DATA SHEET

Three Phase Induction Motor - Squirrel Cage



60

50

0.83

Customer

Product line : NEMA Premium Efficiency Three-Product code: 11901221

Catalog #: 06018ET3E364JM-W22

Frame : 364/5JM Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight3 Altitude : 899 lb

Protection degree : IP55 Moment of inertia (J) : 22.4 sq.ft.lb

Design : B Output [HP] 60 50 50 50 60 60 Poles 4 4 4 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 230/460 400 380 400 380 415 415 Rated current [A] 143/71.6 86.5 82.6 71.0 69.1 67.4 80.2

L. R. Amperes [A] 888/444 450 447 477 499 479 497 6.2x(Code 6.3x(Code | 6.9x(Code H) 7.4x(Code J) 5.2x(Code E) 5.8x(Code F) | 6.2x(Code LRC [A] G) G) G) No load current [A] 52.0/26.0 25.0 27.5 30.0 23.8 25.3 30.0 Rated speed [RPM] 1780 1480 1480 1485 1470 1475 1480 2.00 Slip [%] 1.11 1.33 1.33 1.00 1.67 1.33 Rated torque [ft.lb] 177 177 177 177 214 214 213

Locked rotor torque [%] 220 200 220 240 160 180 200 Breakdown torque [%] 200 240 240 260 280 210 229 1.00 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 80 K 105 K Temperature rise 80 K 80 K 80 K 105 K 105 K 18s (cold) Locked rotor time 27s (cold) 18s (cold) 18s (cold) 18s (cold) 18s (cold) 18s (cold) 15s (hot) 10s (hot) 10s (hot) 10s (hot) 10s (hot) 10s (hot) 10s (hot) Noise level² 67.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A)

63.0 dB(A) 25% 93.5 93.3 92.9 93.2 94.5 94.0 94.0 50% 94.1 93.7 93.3 93.4 94.1 94.1 94.1 Efficiency (%) 75% 94.5 93.9 93.9 94.2 93.6 93.6 94.1 100% 94.2 95.0 94.2 94.3 93.0 93.6 94.1 25% 0.46 0.47 0.43 0.40 0.53 0.49 0.45 50% 0.71 0.71 0.68 0.65 0.76 0.73 0.70 Power Factor 75% 0.80 0.80 0.78 0.76 0.82 0.81 0.80

100% 0.83 0.84 0.82 0.81 0.85 0.84 Drive end Non drive end Foundation loads Bearing type 6314 C3 6314 C3 Max. traction : 1226 lb

Lip Seal Lip Seal : 2126 lb Sealing Max. compression 12000 h Lubrication interval 12000 h

Mobil Polyrex EM

27 g

27 g

Notes

Lubricant amount

Lubricant type

USABLE @208V 151A SF 1.10 SFA 166A

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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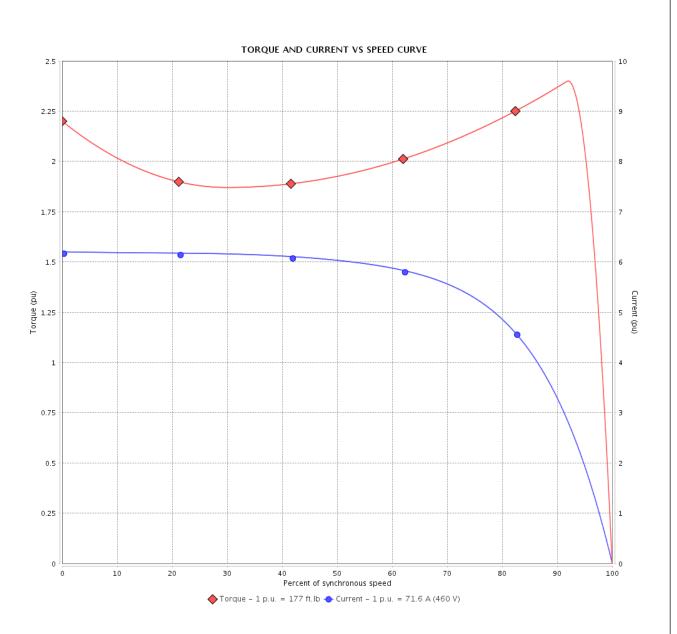
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11901221

Catalog #: 06018ET3E364JM-W22



Performance	: 230/460 V 60 Hz 4P			
Rated current	: 143/71.6 A	Moment of inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6.2	Duty cycle	: Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.25	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1780 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			

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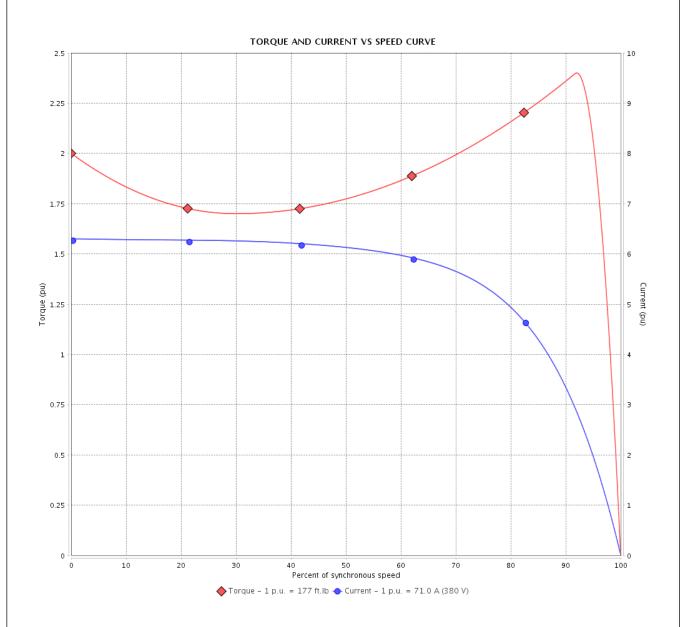


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11901221

Phase

Catalog #: 06018ET3E364JM-W22



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 71.0 A	Moment of inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6.3	Duty cycle	: Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation class	:F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
Locked rotor time	: 18s (cold) 10s (hot)		.	

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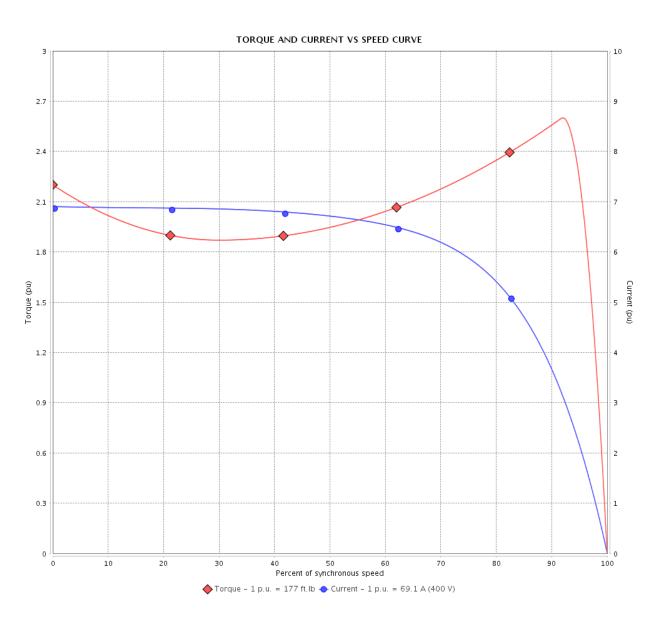
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11901221

Phase

Catalog #: 06018ET3E364JM-W22

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Performance	: 400 V 50 Hz 4P IE3			
Rated current	: 69.1 A	Moment of inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6.9	Duty cycle	: Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
Locked rotor time	: 18s (cold) 10s (hot)			

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11901221 Catalog #: 06018ET3E364JM-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. = 177 ft.lb ◆ Current - 1 p.u. = 67.4 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 67.4 A Moment of inertia (J) : 22.4 sq.ft.lb **LRC** : 7.4 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Locked rotor time : 18s (cold) 10s (hot) Date Performed Checked Rev. **Changes Summary**

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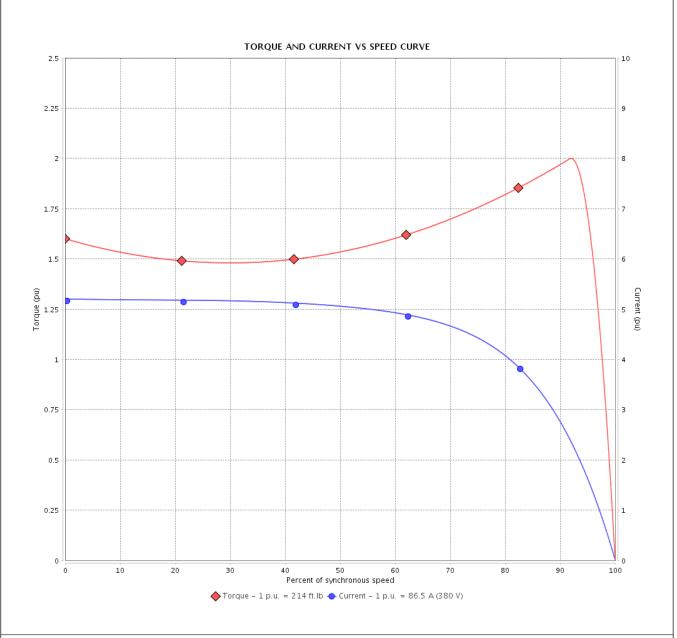
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11901221

Catalog #: 06018ET3E364JM-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 86.5 A Moment of inertia (J) : 22.4 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 214 ft.lb : F Service factor Locked rotor torque : 160 % : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B

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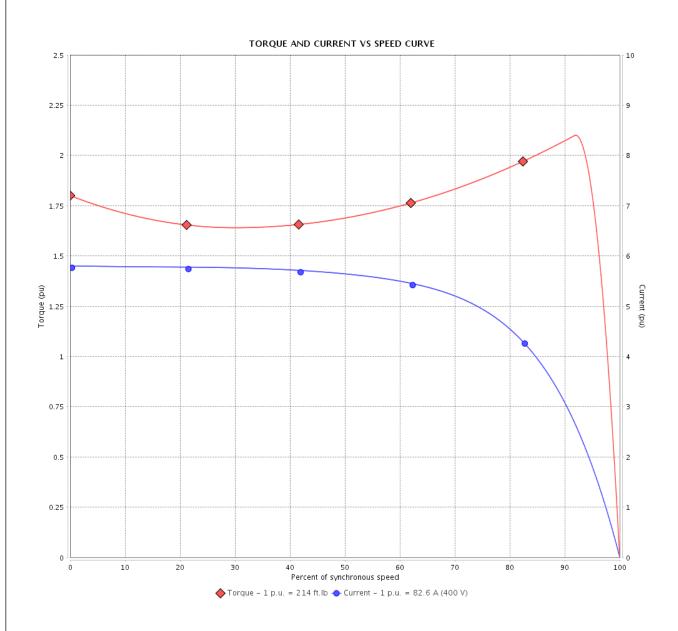


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11901221

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Catalog #: 06018ET3E364JM-W22



Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 82.6 A	Moment of inertia (J)	: 22.4 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 1475 rpm	Design	: B
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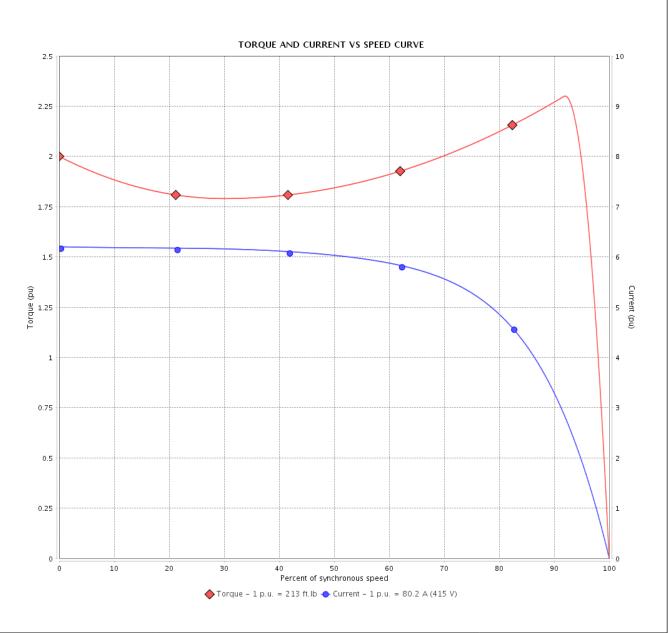
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Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11901221

Catalog #: 06018ET3E364JM-W22



Performance	: 415 V 50 Hz 4P IE2		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 80.2 A : 6.2 : 213 ft.lb : 200 % : 229 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B

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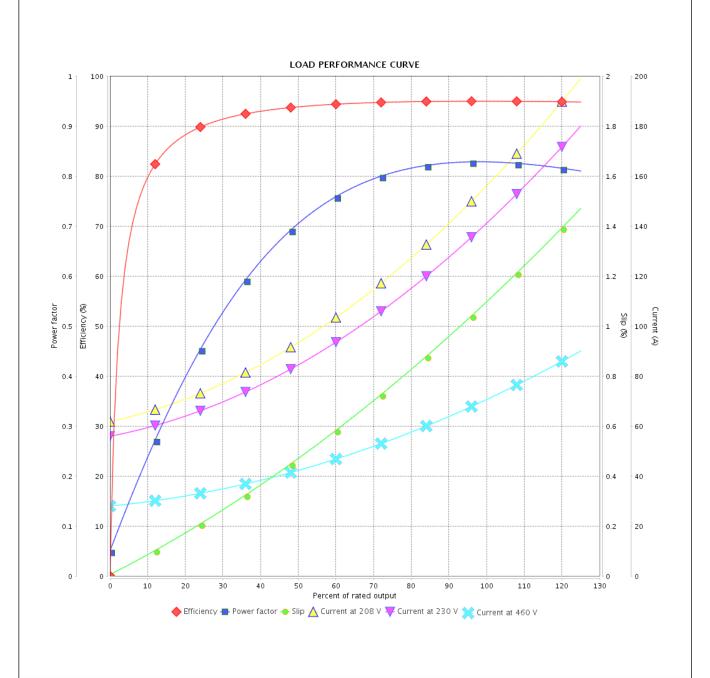


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Product line : NEMA Premium Efficiency Three- Product code : 11901221

Phase

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Performance	: 2	30/460 V 60 Hz 4P				
Rated current	: 1	43/71.6 A Moment of inertia (J)		: 22.4 sq.ft.lb		
LRC	: 6	.2	Duty cycle	е	: Cont.(S1)	
Rated torque	:1	77 ft.lb	Insulation	class	: F	
Locked rotor tord	jue : 2	20 %	Service fa	actor	: 1.25	
Breakdown torqu	ie : 2	: 240 % : 1780 rpm		Temperature rise Design		
Rated speed	: 1					
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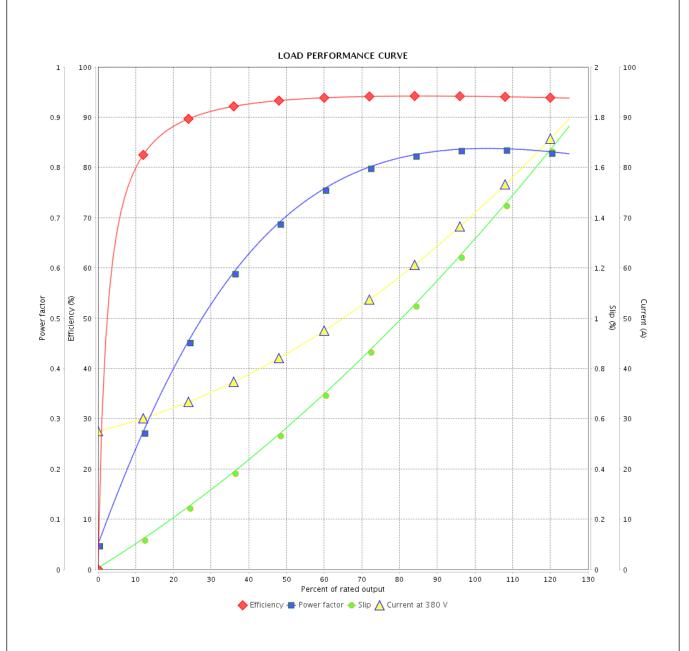
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Phase

Product code: 11901221

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Performance : 380 V 50 Hz 4P IE3 Rated current : 71.0 A				·			
LRC : 6.3 Duty cycle : Cont.(S1) Rated torque : 177 ft.lb Insulation class : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Rev. Changes Summary Performed Checked Date Performed by	Performance	::	80 V 50 Hz 4P IE3				
Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Rev. Changes Summary Performed Checked Date Performed by	LRC	C : 6.3 Duty cycle		e	: Cont.(S1)		
Rated speed : 1480 rpm Design : B Rev. Changes Summary Performed Checked Date Performed by	Locked rotor tord	ocked rotor torque : 200 % Service factor		ictor	: 1.00		
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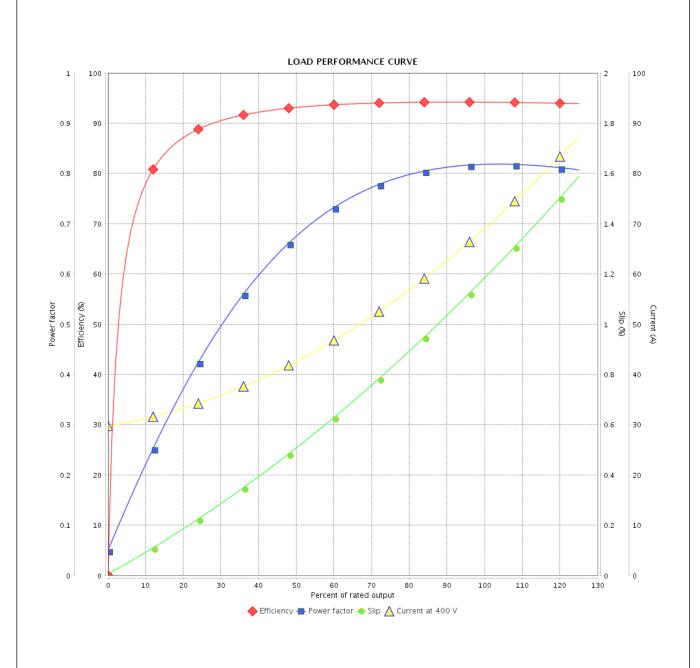


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11901221

Phase

Catalog #: 06018ET3E364JM-W22



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current	current : 69.1 A		Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6	6.9	Duty cycle	}	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	220 %	Service fa	ctor	: 1.00	
Breakdown torque	Breakdown torque : 260 %		Temperatu	Temperature rise		
Rated speed	: 1	480 rpm	Design		: B	
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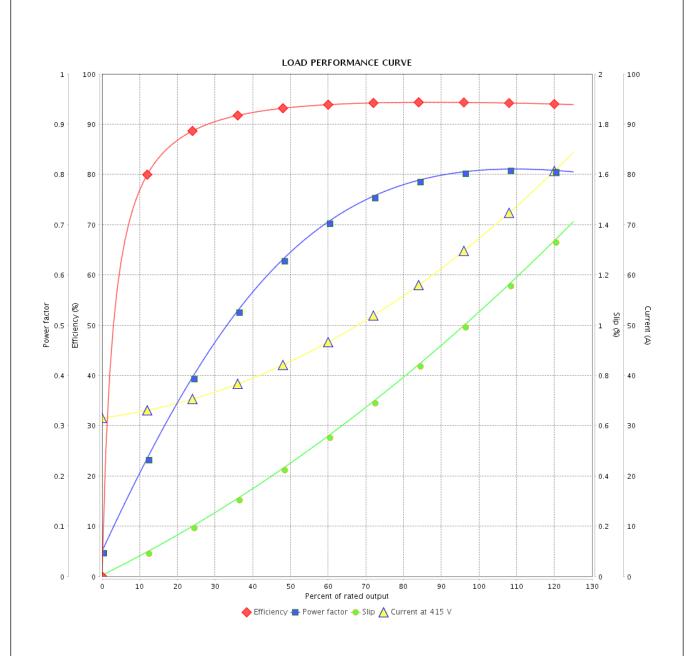
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Phase

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Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 67.4 A : 7.4 : 177 ft.lb : 240 % : 280 % : 1485 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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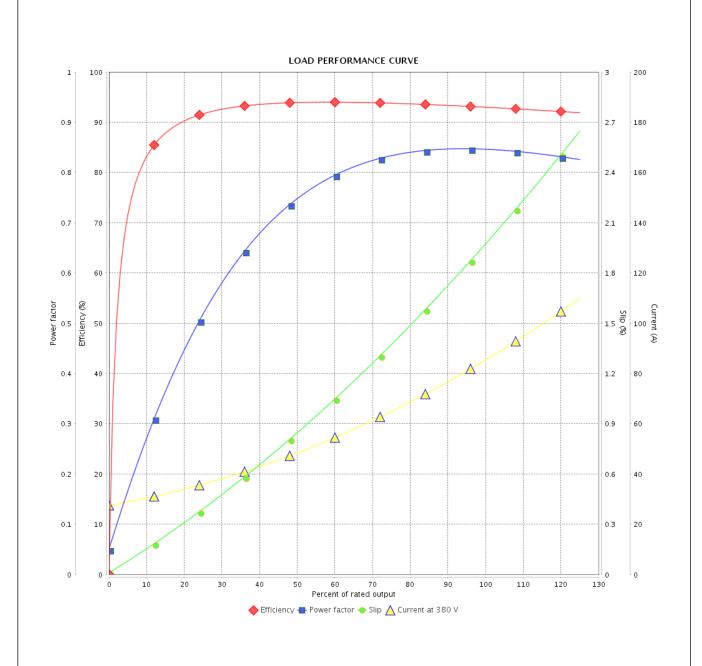


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11901221

Phase

Catalog #: 06018ET3E364JM-W22



Performance	: 3	80 V 50 Hz 4P IE1				
Rated current	: 8	: 86.5 A		f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 5	5.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	14 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	60 %	Service fa	ctor	: 1.00	
Breakdown torque	reakdown torque : 200 %		Temperati	Temperature rise		
Rated speed	: 1	470 rpm	Design		: B	
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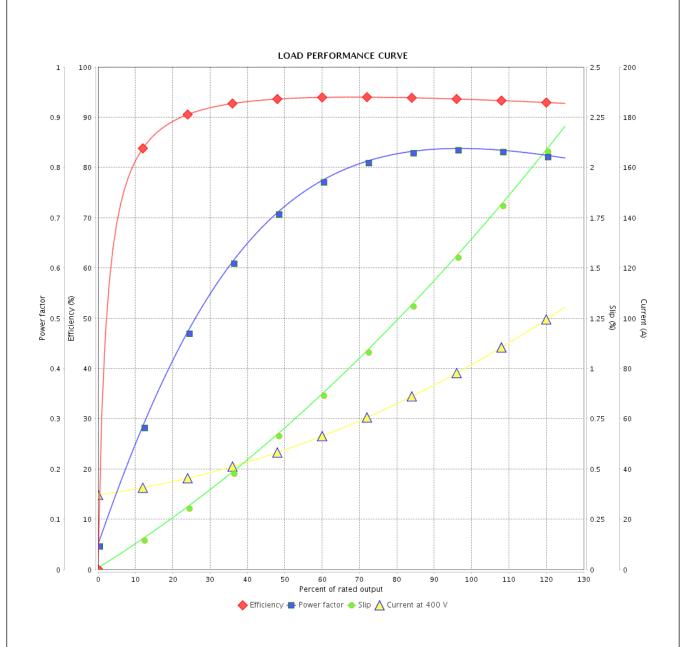
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11901221

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Performance	: 400 V 50 Hz 4P IE2				
Rated current : 82.6 A LRC : 5.8 Rated torque : 214 ft.lb Locked rotor torque : 180 % Breakdown torque : 210 % Rated speed : 1475 rpm		Moment of inertia (J) : 22.4 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 105 K Design : B		: F : 1.00 : 105 K	
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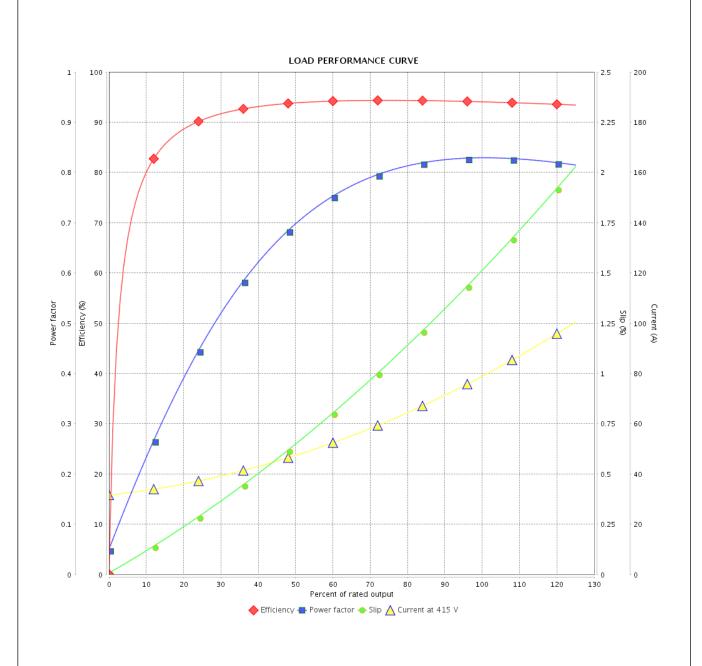


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Product line : NEMA Premium Efficiency Three- Product code : 11901221

Phase

Catalog #: 06018ET3E364JM-W22



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	: 80.2 A		Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6	5.2	Duty cycle	}	: Cont.(S1)	
Rated torque	: 2	13 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torque	Breakdown torque : 229 %		Temperatu	Temperature rise		
Rated speed	: 1	480 rpm	Design		: B	
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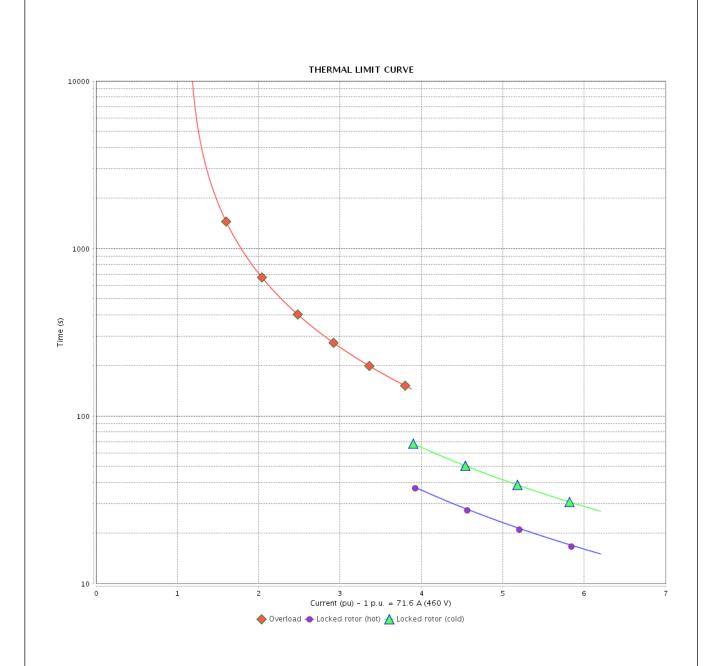


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Product line		NEMA Promium Efficier	Three	Product code :	11901221	
Product line		: NEMA Premium Efficiency [·] Phase			11901221	
				Catalog # :	06018ET3E36	64JM-W22
Performance	::	230/460 V 60 Hz 4P				
Rated current		143/71.6 A	Moment	of inertia (J)	: 22.4 sq.ft.lb	
LRC Rated torque		6.2 177 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que ::	220 %	Service fa	actor	: 1.25	
Breakdown torqu Rated speed		240 % 1780 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant Cooling constant						
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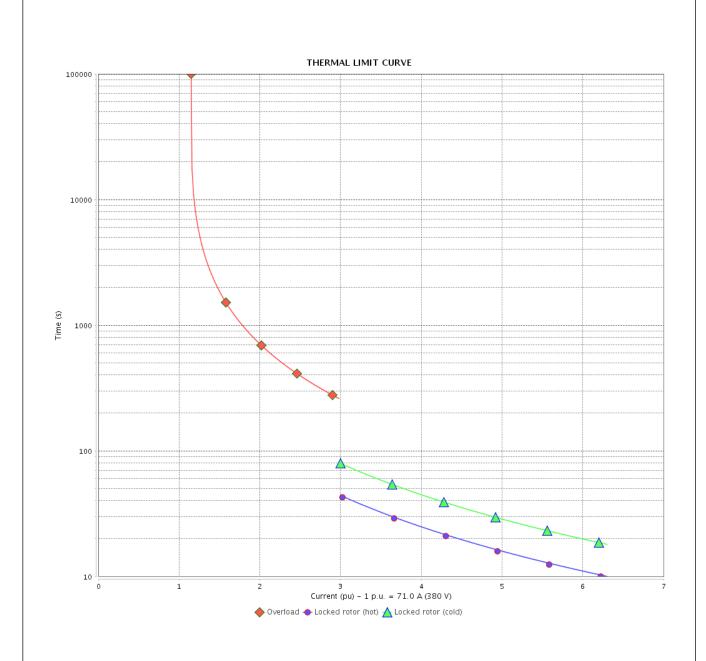


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11901221 06018ET3E36	64JM-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC		: 71.0 A : 6.3	Moment of Duty cycle	of inertia (J)	: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque		: 177 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 240 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 1480 rpm	Design	are fide	: B	
Heating constan						
Cooling constant	t					
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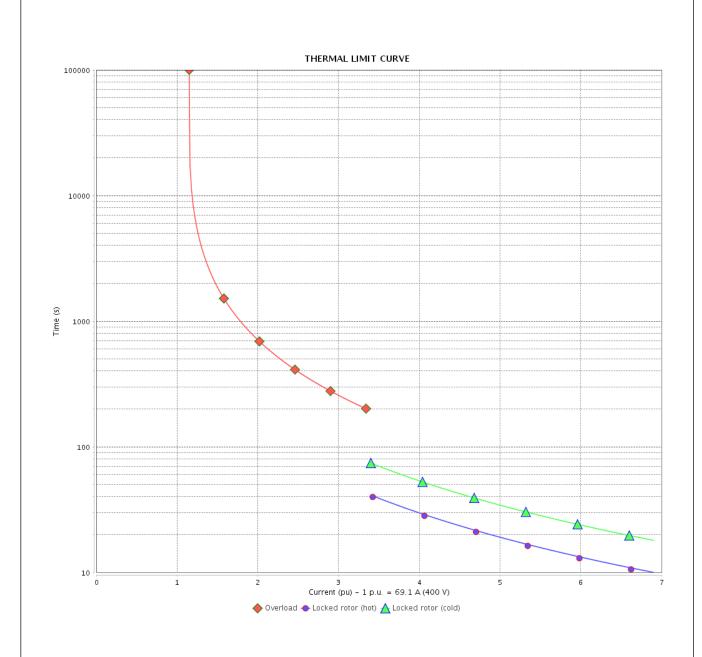


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Product line		NEMA Premium Efficiency	Three-	Product code :	11901221	
	Pi	hase		Catalog # :	06018ET3E3	64JM-W22
Performance		00 V 50 Hz 4P IE3	Manageta	finantia (1)	. 22 4 55 # 16	
Rated current LRC	: 6s : 6.	9.1 A 9	Duty cycle	f inertia (J)	: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque		77 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		20 % 60 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		480 rpm	Design		: B	
Heating constant						
Cooling constant						
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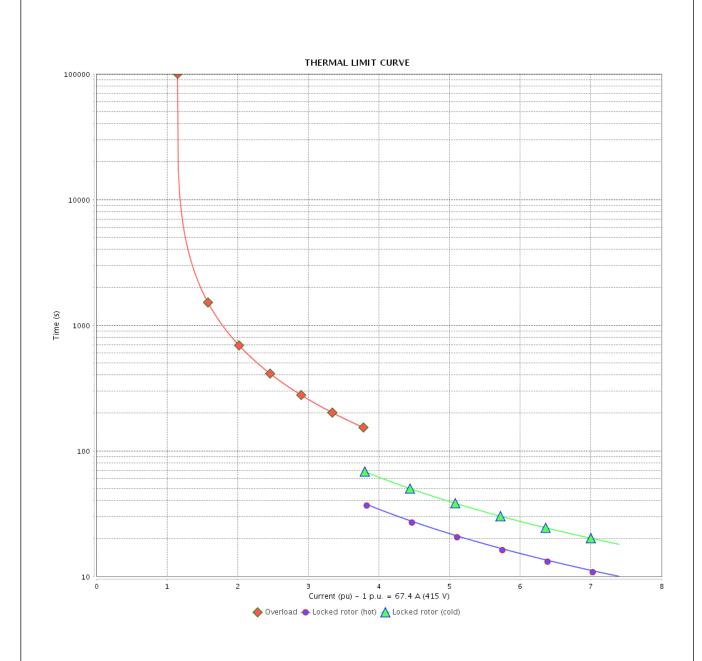


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	11901221	
	Phase	(Catalog # :	06018ET3E3	64JM-W22
Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC	: 67.4 A : 7.4	Moment of Duty cycle	f inertia (J)	: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque	: 177 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 240 % : 280 %	Service fa		: 1.00 : 80 K	
Rated speed	: 1485 rpm	Design	110 110C	: B	
Heating constant					
Cooling constant					
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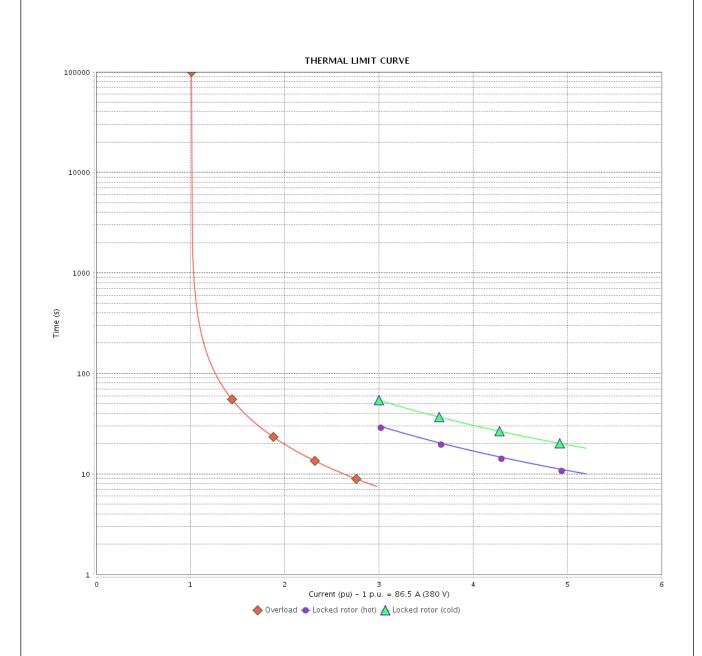


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11901221 06018ET3E36	64JM-W22
Performance		: 380 V 50 Hz 4P IE1				
Rated current LRC		: 86.5 A : 5.2	Moment of Duty cycle	of inertia (J)	: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque		: 214 ft.lb	Insulation	class	: F	
Locked rotor tord		: 160 % : 200 %	Service fa		: 1.00 : 105 K	
Breakdown torqu Rated speed		: 200 % : 1470 rpm	Temperat Design	uic lisc	: 105 K	
Heating constan						
Cooling constan	t					
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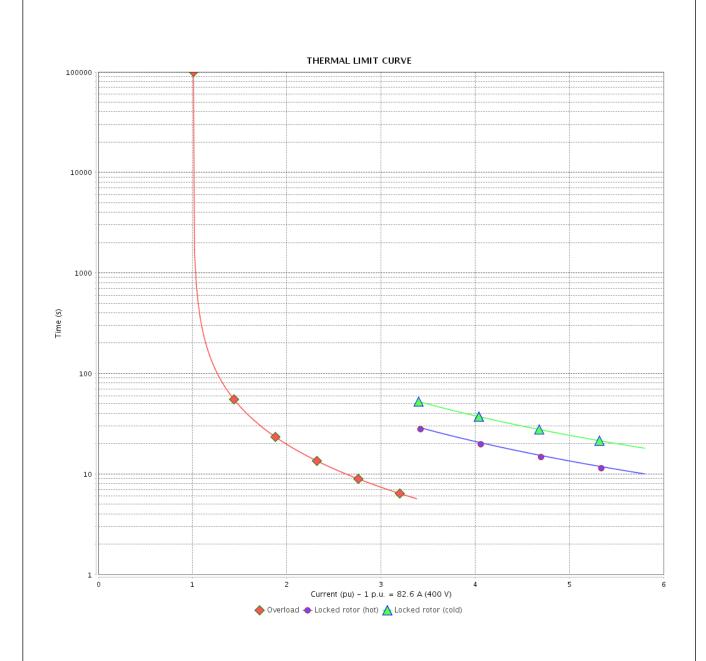


Customer	<u> </u>				
	•				
Product line	: NEMA Premium Efficiency	Three-	Product code :	11901221	
	Phase		Catalog # :	06018ET3E36	64JM-W22
Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC	: 82.6 A : 5.8	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
Rated torque	: 214 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque Breakdown torque	: 180 % : 210 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed	: 1475 rpm	Design	21 C 113C	: 105 K : B	
Heating constant					
Cooling constant					
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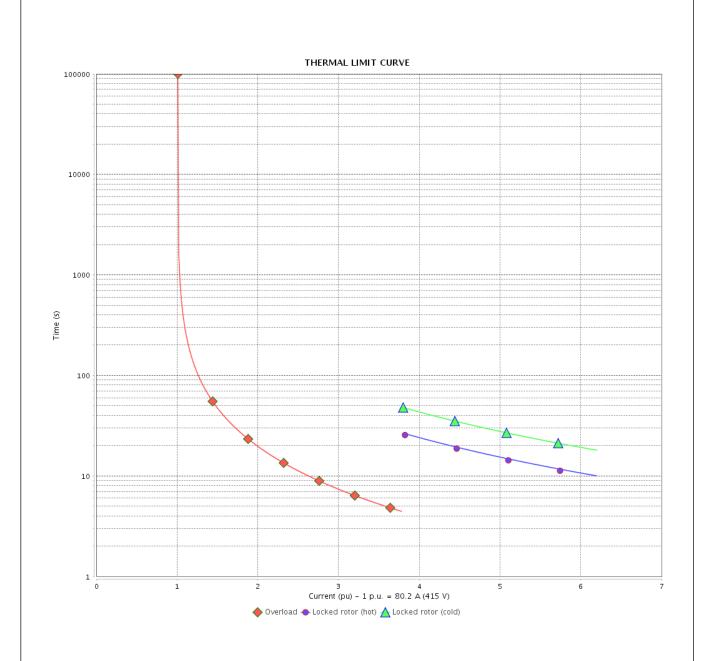


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11901221 06018ET3E36	64JM-W22
Performance		: 415 V 50 Hz 4P IE2		6 1 (1) (1)		
Rated current LRC		: 80.2 A : 6.2	Duty cycle		: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque		: 213 ft.lb : 200 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		: 200 % : 229 %	Temperat		: 1.00 : 105 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constant						
Cooling constant	t 	Changes Comes		Doutour	Chaskad	Data
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Product line : NEMA Premium Efficiency Three-

Phase

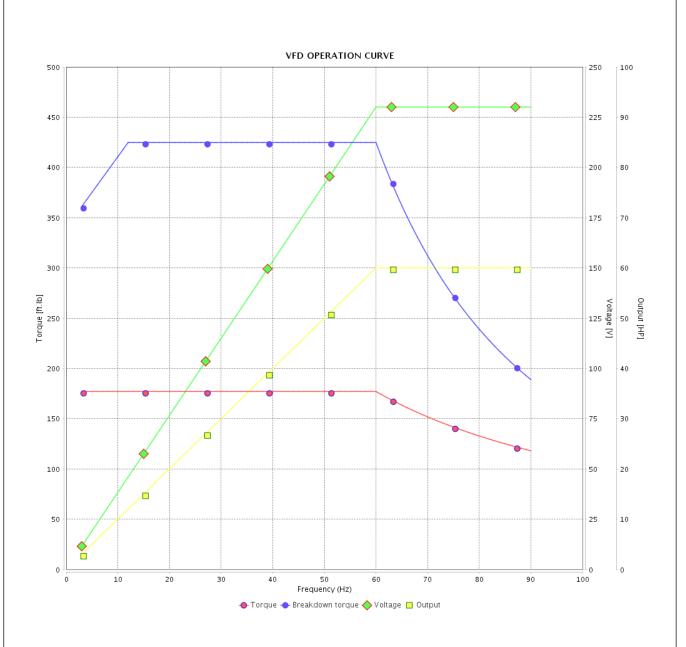
Product code: 11901221

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Performance : 230/460 V 60 Hz 4P : 143/71.6 A Rated current Moment of inertia (J) : 22.4 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 Insulation class : 177 ft.lb : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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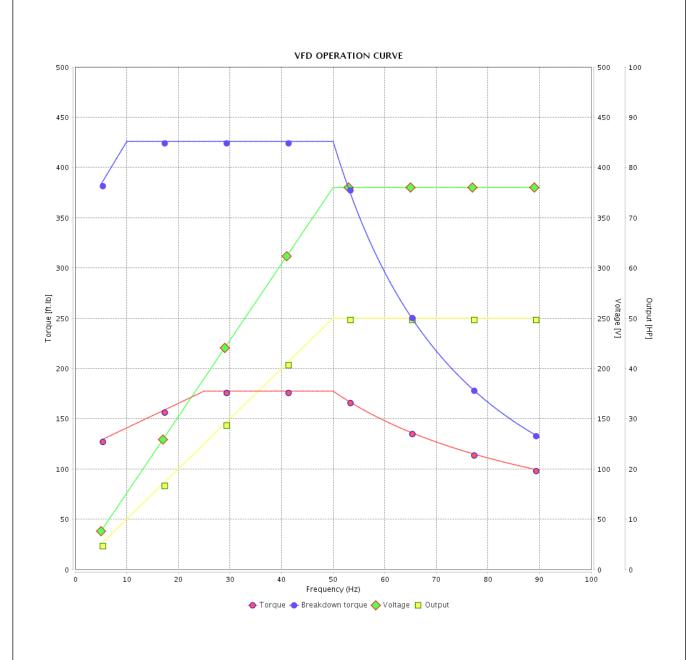
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Performance	: 380 V 50 Hz 4P IE3				
Rated current : 71.0 A Moment of inertia (J) RC : 6.3 Duty cycle Rated torque : 177 ft.lb Insulation class ocked rotor torque : 200 % Service factor reakdown torque : 240 % Temperature rise Rated speed : 1480 rpm Design		lass	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
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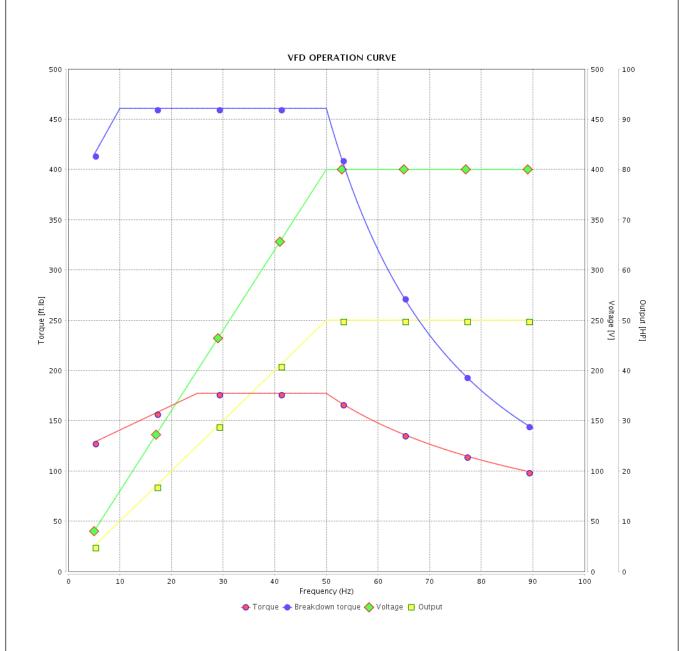
Product line : NEMA Premium Efficiency Three-

Phase

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Performance		: 400 V 50 Hz 4P I	E3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 69.1 A : 6.9 : 177 ft.lb : 220 % : 260 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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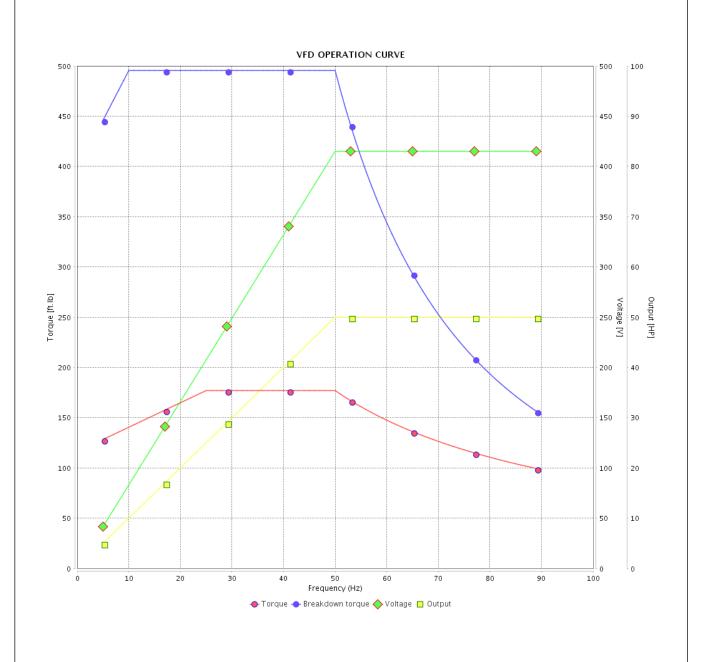


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Performance	:	: 415 V 50 Hz 4P IE3				
Rated current	:	67.4 A	Moment of	f inertia (J)	: 22.4 sq.ft.lb	
LRC	:	7.4	Duty cycle)	: Cont.(S1)	
Rated torque	:	177 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	240 %	Service fa	ctor	: 1.00	
Breakdown torque	:	: 280 % Temperature		ure rise	: 80 K	
Rated speed	:	1485 rpm	Design		: B	
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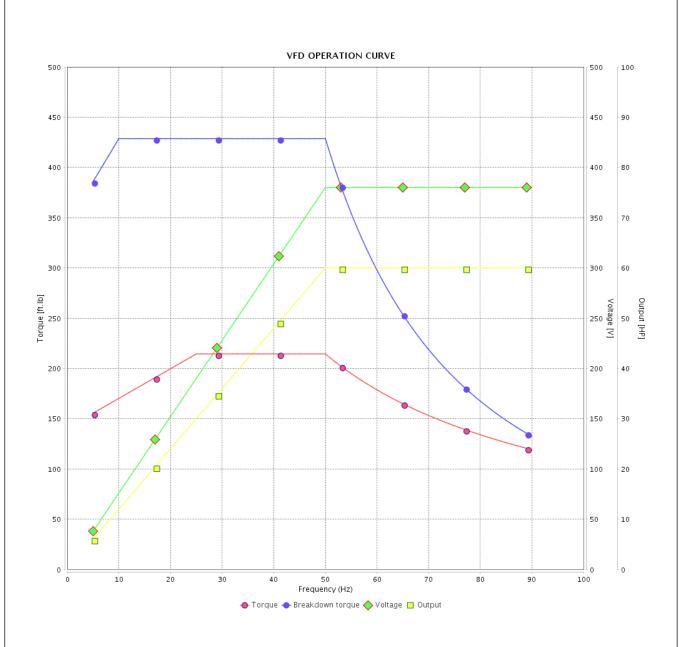
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Performance	: 3	380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 2 jue : 1	36.5 A 5.2 214 ft.lb 160 % 200 % 1470 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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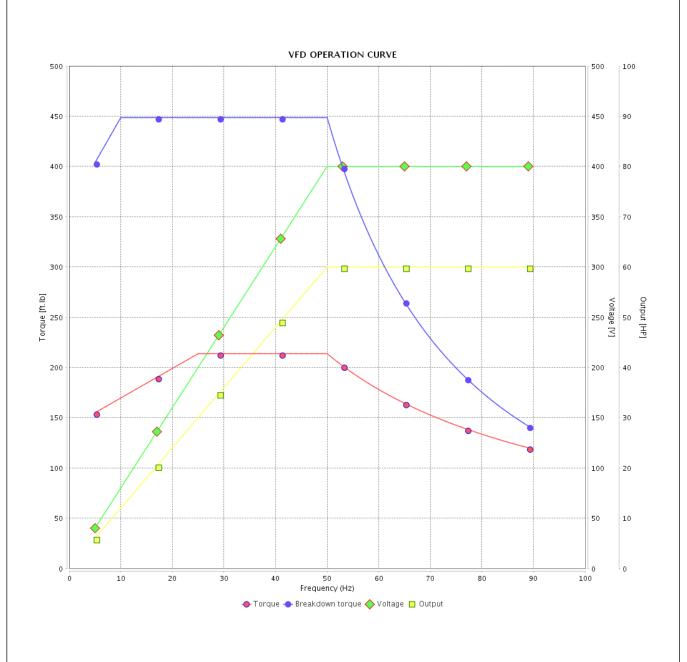


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Product line : NEMA Premium Efficiency Three- Product code : 11901221

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Performance	:	: 400 V 50 Hz 4P IE2							
Rated current	:	: 82.6 A Moment o		f inertia (J)	: 22.4 sq.ft.lb				
LRC	:	5.8	Duty cycle		: Cont.(S1)				
Rated torque	:	: 214 ft.lb		class	: F				
Locked rotor torque	e :	180 %	Service factor		: 1.00				
Breakdown torque	:	210 %	Temperati	ıre rise	: 105 K				
Rated speed	:	: 1475 rpm		Design					
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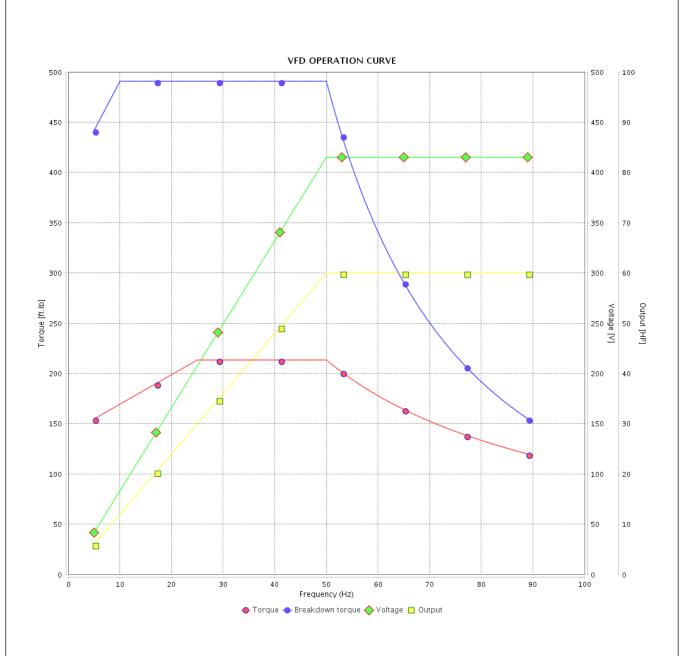
Product line : NEMA Premium Efficiency Three-

Phase

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Performance	: 415 V 50 Hz 4P IE2								
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 80.2 A : 6.2 : 213 ft.lb : 200 % : 229 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B					
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