### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12598689

Catalog #: 00336ET3E182JM-W22

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

Insulation class Mounting : F-1

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

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

: 1000 m.a.s.l. Altitude Approx. weight<sup>3</sup> : 89.9 lb

Protection degree		: IP55		Momer	nt of inertia (J	) : C	.1889 sq.ft.lb	
Design		: B						
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	11.1x(Code	6.8x(Code H)	7.6x(Code J)	8.1x(Code J)
				M)	N)			
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> 1]	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
Lincicity (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	86.5
	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	0.77	0.75
FUWEI FACIOI	75%	0.84	0.79	0.77	0.75	0.87	0.86	0.84

Drive end Non drive end Foundation loads

0.84

0.82

6307 ZZ Bearing type 6206 ZZ Max. traction : 79 lb Sealing V'Ring V'Ring : 169 lb Max. compression

0.86

Lubrication interval Lubricant amount

0.88

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 8.01A SF 1.15 SFA 9.21A

100%

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.

0.90

0.89

0.88

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#### Three Phase Induction Motor - Squirrel Cage

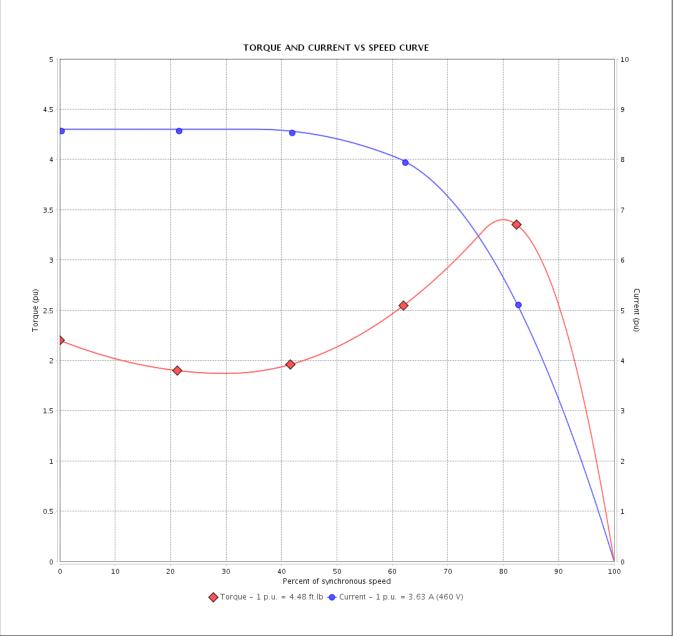


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00336ET3E182JM-W22

12598689



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: 12598689 Catalog #: 00336ET3E182JM-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** 

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### Three Phase Induction Motor - Squirrel Cage



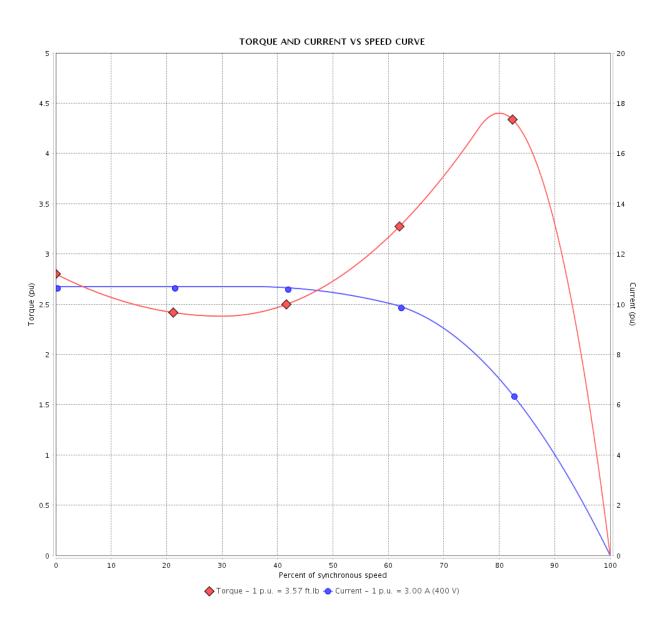
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12598689

Catalog #: 00336ET3E182JM-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	: 3.57 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	
Locked rotor time	: 54s (cold) 30s (hot)			

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: 12598689 Catalog #: 00336ET3E182JM-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 18 16 3.5 12 Torque (pu) 40 50 -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	: 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)				
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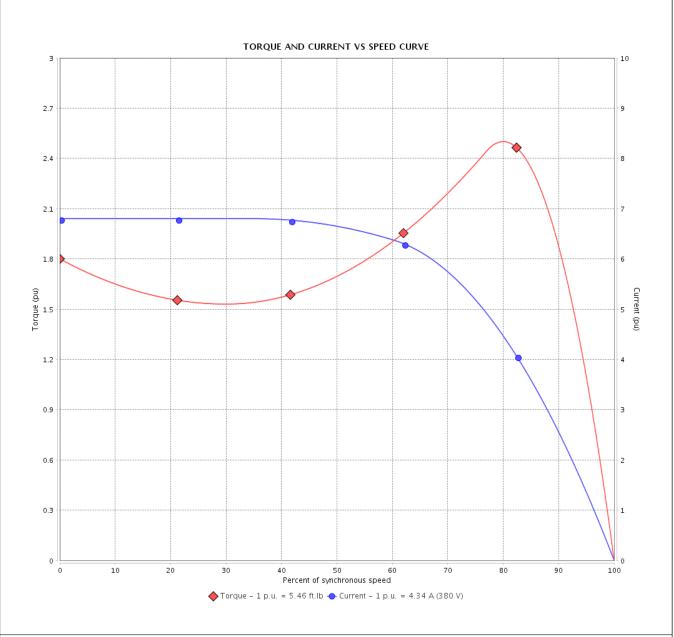
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00336ET3E182JM-W22

12598689



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: 12598689 Catalog #: 00336ET3E182JM-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.43 ft.lb ◆ Current - 1 p.u. = 4.17 A (400 V) 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) Insulation class : F Rated torque : 5.43 ft.lb : 240 % Locked rotor torque Service factor : 1.25 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B Locked rotor time : 54s (cold) 30s (hot) Date Rev. Performed Checked **Changes Summary** 

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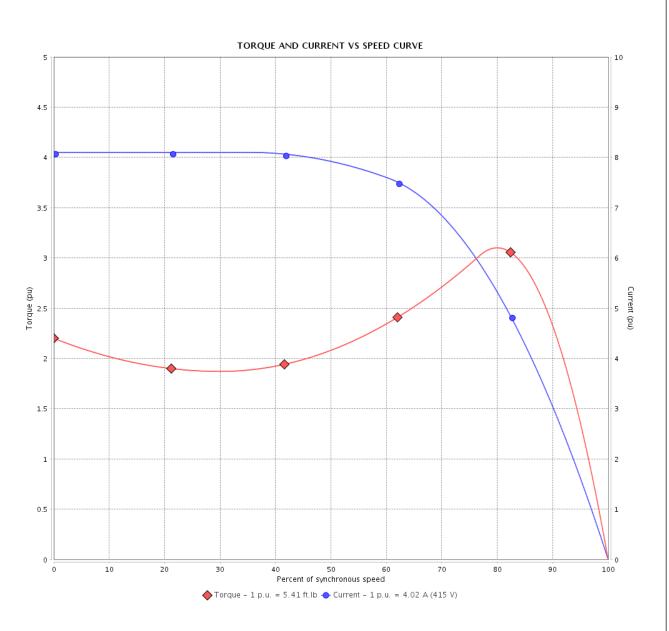


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Product line : NEMA Premium Efficiency Three- Product code : 12598689

Phase

Catalog #: 00336ET3E182JM-W22



Performance	: 415 V 50 Hz 2P IE3		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.02 A : 8.1 : 5.41 ft.lb : 260 % : 360 % : 2910 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)		

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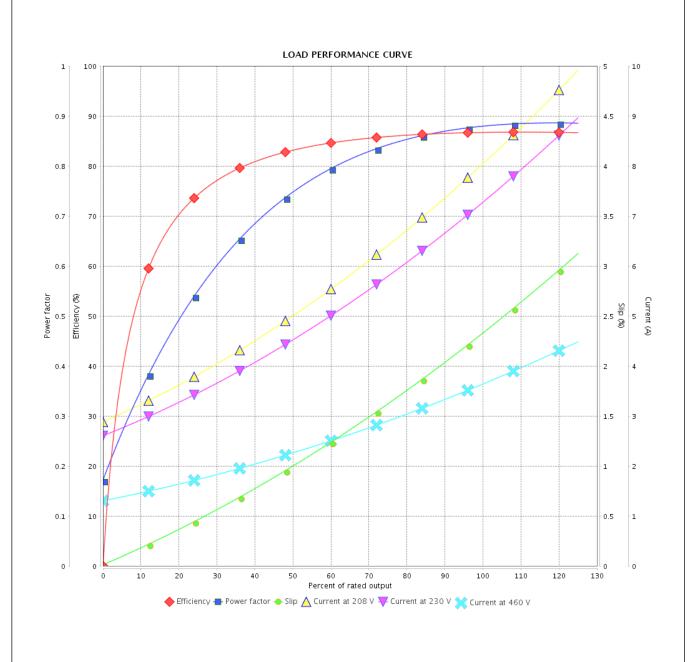


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598689

Phase

Catalog #: 00336ET3E182JM-W22



Performance	:	230/460 V 60 Hz 2P				
Rated current	:	: 7.26/3.63 A Mome		f inertia (J)	: 0.1889 sq.ft.l	b
LRC	:	8.6	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	4.48 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	250 %	Service fa	ctor	: 1.25	
Breakdown torque	:	360 %	Temperature rise		: 80 K	
Rated speed	:	3515 rpm	Design		: B	
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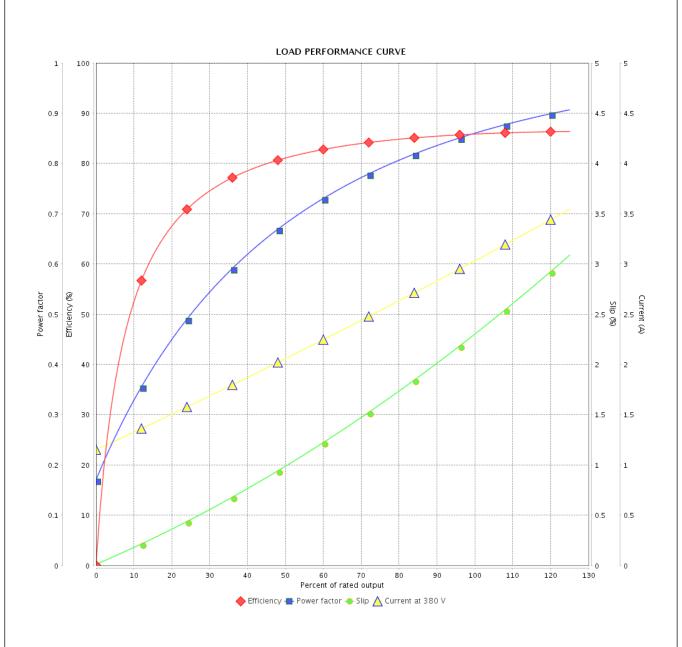
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Performance	: 3	80 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 9 : 3 jue : 3	6.09 A 6.6 6.58 ft.lb 610 % 40 % 930 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1889 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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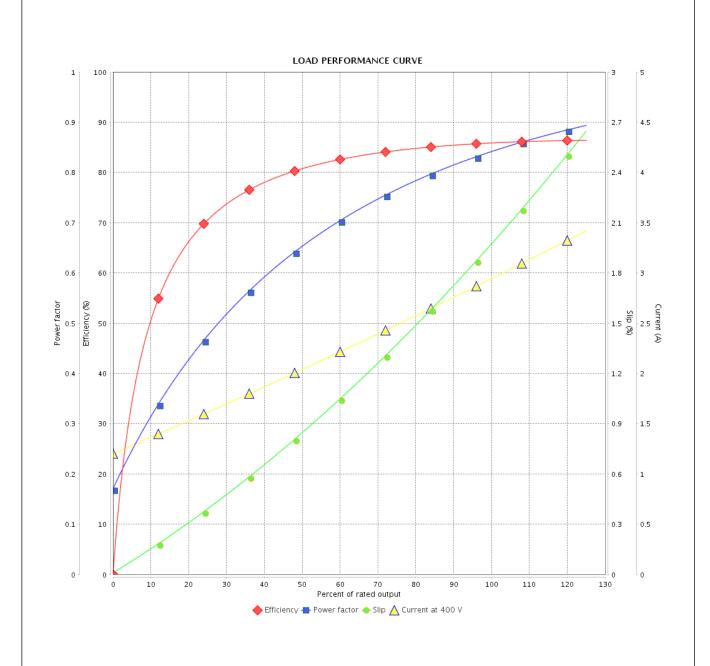


Customer

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Phase

Catalog #: 00336ET3E182JM-W22



Performance	: 4	00 V 50 Hz 2P IE3				
Rated current	: 3	: 3.00 A Mome		f inertia (J)	: 0.1889 sq.ft.lb	
LRC	:1	0.7	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 3	.57 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 3	60 %	Service fa	ctor	: 1.25	
Breakdown torqu	e : 5	00 %	% Temperature rise		: 80 K	
Rated speed	: 2	940 rpm	Design		: B	
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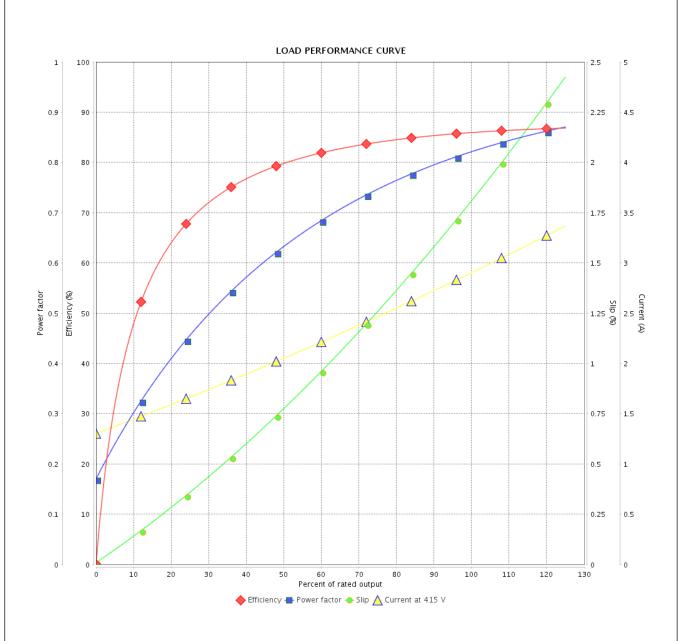
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Phase

Product code: 12598689

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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		: Cont.(S1)	
Rated torque	: 3.57 ft.lb	Insulation	class	: F	
Locked rotor torque	: 390 %	Service factor		: 1.25	
Breakdown torque	: 550 %	Temperature rise		: 80 K	
Rated speed	: 2945 rpm	Design		: B	
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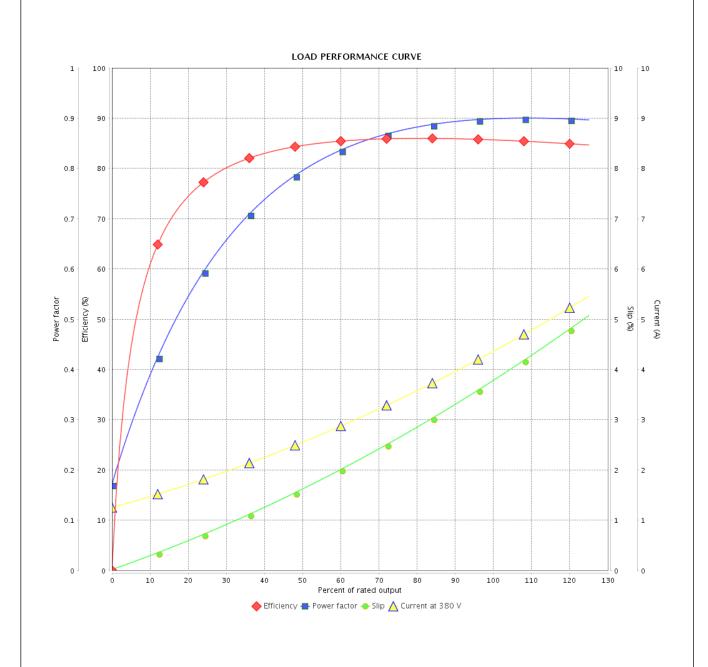
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

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	· ·					
Performance	Performance : 380 V 50 Hz 2P IE2					
Rated current	: 4.	34 A	Moment of	Moment of inertia (J)		.lb
LRC	: 6	8	Duty cycle	•	: Cont.(S1)	
Rated torque	: 5.	46 ft.lb	Insulation	class	: F	
Locked rotor torq	jue : 2	10 %	Service fa	ictor	: 1.25	
Breakdown torque		90 %	Temperat	Temperature rise		
Rated speed	: 28	385 rpm	Design		: B	
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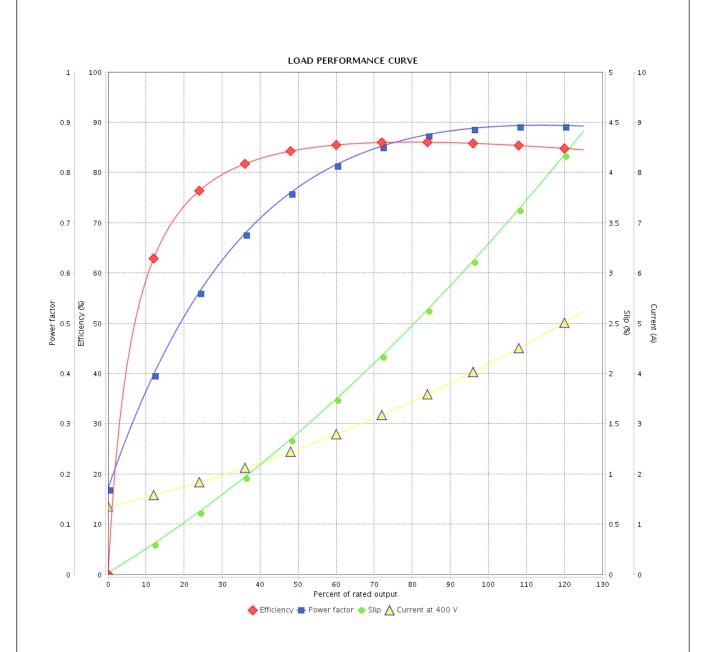
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				,	
Performance	: 400 V 50 Hz 2P IE2	: 400 V 50 Hz 2P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.17 A : 7.6 : 5.43 ft.lb : 240 % : 330 % : 2900 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1889 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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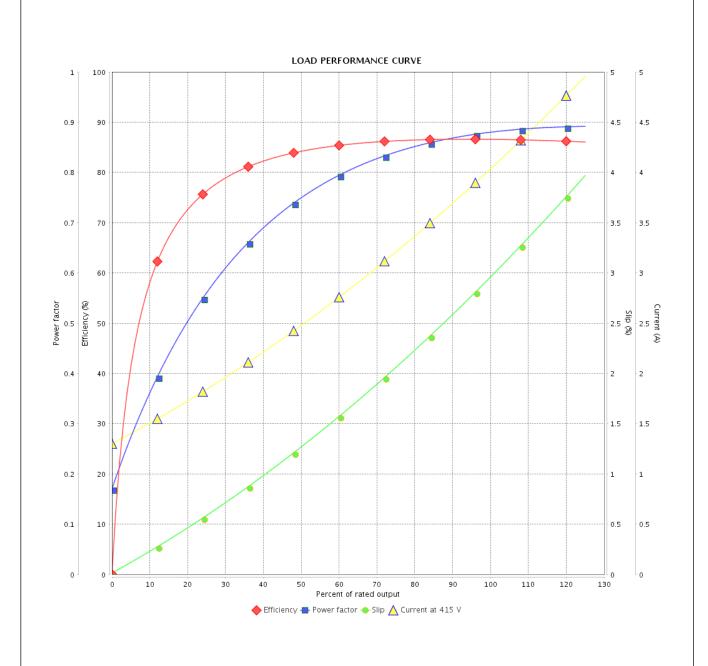
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598689

Phase

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.02 A : 8.1 : 5.41 ft.lb : 260 % : 360 % : 2910 rpm	Moment of in Duty cycle Insulation cla Service factor Temperature Design	ass or	: 0.1889 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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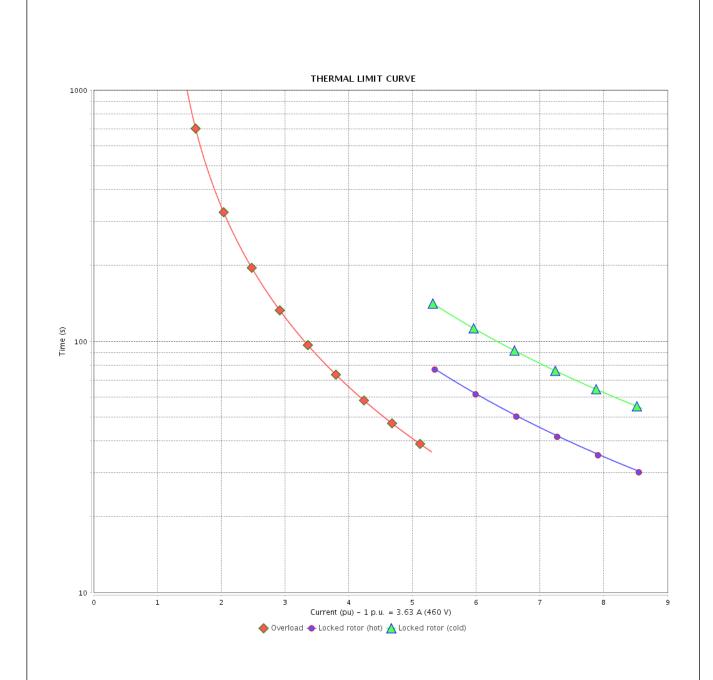


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598689 00336ET3E1	82JM-W22
Performance		: 230/460 V 60 Hz 2P				
Rated current LRC		: 7.26/3.63 A : 8.6	Moment of Duty cycle	of inertia (J) e	: 0.1889 sq.ft.l : Cont.(S1)	b
Rated torque		: 4.48 ft.lb : 250 %	Insulation Service fa	class	: F : 1.25	
Locked rotor tord Breakdown torqu		: 360 %	Temperat		: 1.25 : 80 K	
Rated speed		: 3515 rpm	Design		: B	
Heating constan						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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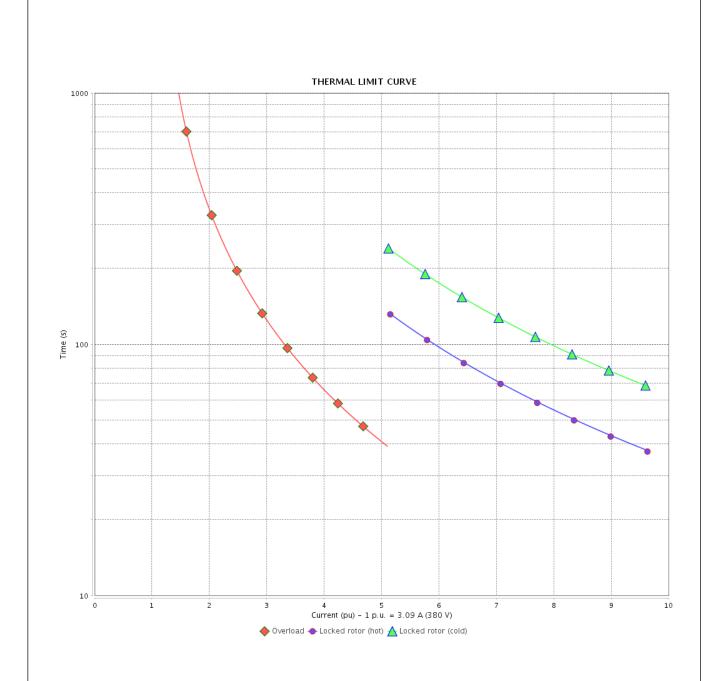


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Customer	:				
Product line	: NEMA Premium Efficien Phase	cy Three- Prod	duct code :	12598689	
	Phase	Cata	alog # :	00336ET3E	182JM-W22
Performance	: 380 V 50 Hz 2P IE3	Merrantics	utio (1)	. 0 4000	II.
Rated current LRC	: 3.09 A : 9.6	Moment of ine Duty cycle		: 0.1889 sq.ft : Cont.(S1)	u
Rated torque	: 3.58 ft.lb	Insulation clas		: F	
Locked rotor torque Breakdown torque	: 310 % : 440 %	Service factor Temperature r		: 1.25 : 80 K	
Rated speed	: 2930 rpm	Design		: B	
Heating constant					
Cooling constant					
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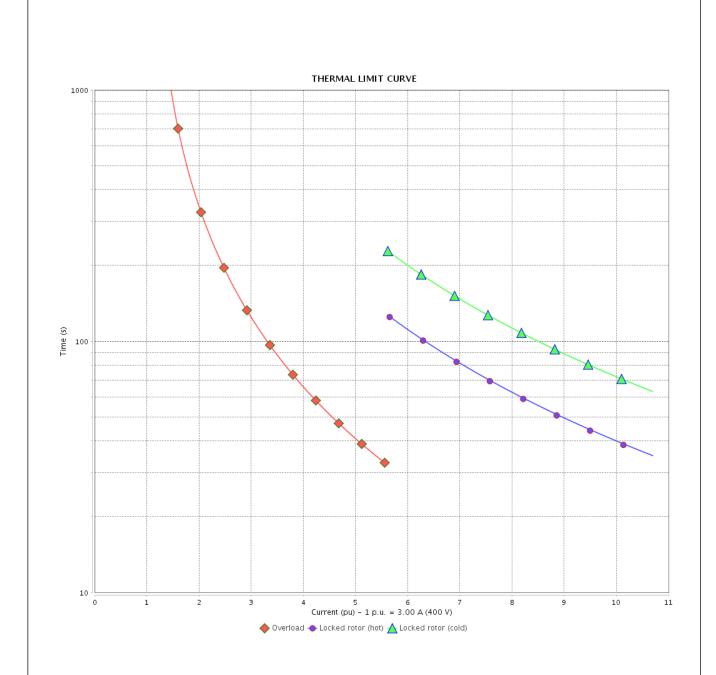


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Product line		NEMA Premium Efficiency	Three-	Product code :	12598689	
	P	hase		Catalog # :	00336ET3E1	82JM-W22
Performance	: 40	00 V 50 Hz 2P IE3	<del>.</del>			
Rated current	: 3.	.00 A	Moment o	f inertia (J)	: 0.1889 sq.ft.l	b
LRC Rated torque	: 10 : 3.	0.7 .57 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 36	60 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		00 % 940 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant		•				
Cooling constant						
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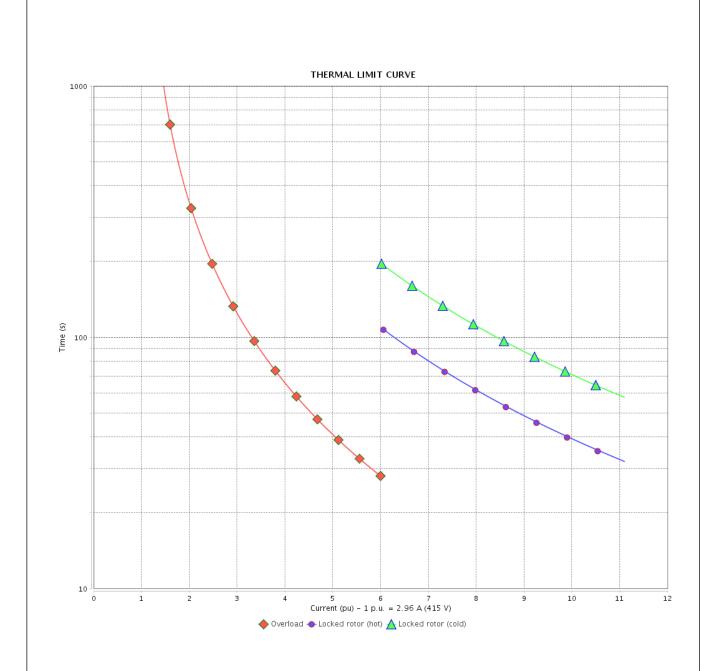


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Product line	: NEMA Premium Efficiency T Phase	Three- Product code :  Catalog # :	12598689 00336ET3E182JN	4 VV/22
		Oddiog # .	33302 102 1020W	
Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 2.96 A	Moment of inertia (J)	: 0.1889 sq.ft.lb	
LRC Rated torque	: 11.1 : 3.57 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 390 %	Service factor	: 1.25	
Breakdown torque Rated speed	: 550 % : 2945 rpm	Temperature rise Design	: 80 K : B	
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Heating constant Cooling constant				
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### Three Phase Induction Motor - Squirrel Cage

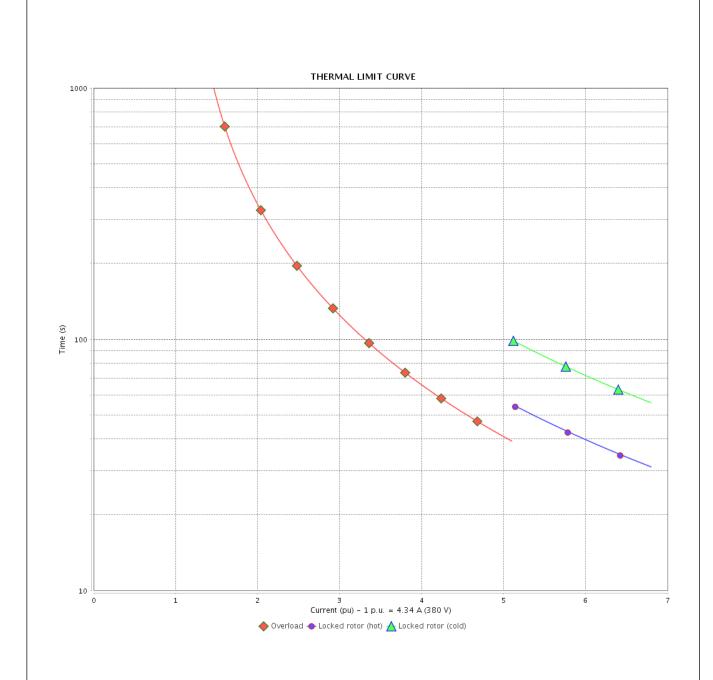


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598689 00336ET3E1	82JM-W22
Performance		: 380 V 50 Hz 2P IE2				
Rated current		: 4.34 A	Moment o	of inertia (J)	: 0.1889 sq.ft.ll	b
LRC Rated torque		: 6.8 : 5.46 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 210 %	Service fa	actor	: 1.25	
Breakdown torqu Rated speed		: 290 % : 2885 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant	t					
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### Three Phase Induction Motor - Squirrel Cage

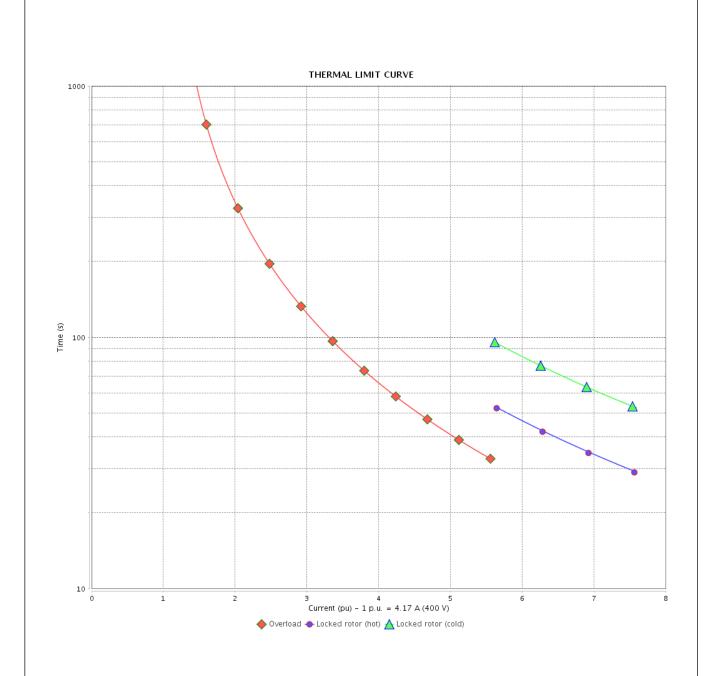


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	12598689	
	Phase		Catalog # :	00336ET3E1	92 IM M/22
			Catalog # .	00330E13E1	OZJIVI-VVZZ
Performance	: 400 V 50 Hz 2P IE2	T-			
Rated current LRC	: 4.17 A : 7.6	Moment o	f inertia (J)	: 0.1889 sq.ft.l	b
Rated torque	: 5.43 ft.lb	Insulation	class	: Cont.(S1) : F	
Locked rotor torque	: 240 %	Service fa		: 1.25	
Breakdown torque Rated speed	: 330 % : 2900 rpm	Temperatu Design	are rise	: 80 K : B	
Heating constant	·				
Cooling constant					
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### Three Phase Induction Motor - Squirrel Cage



Customer



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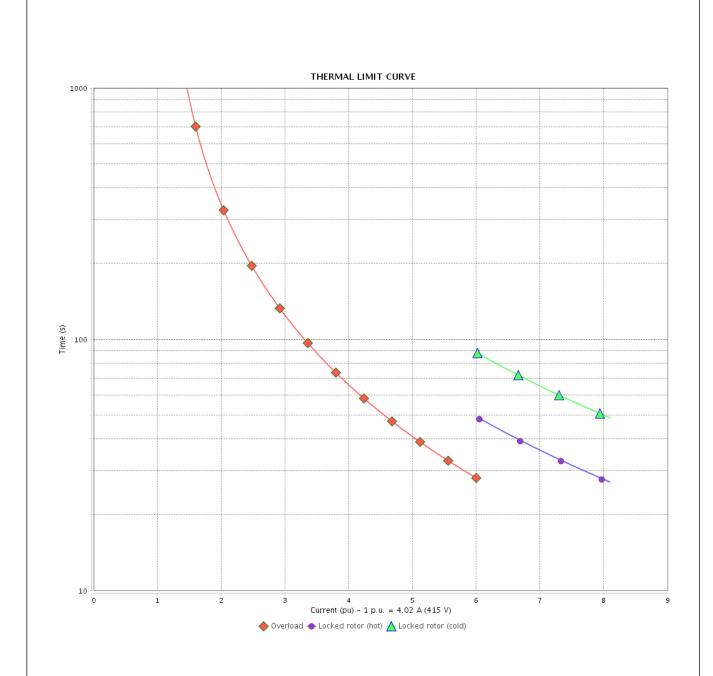


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598689 00336ET3E1	82JM-W22
Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque		: 4.02 A : 8.1 : 5.41 ft.lb	Duty cycle Insulation	class	: 0.1889 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord Breakdown tord	ue	: 260 % : 360 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 2910 rpm	Design		: B	
Heating constan Cooling constan						
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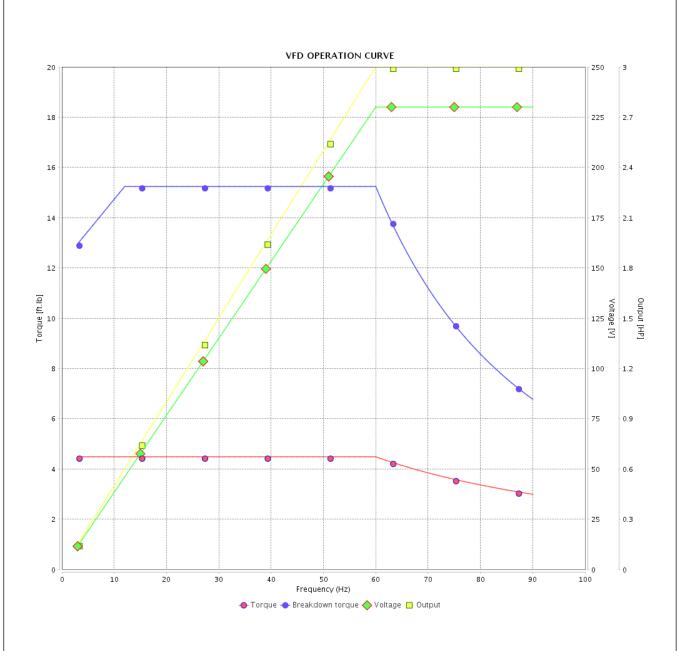
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12598689

Catalog #: 00336ET3E182JM-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 : 4.48 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

#### Three Phase Induction Motor - Squirrel Cage



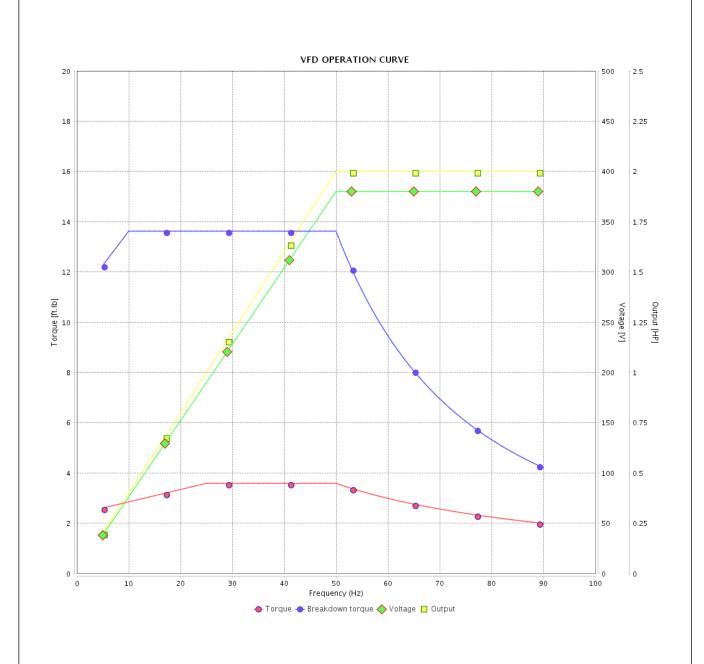
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598689

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			: 1.25 : 80 K	lb
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Product line : NEMA Premium Efficiency Three-

Phase

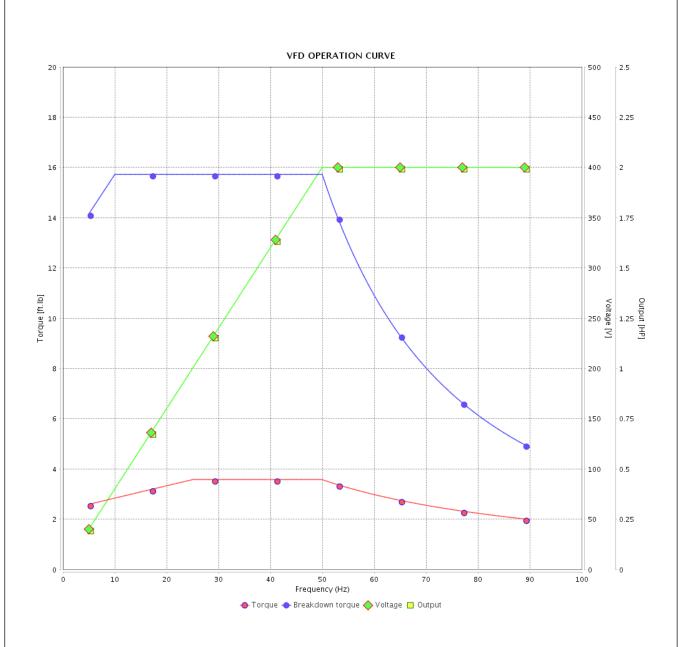
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Desferre	. 400 \/ 50 LI= 0D IE2		<u> </u>	
Performance	: 400 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.00 A : 10.7 : 3.57 ft.lb : 360 % : 500 % : 2940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1889 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

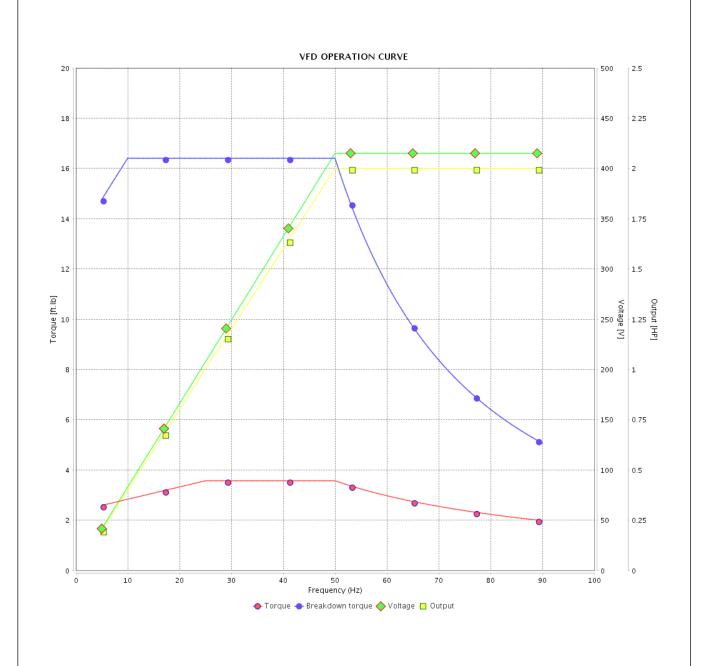


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598689

Phase

Catalog #: 00336ET3E182JM-W22



Performance	:	415 V 50 Hz 2P IE3				
Rated current	:	: 2.96 A Moment of inertia (J)		f inertia (J)	: 0.1889 sq.ft.lb	
LRC	:	11.1	Duty cycle	<b>)</b>	: Cont.(S1)	
Rated torque	:	3.57 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	390 %	Service fa	ctor	: 1.25	
Breakdown torque	:	550 %	Temperature rise		: 80 K	
Rated speed	:	2945 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

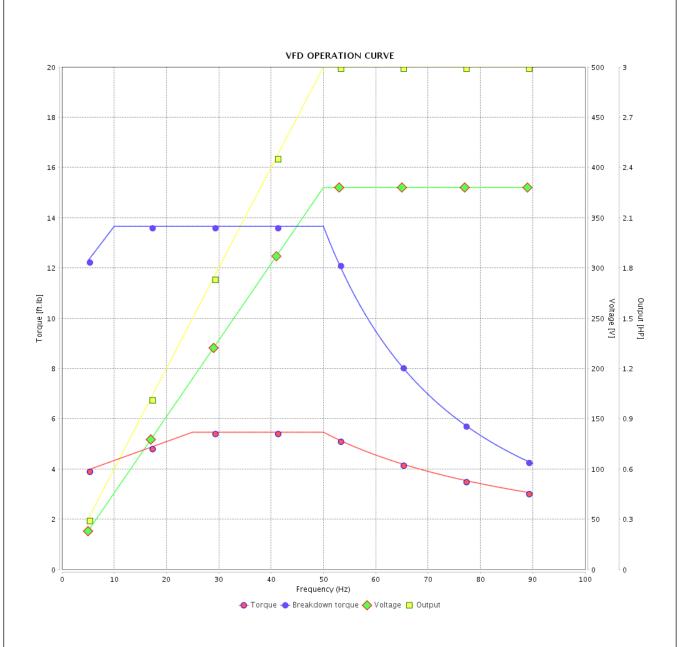
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Performance	:	380 V 50 Hz 2P	IE2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	4.34 A 6.8 5.46 ft.lb 210 % 290 % 2885 rpm	Moment of Duty cycl Insulation Service for Temperation	n class actor	: 0.1889 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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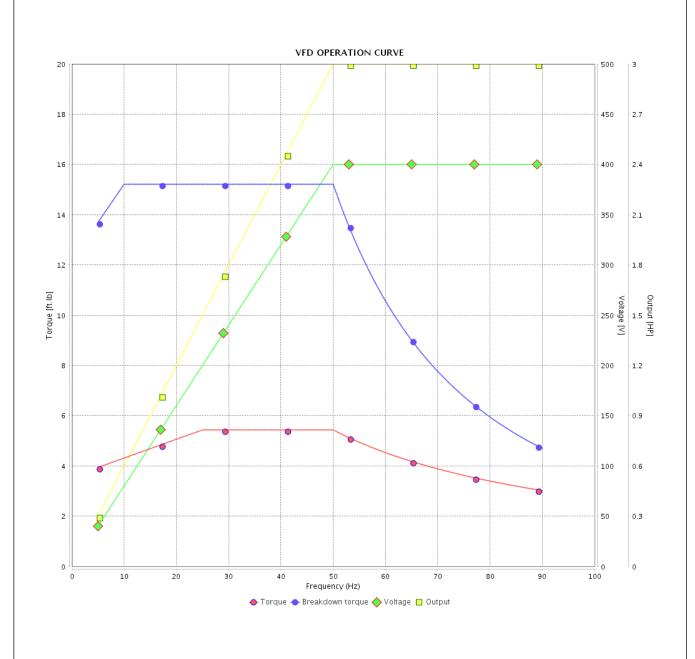


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Product line : NEMA Premium Efficiency Three- Product code : 12598689

Phase

Catalog #: 00336ET3E182JM-W22



Performance	: 4	00 V 50 Hz 2P IE2				
Rated current	: 4	: 4.17 A Mom		f 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 torqu	ue : 2	40 %	Service fa	ctor	: 1.25	
Breakdown torque	e : 3	30 %	Temperature rise		: 80 K	
Rated speed	: 2	900 rpm	Design		: B	
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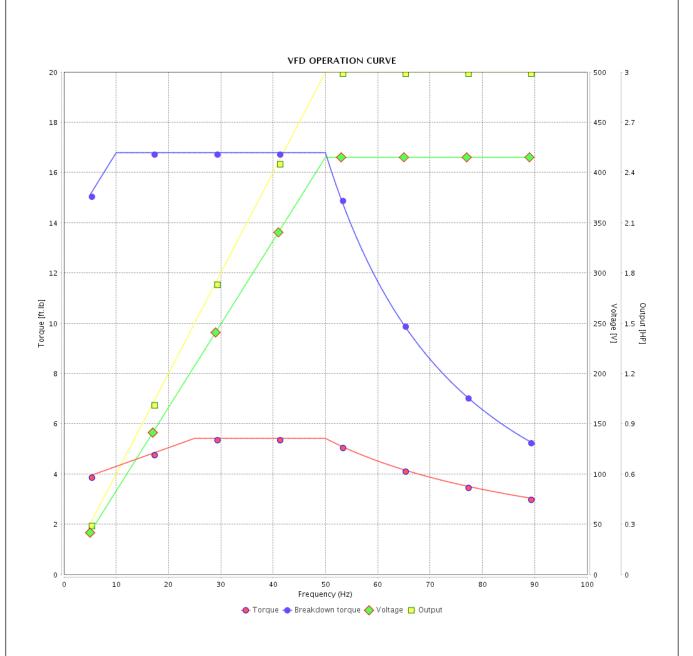
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12598689

Catalog #: 00336ET3E182JM-W22



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 4.	: 4.02 A Mon		Moment of inertia (J)		.lb
LRC	: 8.	.1	Duty cycle	9	: Cont.(S1)	
Rated torque	: 5.	.41 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 26	60 %	Service fa	ictor	: 1.25	
Breakdown torqu	ie : 36	60 %	0 % Temperature rise		: 80 K	
Rated speed	: 29	: 2910 rpm Design			: B	
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