DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11901225

Phase

Catalog #: 06036ET3E364JM-W22

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

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 877 lb
Protection degree : IP55 Moment of inertia (J) : 10.6 sq.ft.lb

Protection degree : IP55
Design : B

Output [HP]	60	50	50	50	60	60	60
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]	134/67.0	65.9	63.3	61.7	81.3	77.6	74.8
L. R. Amperes [A]	884/442	415	443	457	423	450	464
LRC [A]	6.6x(Code	6.3x(Code F)	7.0x(Code	7.4x(Code H)	5.2x(Code E)	5.8x(Code F)	6.2x(Code F)
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	G)		G)				
No load current [A]	30.0/15.0	15.0	16.2	17.4	15.0	16.2	17.4
Rated speed [RPM]	3560	2955	2960	2965	2945	2950	2955
Slip [%]	1.11	1.50	1.33	1.17	1.83	1.67	1.50
Rated torque [ft.lb]	88.5	88.9	88.7	88.6	107	107	107
Locked rotor torque [%]	200	190	220	229	160	180	190
Breakdown torque [%]	260	250	280	300	210	229	250
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time	25s (cold)	21s (cold)					

Locked rotor time	Locked rotor time		21s (cold)					
		14s (hot)	12s (hot)					
Noise level ²		79.0 dB(A)	74.0 dB(A)					
	25%	91.0	91.1	90.7	90.7	92.7	92.2	92.2
Efficiency (%)	50%	91.7	92.1	91.7	91.6	92.4	92.4	92.4
Liliciency (70)	75%	93.0	92.8	92.8	92.9	93.0	93.0	93.0
	100%	93.6	93.7	93.7	93.7	92.4	93.0	93.0
	25%	0.60	0.60	0.57	0.53	0.65	0.62	0.59
Power Factor	50%	0.81	0.81	0.79	0.76	0.85	0.83	0.81
Fower Factor	75%	0.88	0.88	0.87	0.85	0.90	0.89	0.88
	100%	0.90	0.91	0.90	0.89	0.91	0.90	0.90

Bearing type : 6314 C3 | Sealing | C3 | C3 | C3 | C3 | C3 | C474 lb | C3 | C474 lb | C

Lubrication interval : 4000 h 4000 h Lubricant amount : 27 g 27 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 148A SF 1.10 SFA 163A

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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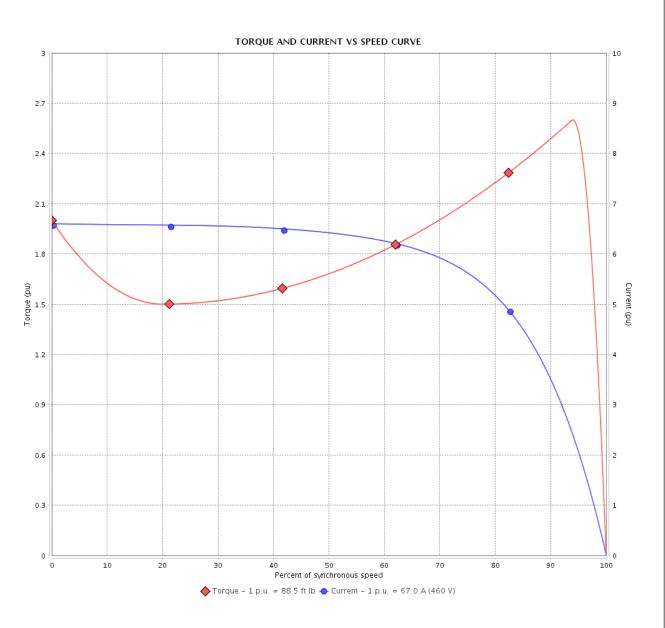


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11901225

Phase

Catalog #: 06036ET3E364JM-W22



Performance	: 230/460 V 60 Hz 2P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 134/67.0 A : 6.6 : 88.5 ft.lb : 200 % : 260 % : 3560 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 10.6 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B
Locked rotor time	: 25s (cold) 14s (hot)		

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11901225 Catalog #: 06036ET3E364JM-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. = 88.9 ft.lb 🔷 Current – 1 p.u. = 65.9 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 65.9 A Moment of inertia (J) : 10.6 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 88.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2955 rpm Design : B Locked rotor time : 21s (cold) 12s (hot) Performed Checked Date Rev. **Changes Summary**

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Three Phase Induction Motor - Squirrel Cage

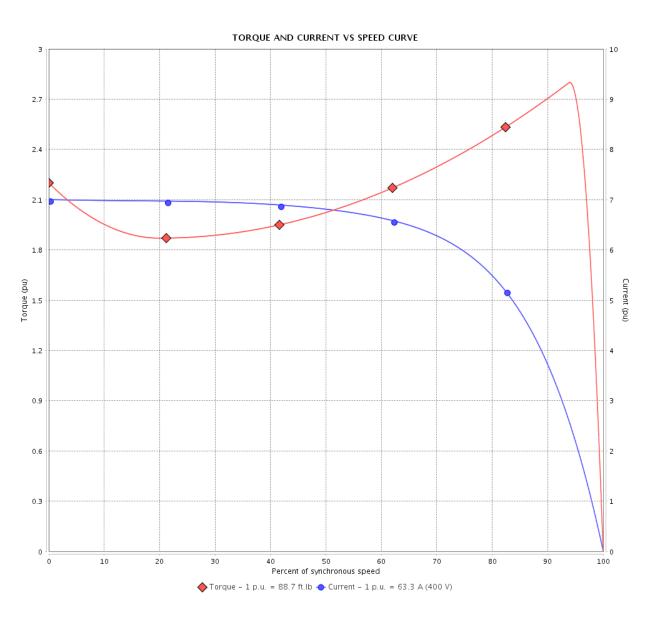


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11901225

Phase

Catalog #: 06036ET3E364JM-W22



Performance	: 400 V 50 Hz 2P IE3			
Rated current	: 63.3 A	Moment of inertia (J)	: 10.6 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 88.7 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 2960 rpm	Design	: B	
L				
Locked rotor time	: 21s (cold) 12s (hot)			

Locked rotor time : 21s (cold) 12s (hot)

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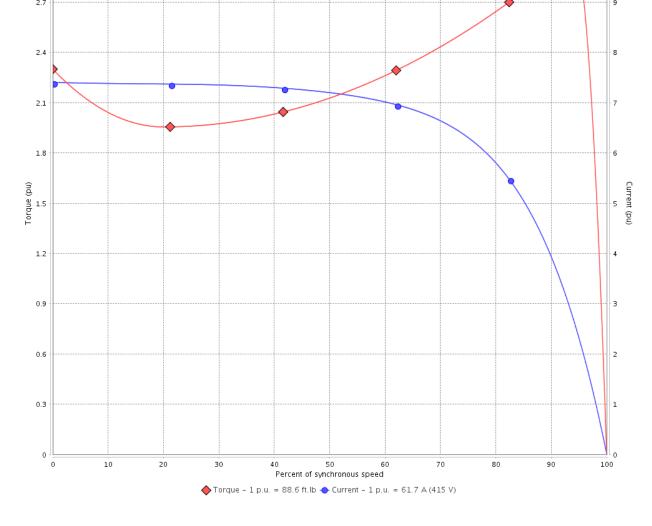


Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : NEMA Premium Efficiency Three-Product code : 11901225
Phase Catalog #: 06036ET3E364JM-W22

TORQUE AND CURRENT VS SPEED CURVE



Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 61.7 A	Moment of inertia (J)	: 10.6 sq.ft.lb	
LRC	: 7.4	Duty cycle	: Cont.(S1)	
Rated torque	: 88.6 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 2965 rpm	Design	: B	
Locked rotor time	: 21s (cold) 12s (hot)			

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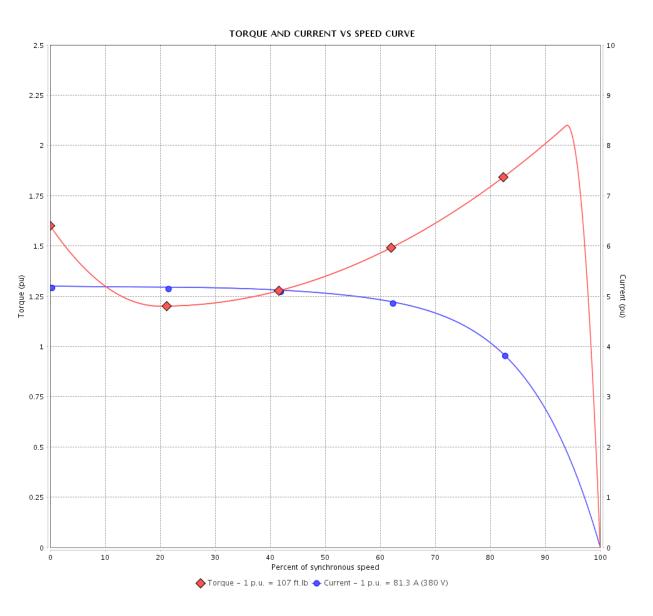


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11901225

Phase

Catalog #: 06036ET3E364JM-W22



Performance	: 380 V 50 Hz 2P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 81.3 A : 5.2 : 107 ft.lb : 160 % : 210 % : 2945 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 10.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Locked rotor time	: 21s (cold) 12s (hot)	1		

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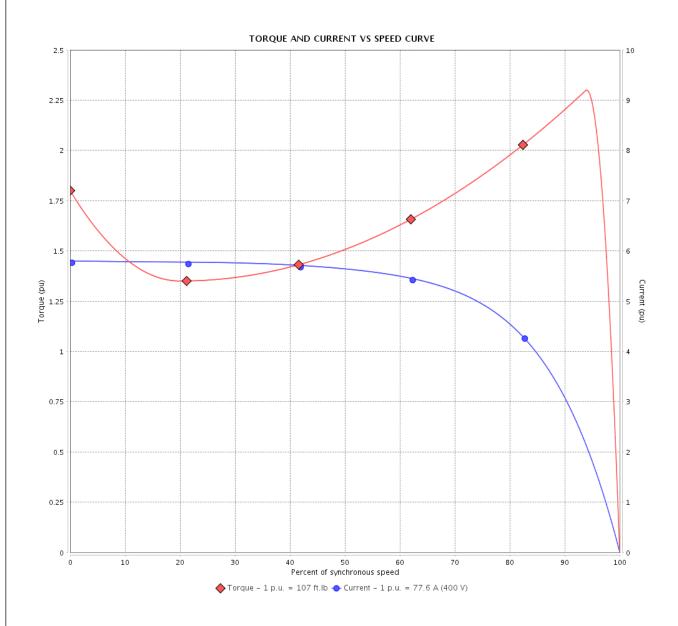


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11901225

Phase

Catalog #: 06036ET3E364JM-W22



Performance	: 400 V 50 Hz 2P IE2			
Rated current	: 77.6 A	Moment of inertia (J)	: 10.6 sq.ft.lb	
LRC	: 5.8	Duty cycle	: Cont.(S1)	
Rated torque	: 107 ft.lb	Insulation class	: F	
Locked rotor torque	: 180 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 105 K	
Rated speed	: 2950 rpm	Design	: B	
Locked rotor time	: 21s (cold) 12s (hot)			

Locked rotor time : 21s (cold) 12s (hot)

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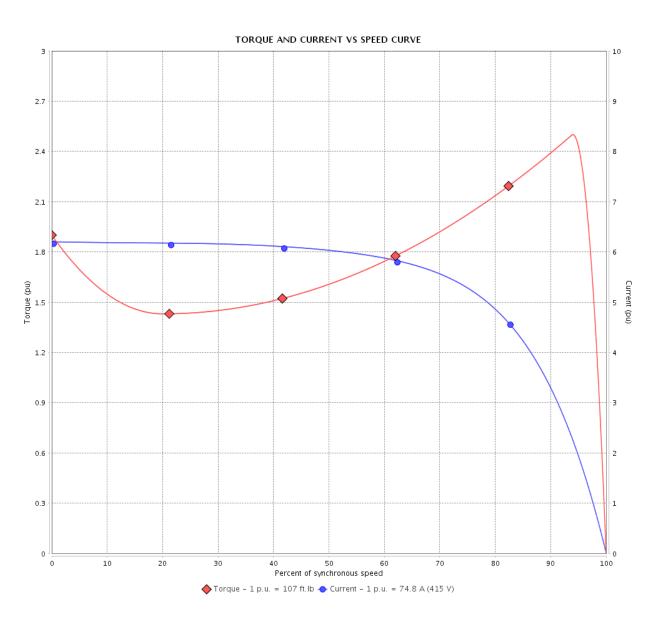
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11901225

Catalog #: 06036ET3E364JM-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 74.8 A Moment of inertia (J) : 10.6 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 107 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 2955 rpm Design : B Locked rotor time : 21s (cold) 12s (hot)

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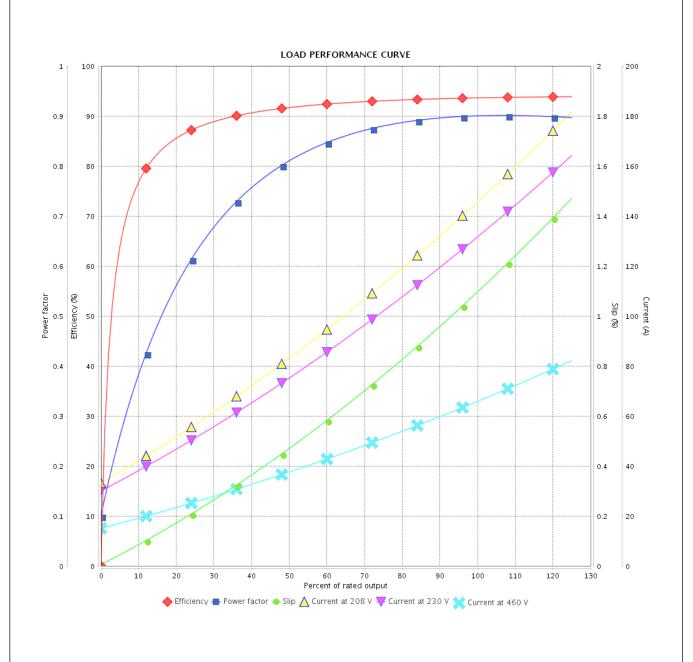


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11901225

Phase

Catalog #: 06036ET3E364JM-W22



Performance : 230/460 V 60 Hz 2P		230/460 V 60 Hz 2P				
Rated current		134/67.0 A	Moment o	f inertia (J)	: 10.6 sq.ft.lb	
LRC		6.6	Duty cycle	;	: Cont.(S1)	
Rated torque	:	88.5 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	200 %	Service fa	ctor	: 1.25	
Breakdown torque	:			ıre rise	: 80 K	
Rated speed	:			Design		
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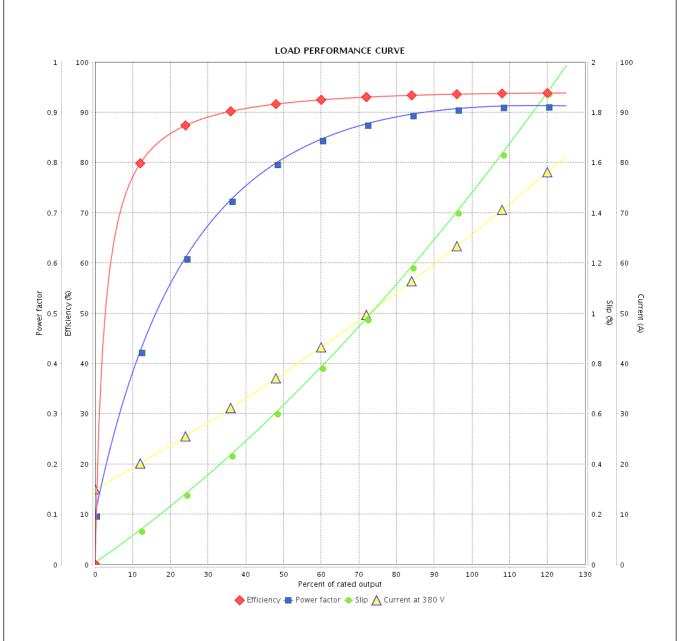
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Phase

Product code: 11901225

Catalog #: 06036ET3E364JM-W22

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Performance	: 380 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 65.9 A : 6.3 : 88.9 ft.lb : 190 % : 250 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 10.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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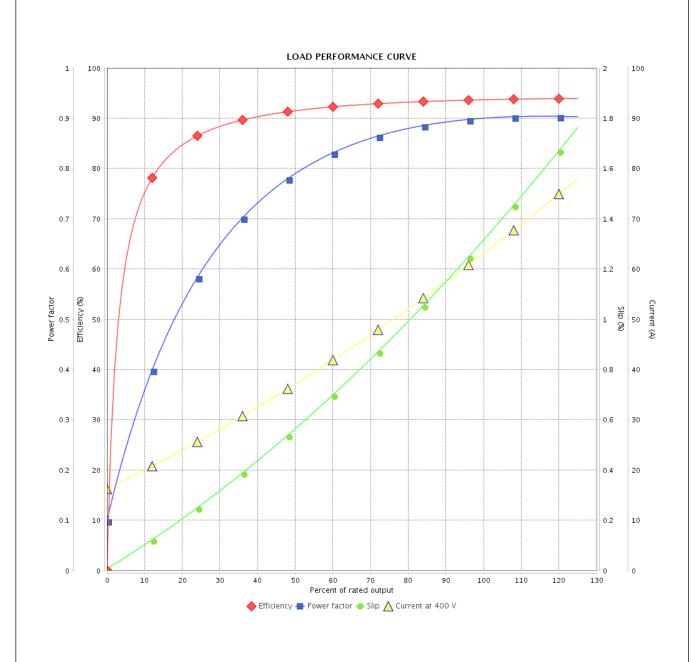


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11901225

Phase

Catalog #: 06036ET3E364JM-W22



Performance	: 4	: 400 V 50 Hz 2P IE3				
Rated current	: 6	3.3 A	Moment o	f inertia (J)	: 10.6 sq.ft.lb	
LRC	: 7	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 8	8.7 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	20 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	80 % Temperature rise		ıre rise	: 80 K	
Rated speed	: 2	960 rpm	Design		: B	
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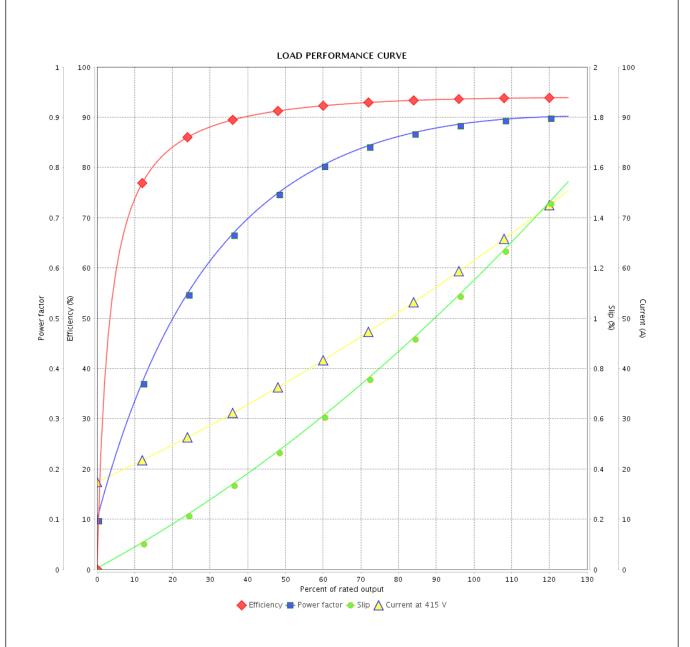
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11901225

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Performance	: 4	: 415 V 50 Hz 2P IE3						
	LRC : 7.4 Rated torque : 88.6 ft.lb Locked rotor torque : 229 % Breakdown torque : 300 %		Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 10.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
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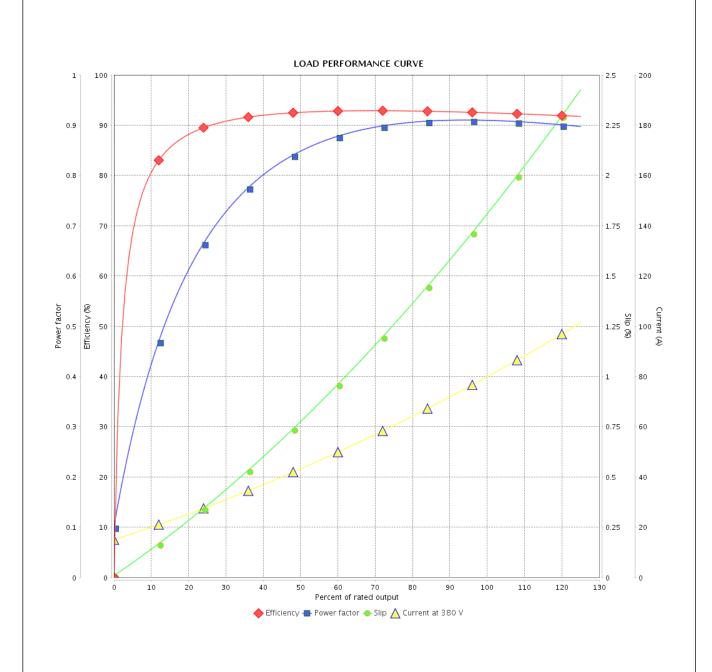
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11901225

Catalog #: 06036ET3E364JM-W22



Performance	: 3	: 380 V 50 Hz 2P IE1				
Rated current	: 8	31.3 A	Moment o	f inertia (J)	: 10.6 sq.ft.lb	
LRC	: 5	5.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	107 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	160 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	: 210 % Temper : 2945 rpm Design		ıre rise	: 105 K	
Rated speed	: 2				: B	
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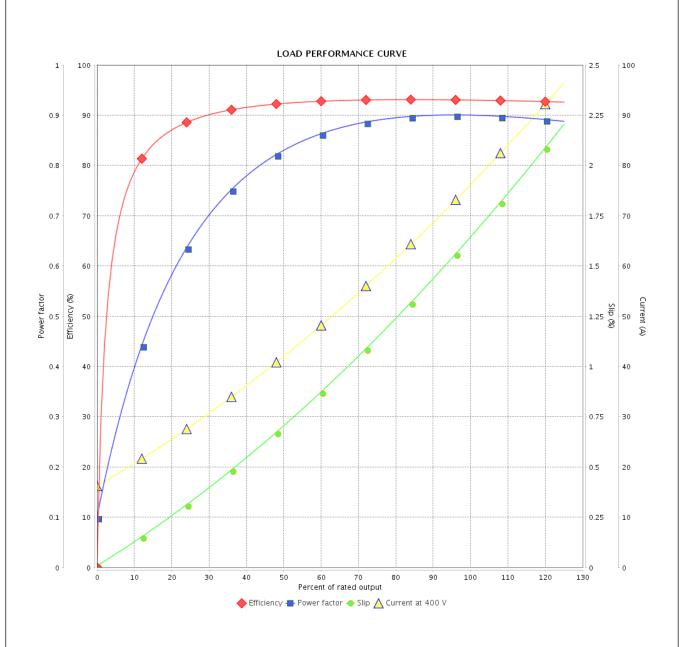
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Phase

Product code: 11901225

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Performance	: 400 V 50 Hz 2P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 77.6 A : 5.8 : 107 ft.lb : 180 % : 229 % : 2950 rpm	Moment of inertia (J) : 10.6 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 105 K Design : B		
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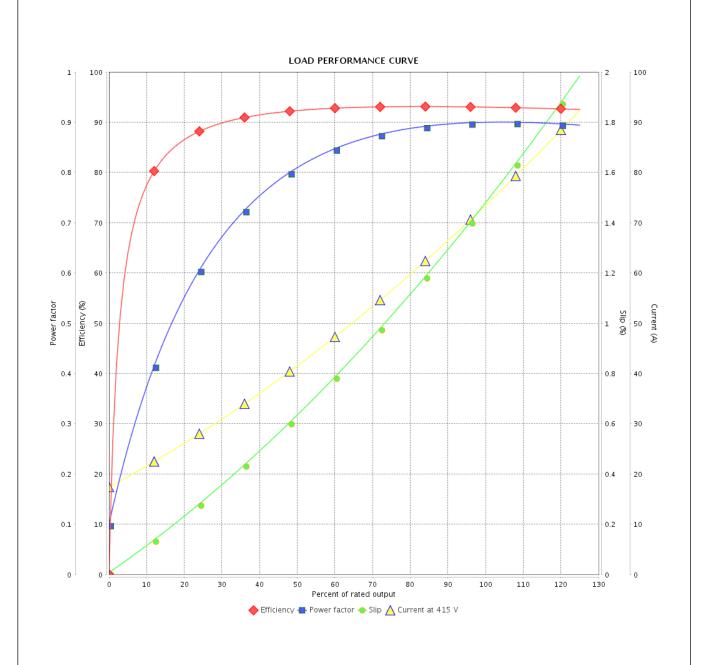
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11901225

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Performance : 415 V 50 Hz 2P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 74.8 A : 6.2 : 107 ft.lb : 190 % : 250 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 10.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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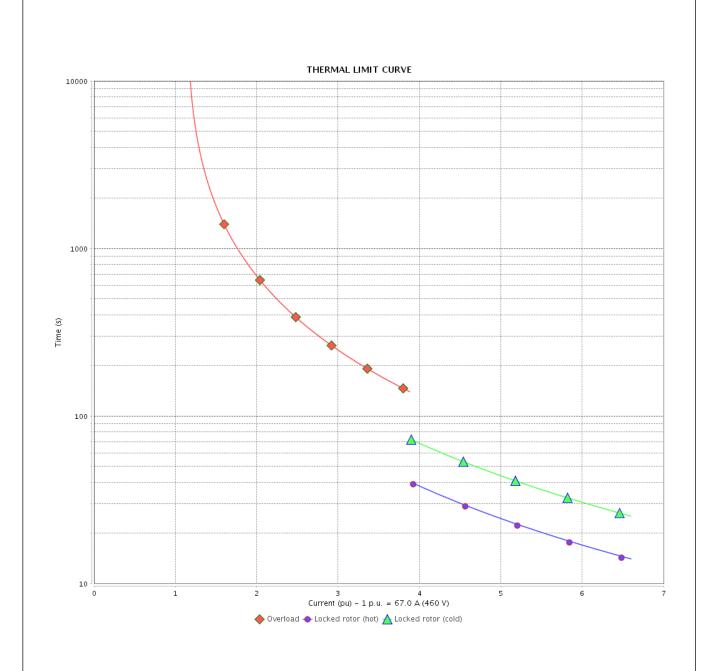


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Product line	: NEMA Premium Efficiency	Three- I	Product code :	11901225	
	Phase	(Catalog # :	06036ET3E36	64JM-W22
	: 230/460 V 60 Hz 2P				
	: 134/67.0 A : 6.6	Moment of Duty cycle	f inertia (J)	: 10.6 sq.ft.lb : Cont.(S1)	
Rated torque	: 88.5 ft.lb	Insulation	class	: F	
Locked rotor torque	: 200 %	Service fa		: 1.25	
	: 260 % : 3560 rpm	Temperatu Design	iie iise	: 80 K : B	
Heating constant		-			
Cooling constant					
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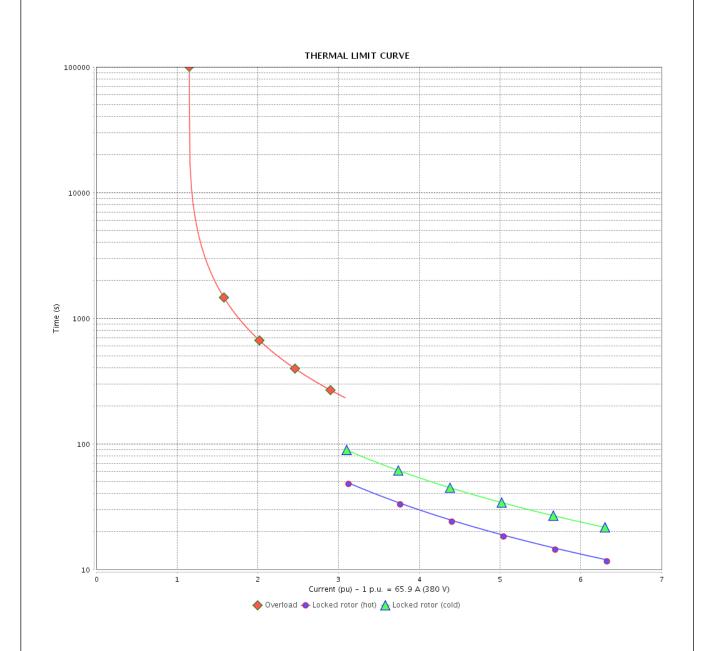


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Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code :	11901225	
		Catalog #:	06036ET3E364J	M-W22
Performance	: 380 V 50 Hz 2P IE3			
Rated current LRC	: 65.9 A : 6.3	Moment of inertia (J) Duty cycle	: 10.6 sq.ft.lb : Cont.(S1)	
Rated torque	: 88.9 ft.lb	Insulation class	: F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 250 % : 2955 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant				
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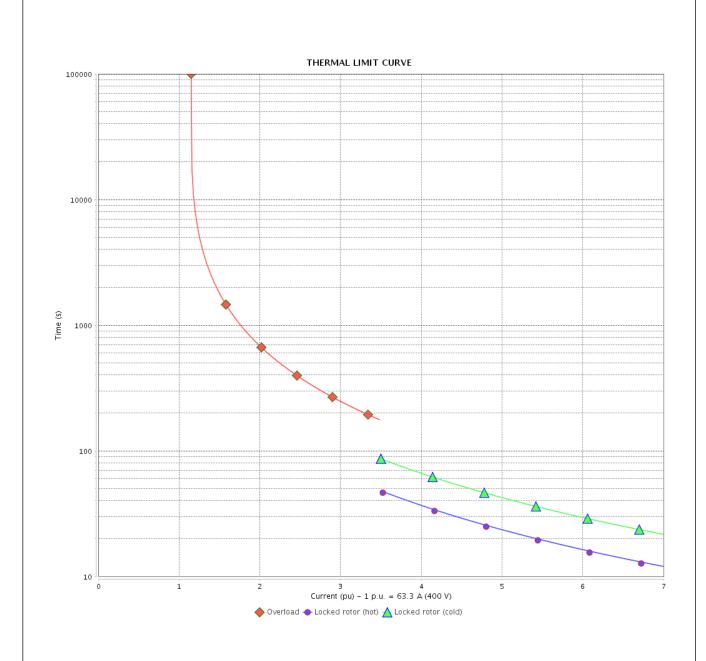


Customer	:				
Product line	: NEMA Premium Efficien Phase		Product code :	11901225	
			Catalog # :	06036ET3E3	64JM-W22
Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 63.3 A : 7.0 : 88.7 ft.lb : 220 % : 280 % : 2960 rpm	Moment of Duty cycle Insulation Service fa Temperation	class actor	: 10.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	. 2000 (pin	Sooigii		. .	
Heating constant					
Cooling constant					
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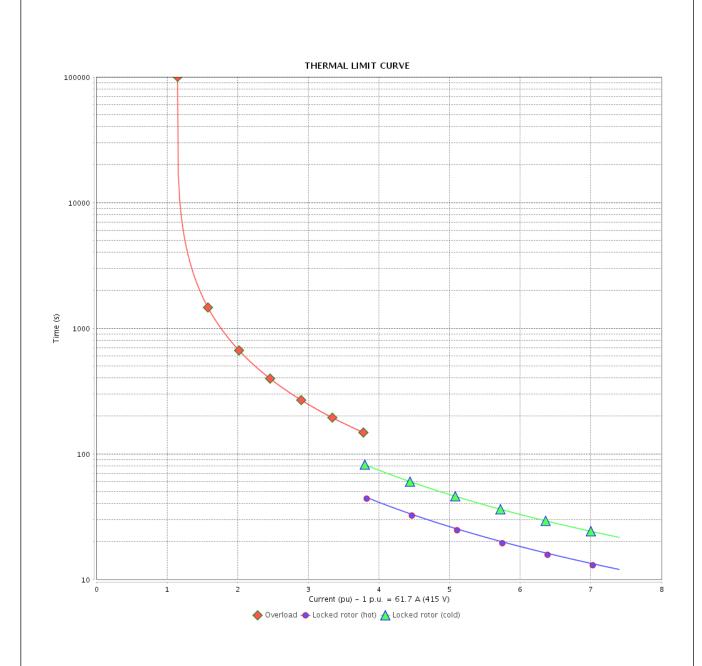


Customer	:				
Product line	: NEMA Premium Efficiency ⁻ Phase		Product code :	11901225	
		(Catalog # :	06036ET3E3	64JM-W22
Performance	: 415 V 50 Hz 2P IE3				
LRC Rated torque Locked rotor torque Breakdown torque	: 61.7 A : 7.4 : 88.6 ft.lb : 229 % : 300 % : 2965 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 10.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant					
Cooling constant	Changes Cummer:		Dorformad	Charles	Doto
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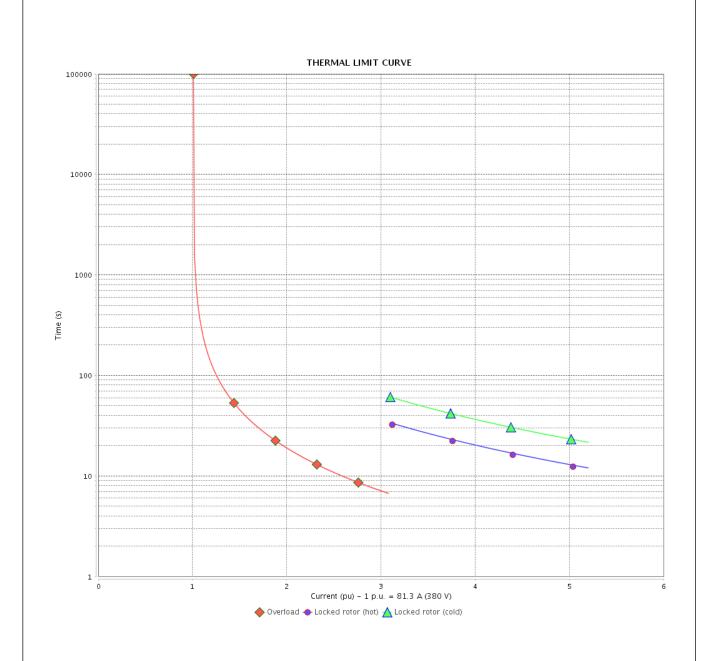


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Product line	: NEMA Premium Efficiency Phase			
		Catalog #:	06036ET3E3	64JM-W22
Performance	: 380 V 50 Hz 2P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 81.3 A : 5.2 : 107 ft.lb : 160 % : 210 % : 2945 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 10.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Heating constant				
Cooling constant	Changas Cumman	Dawfa waa!	Charles	Doto
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Customer



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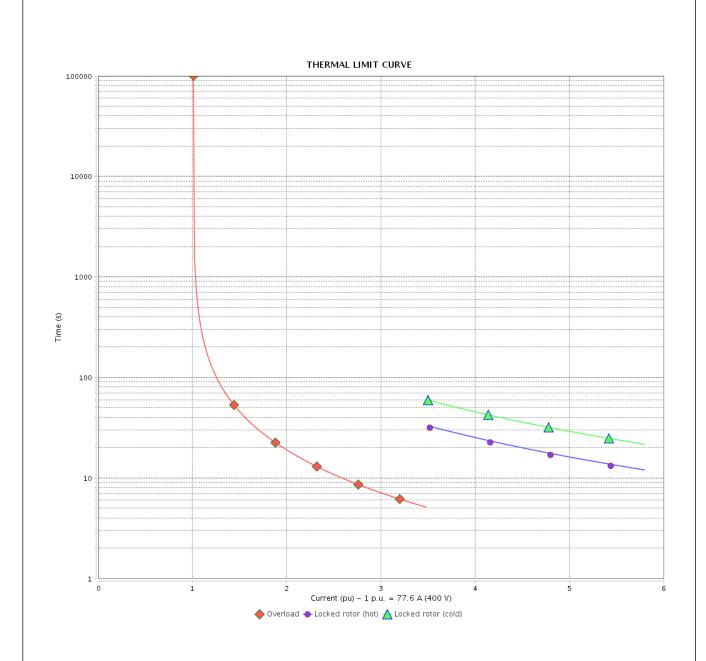


Customer	:				
Product line	: NEMA Premium Efficiency [*] Phase		Product code :	11901225	
		(Catalog # :	06036ET3E36	64JM-W22
Performance	: 400 V 50 Hz 2P IE2				
LRC Rated torque Locked rotor torque Breakdown torque	: 77.6 A : 5.8 : 107 ft.lb : 180 % : 229 % : 2950 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class ctor	: 10.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Heating constant					
Cooling constant	Oh a a a a a		David 1	Ob. 1	
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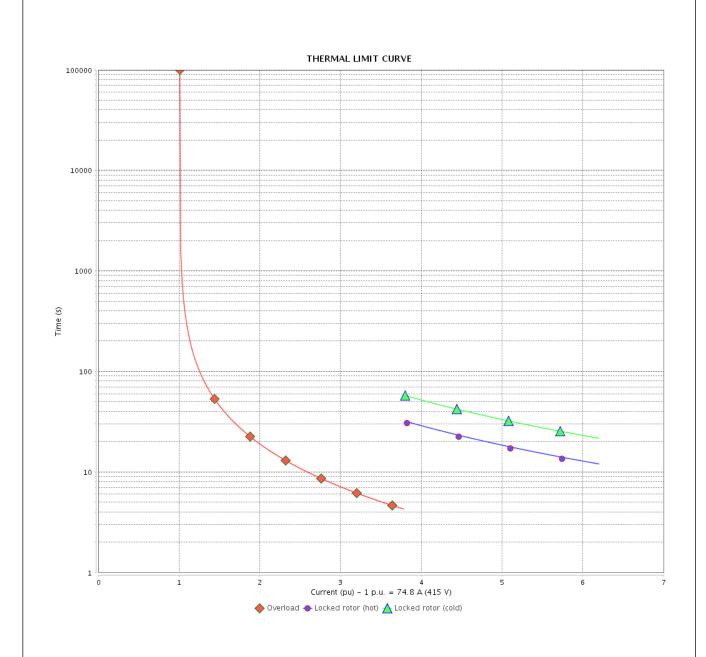


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Product line		NEMA Premium Efficiency Thase	Three- I	Product code :	11901225	
	FI	iase	(Catalog # :	06036ET3E36	64JM-W22
Performance		15 V 50 Hz 2P IE2				
Rated current LRC	: 74 : 6.:	I.8 A 2	Moment of Duty cycle	f inertia (J)	: 10.6 sq.ft.lb : Cont.(S1)	
Rated torque	: 10)7 ft.lb	Insulation	class	: F	
Locked rotor torqu		90 %	Service fac		: 1.00	
Breakdown torque Rated speed		50 % 955 rpm	Temperatu Design	ire rise	: 105 K : B	
Heating constant						
Cooling constant						
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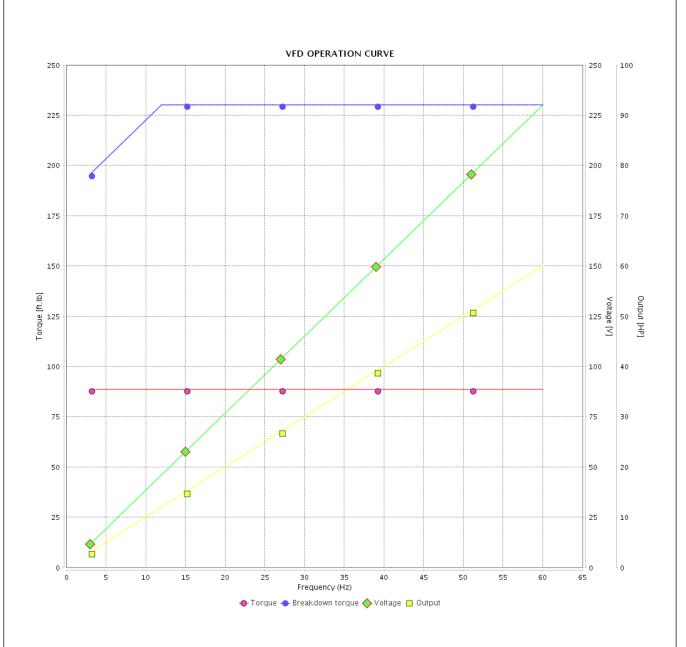
Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11901225

Catalog #: 06036ET3E364JM-W22

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Performance : 230/460 V 60 Hz 2P : 134/67.0 A Rated current Moment of inertia (J) : 10.6 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class Rated torque : 88.5 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3560 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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Product line : NEMA Premium Efficiency Three- Product

Phase

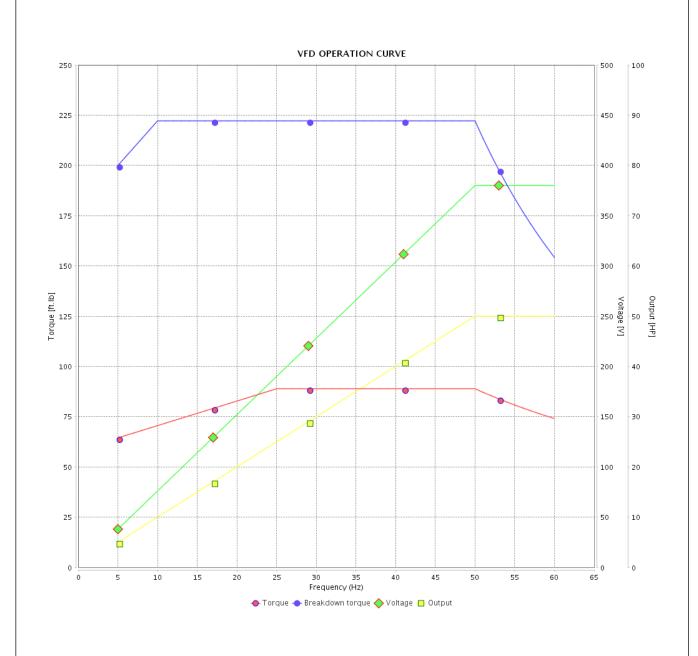
Product code: 11901225

Catalog #: 06036ET3E364JM-W22

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Performance	: 3	: 380 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 8 que : 1 ue : 2	55.9 A 5.3 88.9 ft.lb 190 % 250 % 2955 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 10.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
Rev.	ev. Changes Summary		ry	Performed	Checked	Date		
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Three Phase Induction Motor - Squirrel Cage



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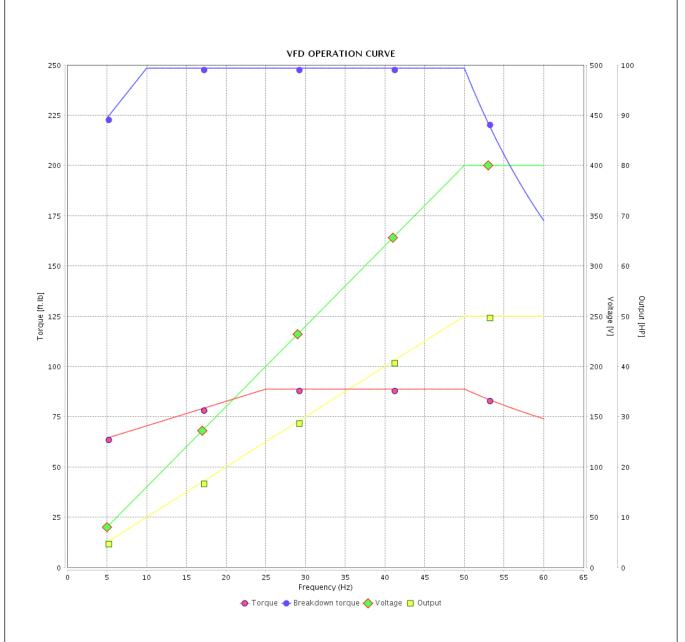
Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11901225

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Performance	: 400 V 50 Hz 2P IE3						
Rated current	: 63.3 A	Moment of inertia (J)		: 10.6 sq.ft.lb			
LRC	: 7.0	Duty cycle		: Cont.(S1)			
Rated torque	: 88.7 ft.lb	Insulation class		: F			
Locked rotor torque	: 220 %	Service factor		: 1.00			
Breakdown torque	: 280 %	Temperature rise		: 80 K			
Rated speed	: 2960 rpm	Design		: B			
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Checked by				Page	Revision		

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Date

Three Phase Induction Motor - Squirrel Cage



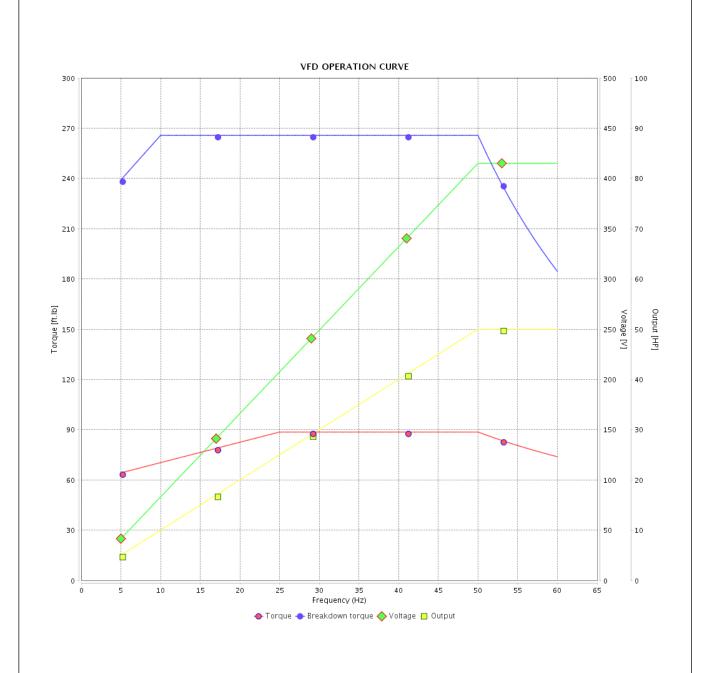
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 06036ET3E364JM-W22

11901225



Performance : 4		: 415 V 50 Hz 2P IE3						
Rated current : 6		1.7 A	Moment of inertia (J)		: 10.6 sq.ft.lb			
LRC : 7.		.4	Duty cycle	Duty cycle				
Rated torque : 8		8.6 ft.lb	Insulation	Insulation class				
Locked rotor toro	μe : 2	29 %	Service fa	Service factor				
Breakdown torque		00 %	Temperati	Temperature rise		: 80 K		
Rated speed	: 2	2965 rpm Design			: B			
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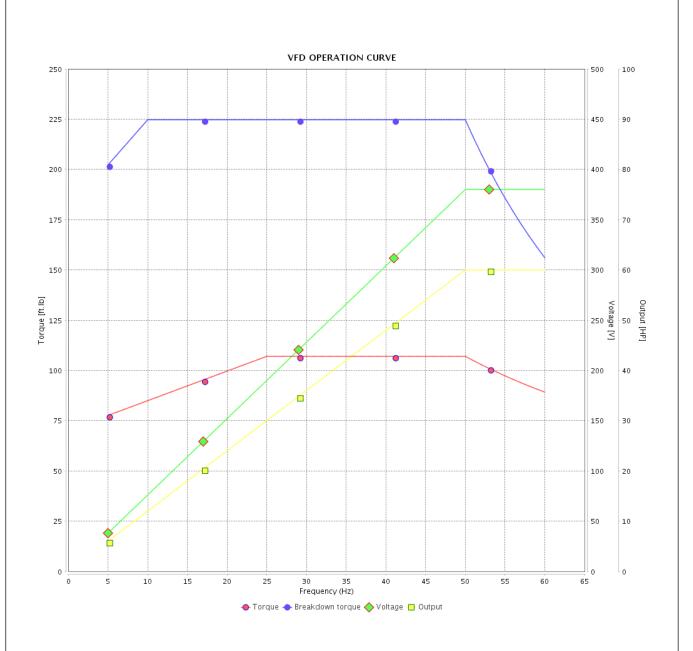
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11901225

Catalog #: 06036ET3E364JM-W22

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Performance : 380 V 50 Hz 2P IE1 Rated current : 81.3 A Moment of inertia (J) : 10.6 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) : 107 ft.lb Insulation class : F Rated torque Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 2945 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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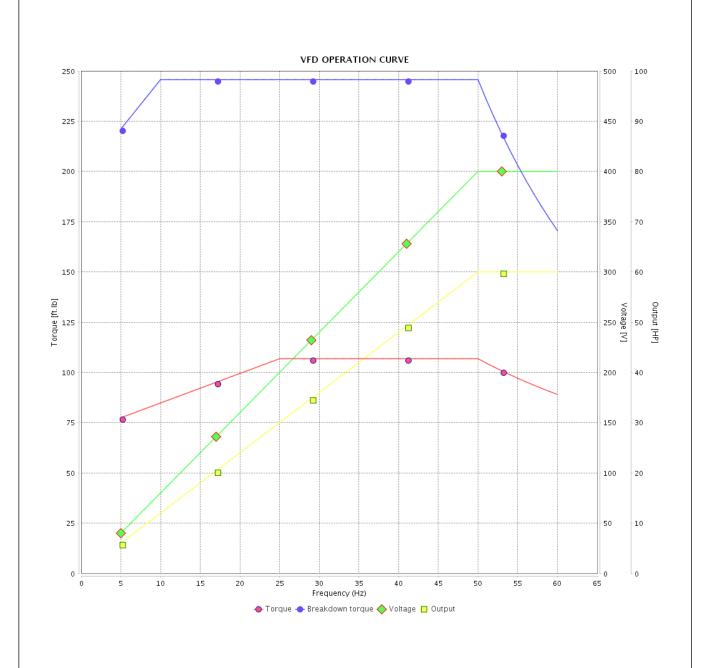


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Product line : NEMA Premium Efficiency Three-

Product code: 11901225

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Performance : 4		: 400 V 50 Hz 2P IE2						
Rated current :		7.6 A	Moment o	Moment of inertia (J)				
LRC : 5.8		.8	Duty cycle	Duty cycle				
Rated torque :		07 ft.lb	Insulation class		:F			
Locked rotor torqu	ue : 1	80 %	Service fa	Service factor				
Breakdown torque	e : 2	29 %	Temperati	Temperature rise				
Rated speed	: 2	2950 rpm Design			: B			
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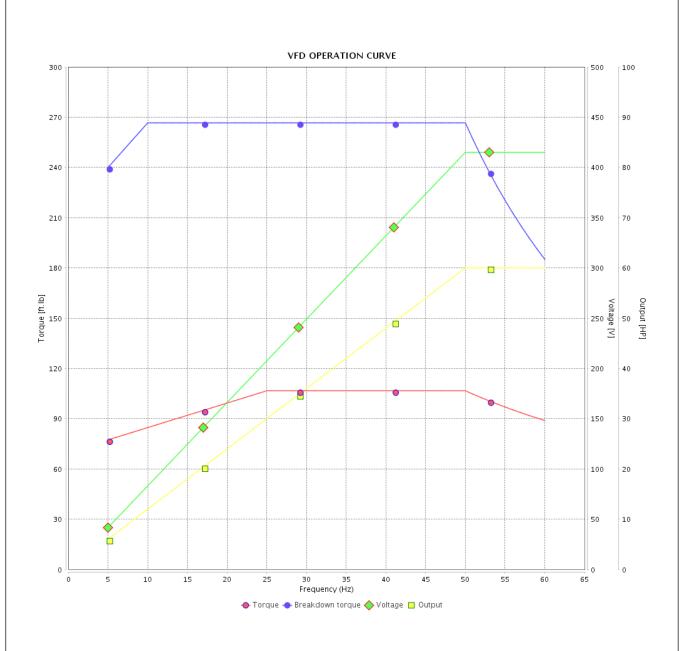
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11901225

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Performance : 415 V 50 Hz 2P IE2 : 74.8 A Rated current Moment of inertia (J) : 10.6 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 107 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 2955 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

