code	6.9x(Code H)	7.4x(Code H)	4.9x(Code E)	5.5x(Code F)	6.0x(Code F)
		G)	G)					
No load current [A]	15.0/7.50	7.40	7.90	8.30	7.40	7.90	8.30
Rated speed [RPN	<i>/</i> I]	3535	2930	2940	2945	2910	2920	2935
Slip [%]		1.81	2.33	2.00	1.83	3.00	2.67	2.17
Rated torque [ft.lb]	Rated torque [ft.lb]		35.8	35.7	35.7	45.1	45.0	44.7
Locked rotor torqu	e [%]	200	200	229	240	160	180	190
Breakdown torque	[%]	250	240	280	300	190	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%							
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%							
Power Factor	50%	0.82	0.79	0.78	0.75	0.85	0.84	0.82
FUWEI FACIOI	75%	0.87	0.87	0.86	0.85	0.89	0.88	0.87
	100%	0.89	0.90	0.89	0.88	0.90	0.89	0.89

Non drive end Drive end Foundation loads

Bearing type 6311 C3 6211 C3 Max. traction : 265 lb Sealing V'Ring V'Ring : 671 lb Max. compression Lubrication interval 14000 h 17000 h

Lubricant amount 18 g 11 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 63.0A SF 1.10 SFA 69.3A

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			1 / 36	

Three Phase Induction Motor - Squirrel Cage



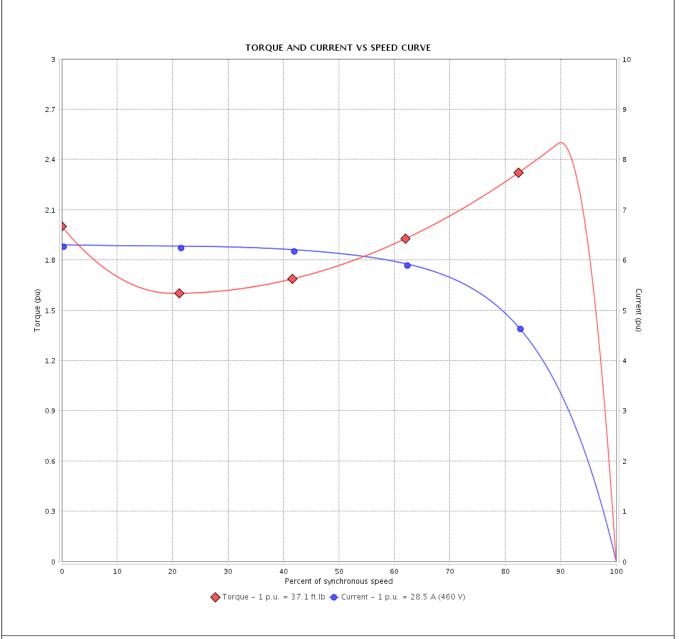
Customer :

Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 12447101

Catalog #: 02536ET3E284TSC-W22



Performance : 230/460 V 60 Hz 2P Rated current : 57.0/28.5 A Moment of inertia (J) : 2.69 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 37.1 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2 / 36	

Three Phase Induction Motor - Squirrel Cage

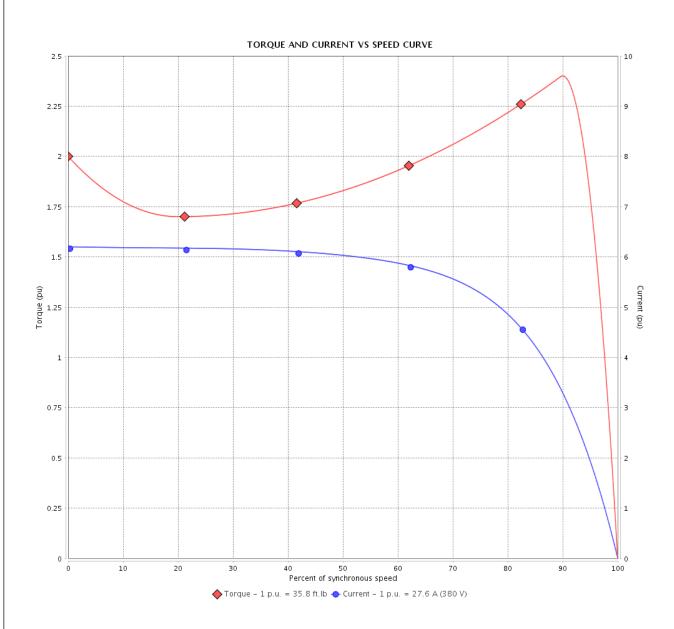


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447101

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Catalog #: 02536ET3E284TSC-W22



Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 27.6 A	Moment of inertia (J)	: 2.69 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 35.8 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 2930 rpm	Design	: B	

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

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			3 / 36	

Three Phase Induction Motor - Squirrel Cage

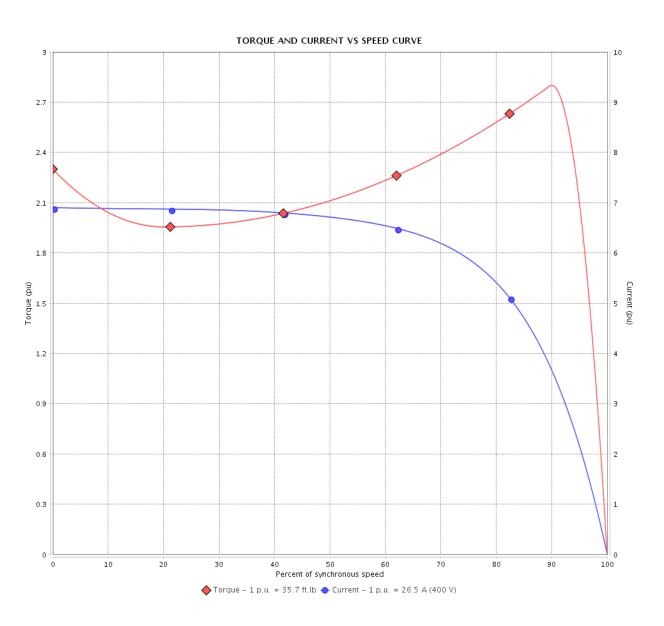


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447101

Phase

Catalog #: 02536ET3E284TSC-W22



Performance	: 400 V 50 Hz 2P IE3		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 26.5 A : 6.9 : 35.7 ft.lb : 229 % : 280 % : 2940 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
Locked rotor time	: 25s (cold) 14s (hot)		

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Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			4 / 36	

Three Phase Induction Motor - Squirrel Cage

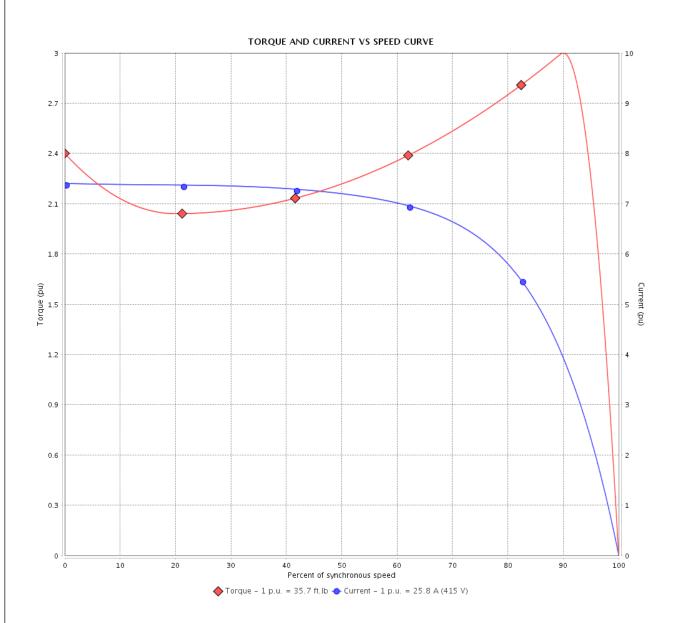


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447101

Phase

Catalog #: 02536ET3E284TSC-W22



Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 25.8 A	Moment of inertia (J)	: 2.69 sq.ft.lb	
LRC	: 7.4	Duty cycle	: Cont.(S1)	
Rated torque	: 35.7 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 2945 rpm	Design	: B	

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

		• • •			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			5 / 36	

Three Phase Induction Motor - Squirrel Cage

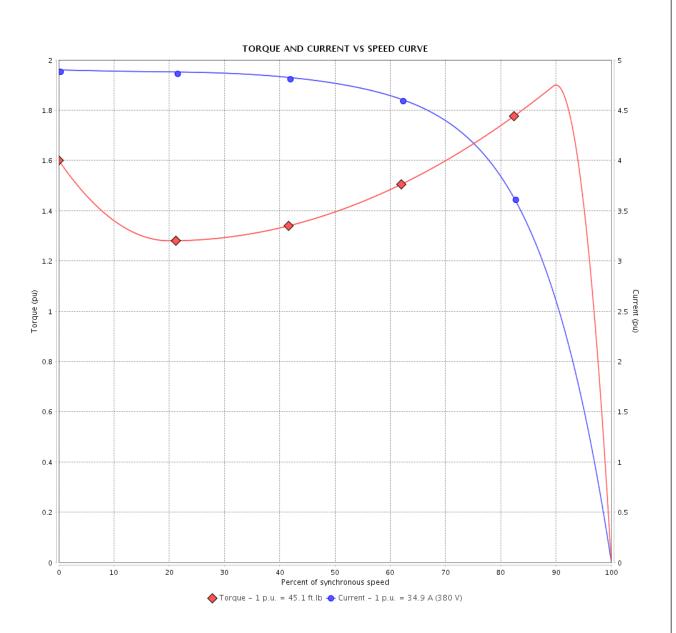


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 02536ET3E284TSC-W22

12447101



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)	
Rated torque	: 45.1 ft.lb	Insulation class	: F	
Locked rotor torque	: 160 %	Service factor	: 1.00	
Breakdown torque	: 190 %	Temperature rise	: 105 K	
Rated speed	: 2910 rpm	Design	: B	
Looked votes time	. OF a (and) 4.4 a (bat)	I		
Locked rotor time	: 25s (cold) 14s (hot)			

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			6 / 36	

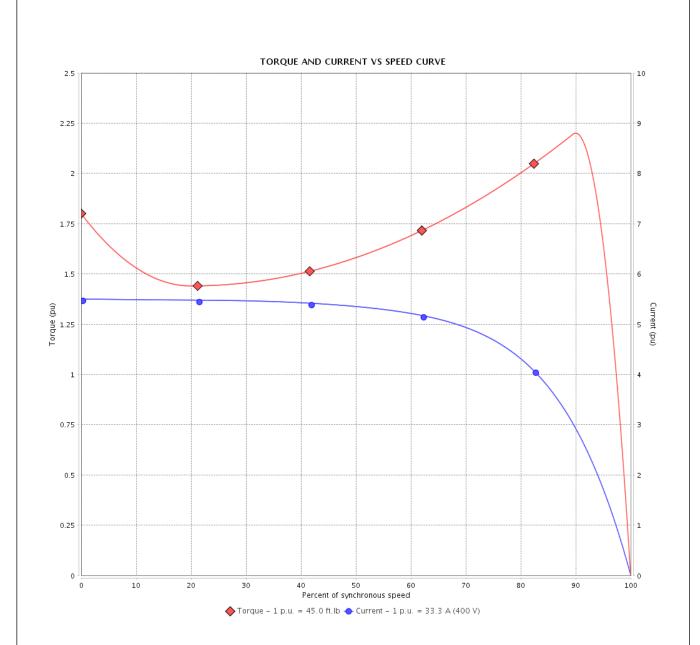
Three Phase Induction Motor - Squirrel Cage



02536ET3E284TSC-W22

Customer Product line : NEMA Premium Efficiency Three-Product code: 12447101

Catalog #:



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 : 45.0 ft.lb : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 2920 rpm Design : B Locked rotor time : 25s (cold) 14s (hot)

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			7 / 36	

Three Phase Induction Motor - Squirrel Cage

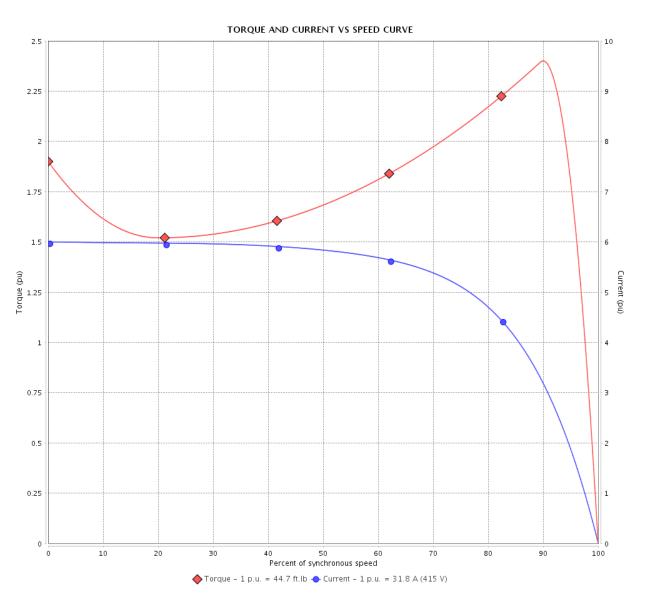


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447101

Phase

Catalog #: 02536ET3E284TSC-W22



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 in Duty cycle Insulation clus Service factor Temperature Design	ass or	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Locked rotor time	: 25s (cold) 14s (hot)				
Rev.	Changes Summary		Performed	Checked	Date

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			8 / 36	

Three Phase Induction Motor - Squirrel Cage

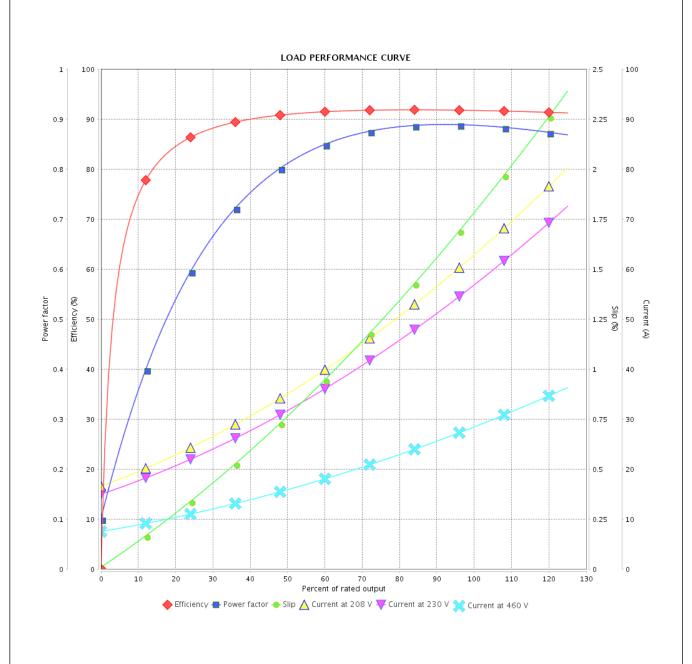


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447101

Phase

Catalog #: 02536ET3E284TSC-W22



Performance	: 2	230/460 V 60 Hz 2P				
Rated current	:	57.0/28.5 A	Moment o	f inertia (J)	: 2.69 sq.ft.lb	
LRC	: 6	: 6.3 Duty cycle		;	: Cont.(S1)	
Rated torque	: :	: 37.1 ft.lb Ins		class	: F	
Locked rotor torque : 200 %		200 %	Service fa	ctor	: 1.25	
Breakdown torqu	e : 2	250 %	Temperature rise		: 80 K	
Rated speed	: 3	3535 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				9 / 36	

Three Phase Induction Motor - Squirrel Cage



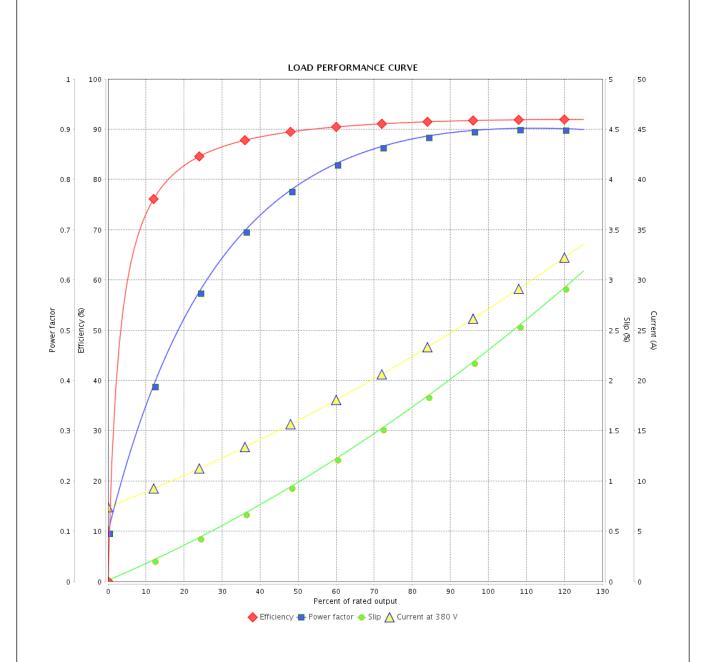
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02536ET3E284TSC-W22

12447101



Performance	:	380 V 50 Hz 2P IE3				
Rated current	:	27.6 A	Moment of	of inertia (J)	: 2.69 sq.ft.lb	
LRC	: 6.2		Duty cycle	е	: Cont.(S1)	
Rated torque	ed torque : 35.8 ft.lb		Insulation	class	: F	
Locked rotor torq	ocked rotor torque : 200 %		Service fa	actor	: 1.00	
Breakdown torqu	ie :	240 %	Temperature rise		: 80 K	
Rated speed	:	2930 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022	\neg			10 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12447101

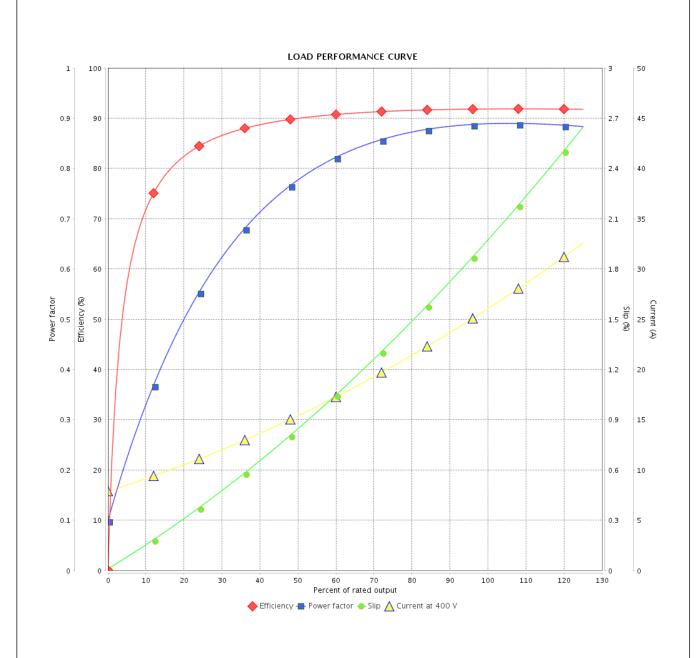
Phase

Catalog #: 02536ET3E284TSC-W22

Page

11/36

Revision



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 26.5 A : 6.9 : 35.7 ft.lb : 229 % : 280 % : 2940 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

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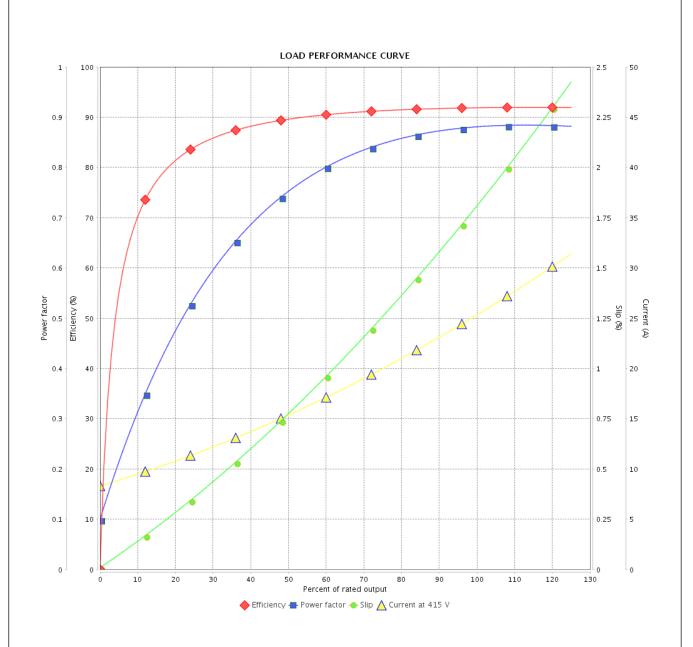
Catalog #: 02536ET3E284TSC-W22

Page

12/36

Revision

12447101



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 25.8 A : 7.4 : 35.7 ft.lb : 240 % : 300 % : 2945 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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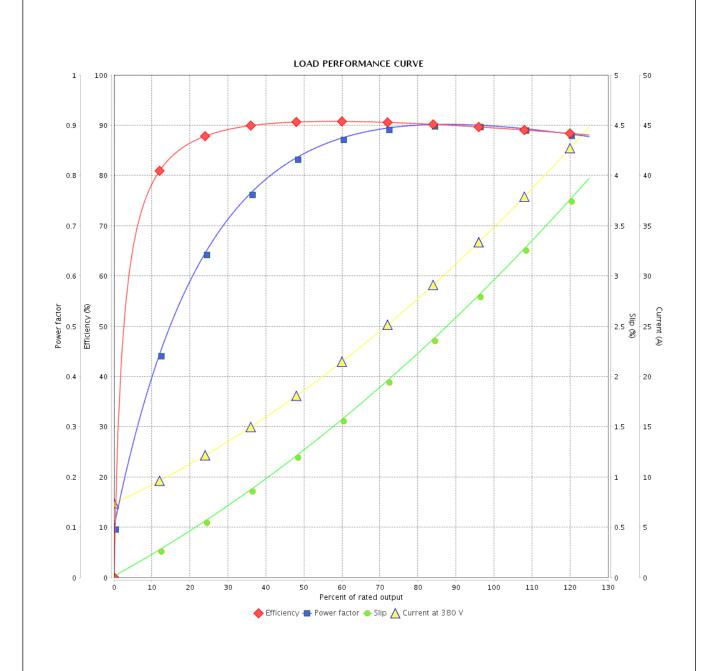
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447101

Catalog #: 02536ET3E284TSC-W22



Performance	::	: 380 V 50 Hz 2P IE1				
Rated current		34.9 A	Moment o	Moment of inertia (J)		
LRC		4.9	Duty cycle	Duty cycle		
Rated torque		45.1 ft.lb	Insulation class		: F	
Locked rotor tord	que :	160 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : '	190 %	Temperati	Temperature rise		
Rated speed	: 2	2910 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				13 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product of

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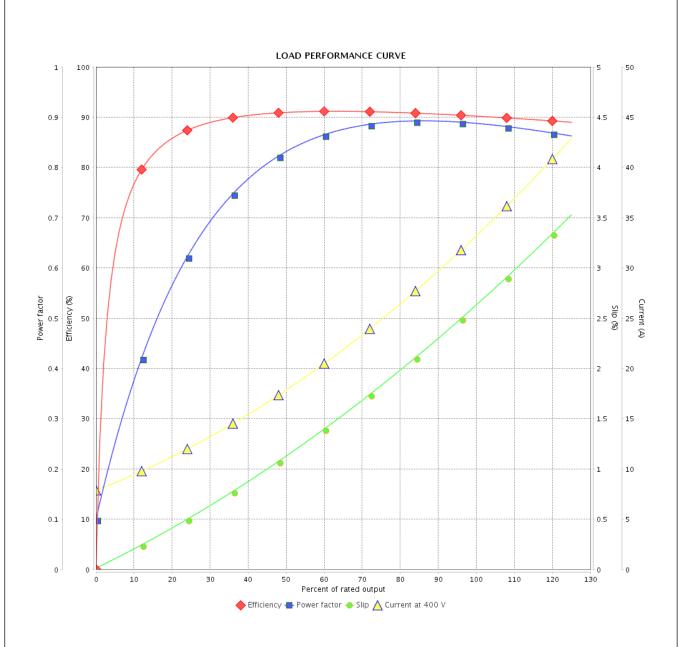
Product code: 12447101

Catalog #: 02536ET3E284TSC-W22

Page

14/36

Revision



Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.3 A : 5.5 : 45.0 ft.lb : 180 % : 220 % : 2920 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage

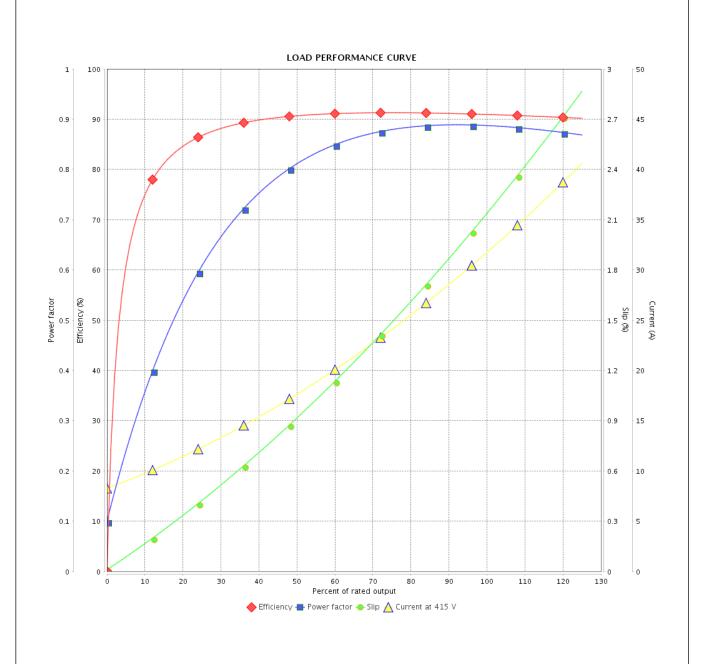


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447101

Phase

Catalog #: 02536ET3E284TSC-W22



Performance	: 4	: 415 V 50 Hz 2P IE2				
Rated current	tated current : 31.8 A		Moment o	f inertia (J)	: 2.69 sq.ft.lb	
LRC : 6.0		3.0	Duty cycle	;	: Cont.(S1)	
Rated torque :		14.7 ft.lb	Insulation	class	: F	
Locked rotor torque		190 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	240 %	Temperatu	ıre rise	: 105 K	
Rated speed	: 2	2935 rpm	Design		: B	
Rev.		Changes Summary	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				15 / 36	

Three Phase Induction Motor - Squirrel Cage

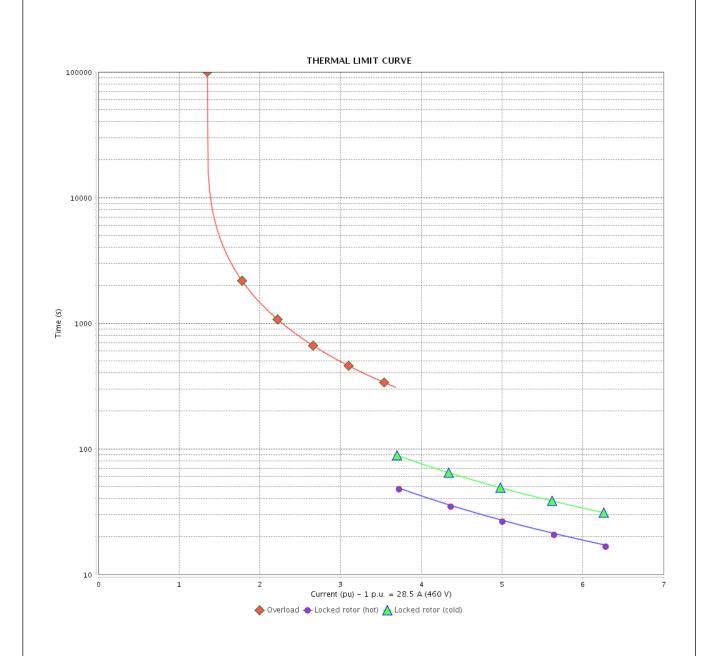


Customer						
		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12447101	
		riidse		Catalog # :	02536ET3E2	284TSC-W22
Performance		230/460 V 60 Hz 2P	Moment	of inertic (!)	· 2 60 og # lb	
Rated current LRC	:	57.0/28.5 A 6.3	Duty cycle		: 2.69 sq.ft.lb : Cont.(S1)	
Rated current LRC Rated torque	:	57.0/28.5 A 6.3 37.1 ft.lb	Duty cycle Insulation	e ı class	: Cont.(S1) : F	
Rated current LRC Rated torque Locked rotor tor	: : :rque :	57.0/28.5 A 6.3 37.1 ft.lb 200 %	Duty cycle Insulation Service fa	e ı class actor	: Cont.(S1) : F : 1.25	
Rated current LRC	: : : : : : : : : : :	57.0/28.5 A 6.3 37.1 ft.lb	Duty cycle Insulation	e ı class actor	: Cont.(S1) : F	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed	rque :	57.0/28.5 A 6.3 37.1 ft.lb 200 % 250 %	Duty cycle Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.25 : 80 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	rque : que :	57.0/28.5 A 6.3 37.1 ft.lb 200 % 250 %	Duty cycle Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.25 : 80 K	
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	rque : que :	57.0/28.5 A 6.3 37.1 ft.lb 200 % 250 % 3535 rpm	Duty cycle Insulation Service fa Temperat	e I class actor ure rise	: Cont.(S1) : F : 1.25 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar	rque : que :	57.0/28.5 A 6.3 37.1 ft.lb 200 % 250 %	Duty cycle Insulation Service fa Temperat	e ı class actor	: Cont.(S1) : F : 1.25 : 80 K	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar Rev.	rque : que :	57.0/28.5 A 6.3 37.1 ft.lb 200 % 250 % 3535 rpm	Duty cycle Insulation Service fa Temperat	e I class actor ure rise	: Cont.(S1) : F : 1.25 : 80 K : B	Date
Rated current LRC Rated torque Locked rotor tor Breakdown torq Rated speed Heating constar Cooling constar	rque : que :	57.0/28.5 A 6.3 37.1 ft.lb 200 % 250 % 3535 rpm	Duty cycle Insulation Service fa Temperat	e I class actor ure rise	: Cont.(S1) : F : 1.25 : 80 K : B	Date

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			17 / 36	

Three Phase Induction Motor - Squirrel Cage

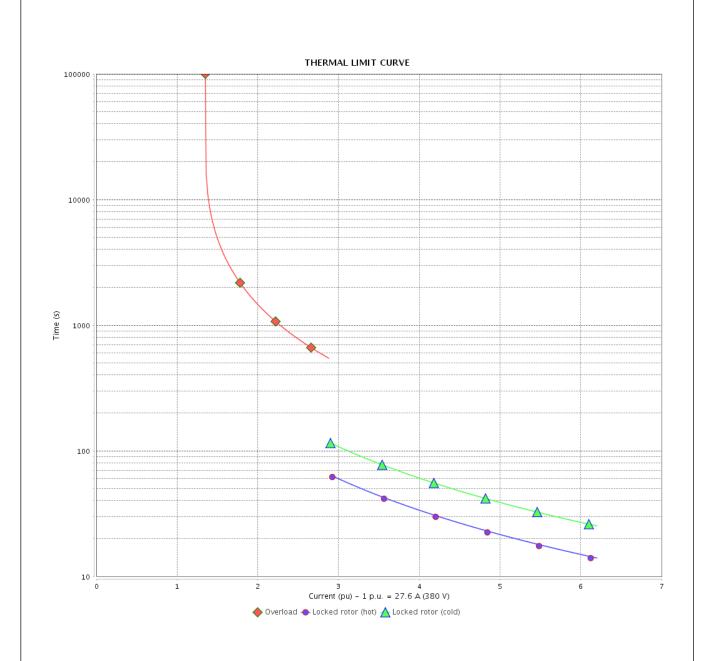


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447101 02536ET3E28	4TSC-W22
Performance	:	380 V 50 Hz 2P IE3				
Rated current LRC Rated torque	:	27.6 A 6.2 35.8 ft.lb	Moment on Duty cycle Insulation		: 2.69 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu	que :	200 % 240 %	Service fa Temperati	ctor	: 1.00 : 80 K	
Rated speed	:	2930 rpm	Design	u. 0 1100	: B	
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by	14/04/2022				Page 18 / 36	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by		_		Page	Revision
Date	14/04/2022			19 / 36	

Three Phase Induction Motor - Squirrel Cage

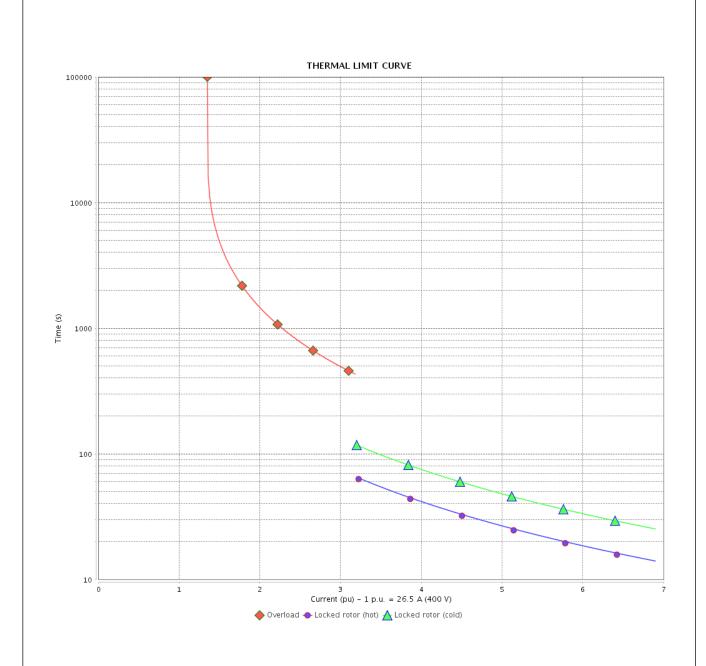


Customer	:				
	·				
Product line	: NEMA Premium Efficiency	Three-	Product code :	12447101	
	Phase			02536ET3E2	04TCC \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
			Catalog # :	02556E15E2	04130-7722
	: 400 V 50 Hz 2P IE3				
	: 26.5 A : 6.9	Moment o Duty cycle	f inertia (J)	: 2.69 sq.ft.lb : Cont.(S1)	
Rated torque	: 35.7 ft.lb	Insulation	class	: F	
	: 229 % : 280 %	Service fa Temperatu		: 1.00 : 80 K	
	: 2940 rpm	Design	116 119 <u>6</u>	: 80 K	
Heating constant					
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by				_	_
Checked by				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			21 / 36	

Three Phase Induction Motor - Squirrel Cage

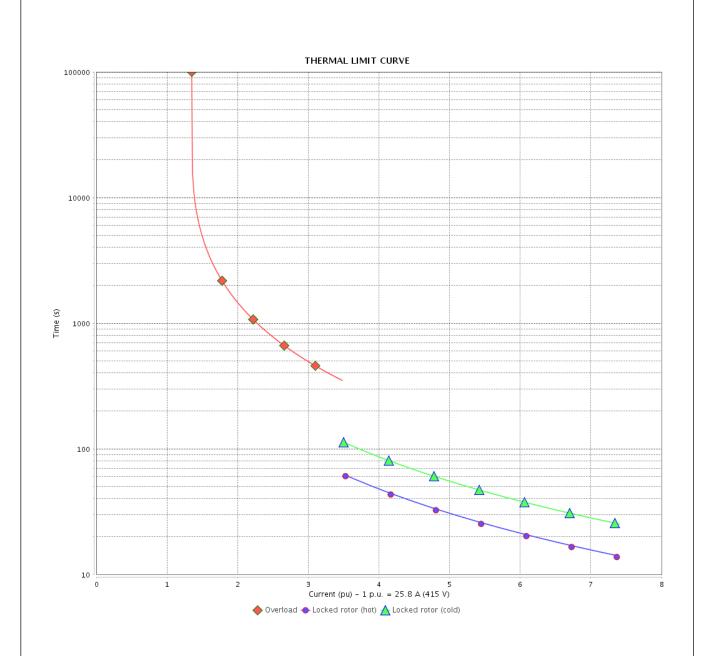


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12447101	
				Catalog # :	02536ET3E28	34TSC-W22
Performance		: 415 V 50 Hz 2P IE3	N4	-f:t: / I)	. 0.00 # !!-	
Rated current LRC		: 25.8 A : 7.4	Duty cycle	of inertia (J) e	: 2.69 sq.ft.lb : Cont.(S1)	
Rated torque		: 35.7 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 240 % : 300 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 2945 rpm	Design	a. 5 1100	: B	
Heating constant	t					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Darformed by						
Performed by Checked by					Page	Revision
Date	14/04/2022				22 / 36	1/0/1910[]

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by			·		
Checked by				Page	Revision
Date	14/04/2022			23 / 36	

Three Phase Induction Motor - Squirrel Cage

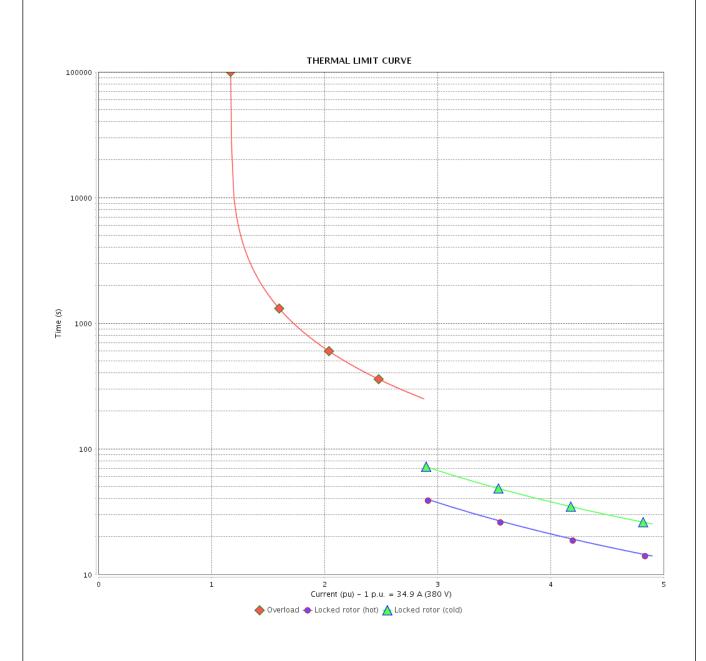


Customer	:					
Product line	. 1	NEMA Premium Efficiency	Three	Product code :	12447101	
Froductime		hase				
			(Catalog # :	02536ET3E28	B4TSC-W22
Performance		80 V 50 Hz 2P IE1	T			
Rated current LRC	: 3 ² : 4.	4.9 A 9	Moment of Duty cycle	f inertia (J)	: 2.69 sq.ft.lb : Cont.(S1)	
Rated torque	: 45	5.1 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		60 % 90 %	Service fa		: 1.00 : 105 K	
Rated speed		910 rpm	Design		: B	
Heating constant						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
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Date	14/04/2022			25 / 36	

Three Phase Induction Motor - Squirrel Cage

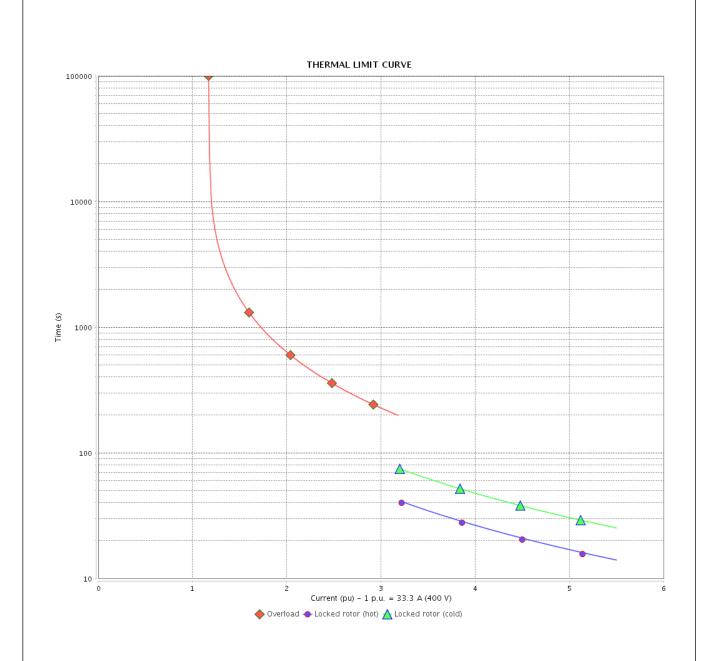


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	12447101	
		(Catalog # :	02536ET3E2	34TSC-W22
Performance	: 400 V 50 Hz 2P IE1				
LRC Rated torque Locked rotor torque Breakdown torque	: 33.3 A : 5.5 : 45.0 ft.lb : 180 % : 220 % : 2920 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Performed by Checked by				Page	Revision

Three Phase Induction Motor - Squirrel Cage



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Date	14/04/2022			27 / 36	

Three Phase Induction Motor - Squirrel Cage

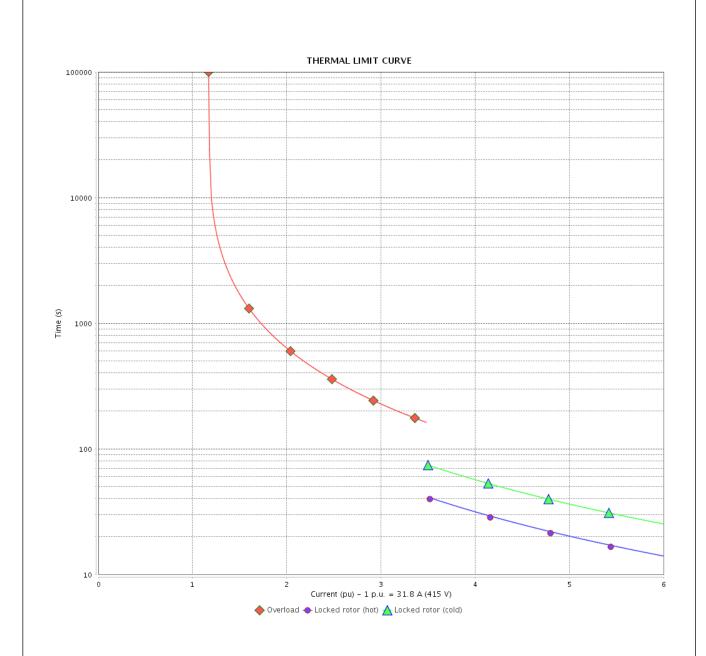


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		nasc		Catalog # :	02536ET3E2	84TSC-W22
Performance		15 V 50 Hz 2P IE2	T			
Rated current LRC	: 3 ² : 6.	1.8 A 0	Moment o	f inertia (J)	: 2.69 sq.ft.lb : Cont.(S1)	
Rated torque	: 44	4.7 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		90 % 40 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed		935 rpm	Design	2.5 1100	: B	
Heating constant						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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Rev.		Changes Summary	Performed	Checked	Date
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Date	14/04/2022	1		29 / 36	

Three Phase Induction Motor - Squirrel Cage



Customer :

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14/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

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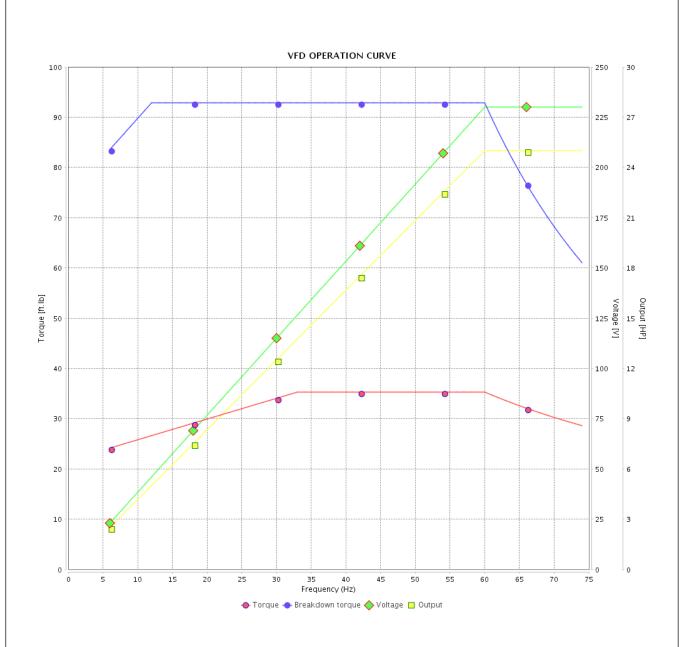
Product code: 12447101

Catalog #: 02536ET3E284TSC-W22

Page

30 / 36

Revision



Performance : 230/460 V 60 Hz 2P : 57.0/28.5 A Rated current Moment of inertia (J) : 2.69 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.3 : 37.1 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



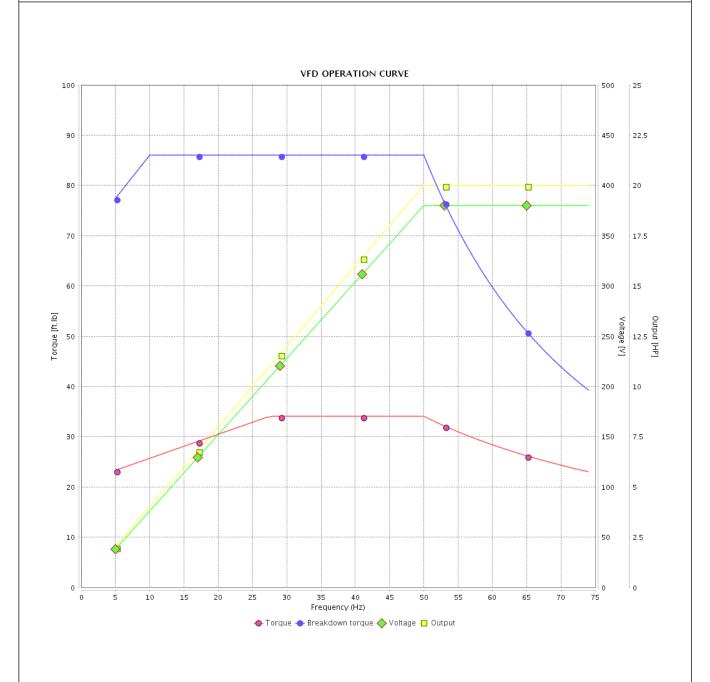
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02536ET3E284TSC-W22

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Performance	: 3	80 V 50 Hz 2P IE3				
Rated current	: 2	7.6 A	Moment o	f inertia (J)	: 2.69 sq.ft.lb	
LRC	: 6	.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	5.8 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	40 %	Temperati	ıre rise	: 80 K	
Rated speed	: 2	930 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
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Data	14/04/2022	1			31 / 36	

Three Phase Induction Motor - Squirrel Cage



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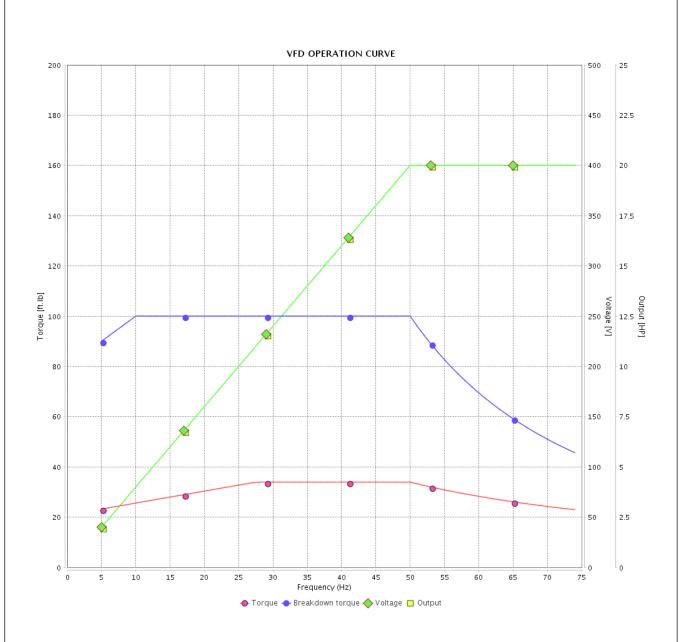
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Phase

Product code: 12447101

Catalog #: 02536ET3E284TSC-W22

32 / 36



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 26.5 A : 6.9 : 35.7 ft.lb : 229 % : 280 % : 2940 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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Performed by Checked by				Page	Revision

14/04/2022

Date

Three Phase Induction Motor - Squirrel Cage

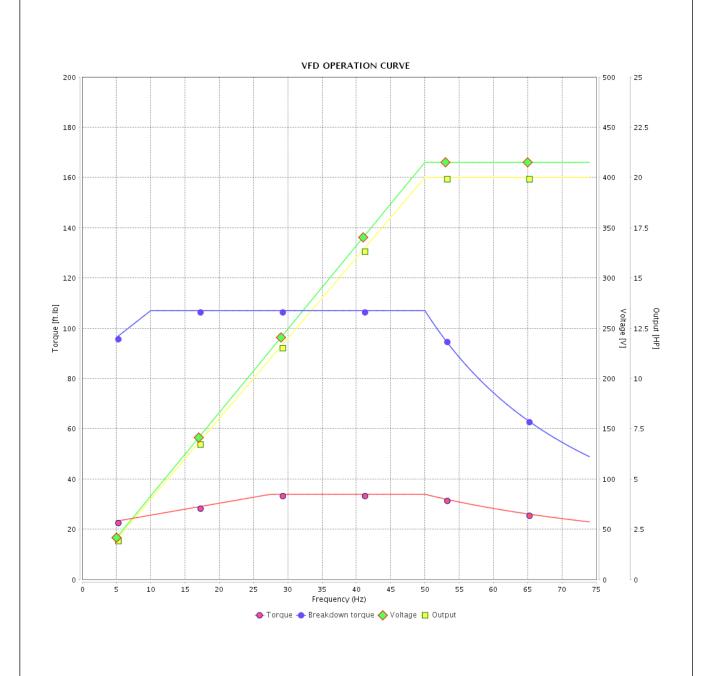


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Product line : NEMA Premium Efficiency Three- Product code : 12447101

Phase

Catalog #: 02536ET3E284TSC-W22



Performance	: 4	: 415 V 50 Hz 2P IE3				
Rated current : 25		5.8 A	Moment of	Moment of inertia (J)		
LRC : 7.4		.4	Duty cycle	Duty cycle		
Rated torque : 3		5.7 ft.lb	Insulation	Insulation class		
Locked rotor torque :		40 %	Service fa	Service factor		
Breakdown torque		00 %	Temperati	Temperature rise		
Rated speed	: 2	945 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
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Performed by						
Checked by					Page	Revision
Date	14/04/2022	1			33 / 36	

Three Phase Induction Motor - Squirrel Cage



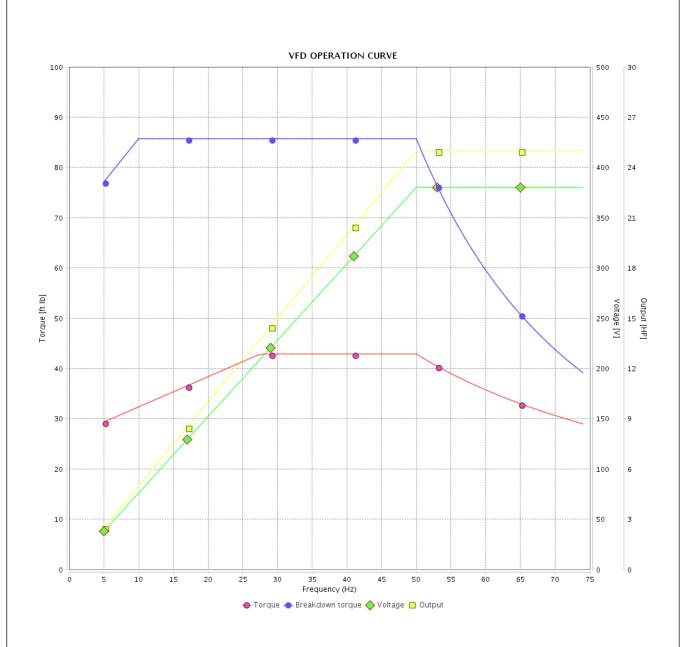
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Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 12447101

Catalog #: 02536ET3E284TSC-W22



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) Insulation class : 45.1 ft.lb : F Rated torque Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 2910 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



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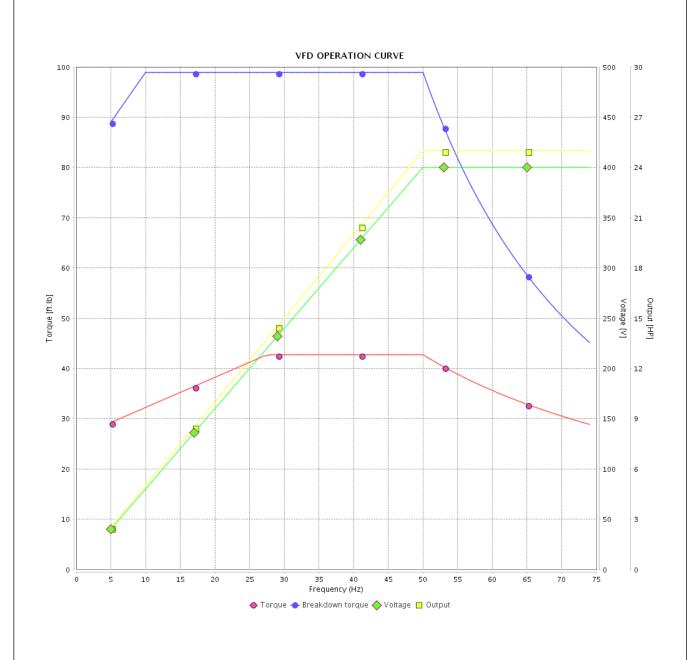
Product line : NEMA Premium Efficiency Three- Product code :

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Catalog #: 02536ET3E284TSC-W22

35 / 36

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Performance	: 400 V 50 Hz 2P IE1	: 400 V 50 Hz 2P IE1					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.3 A : 5.5 : 45.0 ft.lb : 180 % : 220 % : 2920 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			
Rev.	Changes Summary		Performed	Checked	Date		
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Three Phase Induction Motor - Squirrel Cage



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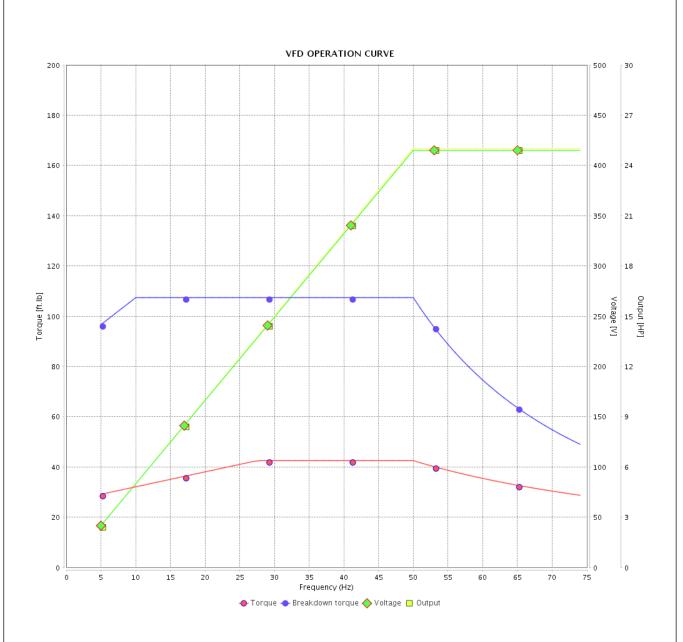
Product code: 12447101

Catalog #: 02536ET3E284TSC-W22

Page

36 / 36

Revision



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 Service fa Temperate Design	class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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