DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12821975

Phase

2.60/1.30

3510

Catalog #: 00336ET3ER182TC-W22

Frame : 182TC Cooling method : IC411 - TEFC

Insulation class : F Mounting : W-6

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 : 86.2 lb

Altitude : 1000 m.a.s.l. Approx. weight³ : 86.2 lb
Protection degree : IP55 Moment of inertia (J) : 0.1889 sq.ft.lb

1.25

2930

Design : B

No load current [A]

Rated speed [RPM]

Output [HP] 3 2 2 2 3 3 Poles 2 2 2 2 2 2 2 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 230/460 380 380 400 415 400 415 Rated current [A] 7.26/3.63 4.34 4.17 4.07 3.09 3.00 2.96 L. R. Amperes [A] 62.4/31.2 29.7 29.5 32.1 32.9 31.7 33.0 LRC [A] 8.6x(Code K) 9.6x(Code L) 10.7x(Code 11.1x(Code | 6.8x(Code H) | 7.6x(Code J) | 8.1x(Code J) M) N)

1.35

2935

1.40

2940

0.75

1.25

2880

0.87

0.90

1.35

2890

0.86

0.89

1.40

2900

0.84

0.88

Slip [%]		2.50	2.33	2.17	2.00	4.00	3.67	3.33
Rated torque [ft.lb]		4.49	3.58	3.58	3.57	5.47	5.45	5.43
Locked rotor torqu	e [%]	250	300	340	370	210	240	260
Breakdown torque	[%]	380	430	480	520	290	320	350
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K					
Locked rotor time		73s (cold)	54s (cold)	54s (cold)				
		41s (hot)	30s (hot)	30s (hot)				
Noise level ²		66.0 dB(A)	62.0 dB(A)	62.0 dB(A)				
	25%	82.0	79.5	79.1	77.8	84.4	84.4	84.4
Efficiency (%)	50%	82.5	81.0	80.6	79.7	84.0	84.0	84.0
Efficiency (70)	75%	86.5	84.5	84.5	84.1	86.5	86.5	86.5
	100%	86.5	85.8	85.8	85.9	85.5	85.5	85.5
	25%	0.50	0.44	0.41	0.39	0.56	0.52	0.50
Power Factor	50%	0.75	0.68	0.65	0.63	0.80	5.45 5 240 2 320 3 1.25 1 80 K 8 d) 54s (cold) 54s (b) 30s (hot) 30s A) 62.0 dB(A) 62.0 84.4 8 84.0 8 86.5 8 85.5 8 0.52 0 0.77 0	0.75
FUWEI FACIOI	750/	0.04	0.70	0.77	0.75	0.07	0.06	0.04

0.77

 100%
 0.88
 0.86
 0.84
 0.82

 Drive end
 Non drive end
 Foundation loads

0.84

Bearing type : 6207 ZZ 6206 ZZ Max. traction : 78 lb Sealing : V'Ring V'Ring Max. compression : 164 lb

0.79

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 8.01A SF 1.15 SFA 9.21A

75%

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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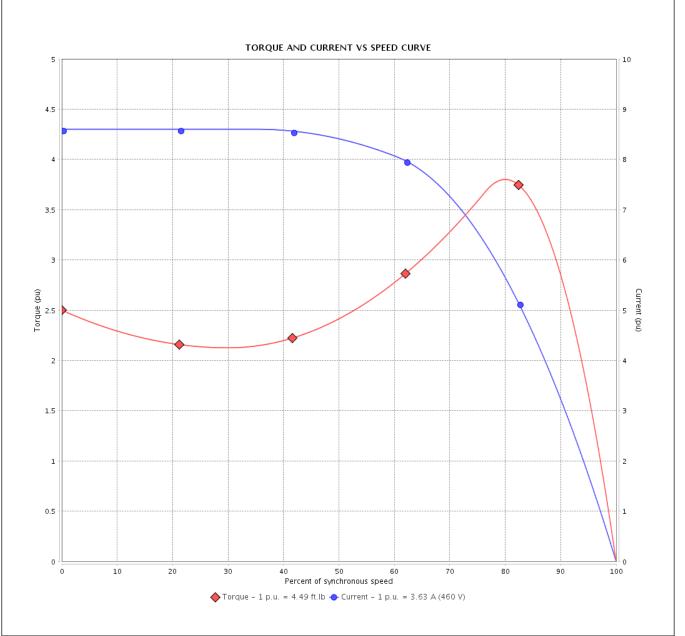
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00336ET3ER182TC-W22

12821975



Performance : 230/460 V 60 Hz 2P Rated current : 7.26/3.63 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 4.49 ft.lb : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B Locked rotor time : 73s (cold) 41s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12821975 Catalog #: 00336ET3ER182TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 3.58 ft.lb ◆ Current - 1 p.u. = 3.09 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 3.09 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 9.6 Duty cycle : Cont.(S1) : 3.58 ft.lb Insulation class : F Rated torque : 300 % Locked rotor torque Service factor : 1.25 Breakdown torque : 430 % Temperature rise : 80 K Rated speed : 2930 rpm Design : B Locked rotor time : 54s (cold) 30s (hot) Date Rev. Performed Checked **Changes Summary**

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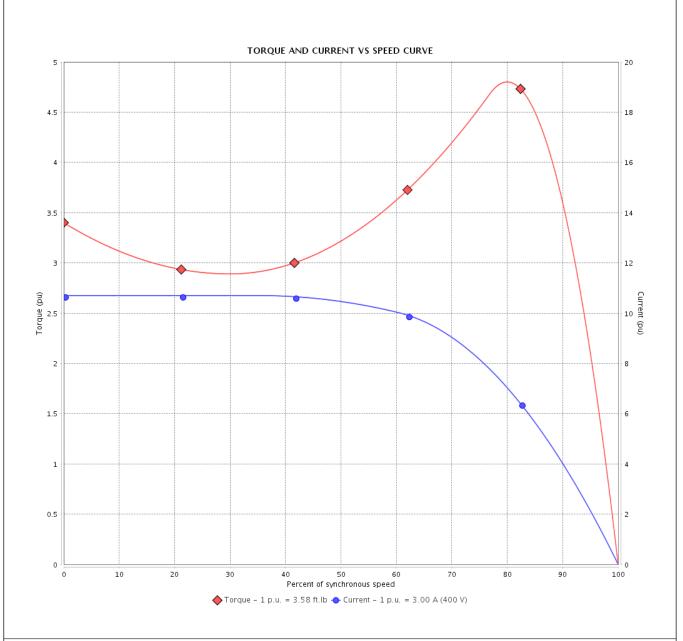
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12821975

Catalog #: 00336ET3ER182TC-W22



Performance	: 400 V 50 Hz 2P IE3			
Rated current	: 3.00 A	Moment of inertia (J)	: 0.1889 sq.ft.lb	
LRC	: 10.7	Duty cycle	: Cont.(S1)	
Rated torque	: 3.58 ft.lb	Insulation class	: F	
Locked rotor torque	: 340 %	Service factor	: 1.25	
Breakdown torque	: 480 %	Temperature rise	: 80 K	
Rated speed	: 2935 rpm	Design	: B	
Locked rotor time	: 54s (cold) 30s (hot)	I		

		3 13 (33.4) 333 (1.31)			
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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12821975 Catalog #: 00336ET3ER182TC-W22 TORQUE AND CURRENT VS SPEED CURVE 18 16 12 Torque (pu) 40 50 60 Percent of synchronous speed ♦ Torque – 1 p.u. = 3.57 ft.lb ♦ Current – 1 p.u. = 2.96 A (415 V)

Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 2.96 A	Moment of inertia (J)	: 0.1889 sq.ft.lb
LRC	: 11.1	Duty cycle	: Cont.(S1)
Rated torque	: 3.57 ft.lb	Insulation class	:F
Locked rotor torque	: 370 %	Service factor	: 1.25
Breakdown torque	: 520 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B
Locked rotor time	: 54s (cold) 30s (hot)		

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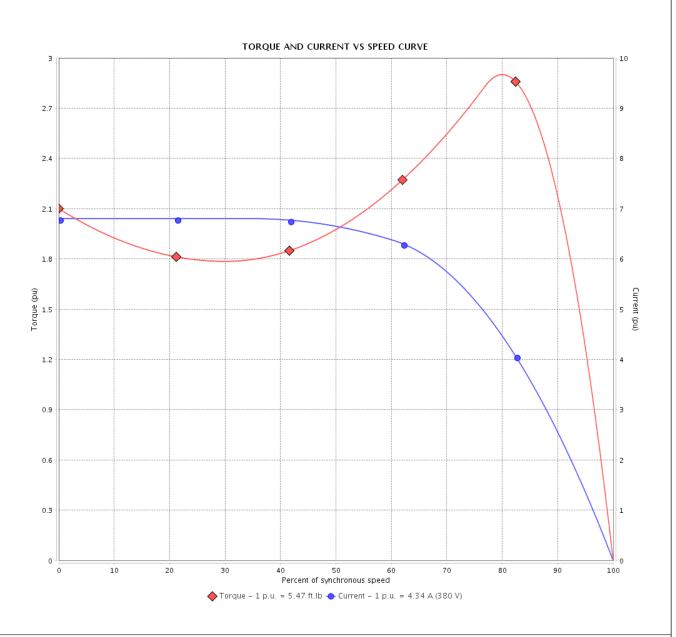
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Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 12821975

Catalog #: 00336ET3ER182TC-W22



Performance : 380 V 50 Hz 2P IE2 Rated current : 4.34 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 5.47 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 2880 rpm Design : B

Locked rotor time : 54s (cold) 30s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12821975 Catalog #: 00336ET3ER182TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 40 50 -Percent of synchronous speed

Performance	: 400 V 50 Hz 2P IE2		
Rated current	: 4.17 A	Moment of inertia (J)	: 0.1889 sq.ft.lb
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 5.45 ft.lb	Insulation class	:F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: B

♦ Torque – 1 p.u. = 5.45 ft.lb ♦ Current – 1 p.u. = 4.17 A (400 V)

Locked rotor time : 54s (cold) 30s (hot)

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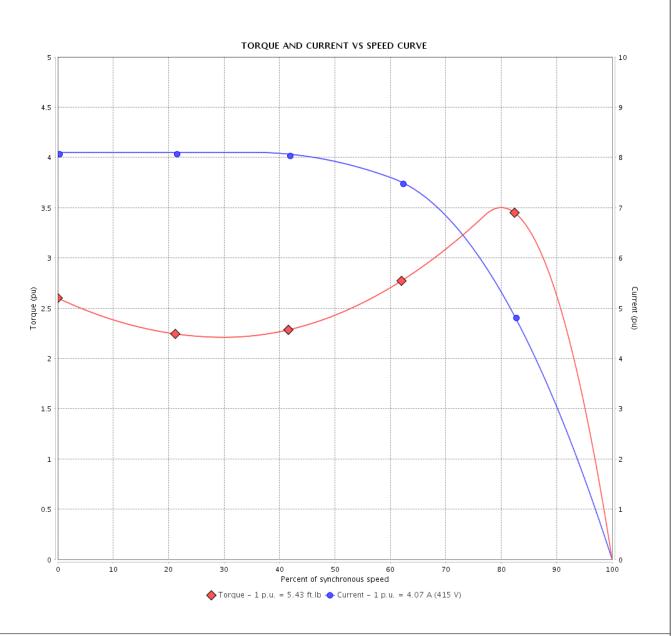
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12821975

Catalog #: 00336ET3ER182TC-W22



Performance	: 415 V 50 Hz 2P IE2			
Rated current	: 4.07 A	Moment of inertia (J)	: 0.1889 sq.ft.lb	
LRC	: 8.1	Duty cycle	: Cont.(S1)	
Rated torque	: 5.43 ft.lb	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.25	
Breakdown torque	: 350 %	Temperature rise	: 80 K	
Rated speed	: 2900 rpm	Design	: B	
Looked veter times	. F.4. (cold) 20. (bot)			

Locked rotor time : 54s (cold) 30s (hot)

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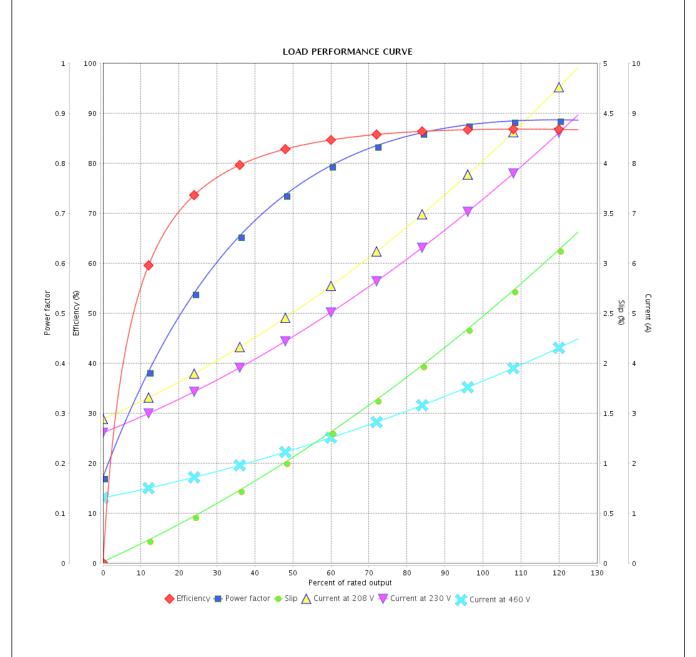


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Product line : NEMA Premium Efficiency Three- Product code : 12821975

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Catalog #: 00336ET3ER182TC-W22



Performance	: 2	30/460 V 60 Hz 2P				
Rated current LRC	: 7. : 8.	.26/3.63 A .6	Moment of Duty cycle	of inertia (J)	: 0.1889 sq.ft. : Cont.(S1)	lb
1		.49 ft.lb 50 %	Insulation Service fa		: F : 1.25	
Breakdown torque Rated speed	ie : 3	80 % 510 rpm	Temperati Design	ure rise	: 80 K : B	
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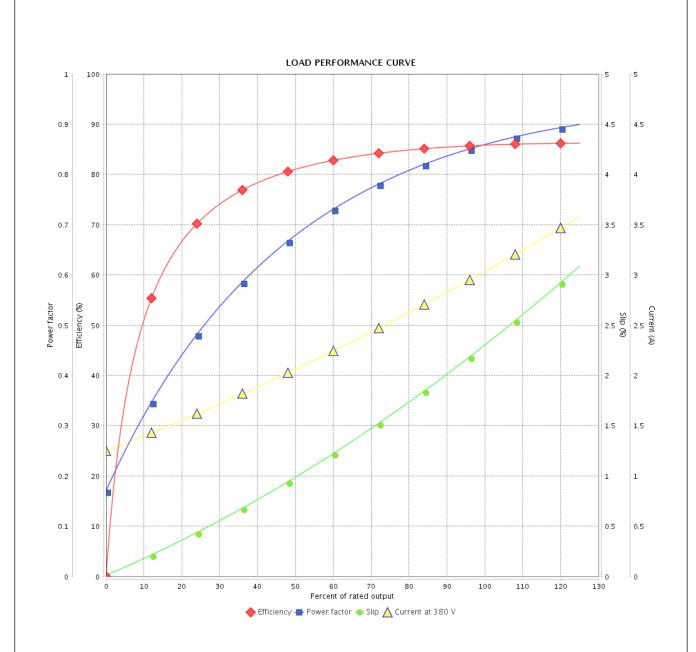
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12821975



Performance	: 38	80 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 9. : 3. que : 30 ie : 43	09 A 6 58 ft.lb 00 % 30 % 930 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 0.1889 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	lb
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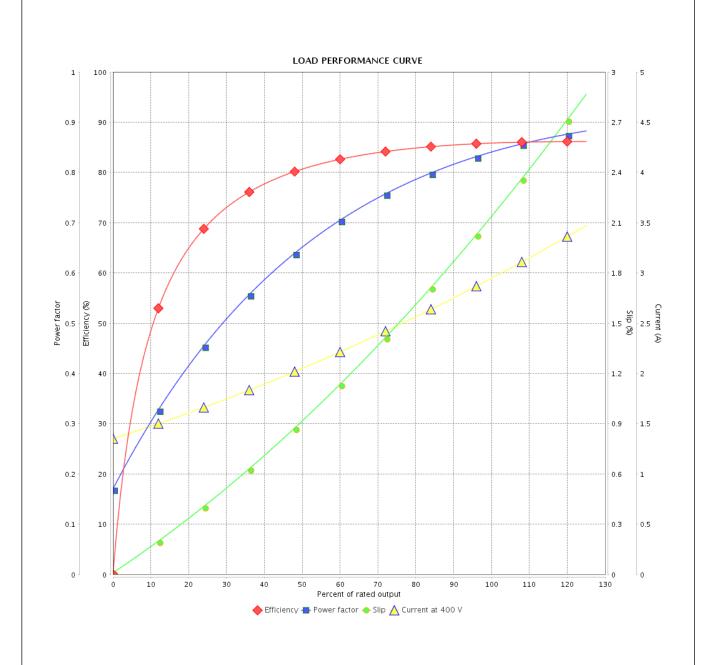
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Performance	: 400 V 50 Hz 2P IE3				
tated current : 3.00 A		Moment of inertia (J)		: 0.1889 sq.ft.lb	
LRC	: 10.7	Duty cycle		: Cont.(S1)	
Rated torque	: 3.58 ft.lb	Insulation cl	ass	: F	
Locked rotor torque	: 340 %	Service factor Temperature rise		: 1.25	
Breakdown torque	: 480 %			: 80 K	
Rated speed	: 2935 rpm	Design		: B	
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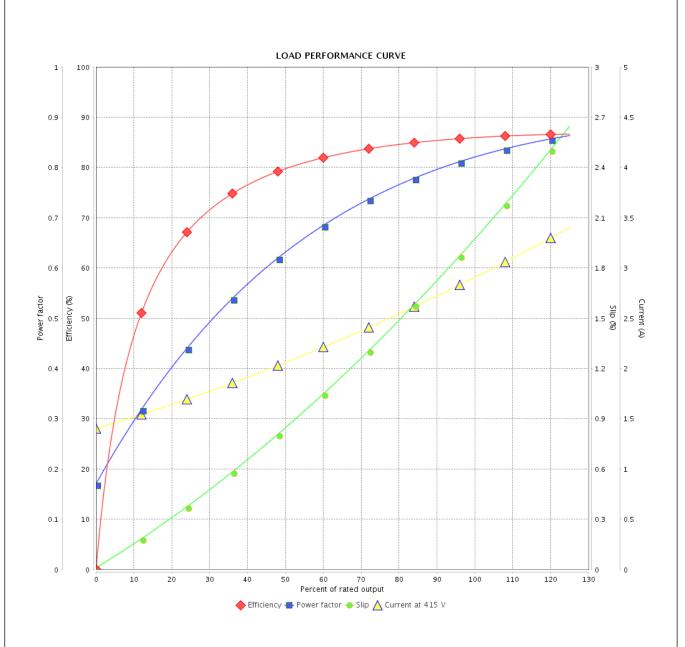
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Phase

Product code: 12821975

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				,	
Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.96 A : 11.1 : 3.57 ft.lb : 370 % : 520 % : 2940 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 0.1889 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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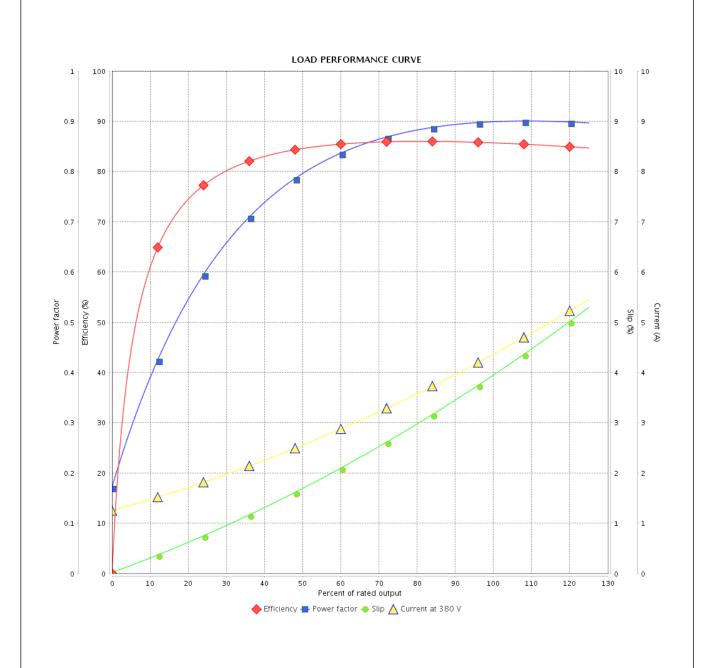
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12821975

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Performance	: 38	80 V 50 Hz 2P IE2				
Rated current	: 4.	: 4.34 A		Moment of inertia (J)		lb
LRC	: 6.	.8	Duty cycle	е	: Cont.(S1)	
Rated torque	: 5.	47 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	10 %	Service fa	actor	: 1.25	
Breakdown torque	: 29	90 %	Temperat	ure rise	: 80 K	
Rated speed	: 28	880 rpm	Design		: B	
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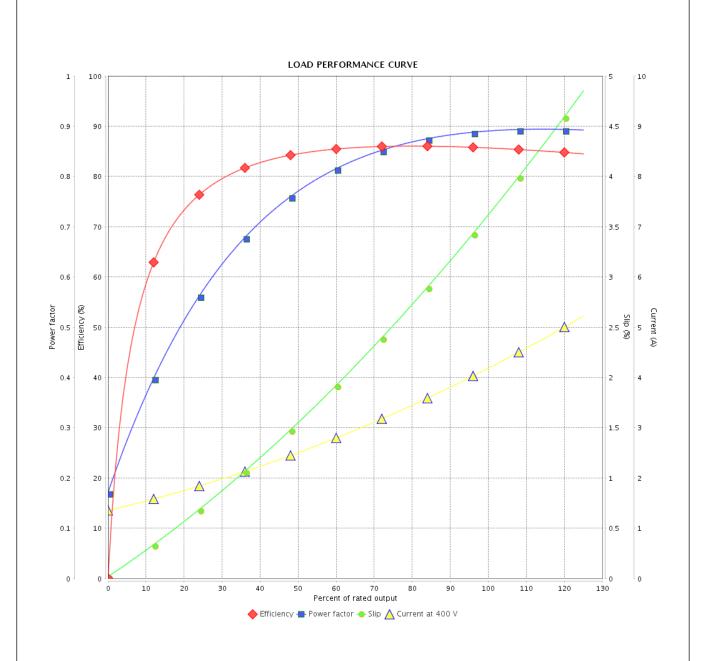


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12821975

Phase

Catalog # : 00336ET3ER182TC-W22



Performance	: 40	00 V 50 Hz 2P IE2				
Rated current	urrent : 4.17 A		Moment of	Moment of inertia (J)		.lb
LRC	: 7.	.6	Duty cycle	е	: Cont.(S1)	
Rated torque	: 5.	.45 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 24	40 %	Service fa	actor	: 1.25	
Breakdown torqu	e : 32	20 %	Temperat	Temperature rise		
Rated speed	: 28	890 rpm	Design		: B	
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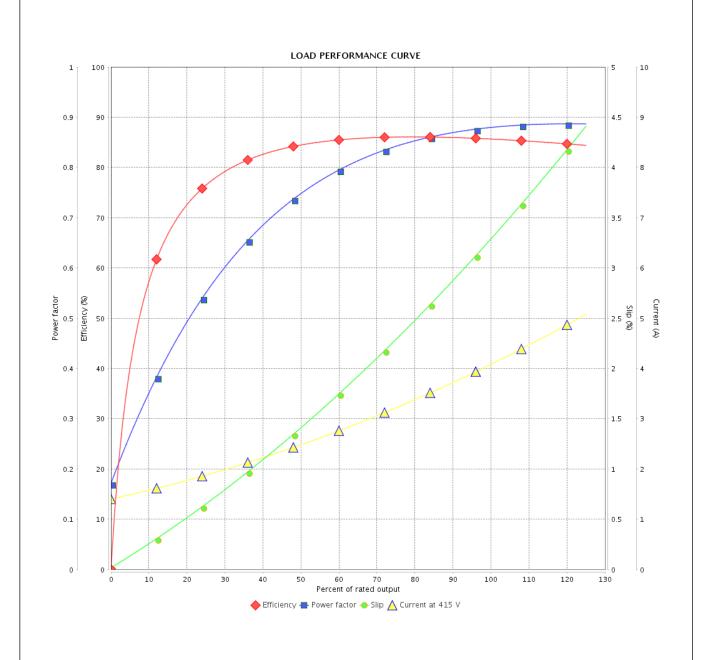
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821975

Phase

Catalog #: 00336ET3ER182TC-W22

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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.07 A : 8.1 : 5.43 ft.lb : 260 % : 350 % : 2900 rpm	Moment of i Duty cycle Insulation cl Service fact Temperature Design	lass	: 0.1889 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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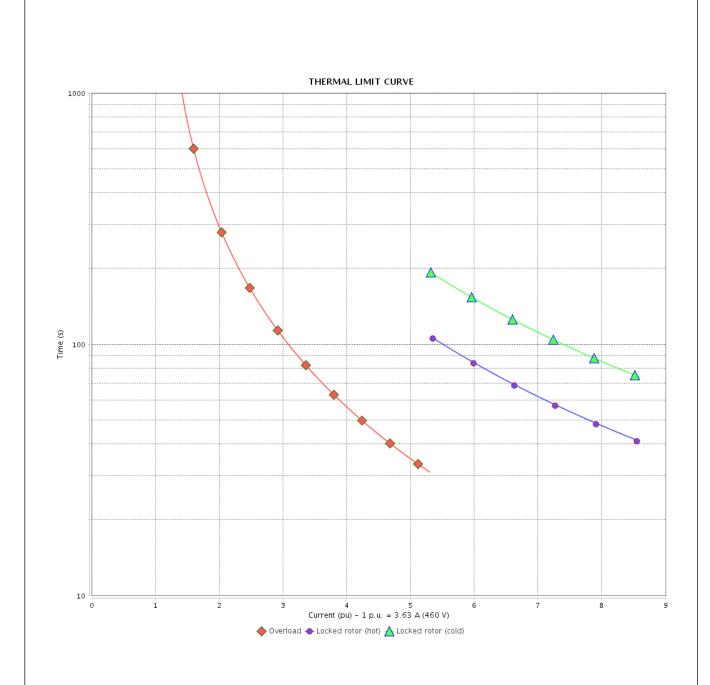


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12821975 00336ET3EF	2182TC-W22
					0033011311	(10210-7722
Performance	:	: 230/460 V 60 Hz 2P				
Rated current LRC		: 7.26/3.63 A : 8.6	Moment of Duty cycle	of inertia (J) e	: 0.1889 sq.ft.l : Cont.(S1)	b
Rated torque	:	: 4.49 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 250 % : 380 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 3510 rpm	Design	GIO 1100	: B	
Heating constan	t					
Cooling constant	t			, ,	1	
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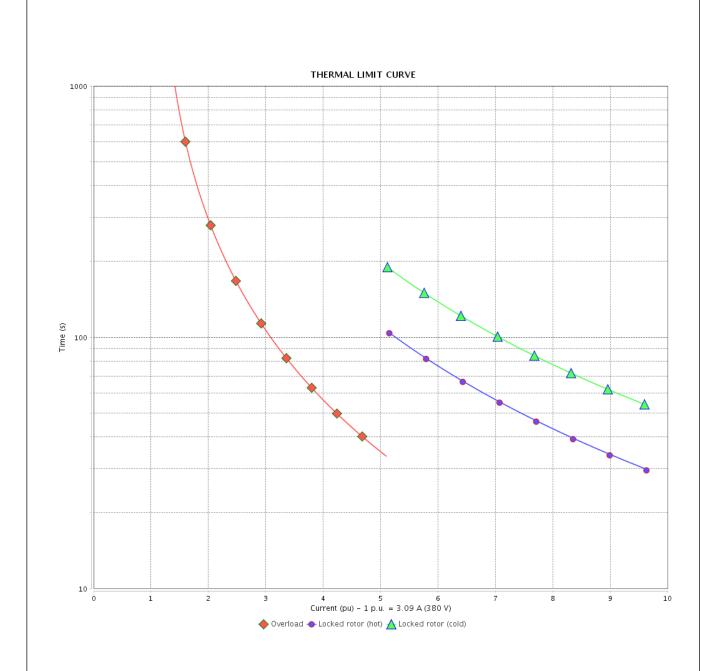


Customer	:				-	
Product line		NEMA Premium Efficienc	y Three-	Product code :	12821975	
	P	hase		Catalog # :	00336ET3EF	R182TC-W22
Performance	. 20	80 V 50 Hz 2P IE3				
Rated current		.09 A	Moment o	of inertia (J)	: 0.1889 sq.ft.	b
LRC	: 9.	6	Duty cycle	9	: Cont.(S1)	· -
Rated torque Locked rotor torque		.58 ft.lb 00 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 43	30 %	Temperati		: 80 K	
Rated speed	: 29	930 rpm	Design		: B	
Heating constant						
Cooling constant						
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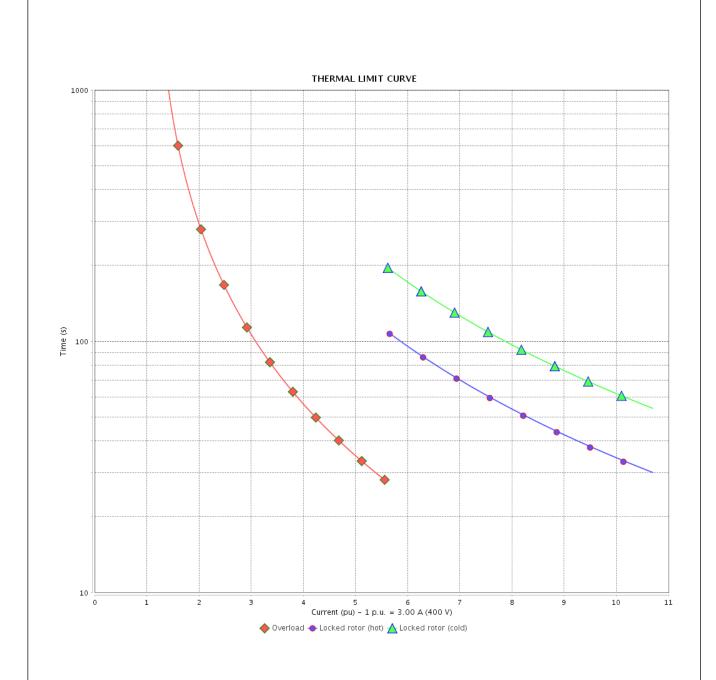


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12821975	
	P	hase		Catalog # :	00336ET3EF	R182TC-W22
Performance		00 V 50 Hz 2P IE3		6 * (* / I)	0.4000 (1.1	
Rated current LRC	: 3. : 10	00 A 0.7	Moment o Duty cycle	f inertia (J)	: 0.1889 sq.ft.l : Cont.(S1)	D
Rated torque	: 3.	58 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		40 % 30 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		935 rpm	Design		: B	
Heating constant						
Cooling constant		01		Dest 1	Ob. 1	Б.
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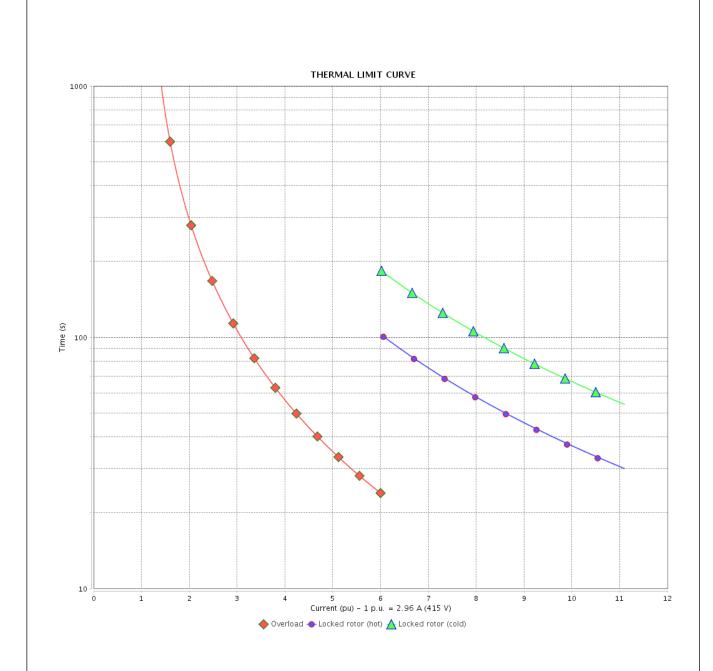


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12821975 00336ET3ER	182TC-W22
Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC		: 2.96 A : 11.1	Moment of Duty cycle	of inertia (J)	: 0.1889 sq.ft.ll : Cont.(S1)	b
Rated torque		: 3.57 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 370 % : 520 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 2940 rpm	Design		: B	
Heating constant						
Cooling constant	t .	Changes Summary		Performed	Checked	Date
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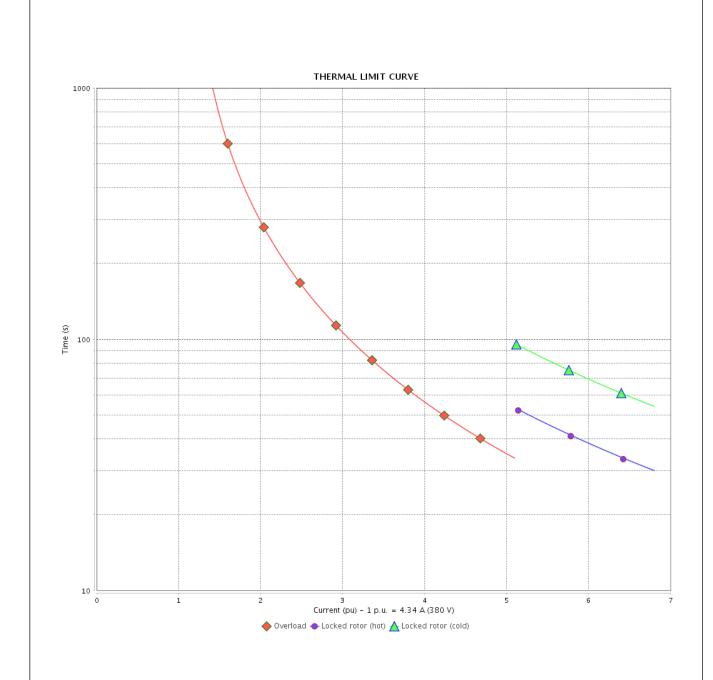


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12821975	
	Р	hase		Catalog # :	00336ET3EF	R182TC-W22
Performance	· 38	80 V 50 Hz 2P IE2				
Rated current		34 A	Moment o	f inertia (J)	: 0.1889 sq.ft.l	b
LRC	: 6.		Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torque		.47 π.ib 10 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 29	90 %	Temperatu		: 80 K	
Rated speed	. 28	880 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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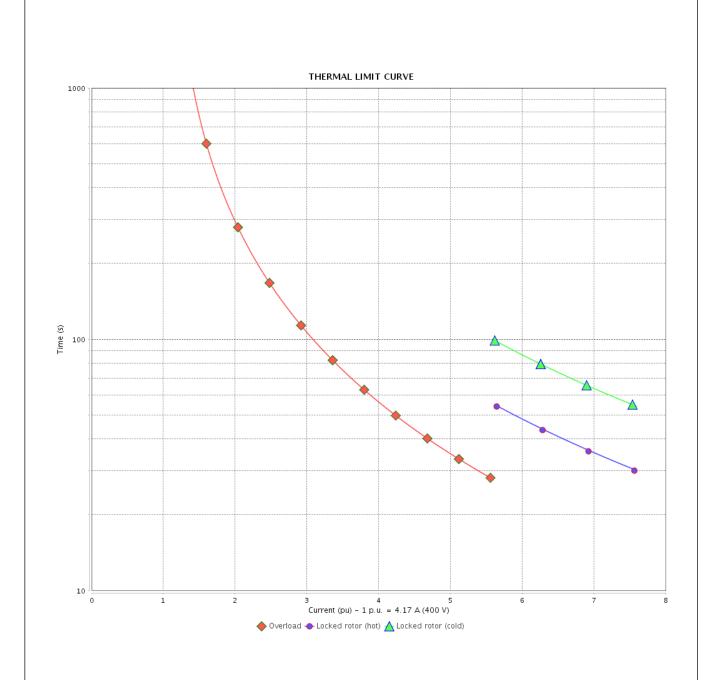


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	12821975	
			Catalog # :	00336ET3EF	R182TC-W22
Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.17 A : 7.6 : 5.45 ft.lb : 240 % : 320 % : 2890 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1889 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	b
	•	- 0			
Heating constant					
Cooling constant	Ob an an O		D(Oh I I	
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Three Phase Induction Motor - Squirrel Cage

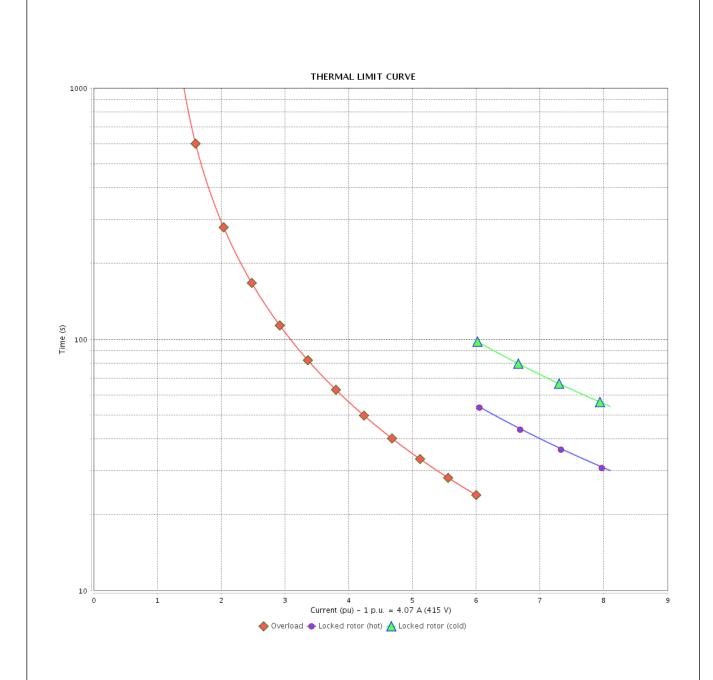


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12821975 00336ET3EF	R182TC-W22
Performance		: 415 V 50 Hz 2P IE2				
Rated current LRC		: 4.07 A : 8.1	Duty cycle		: 0.1889 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 5.43 ft.lb : 260 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 350 %	Temperat		: 80 K	
Rated speed		: 2900 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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Customer :

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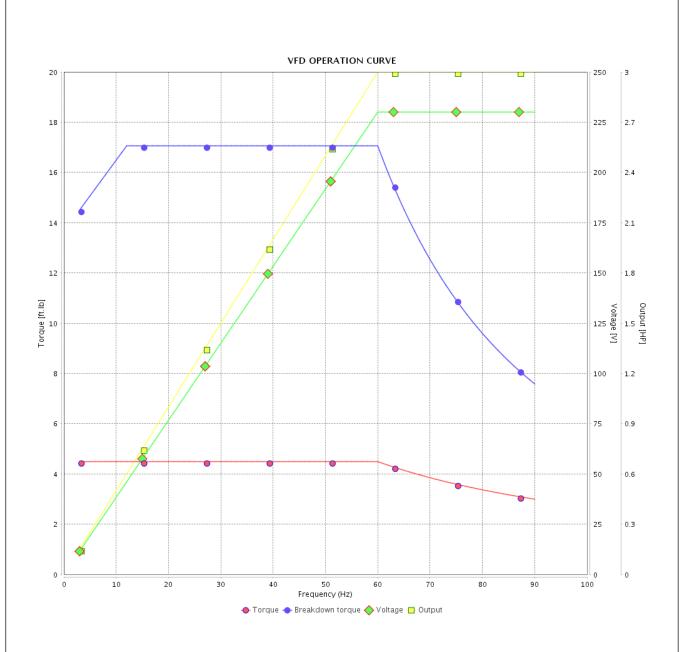
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12821975

Catalog #: 00336ET3ER182TC-W22

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Performance : 230/460 V 60 Hz 2P : 7.26/3.63 A Rated current Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.6 : 4.49 ft.lb Insulation class Rated torque : F : 250 % Locked rotor torque Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 3510 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage

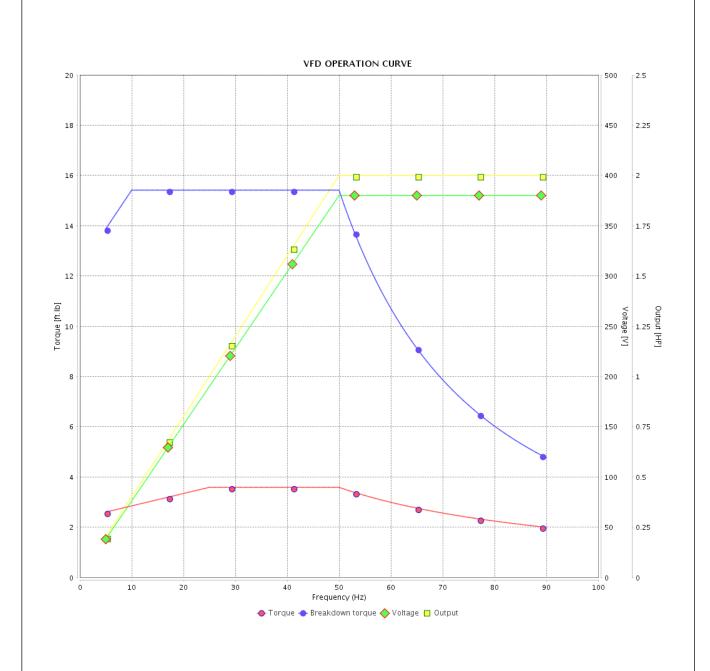


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821975

Phase

Catalog #: 00336ET3ER182TC-W22



Performance	: 38	80 V 50 Hz 2P IE3				
Rated current	: 3.	09 A Moment of in		of inertia (J)	: 0.1889 sq.ft.lb	
LRC	: 9.	.6	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 3.	.58 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 30	00 %	Service fa	actor	: 1.25	
Breakdown torque	e : 43	30 %	Temperature rise		: 80 K	
Rated speed	: 29	930 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Date

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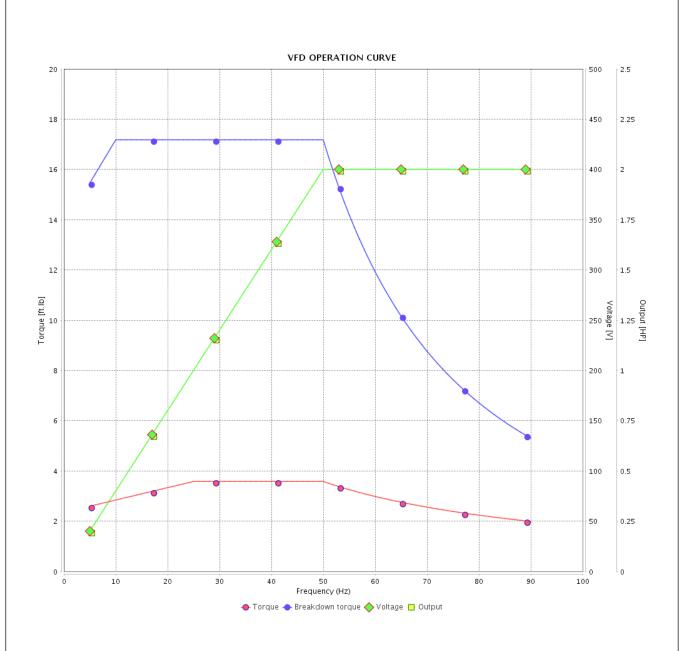
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12821975

Catalog #: 00336ET3ER182TC-W22

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Performance : 400 V 50 Hz 2P IE3 Rated current : 3.00 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 10.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 3.58 ft.lb : F Locked rotor torque : 340 % Service factor : 1.25 Breakdown torque : 480 % Temperature rise : 80 K Rated speed : 2935 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage

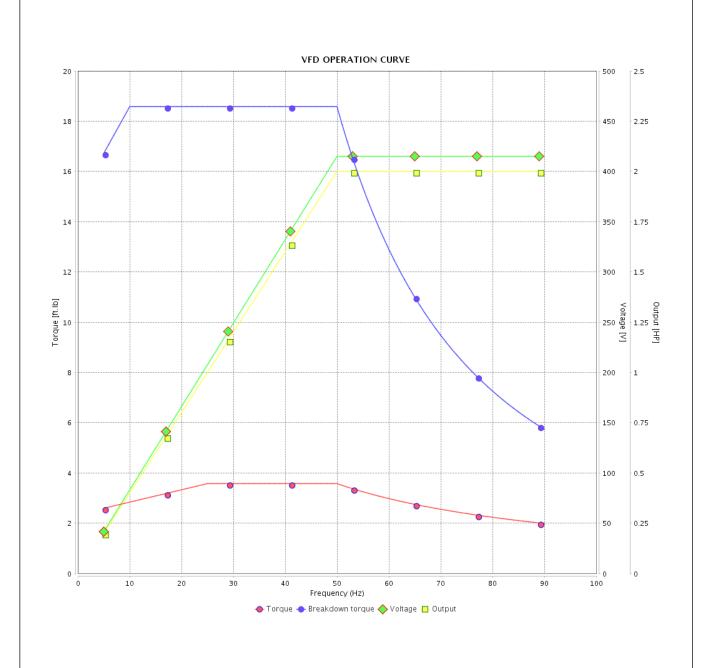


Customer

Product line : NEMA Premium Efficiency Three-Product code:

12821975

00336ET3ER182TC-W22 Catalog #:



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 2	.96 A	96 A Moment of inertia		: 0.1889 sq.ft.	lb
LRC	: 1	1.1	Duty cycle	•	: Cont.(S1)	
Rated torque	: 3.	.57 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 3°	70 %	Service fa	ctor	: 1.25	
Breakdown torque	: 5:	20 %	Temperati	Temperature rise		
Rated speed	: 29	940 rpm	Design		: B	
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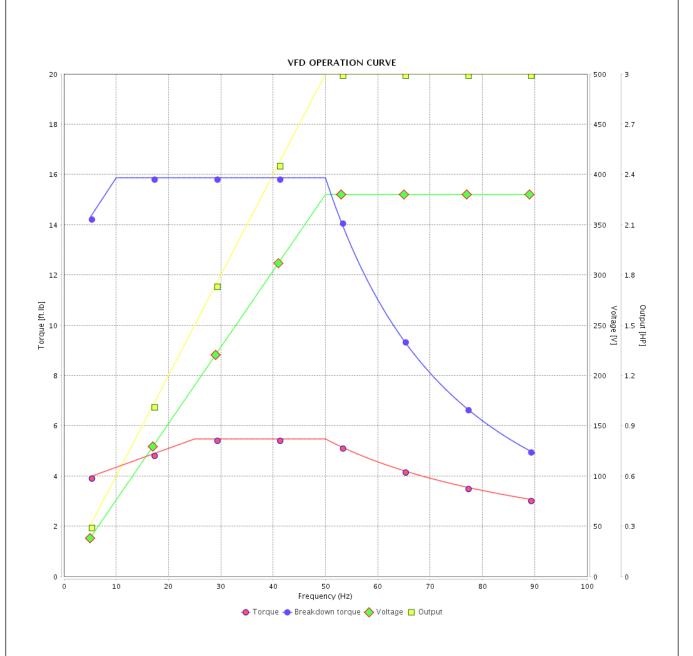
Product line : NEMA Premium Efficiency Three-

Phase

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Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.34 A : 6.8 : 5.47 ft.lb : 210 % : 290 % : 2880 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1889 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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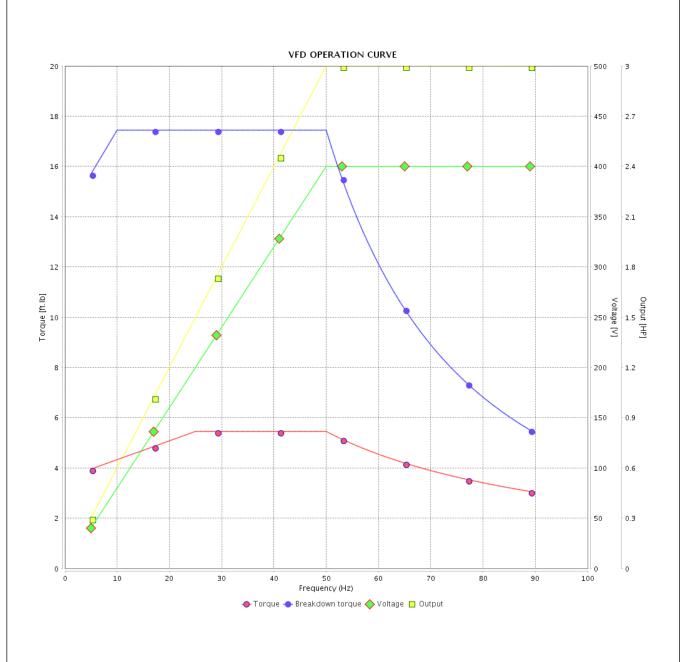


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821975

Phase

Catalog # : 00336ET3ER182TC-W22



Performance	:	400 V 50 Hz 2P IE2				
Rated current		: 4.17 A Momer		f inertia (J)	: 0.1889 sq.ft.l	b
LRC	:	7.6	Duty cycle	;	: Cont.(S1)	
Rated torque	:	5.45 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	240 %	Service fa	ctor	: 1.25	
Breakdown torque	:	320 %	Temperature rise		: 80 K	
Rated speed	:	2890 rpm	Design		: B	
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Customer :

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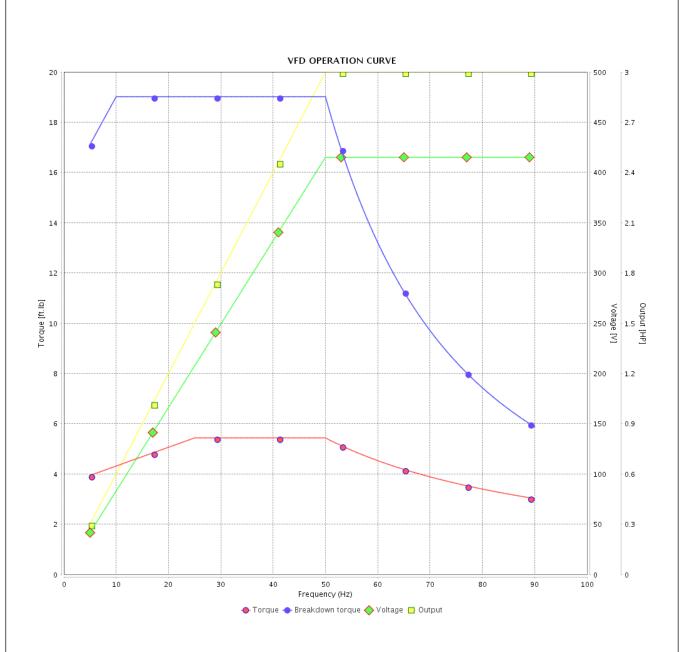
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12821975

Catalog #: 00336ET3ER182TC-W22

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Performance : 415 V 50 Hz 2P IE2 Rated current : 4.07 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.1 : 5.43 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

