### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12598690

Catalog #: 00336ET3E182JP-W22

Frame : 182/4JP Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude Protection degre Design	е	: 1000 m.a. : IP55 : B	s.l.		weight³ nt of inertia (J		0.7 lb .1889 sq.ft.lb	
Output [HP]		3	2	2	2	3	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	400	415	380	400	415
Rated current [A]		7.26/3.63	3.09	3.00	2.96	4.34	4.17	4.02
L. R. Amperes [A]		62.4/31.2	29.7	32.1	32.9	29.5	31.7	32.6
LRC [A]		8.6x(Code K)	9.6x(Code L)	10.7x(Code M)	11.1x(Code N)	6.8x(Code H)	7.6x(Code J)	8.1x(Code J)
No load current [A	]	2.60/1.30	1.25	1.35	1.40	1.25	1.35	1.40
Rated speed [RPN	<b>/</b> []	3515	2930	2940	2945	2885	2900	2910
Slip [%]		2.36	2.33	2.00	1.83	3.83	3.33	3.00
Rated torque [ft.lb]		4.48	3.58	3.57	3.57	5.46	5.43	5.41
Locked rotor torqu	e [%]	250	310	360	390	210	240	260
Breakdown torque	[%]	360	440	500	550	290	330	360
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		50s (cold)	54s (cold)	54s (cold)	54s (cold)	54s (cold)	54s (cold)	54s (cold)
		28s (hot)	30s (hot)	30s (hot)	30s (hot)	30s (hot)	30s (hot)	30s (hot)
Noise level <sup>2</sup>		66.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%	82.0	79.5	79.1	77.9	84.4	84.4	83.6
Efficiency (%)	50%	82.5	81.0	80.6	79.7	84.0	84.0	84.0
Lindicitoy (70)	75%	86.5	84.5	84.5	84.1	86.5	86.5	86.5

85.8

0.41

0.65

0.77

0.84

85.9

0.39

0.63

0.75

0.82

0.86 Drive end Non drive end Foundation loads

6307 ZZ Bearing type 6206 ZZ Max. traction : 79 lb Sealing V'Ring V'Ring : 170 lb Max. compression

85.8

0.44

0.68

0.79

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

Notes

Power Factor

USABLE @208V 8.01A SF 1.15 SFA 9.21A

100%

25%

50%

75%

100%

86.5

0.50

0.75

0.84

0.88

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.

85.5

0.56

0.80

0.87

0.90

85.5

0.52

0.77

0.86

0.89

86.5

0.50

0.75

0.84

0.88

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#### Three Phase Induction Motor - Squirrel Cage



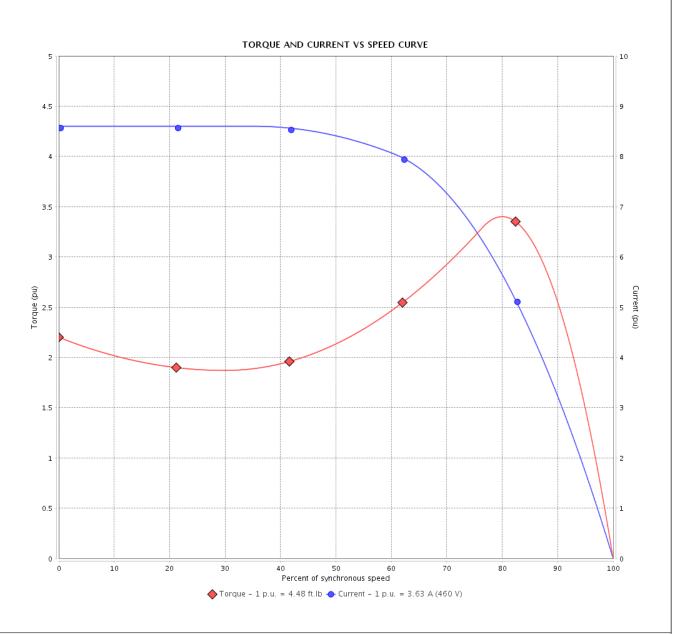
Customer :

Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 12598690

Catalog #: 00336ET3E182JP-W22



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) : F : 4.48 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 250 % : 1.25 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B

Locked rotor time : 50s (cold) 28s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12598690 Catalog #: 00336ET3E182JP-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 : 310 % Locked rotor torque Service factor : 1.25 Breakdown torque : 440 % Temperature rise : 80 K Rated speed : 2930 rpm Design : B Locked rotor time : 54s (cold) 30s (hot) Date Rev. Performed Checked **Changes Summary** Performed by

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### Three Phase Induction Motor - Squirrel Cage



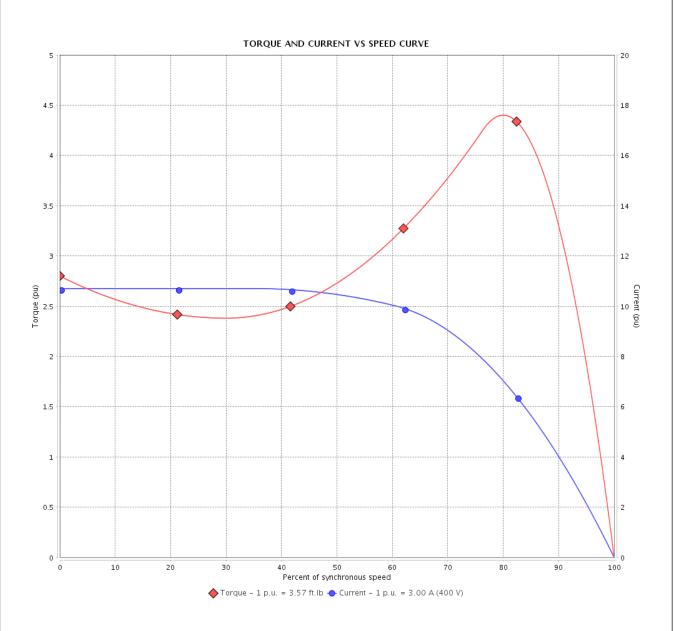
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 12598690

Catalog #: 00336ET3E182JP-W22



Performance	: 400 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.00 A : 10.7 : 3.57 ft.lb : 360 % : 500 % : 2940 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	
Locked rotor time	: 54s (cold) 30s (hot)			

Locked rotor tim		43 (6614) 663 (1161)			
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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12598690 Catalog #: 00336ET3E182JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 18 16 3.5 12 Torque (pu) 0.5 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) Insulation class : F Rated torque : 3.57 ft.lb Locked rotor torque : 390 % Service factor : 1.25 Breakdown torque : 550 % Temperature rise : 80 K Rated speed : 2945 rpm Design : B Locked rotor time : 54s (cold) 30s (hot) Date Rev. Performed Checked **Changes Summary** 

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#### Three Phase Induction Motor - Squirrel Cage

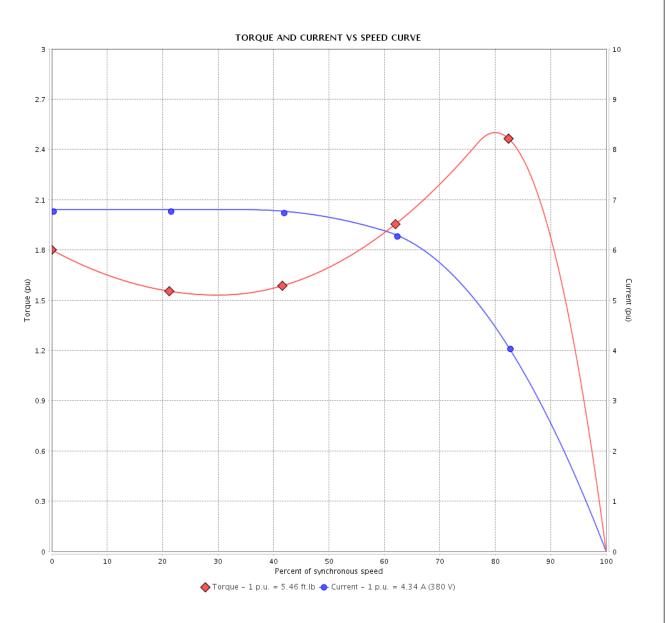


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 12598690

Catalog #: 00336ET3E182JP-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) Insulation class Rated torque : 5.46 ft.lb : F Locked rotor torque : 210 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 2885 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: 12598690 Catalog #: 00336ET3E182JP-W22 TORQUE AND CURRENT VS SPEED CURVE

2.4								\		8
		•				•		\	\	
2.1										7
1.8		<b>•</b>								6
1.5										5
								•		
1.2										4
0.9								\		
0.6										2
0.3										
0.3										1
0										
0	10	20	30	40 Percent	50 of synchronous s	60 peed	70	80	90	100

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	: 5.43 ft.lb	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B
Locked rotor time	: 54s (cold) 30s (hot)		

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

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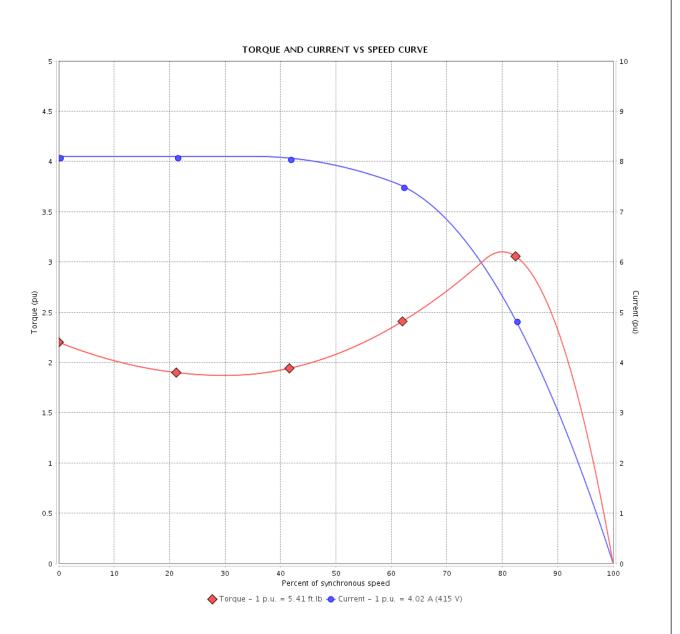


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00336ET3E182JP-W22

12598690



Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 4.02 A	Moment of inertia (J)	: 0.1889 sq.ft.lb	
LRC	: 8.1	Duty cycle	: Cont.(S1)	
Rated torque	: 5.41 ft.lb	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.25	
Breakdown torque	: 360 %	Temperature rise	: 80 K	
Rated speed	: 2910 rpm	Design	: B	
Locked rotor time	: 54s (cold) 30s (hot)			

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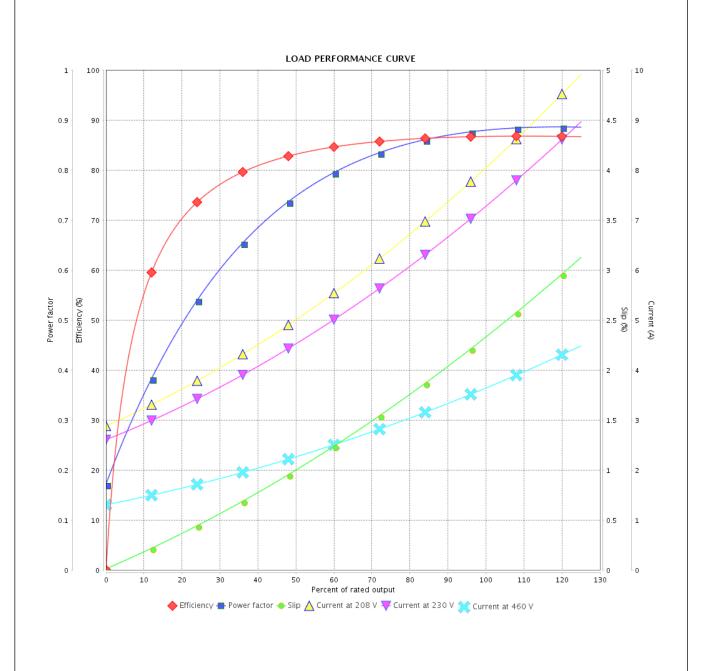


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598690

Phase

Catalog #: 00336ET3E182JP-W22



Performance	.,	230/460 V 60 Hz 2P				
			T			
Rated current	: 7	7.26/3.63 A	Moment o	f inertia (J)	: 0.1889 sq.ft.lb	
LRC	: 8	3.6	Duty cycle	9	: Cont.(S1)	
Rated torque	: 4	4.48 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	250 %	Service fa	Service factor		
Breakdown torqu		360 %	Temperat	Temperature rise		
Rated speed		3515 rpm	Design		: B	
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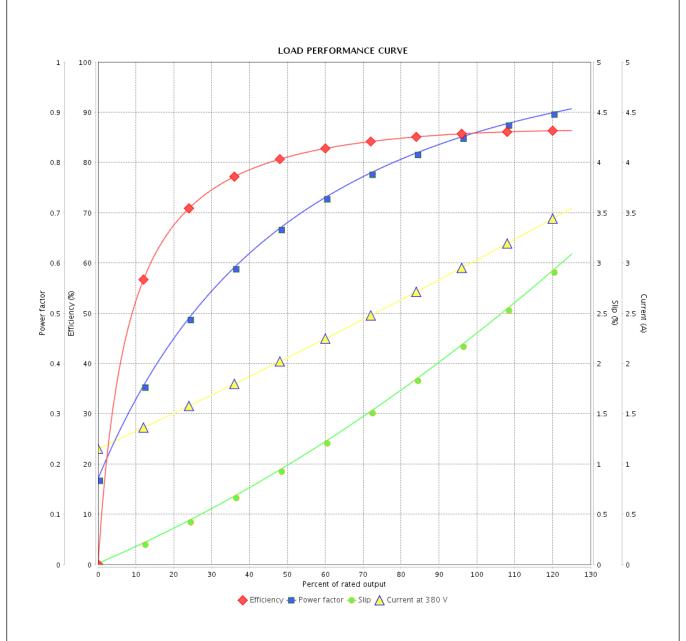
Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 12598690

Catalog #: 00336ET3E182JP-W22

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	·			,	
Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC	: 3.09 A : 9.6	Moment of inertia (J) Duty cycle		: 0.1889 sq.ft. : Cont.(S1)	lb
Rated torque Locked rotor torque Breakdown torque	: 3.58 ft.lb : 310 % : 440 %	Insulation class Service factor Temperature rise		: F : 1.25 : 80 K	
Rated speed	: 2930 rpm	Design		: B	
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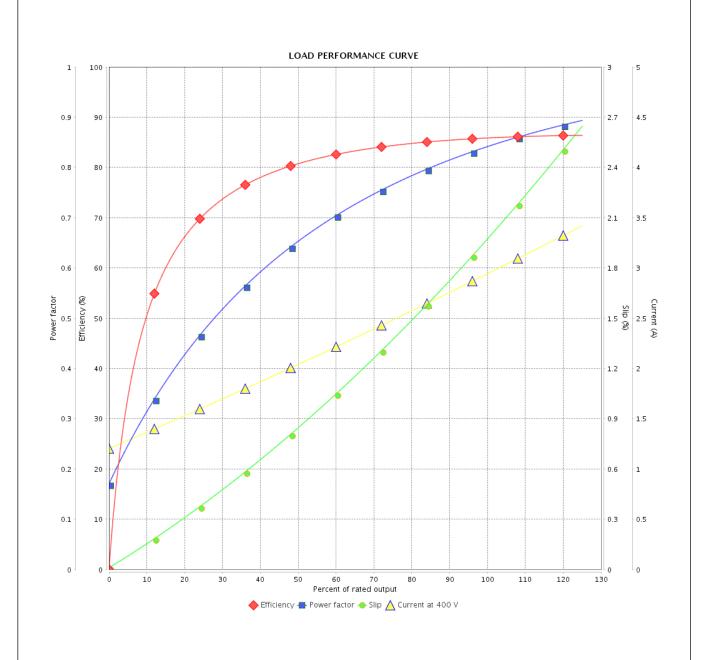
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598690

Phase

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Performance	: 400 V 50 Hz 2P IE3				
Rated current	: 3.00 A	Moment of in	nertia (J)	: 0.1889 sq.ft.l	b
LRC	: 10.7	Duty cycle		: Cont.(S1)	
Rated torque	: 3.57 ft.lb	Insulation cla	ass	: F	
Locked rotor torque	: 360 %	Service factor Temperature rise		: 1.25	
Breakdown torque	: 500 %			: 80 K	
Rated speed	: 2940 rpm	Design		: B	
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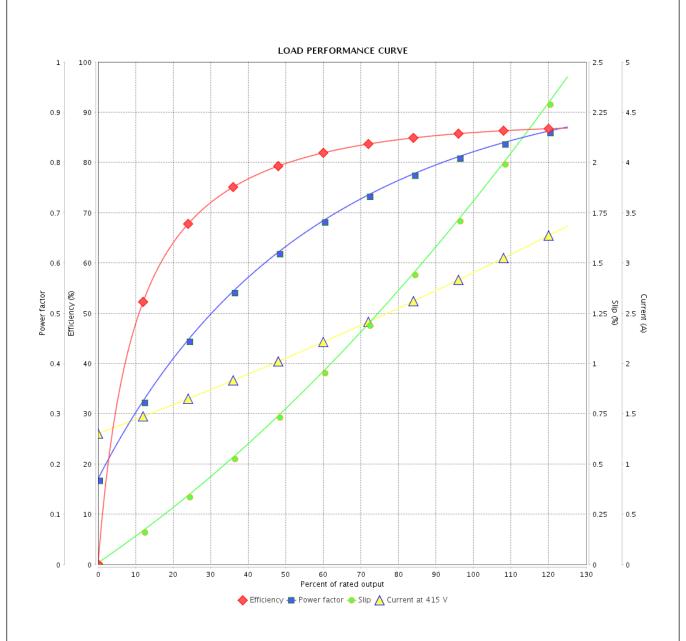
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 12598690

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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 Insulation class Service factor Temperature rise Design		: Cont.(S1) : F : 1.25	
Rated torque	: 3.57 ft.lb				
Locked rotor torque	: 390 %				
Breakdown torque	: 550 %				
Rated speed	: 2945 rpm			: B	
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#### Three Phase Induction Motor - Squirrel Cage

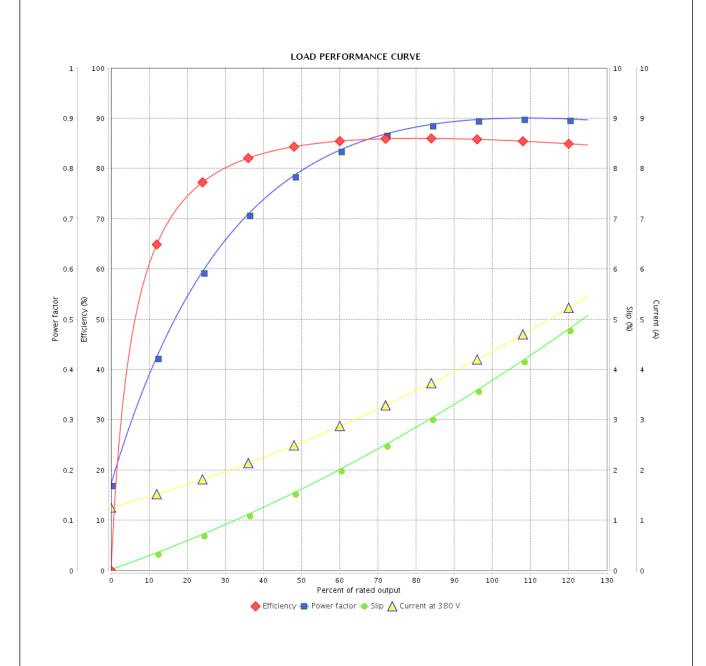


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598690

Phase

Catalog #: 00336ET3E182JP-W22



Performance	:	380 V 50 Hz 2P IE2				
Rated current		4.34 A	Moment o	f inertia (J)	: 0.1889 sq.ft.	lb
LRC	:	6.8	Duty cycle	<b>)</b>	: Cont.(S1)	
Rated torque	:	5.46 ft.lb	Insulation	class	: F	
Locked rotor torque	cked rotor torque : 210 % Service f		Service fa	ctor	: 1.25	
Breakdown torque		290 %	Temperati	Temperature rise		
Rated speed	:	2885 rpm	Design		: B	
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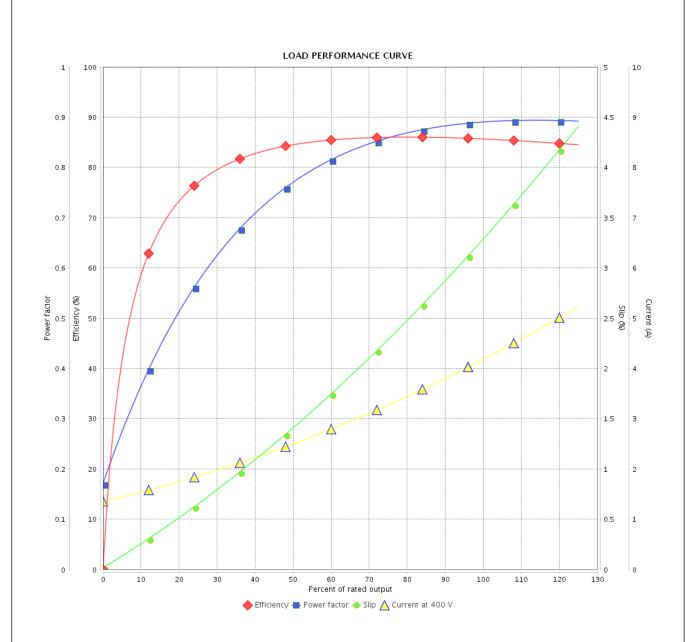
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Product line : NEMA Premium Efficiency Three- Product code : 12598690

Phase

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Performance : 400 V 50 Hz 2P IE2 Rated current : 4.17 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.6 : 5.43 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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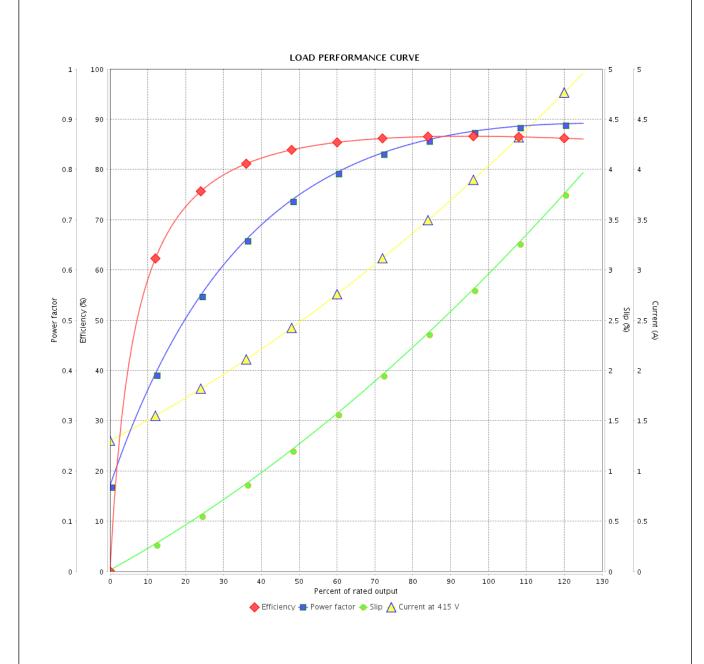


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598690

Phase

Catalog #: 00336ET3E182JP-W22



Performance	: 4	115 V 50 Hz 2P IE3				
Rated current	d current : 4.02 A		Moment o	f inertia (J)	: 0.1889 sq.ft.	.lb
LRC	: 8	3.1	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 5	5.41 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	260 %	Service factor		: 1.25	
Breakdown torque	: 3	360 %	Temperatu	Temperature rise		
Rated speed	: 2	2910 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage

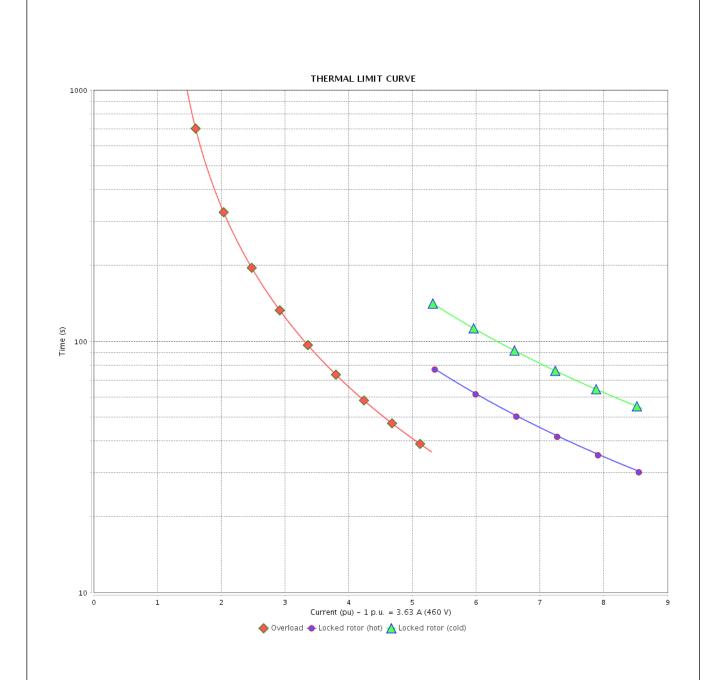


Customer	:				·	
Product line		NEMA Premium Efficiency	Three-	Product code :	12598690	
r roddot iirio		Phase				
				Catalog # :	00336ET3E1	82JP-W22
Dorformon		20/400 \/ 00     - 2D				
Performance Rated current		30/460 V 60 Hz 2P 7.26/3.63 A	Moment o	f inertia (J)	: 0.1889 sq.ft.l	h
LRC	: 8	5.6	Duty cycle	<b>;</b>	: Cont.(S1)	υ
Rated torque		.48 ft.lb .50 %	Insulation Service fa		: F : 1.25	
Locked rotor torq Breakdown torqu Rated speed	e : 3	50 % 60 % 515 rpm	Temperatu Design		: 1.25 : 80 K : B	
		- × · <b>F</b> ···			· <del>-</del>	
Heating constant Cooling constant						
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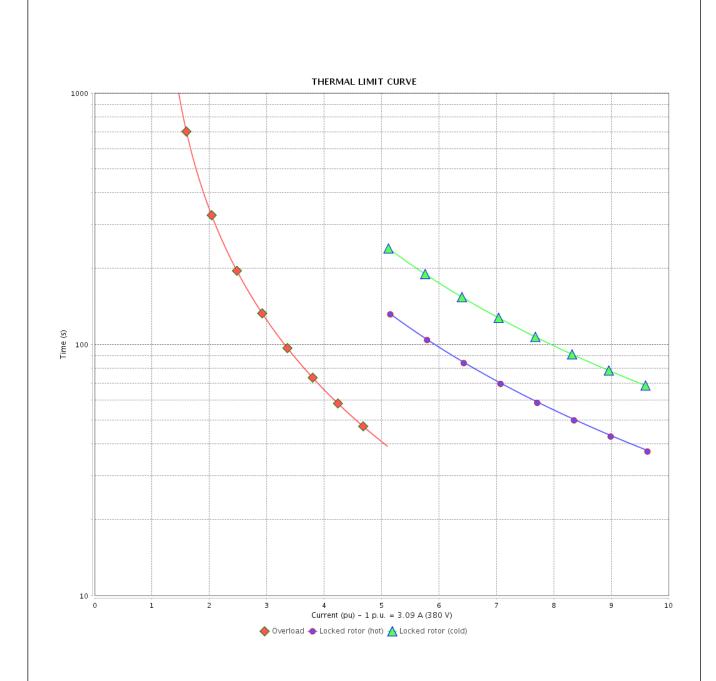


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Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	12598690 00336ET3E1	82JP-W22
Performance Rated current		30 V 50 Hz 2P IE3 09 A	Moment o	f inertia (J)	: 0.1889 sq.ft.l	h
LRC	: 9.	6	Duty cycle	<b>;</b>	: Cont.(S1)	b
Rated torque Locked rotor torque		58 ft.lb 10 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 44	40 %	Temperatu		: 80 K	
Rated speed	: 29	930 rpm	Design		: B	
Heating constant Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage

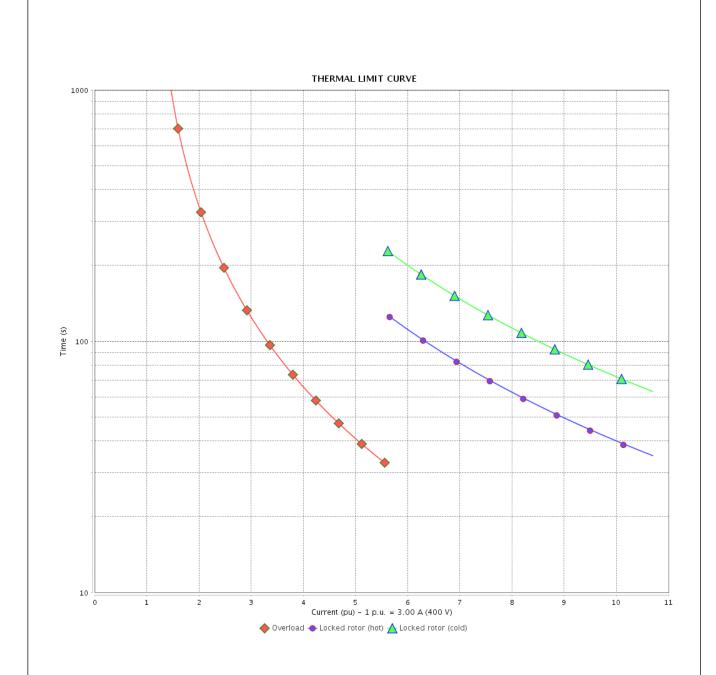


Product line : NEMA Premium Efficiency Three-Product code : 12598690 Phase Catalog # : 00336ET3	
Phase	
Catalog # : 00336ET3	
	BE182JP-W22
Performance : 400 V 50 Hz 2P IE3	
Rated current       : 3.00 A       Moment of inertia (J)       : 0.1889 sq.         LRC       : 10.7       Duty cycle       : Cont.(S1)         Rated torque       : 3.57 ft.lb       Insulation class       : F         Locked rotor torque       : 360 %       Service factor       : 1.25         Breakdown torque       : 500 %       Temperature rise       : 80 K         Rated speed       : 2940 rpm       Design       : B	.ft.lb
Heating constant	
Cooling constant	
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

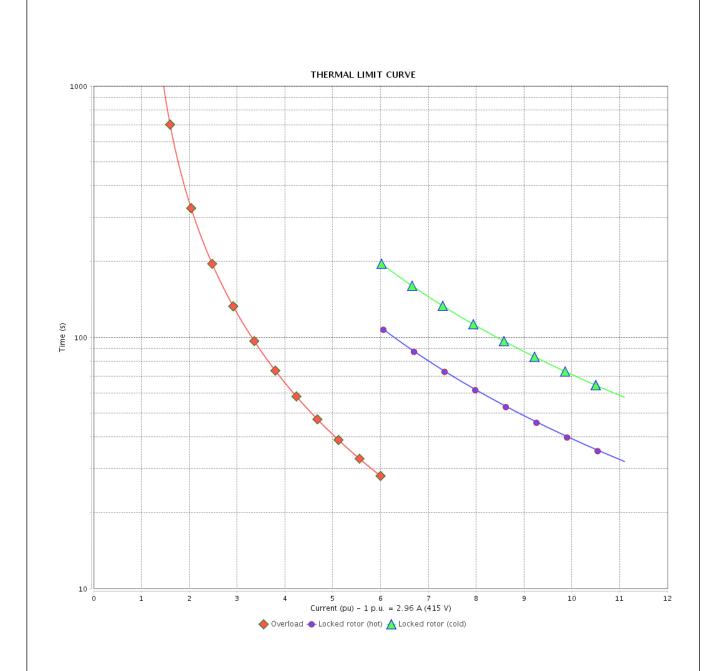


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	12598690 00336ET3E1	82JP-W22
Performance		15 V 50 Hz 2P IE3				
Rated current LRC	: 11		Duty cycle	f inertia (J)	: 0.1889 sq.ft.l : Cont.(S1)	b
Rated torque		.57 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		90 % 50 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		945 rpm	Design		: B	
Heating constant						
Cooling constant  Rev.		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

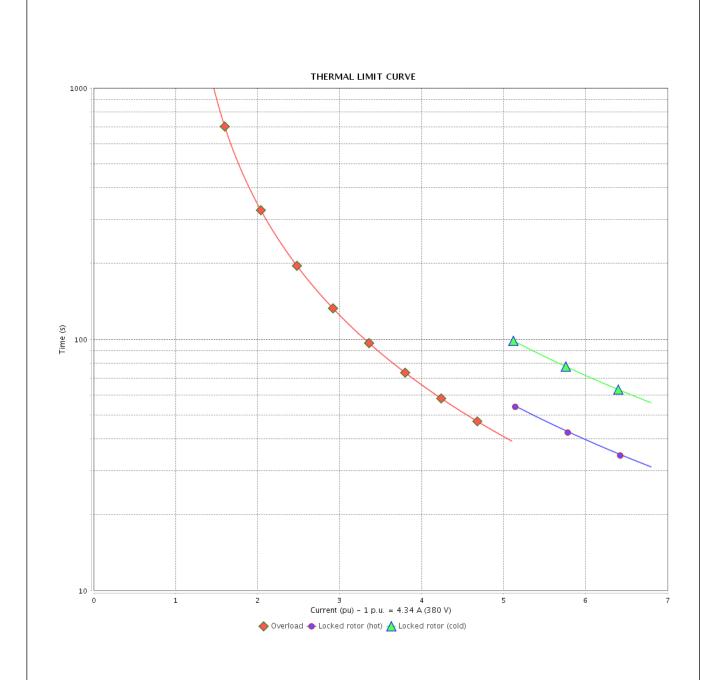


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598690 00336ET3E1	82JP-W22
Performance		: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque	:	: 4.34 A : 6.8 : 5.46 ft.lb	Duty cycle Insulation	class	: 0.1889 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu Rated speed	ue :	: 210 % : 290 % : 2885 rpm	Service fa Temperati Design		: 1.25 : 80 K : B	
Heating constan						
Cooling constant				,	T	
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Customer :



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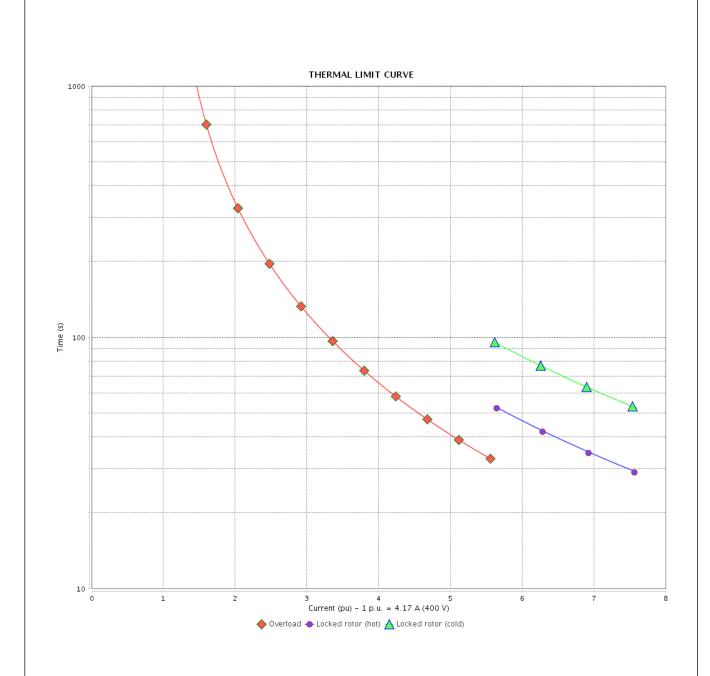


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598690 00336ET3E1	82JP-W22
Performance		: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque		: 4.17 A : 7.6 : 5.43 ft.lb	Duty cycle Insulation	class	: 0.1889 sq.ft.I : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu	ue	: 240 % : 330 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 2900 rpm	Design		: B	
Heating constant Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage

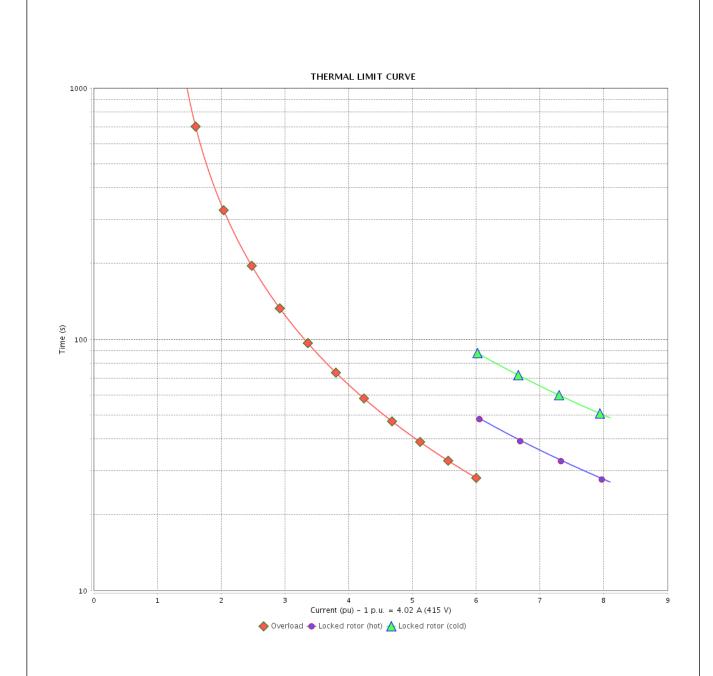


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	12598690 00336ET3E1	82JP-W22
Performance		15 V 50 Hz 2P IE3				
Rated current LRC	: 8.		Duty cycle	f inertia (J)	: 0.1889 sq.ft.l : Cont.(S1)	b
Rated torque		.41 ft.lb	Insulation	class	: F : 1.25	
Locked rotor torque Breakdown torque		60 % 60 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		910 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summers		Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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Customer :

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Date

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Product line : NEMA Premium Efficiency Three-

Phase

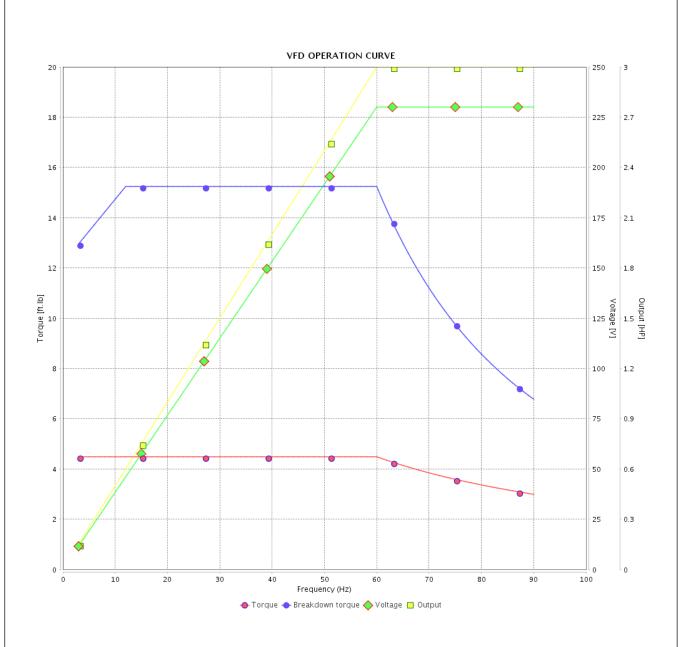
Product code: 12598690

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Performance	:	230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : :ue :: :e ::	7.26/3.63 A 8.6 4.48 ft.lb 250 % 360 % 3515 rpm	Moment of Duty cycle Insulation Service fa Temperation	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

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Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12598690

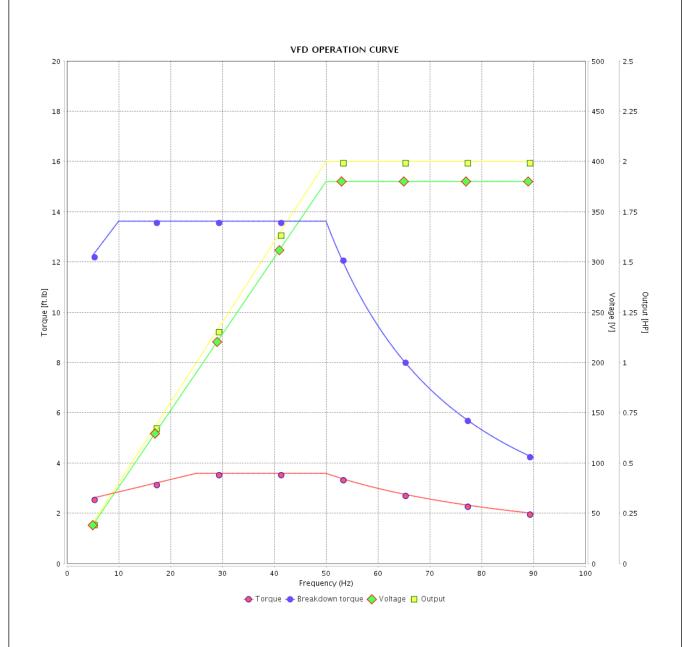
Phase

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.09 A : 9.6 : 3.58 ft.lb : 310 % : 440 % : 2930 rpm	Moment of inertia (J) : 0.1889 sq.ft.I  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.25  Temperature rise : 80 K  Design : B		0	
Rev.	Changes Summary	Design	Performed	Checked	Date
Performed by					

#### Three Phase Induction Motor - Squirrel Cage



Customer :

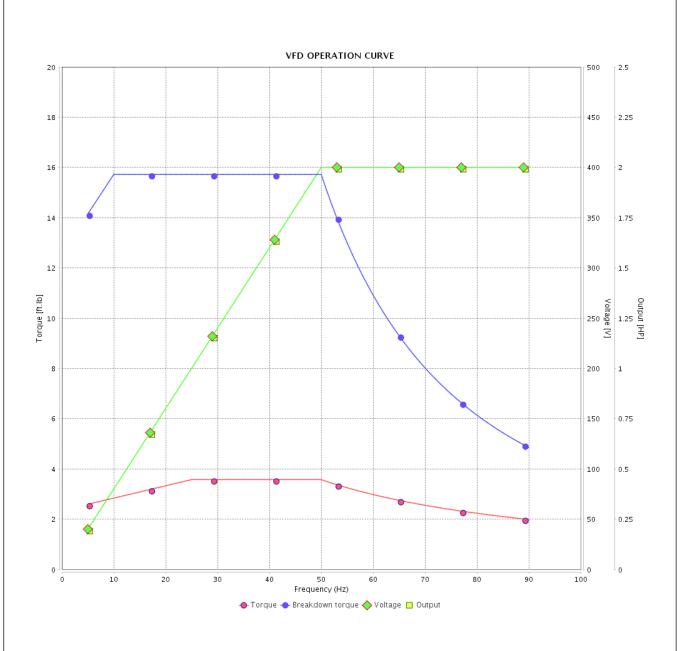
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12598690

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Performance	. ,	100 V 50 Hz 2P IE	2		·		
1 enormance		100 V 30 HZ ZP IE	.3				
Rated current		3.00 A	Moment o	f inertia (J)	: 0.1889 sq.ft.	.lb	
LRC		10.7	Duty cycle	•	: Cont.(S1)		
Rated torque		3.57 ft.lb	Insulation	class	: F		
Locked rotor torque		360 %	Service fa	Service factor		: 1.25	
Breakdown torqu		500 %	Temperati	Temperature rise			
Rated speed .		2940 rpm	Design		: B		
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#### Three Phase Induction Motor - Squirrel Cage

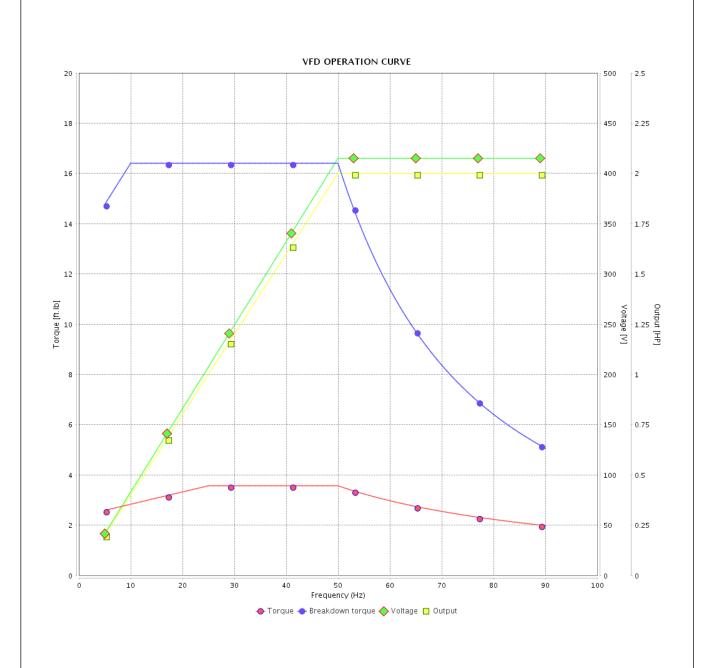


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598690

Phase

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Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 2	: 2.96 A Moment of		f inertia (J)	: 0.1889 sq.ft	.lb
LRC	: 1	1.1	Duty cycle	)	: Cont.(S1)	
Rated torque	: 3	.57 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 3	90 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie : 550 % Temperature rise		ıre rise	: 80 K		
Rated speed	: 2	945 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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Phase

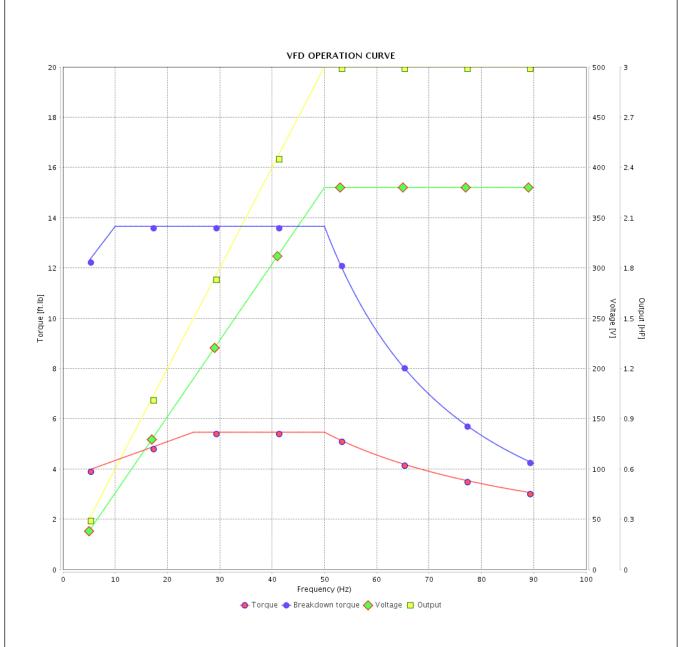
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Performance		: 380 V 50 Hz 2P	IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 4.34 A : 6.8 : 5.46 ft.lb : 210 % : 290 % : 2885 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.1889 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb	
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#### Three Phase Induction Motor - Squirrel Cage

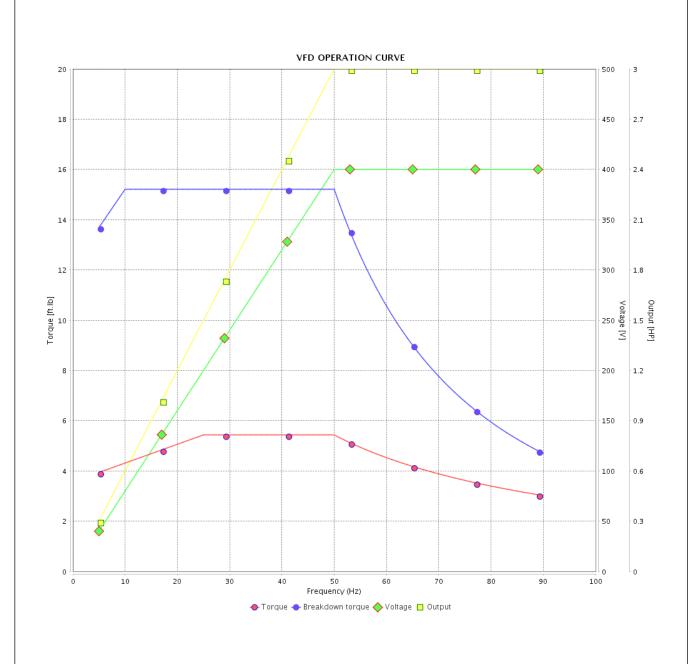


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598690

Phase

Catalog #: 00336ET3E182JP-W22



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	.43 ft.lb	Insulation class		: F			
Locked rotor torque	e : 2	40 %	Service factor		: 1.25			
Breakdown torque	: 3	30 %	Temperature rise		: 80 K			
Rated speed	: 2	2900 rpm Design						
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#### Three Phase Induction Motor - Squirrel Cage



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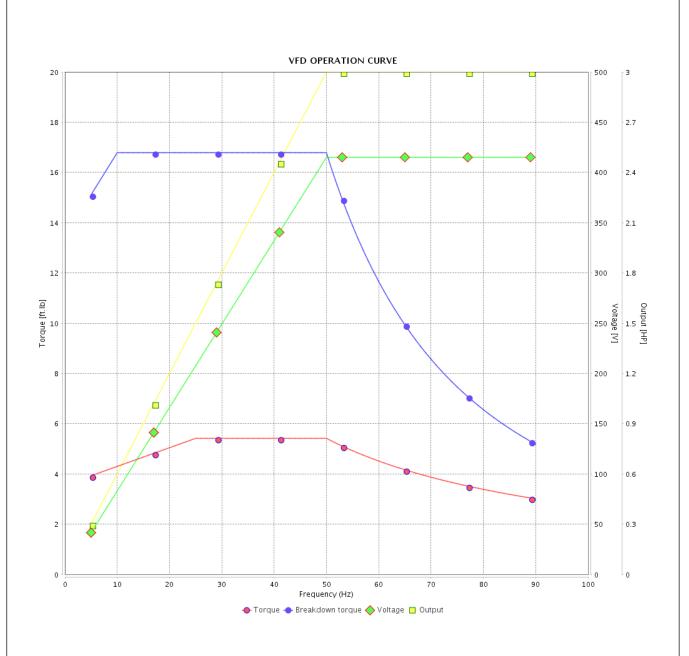
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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			·					
Performance	: 4	: 415 V 50 Hz 2P IE3						
Rated current	: 4	.02 A	Moment of	Moment of inertia (J)		: 0.1889 sq.ft.lb		
LRC	: 8	5.1	Duty cycle		: Cont.(S1)			
Rated torque	: 5	5.41 ft.lb	Insulation class		: F			
Locked rotor torq	ue : 2	260 %	Service factor		: 1.25			
Breakdown torqu		860 %	Temperati	Temperature rise		: 80 K		
Rated speed	: 2	910 rpm	Design		: B			
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