DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447102

Phase

Catalog #: 02536ET3E284TS-W22

Frame : 284/6TS 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 : 397 lb

7 11111444		. 1000 111.4.	O	, , , , , , , ,				
Protection degree		: IP55		Momer	nt of inertia (J)) : 2	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	/ 1]	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]]	37.1	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 (%)	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
I UWEI FACIUI	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

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

Bearing type : 6311 C3 6211 C3 | Max. traction : 269 lb Sealing : V'Ring V'Ring 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.

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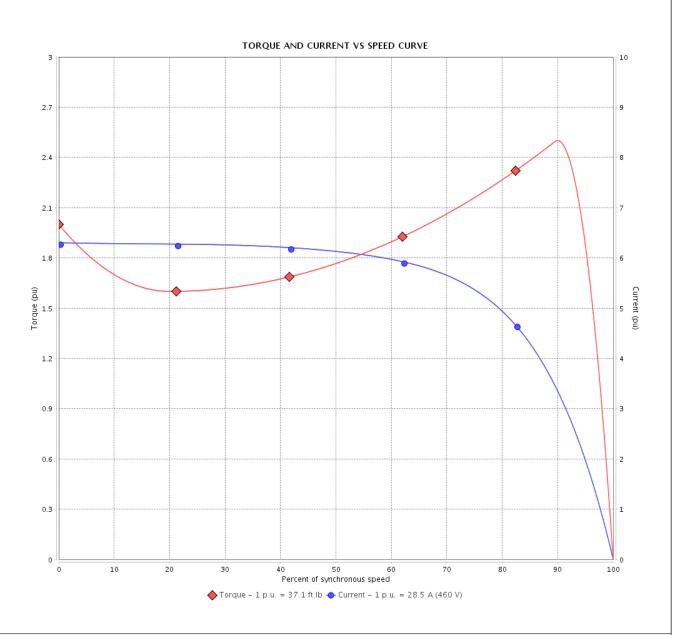


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447102

Phase

Catalog #: 02536ET3E284TS-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)

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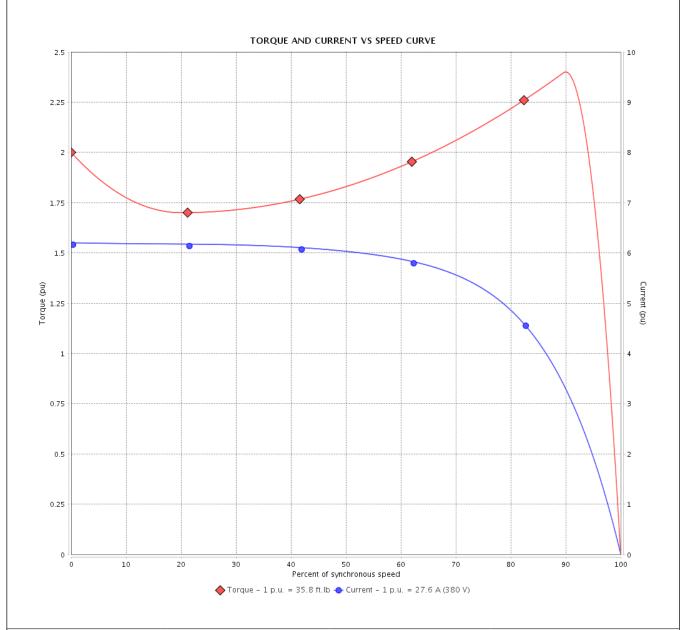


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447102

Phase

Catalog #: 02536ET3E284TS-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
Looked reter time	: 25a (aald) 14a (bat)	I	

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

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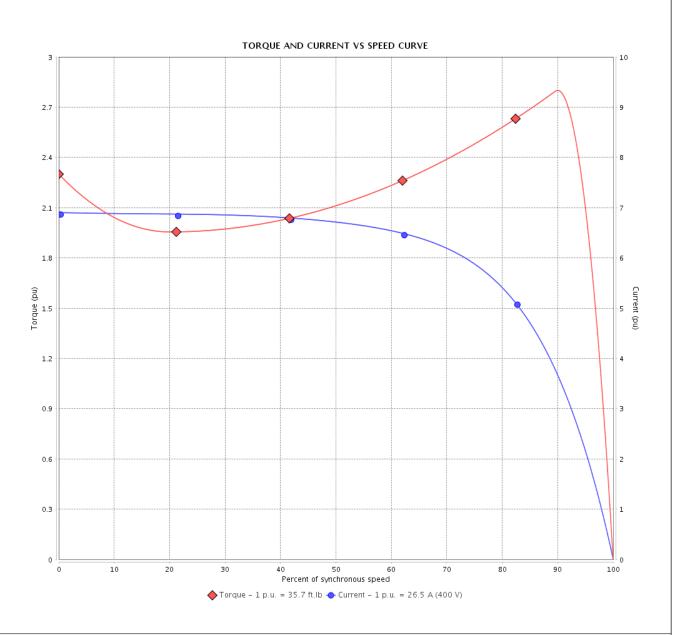
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12447102

Catalog #: 02536ET3E284TS-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 26.5 A Moment of inertia (J) : 2.69 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : 35.7 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2940 rpm Design : B

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

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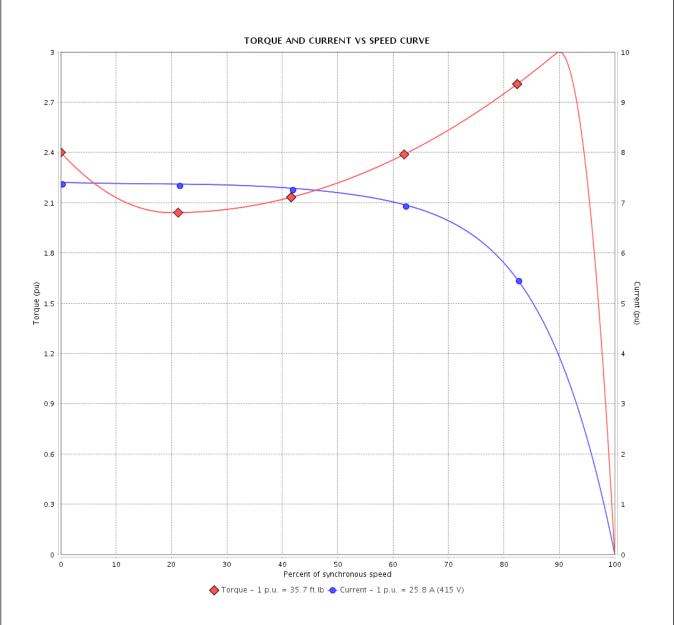
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447102

Catalog #: 02536ET3E284TS-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)		

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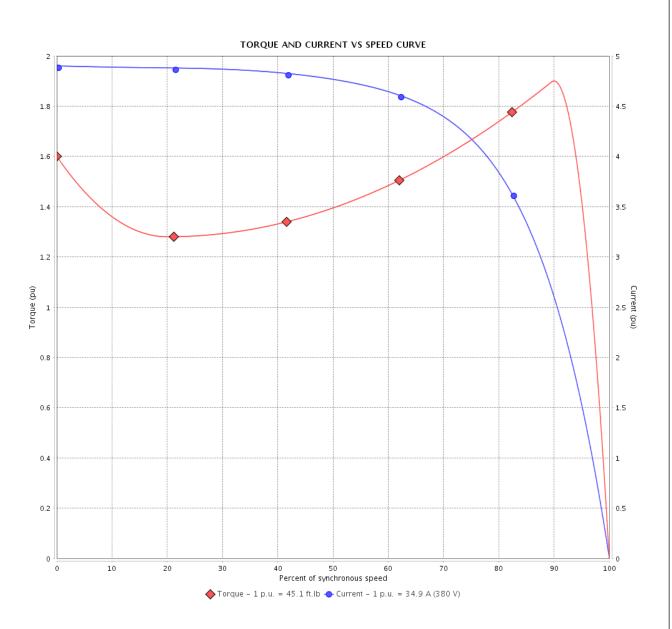


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 02536ET3E284TS-W22

12447102



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)			

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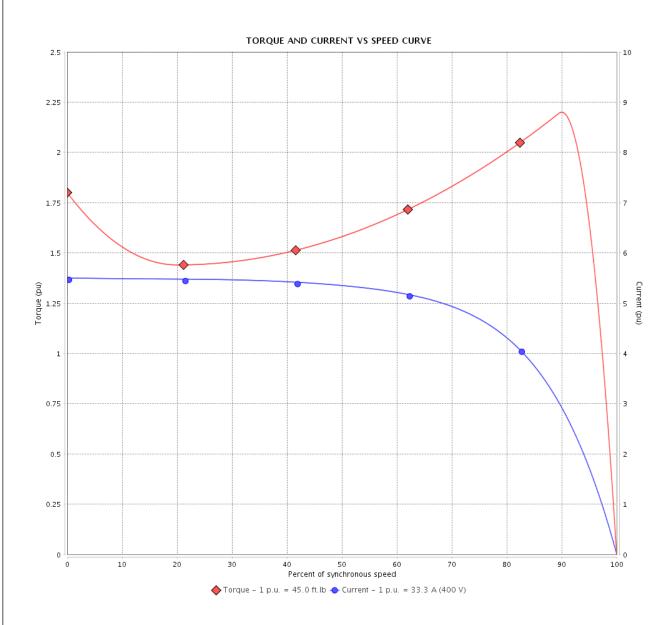


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12447102

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Catalog #: 02536ET3E284TS-W22



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)
Rated torque	: 45.0 ft.lb	Insulation class	: 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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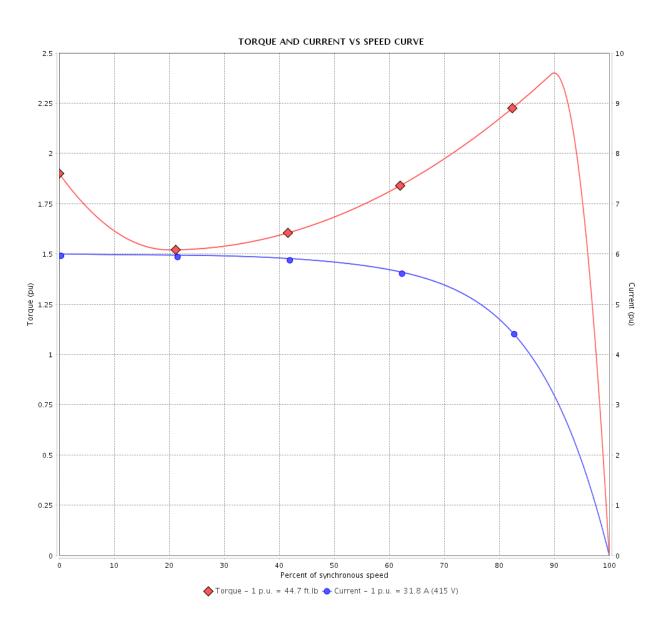
Customer :

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Phase

Product code: 12447102

Catalog #: 02536ET3E284TS-W22



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

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

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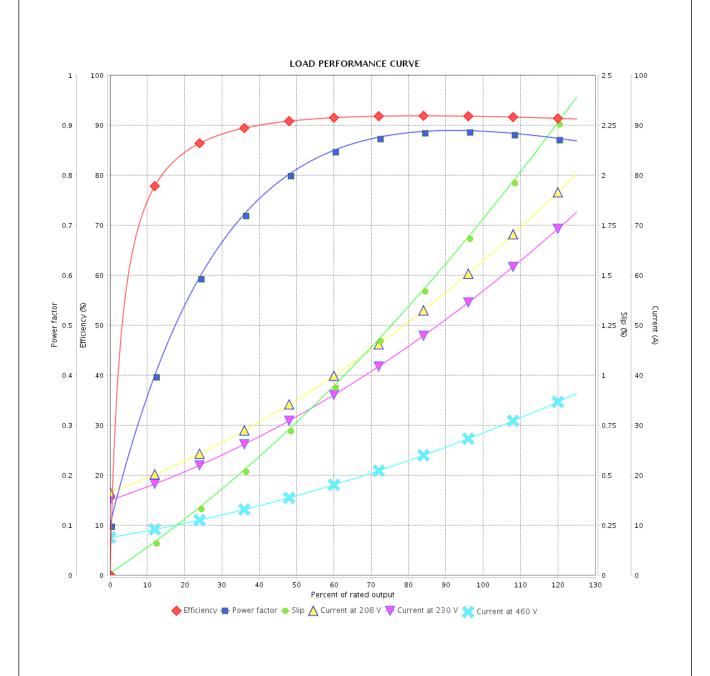


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447102

Phase

Catalog #: 02536ET3E284TS-W22



Performance	: 2	230/460 V 60 Hz 2P				
Rated current	d current : 57.0/28.5 A Mor		Moment o	f inertia (J)	: 2.69 sq.ft.lb	
LRC	: 6	3.3	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	37.1 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	200 %	Service fa	ctor	: 1.25	
Breakdown torqu	e : 2	250 %	Temperati	Temperature rise		
Rated speed	: 3	3535 rpm	Design		: B	
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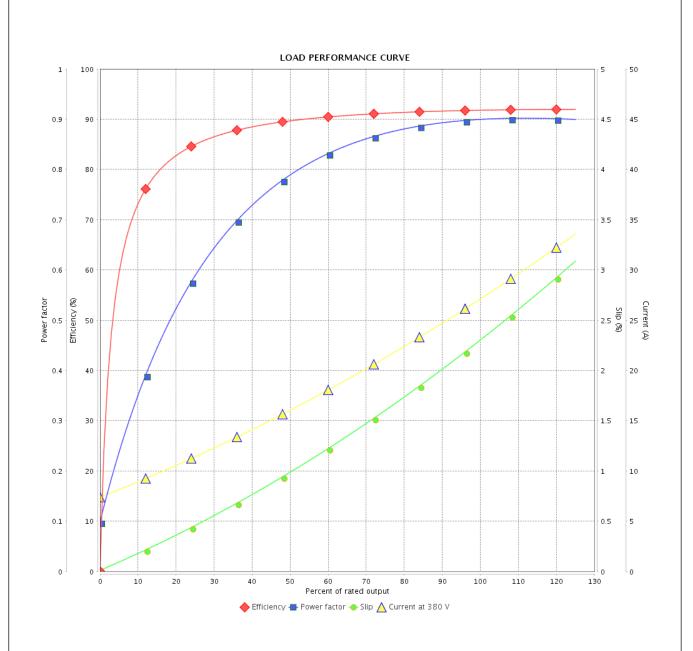
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Performance	: 380 V 50 Hz 2	P IE3		
Rated current : 27.6 A LRC : 6.2 Rated torque : 35.8 ft.lb Locked rotor torque : 200 % Breakdown torque : 240 % Rated speed : 2930 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



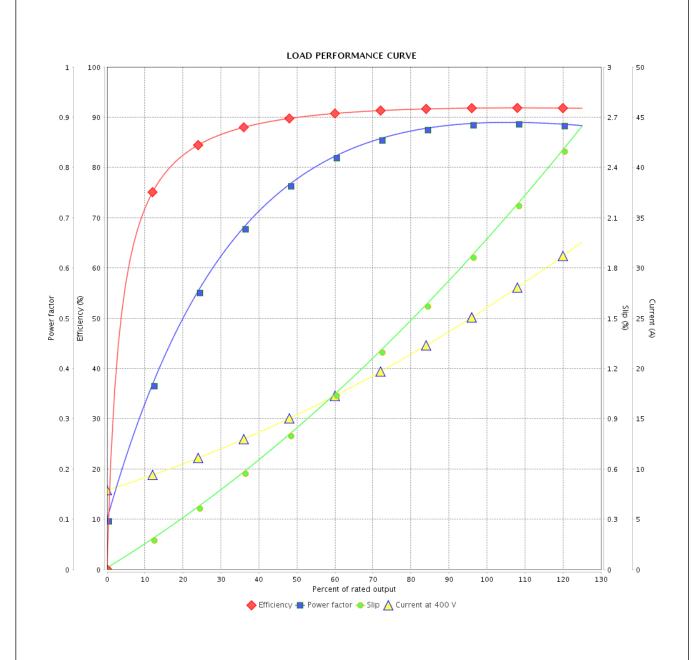
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447102

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Performance	: 400 V 50 Hz 2P IE3				
Rated current	: 26.5 A	Moment of inertia (J)		: 2.69 sq.ft.lb	
LRC	: 6.9	Duty cycle		: Cont.(S1)	
Rated torque	: 35.7 ft.lb	Insulation c		: F	
Locked rotor torque	: 229 %	Service factor		: 1.00	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 2940 rpm	Design		: B	
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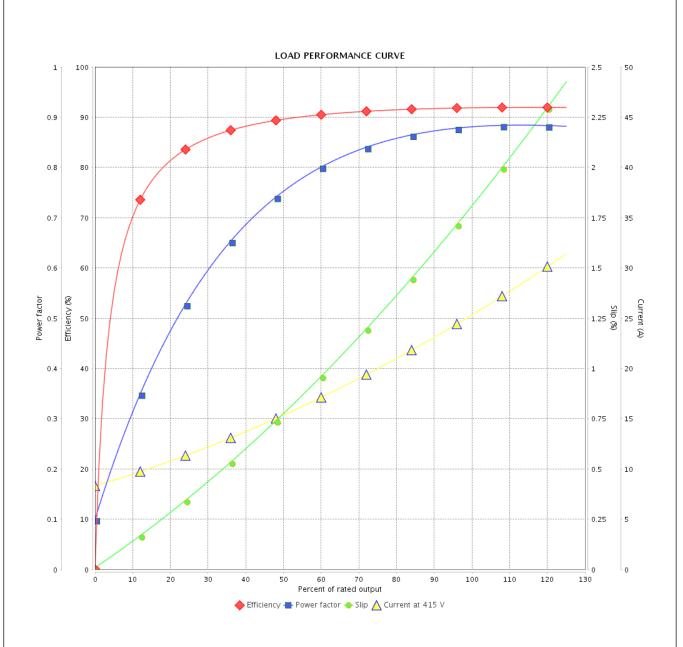
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Performance	: 4	415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 3 jue : 2 ie : 3	25.8 A 7.4 35.7 ft.lb 240 % 300 % 2945 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



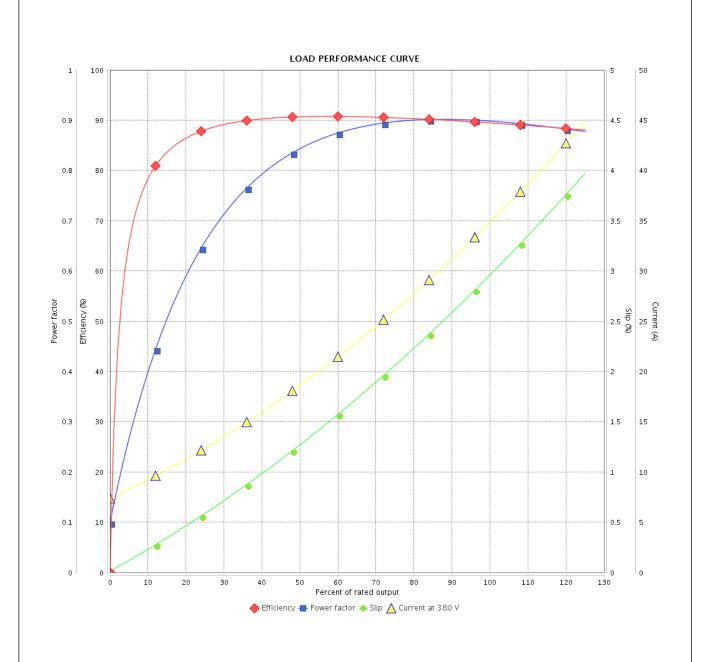
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Product line : NEMA Premium Efficiency Three- Product code : 12447102

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Performance	: 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.9 A Moment of inertia (J) : 2.69 : 4.9 Duty cycle : Cont : 45.1 ft.lb Insulation class : F : 160 % Service factor : 1.00 : 190 % Temperature rise : 105 lb : 2910 rpm Design : B		Insulation class Service factor Temperature rise		
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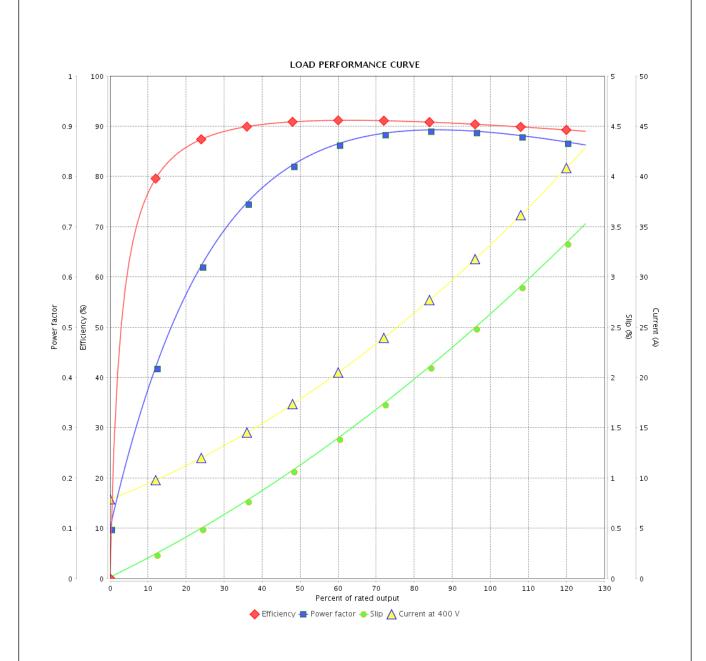
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Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC	: 33.3 A : 5.5	Moment of inertia (J) Duty cycle		: 2.69 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque	: 45.0 ft.lb : 180 % : 220 %	Insulation class Service factor Temperature rise Design		: F : 1.00 : 105 K	
Rated speed	: 2920 rpm			: B	
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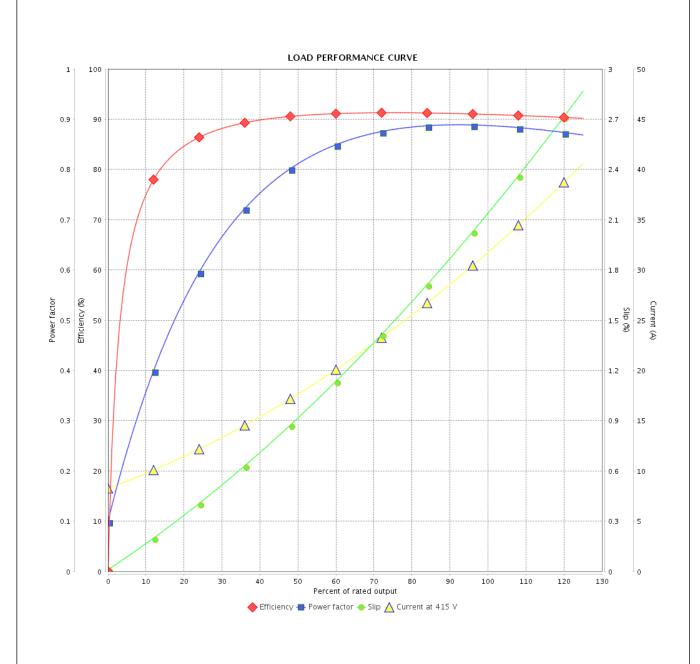
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Product line : NEMA Premium Efficiency Three- Product code : 12447102

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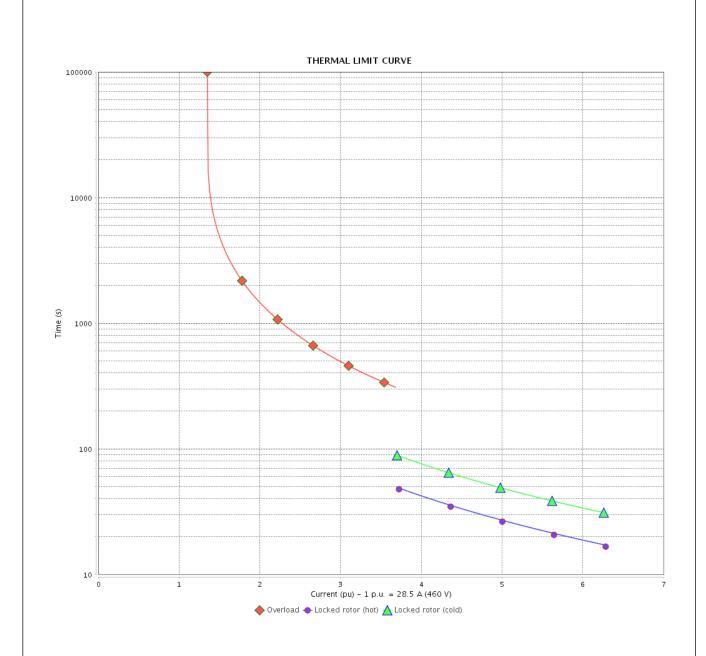


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447102 02536ET3E28	34TS-W22
Performance		: 230/460 V 60 Hz 2P				
Rated current		: 57.0/28.5 A	Moment o	of inertia (J)	: 2.69 sq.ft.lb	
LRC Rated torque		: 6.3 : 37.1 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 200 %	Service fa		: 1.25	
Breakdown torqu Rated speed		: 250 % : 3535 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant	t			,		
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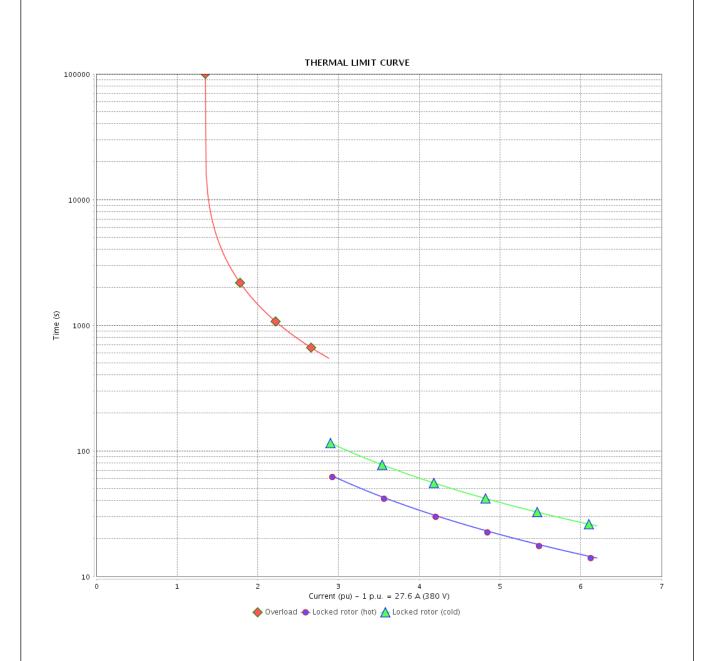


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	12447102 02536ET3E28	34TS-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 27 : 6. : 35 ue : 20 e : 24 : 29	30 V 50 Hz 2P IE3 7.6 A 2 5.8 ft.lb 00 % 40 % 930 rpm Changes Summary	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	Date
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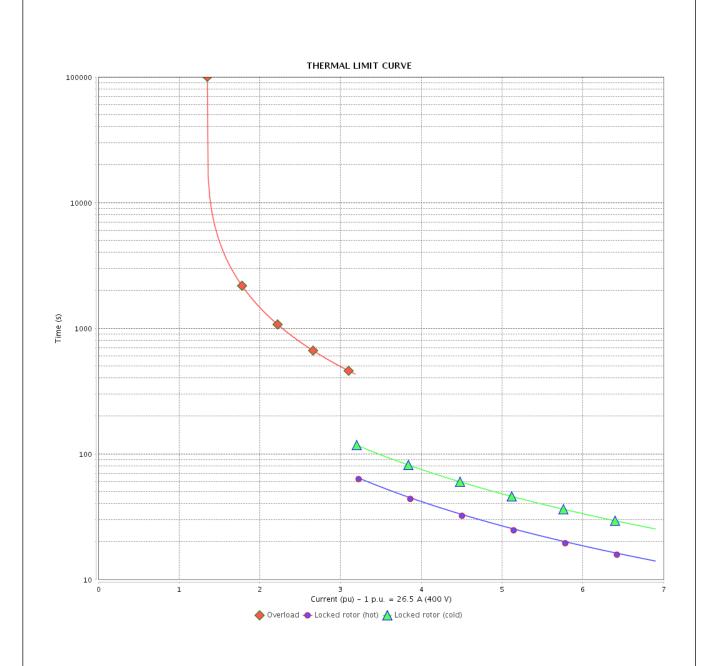


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447102 02536ET3E28	34TS-W22
Performance Rated current		: 400 V 50 Hz 2P IE3 : 26.5 A	Moment	of inertia (J)	: 2.69 sq.ft.lb	
LRC		: 6.9	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor torc		: 35.7 ft.lb : 229 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie :	: 280 %	Temperat		: 80 K	
Rated speed		: 2940 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summers		Performed	Checked	Doto
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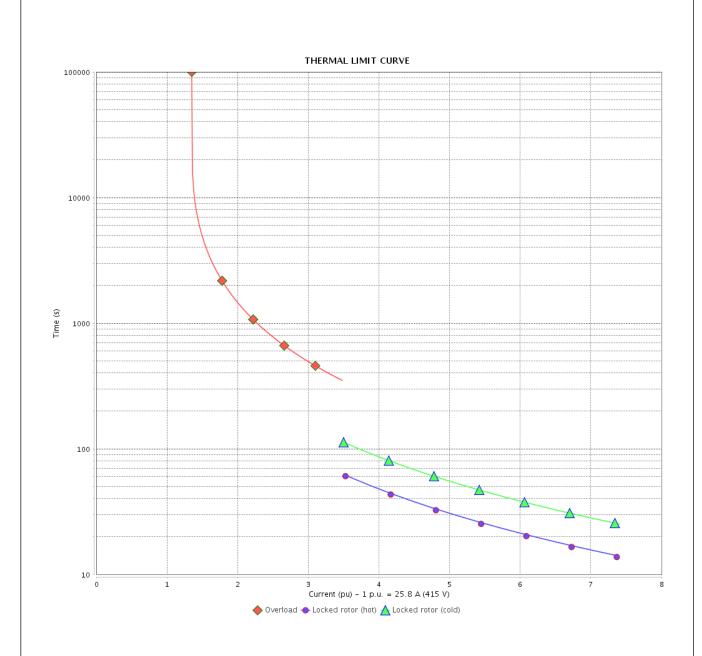


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12447102 02536ET3E2	84TS-W22
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Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: : que :	415 V 50 Hz 2P IE3 25.8 A 7.4 35.7 ft.lb 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	
Heating constan	t		-			
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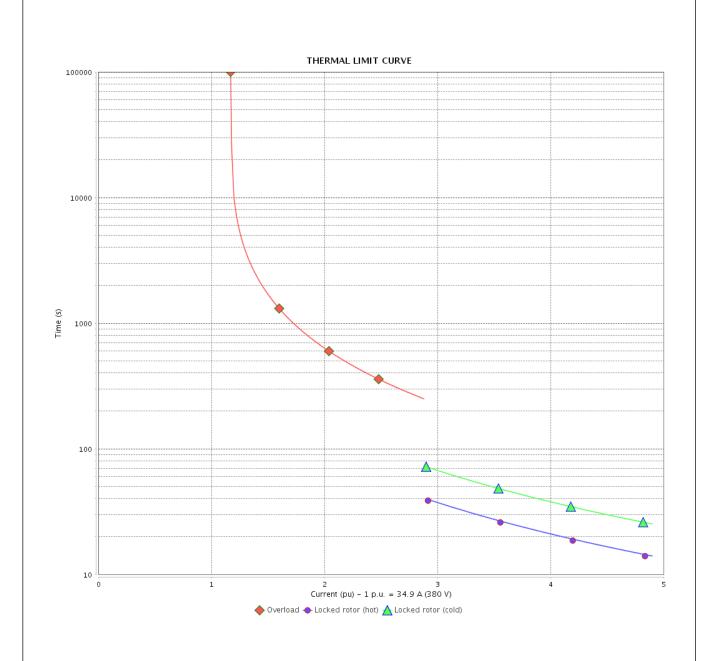


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Product line		EMA Premium Efficiency lase	Γhree- I	Product code :	12447102	
	1 11	a3C	(Catalog # :	02536ET3E28	34TS-W22
Performance		0 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	e : 16 : 19	.1 ft.lb 0 %	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
	. 20	- · F · · ·				
Heating constant Cooling constant						
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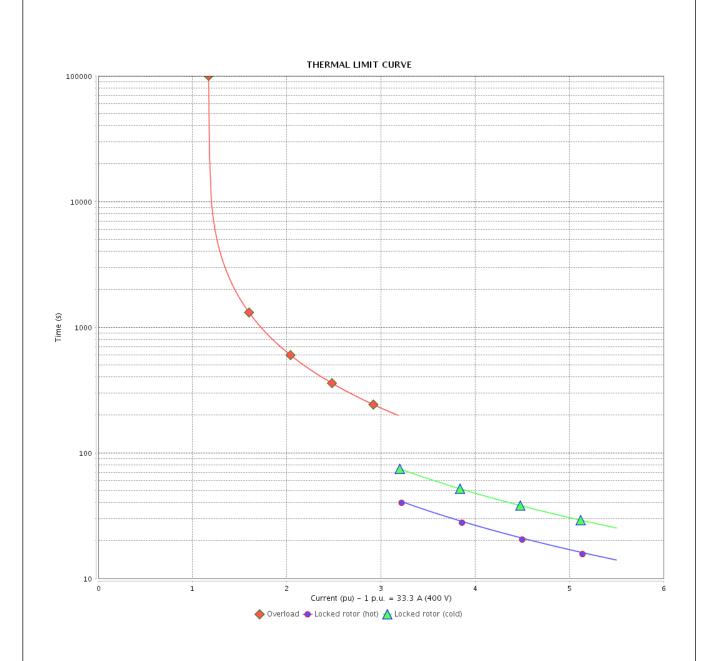


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12447102 02536ET3E28	4TS-W22
Performance	:	: 400 V 50 Hz 2P IE1				
Rated current LRC	:	: 33.3 A : 5.5	Duty cycle		: 2.69 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torc		: 45.0 ft.lb : 180 %	Insulation Service fa		: F : 1.00	
Breakdown torqu Rated speed	ie :	: 220 % : 2920 rpm	Temperati Design		: 105 K : B	
Heating constant	t	·				
Cooling constant	t	01 0				
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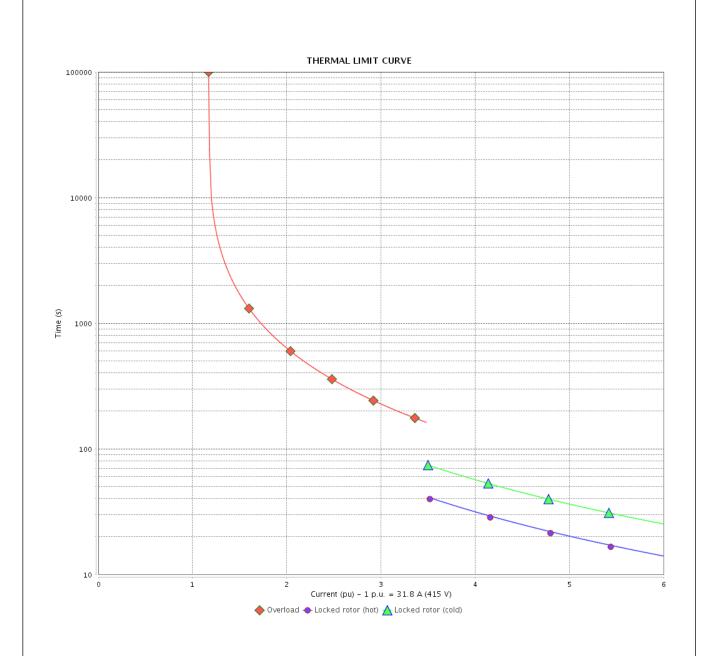


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12447102	
	PI	hase	(Catalog # :	02536ET3E28	34TS-W22
Performance		15 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 6. : 44 ue : 19	1.8 A 0 4.7 ft.lb 90 % 40 %	Moment of Duty cycle Insulation Service far Temperatu	class ctor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Rated speed		935 rpm	Design		: B	
Heating constant						
Cooling constant		06		Dest	Ob. 1	D :
Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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Three Phase Induction Motor - Squirrel Cage



Customer :

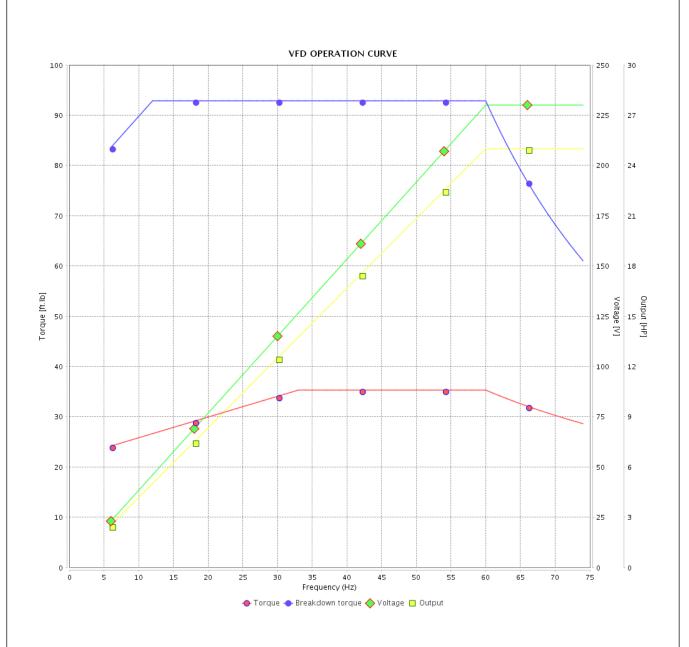
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12447102

Catalog #: 02536ET3E284TS-W22

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Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.0/28.5 A : 6.3 : 37.1 ft.lb : 200 % : 250 % : 3535 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 2.69 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer

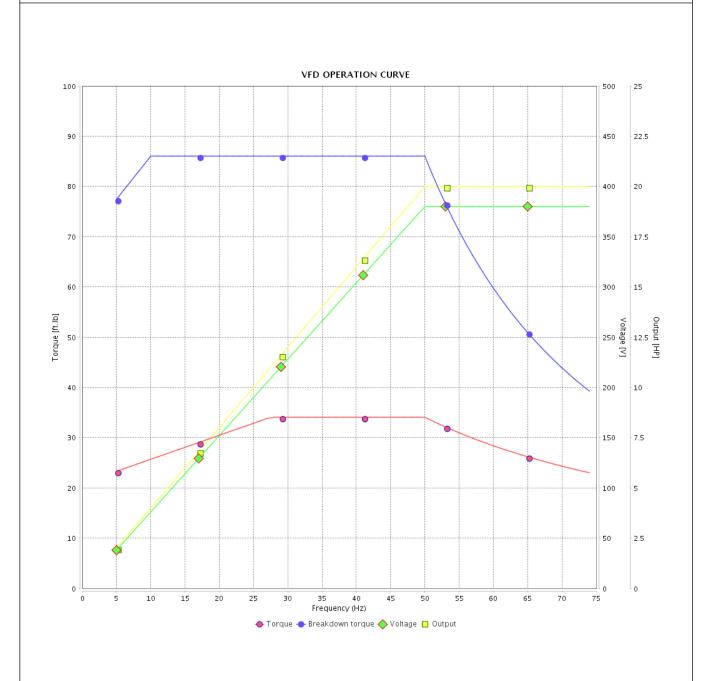
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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12447102



Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.6 A : 6.2 : 35.8 ft.lb : 200 % : 240 % : 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 : 80 K : B	
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Date

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Product line : NEMA Premium Efficiency Three- Product co

Phase

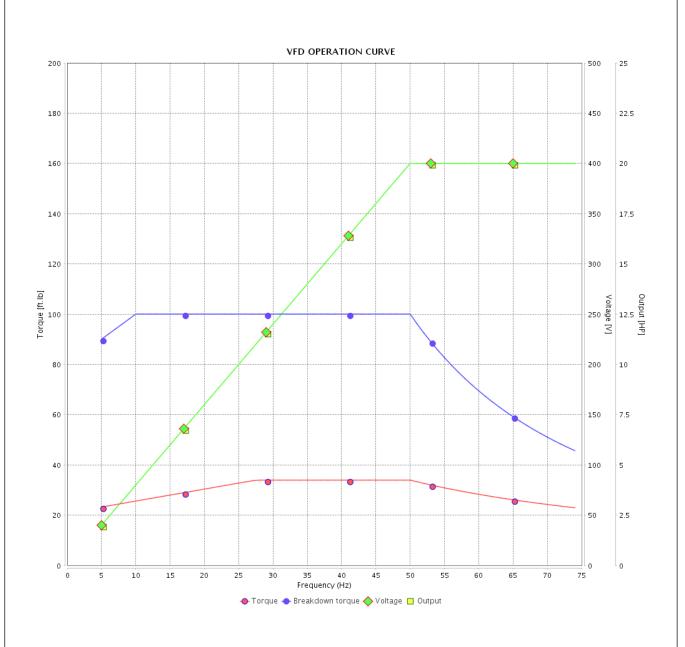
Product code: 12447102

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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	
Rev.	Changes Summary	Changes Summary		Checked	Date
Performed by					

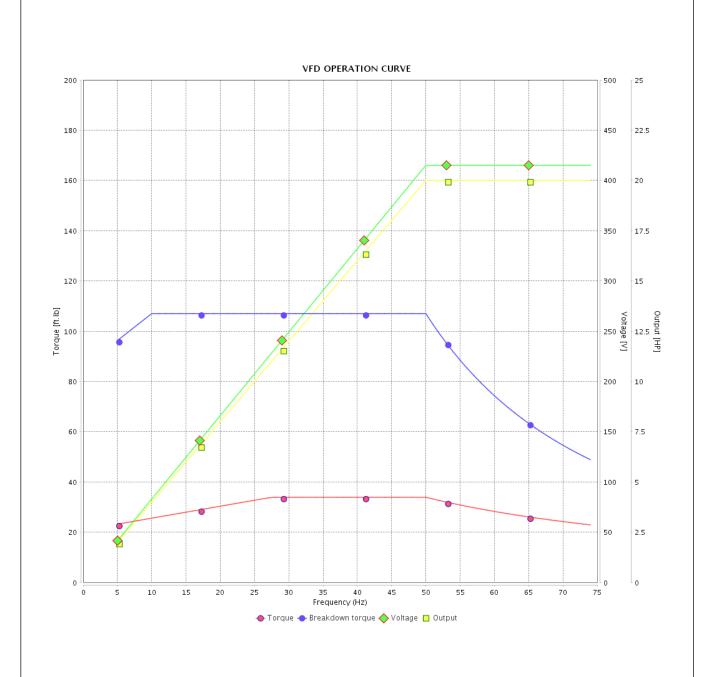
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12447102

Catalog #: 02536ET3E284TS-W22



Performance	: 4	: 415 V 50 Hz 2P IE3				
Rated current		5.8 A	Moment o	Moment of inertia (J)		
Rated torque		7.4 Duty cycle 35.7 ft.lb Insulation		;	: Cont.(S1)	
				class	: F	
		240 % Service fa	ctor	: 1.00		
Breakdown torque	: : 3	: 300 % Temperature rise : 2945 rpm Design		ıre rise	: 80 K	
Rated speed	: 2			: B		
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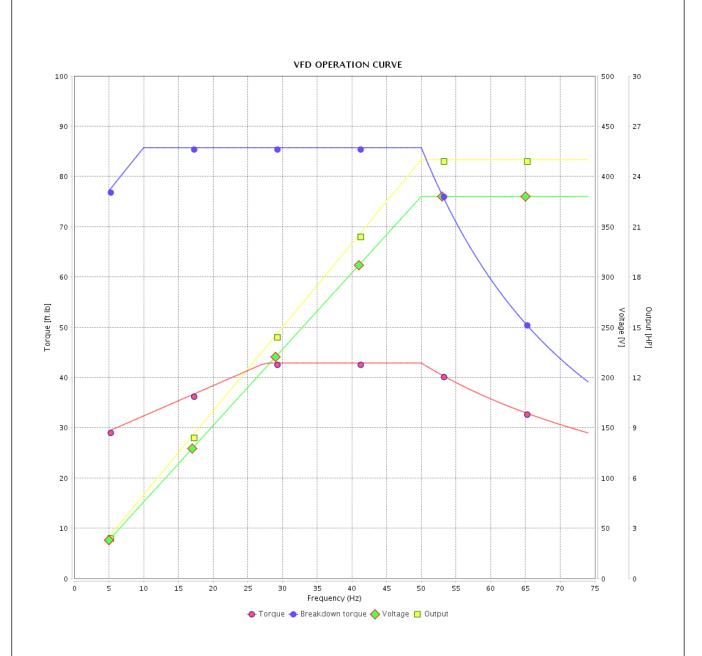
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	formance : 380 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.9 A : 4.9 : 45.1 ft.lb : 160 % : 190 % : 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	
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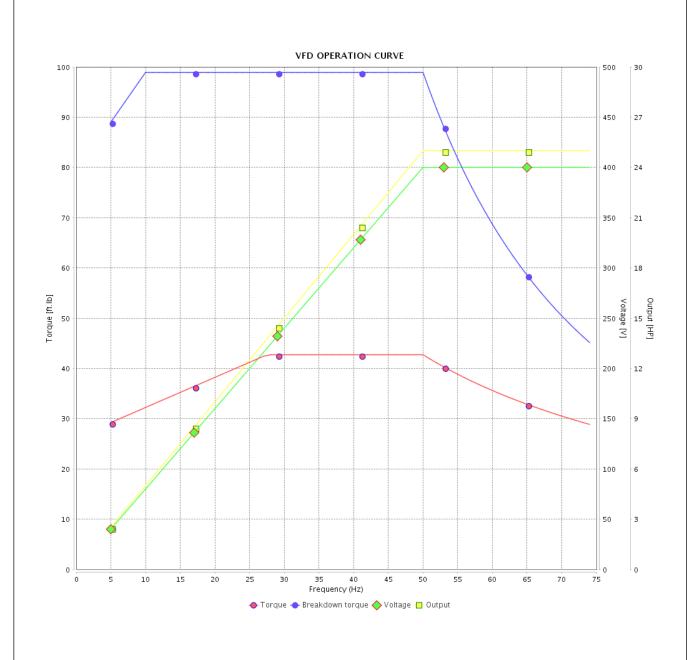
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447102

Phase

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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 inertia (J) 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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Checked by				Page	Revision

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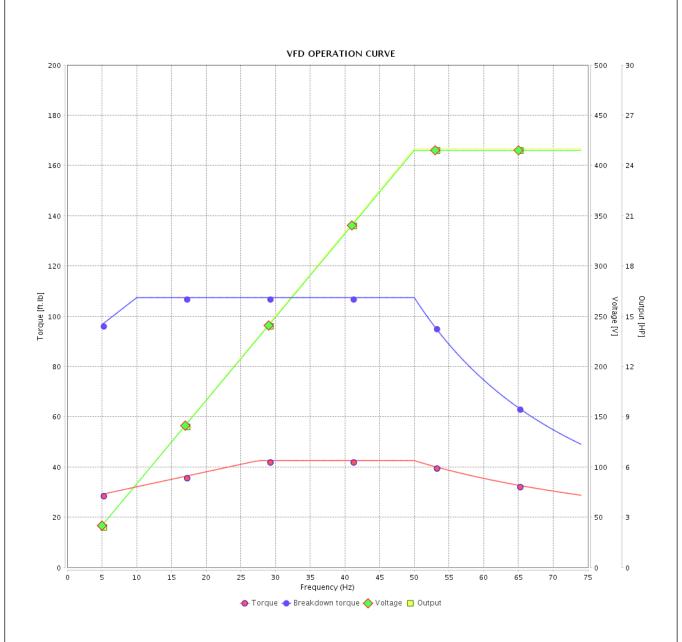
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12447102

Catalog #: 02536ET3E284TS-W22



Performance	ormance : 415 V 50 Hz 2P IE2					
Rated current : 31.8 A		Moment of	Moment of inertia (J)			
LRC	: 6.	.0	Duty cycle		: Cont.(S1)	
Rated torque	: 44	4.7 ft.lb	Insulation class		: F	
•		90 %	Service fa	Service factor		
Breakdown torqu	ue : 24	40 %	Temperati	Temperature rise		
Rated speed	: 29	935 rpm	Design	Design		
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