DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11901224

Catalog #: 06018ET3E364JP-W22

Frame : 364/5JP 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. Altitude Approx. weight³ : 903 lb

Protection degree		: IP55		Momer	nt of inertia (J) : 2	2.4 sq.ft.lb	
Design		: B						
Output [HP]		60	50	50	50	60	60	60
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		143/71.6	71.0	69.1	67.4	86.5	82.6	80.2
L. R. Amperes [A]		888/444	447	477	499	450	479	497
LRC [A]		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
		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 [RPN	/ 1]	1780	1480	1480	1485	1470	1475	1480
Slip [%]		1.11	1.33	1.33	1.00	2.00	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	[%]	240	240	260	280	200	210	229
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		27s (cold)	18s (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 level ²		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
Efficiency (%)	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%		95.0	94.2	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
Power Factor	50%	0.71	0.71	0.68	0.65	0.76	0.73	0.70
rower ractor	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	0.83

Non drive end Foundation loads Drive end

Bearing type 6314 C3 6314 C3 Max. traction : 1224 lb Sealing Lip Seal Lip Seal : 2128 lb Max. compression

12000 h 27 g Lubricant amount 27 g Lubricant type Mobil Polyrex EM

12000 h

Notes

Lubrication interval

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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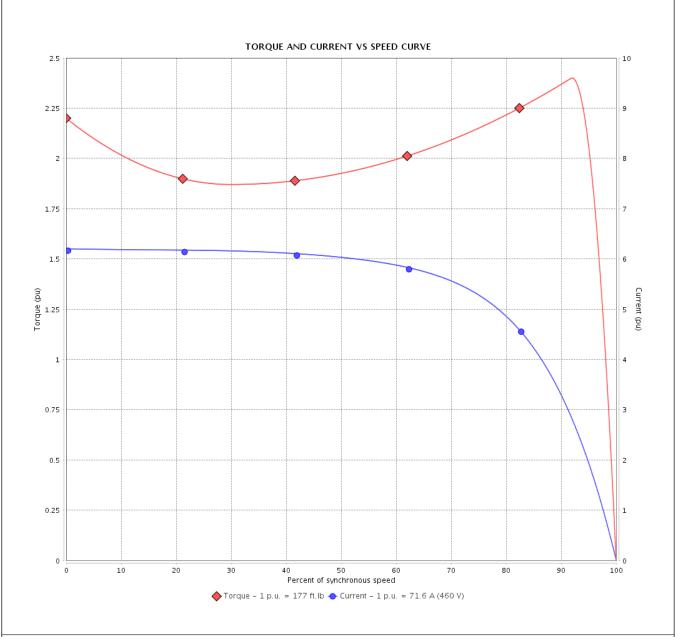
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11901224

Catalog #: 06018ET3E364JP-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) : 177 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 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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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11901224 Catalog #: 06018ET3E364JP-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current (pu) 0.5 0.25 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 177 ft.lb ◆ Current - 1 p.u. = 71.0 A (380 V)

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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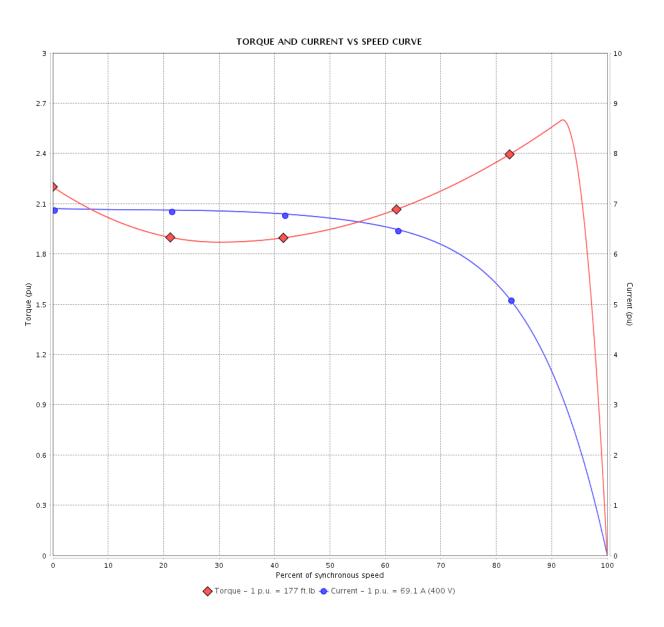


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 06018ET3E364JP-W22

11901224



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) : 177 ft.lb Insulation class Rated torque : 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: 11901224 Catalog #: 06018ET3E364JP-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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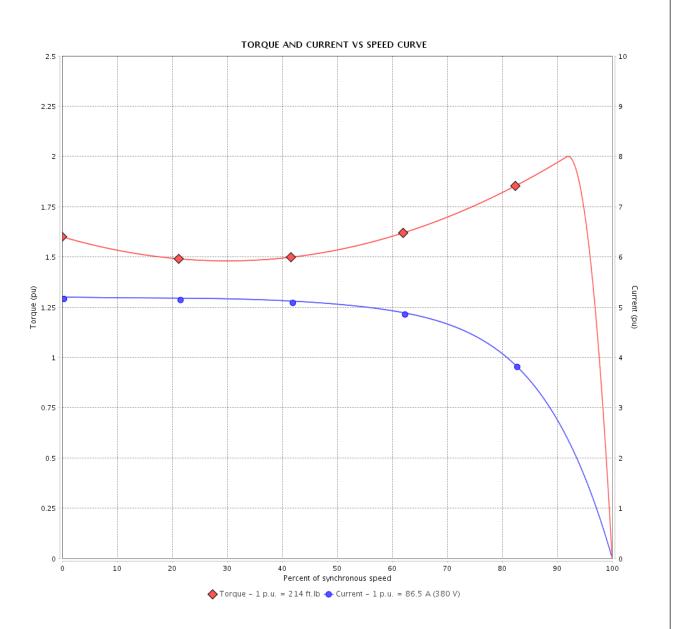
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 06018ET3E364JP-W22

11901224



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

Locked rotor time : 18s (cold) 10s (hot)

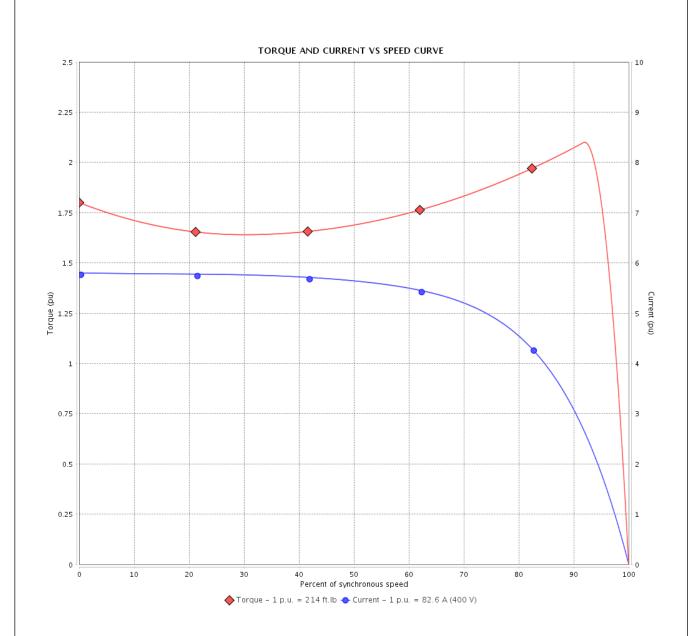
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Customer :

Product line : NEMA Premium Efficiency Three-Product code : 11901224
Phase Catalog # : 06018ET3E364JP-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
Locked rotor time	: 18s (cold) 10s (hot)		

Locked rotor time : 18s (cold) 10s (hot)

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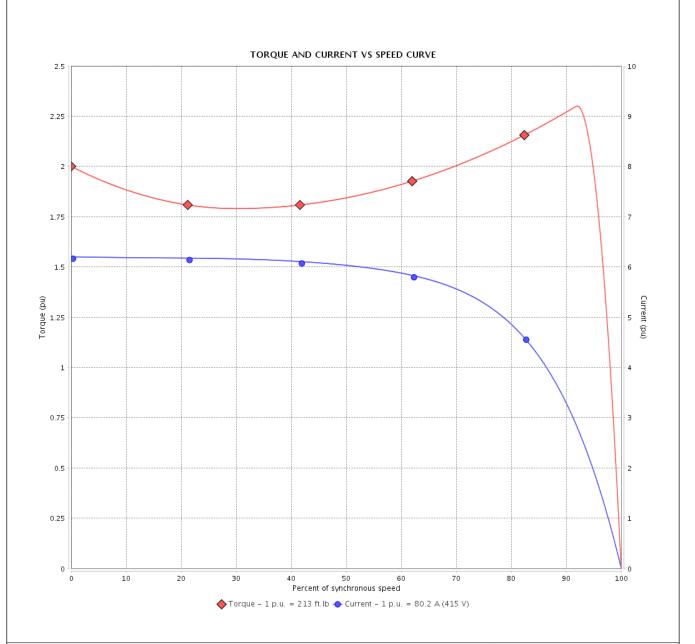


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11901224

Phase

Catalog #: 06018ET3E364JP-W22



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

Locked rotor time : 18s (cold) 10s (hot)

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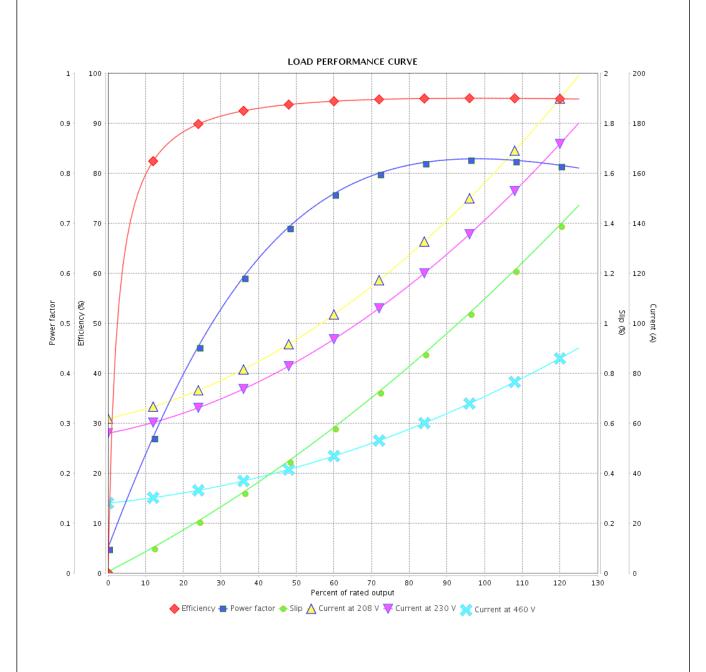


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11901224

Phase

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Performance	: 2	: 230/460 V 60 Hz 4P				
Rated current	red current : 143/71.6 A		Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6	.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	20 %	Service fa	ctor	: 1.25	
=		40 %	Temperati	Temperature rise		
Rated speed		780 rpm	Design		: B	
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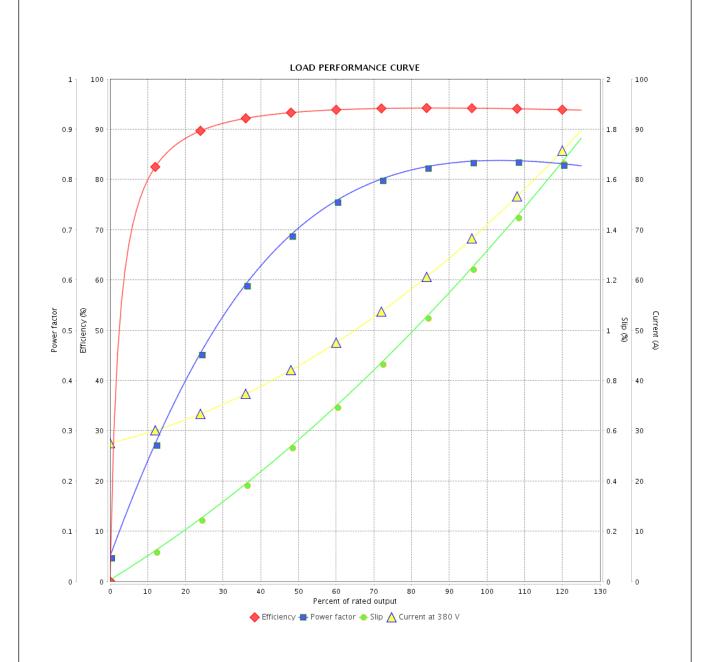
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Phase

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Performance	: 3	380 V 50 Hz 4P IE3				
Rated current : 71.0 A		Moment o	Moment of inertia (J)			
LRC	: 6	5.3	Duty cycle	e	: Cont.(S1)	
Rated torque	: 1	177 ft.lb	Insulation	class	: F	
		200 %	Service fa	actor	: 1.00	
Breakdown torque		240 %	Temperat	Temperature rise		
Rated speed	: 1	1480 rpm	Design		: B	
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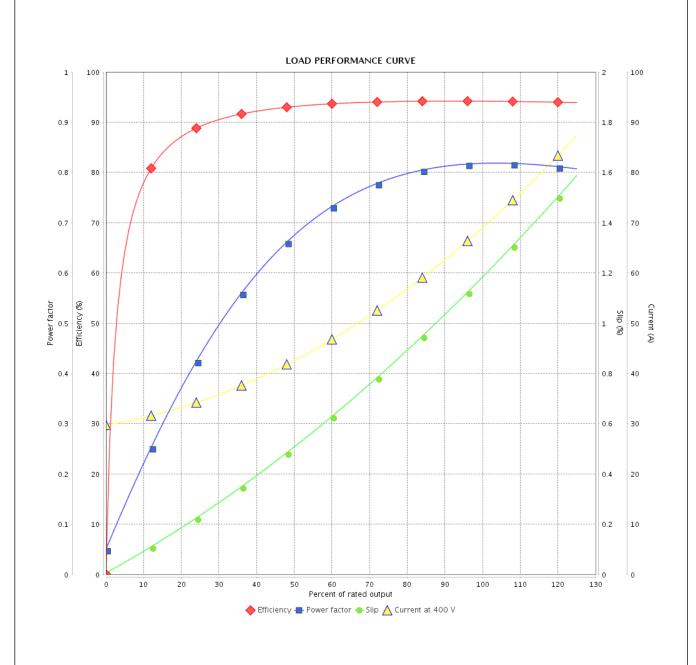


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Product line : NEMA Premium Efficiency Three- Product code : 11901224

Phase

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Performance	: 4	00 V 50 Hz 4P IE3				
Rated current	: 6	: 69.1 A Moment of		f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6	5.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	77 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	20 %	Service factor		: 1.00	
Breakdown torque	: 2	60 %	Temperature rise		: 80 K	
Rated speed	: 1	480 rpm Design			: B	
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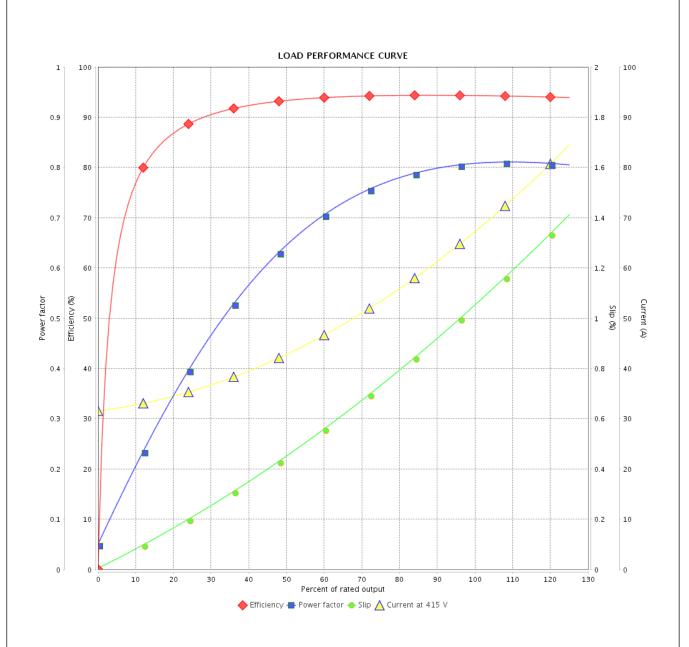
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Phase

Product code: 11901224

Catalog #: 06018ET3E364JP-W22

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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 in Duty cycle Insulation classification for Temperature Design	ass or	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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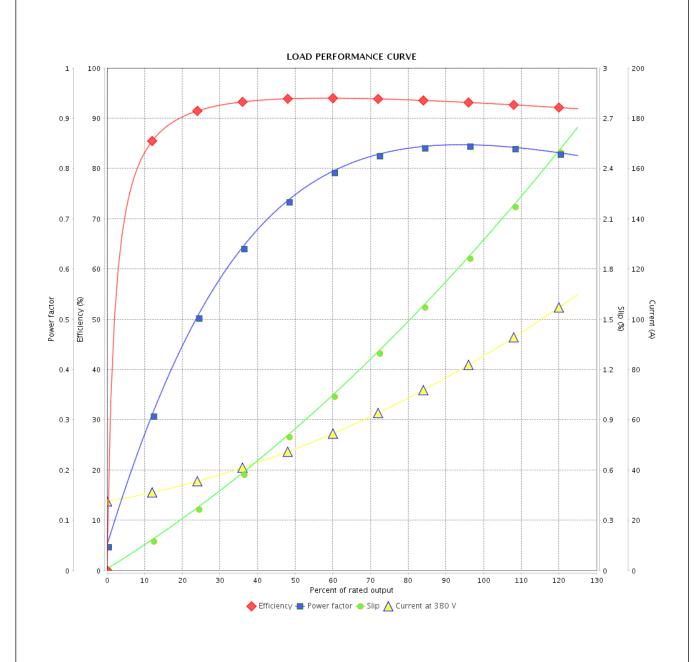


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Product line : NEMA Premium Efficiency Three- Product code : 11901224

Phase

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Performance	: 3	80 V 50 Hz 4P IE1	30 V 50 Hz 4P IE1			
Rated current	: 8	: 86.5 A Moment of		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 factor		: 1.00	
Breakdown torque	: 2	.00 %	Temperature rise		: 105 K	
Rated speed	: 1	470 rpm	Design		: B	
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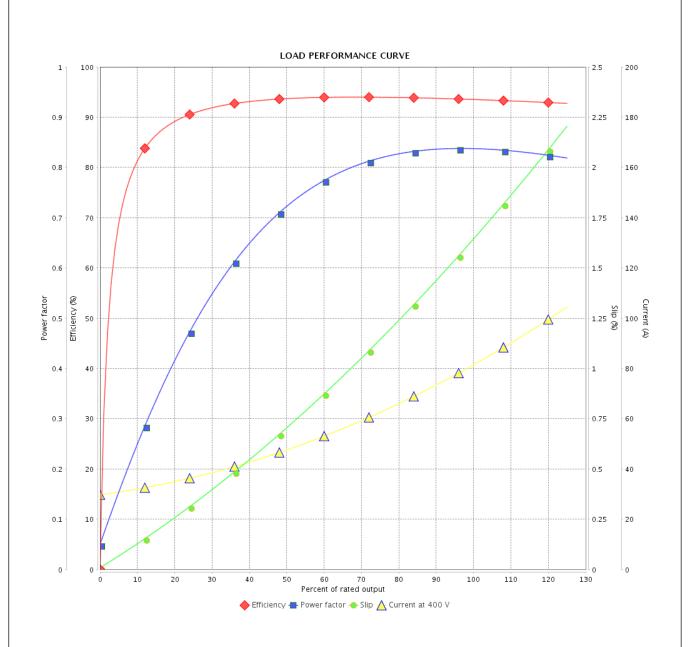


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11901224

Phase

Catalog #: 06018ET3E364JP-W22



Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 82.6 A : 5.8 : 214 ft.lb : 180 % : 210 % : 1475 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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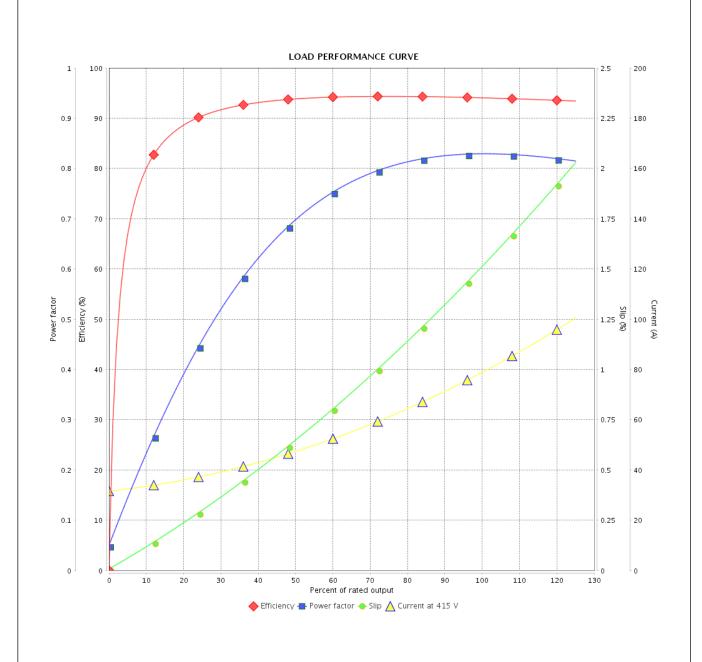


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Product line : NEMA Premium Efficiency Three- Product code : 11901224

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Catalog #: 06018ET3E364JP-W22



Performance	: 4	415 V 50 Hz 4P IE2	15 V 50 Hz 4P IE2			
Rated current	: 8	: 80.2 A Moment of		f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 6	6.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	213 ft.lb	Insulation	class	: F	
Locked rotor torqu	rotor torque : 200 % Service factor		ctor	: 1.00		
Breakdown torque	e : 2	229 %	Temperature rise		: 105 K	
Rated speed	: 1	1480 rpm	Design		: B	
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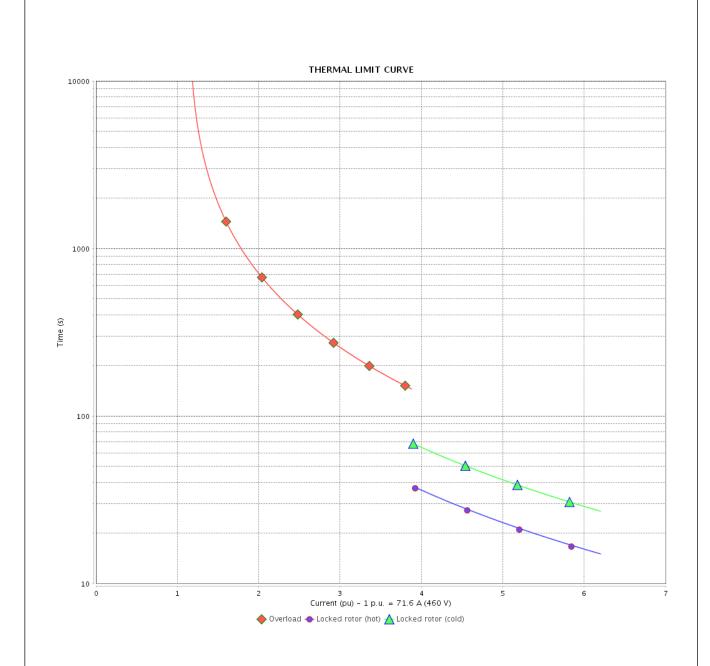


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Product line		NEMA Premium Efficiency hase		Product code :	11901224 06018ET3E36	64JP-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1 ⁴ : 6. : 1 ⁷ : 2 ² : 2 ⁴	30/460 V 60 Hz 4P 43/71.6 A 2 77 ft.lb 20 % 40 % 780 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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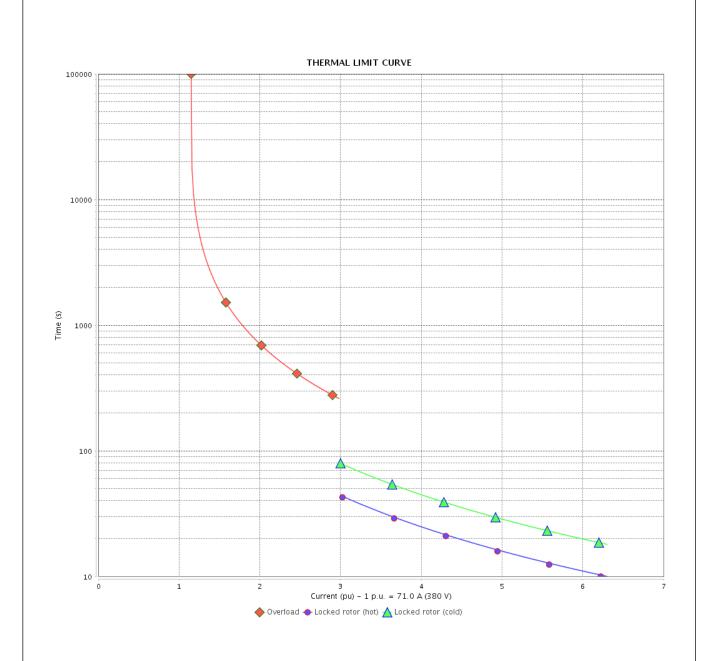


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Product line		NEMA Premium Efficiency Thase		Product code :	11901224 06018ET3E36	4JP-W22
Performance	: 38	80 V 50 Hz 4P IE3				
Rated current LRC	: 6.		Moment of Duty cycle		: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torc	jue : 20	77 ft.lb 00 %	Insulation Service fac	ctor	: F : 1.00	
Breakdown torqu Rated speed		40 % 480 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant						
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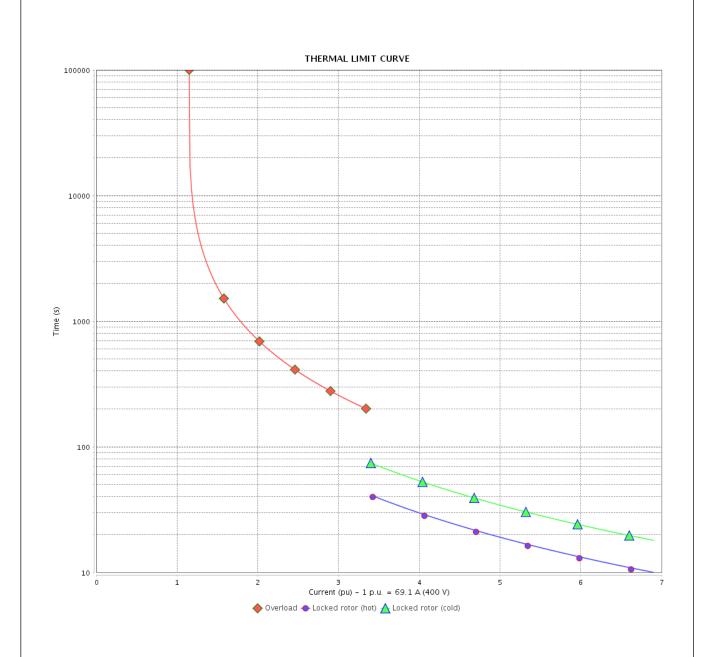


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11901224 06018ET3E36	64JP-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC		: 69.1 A : 6.9	Moment of Duty cycle	of inertia (J)	: 22.4 sq.ft.lb : Cont.(S1)	
Rated torque		: 177 ft.lb	Insulation	class	: F	
Locked rotor tord		: 220 % : 260 %	Service fa		: 1.00 : 80 K	
Breakdown torqu Rated speed		: 1480 rpm	Temperat Design	u10 110C	: B	
Heating constan						
Cooling constan	t					
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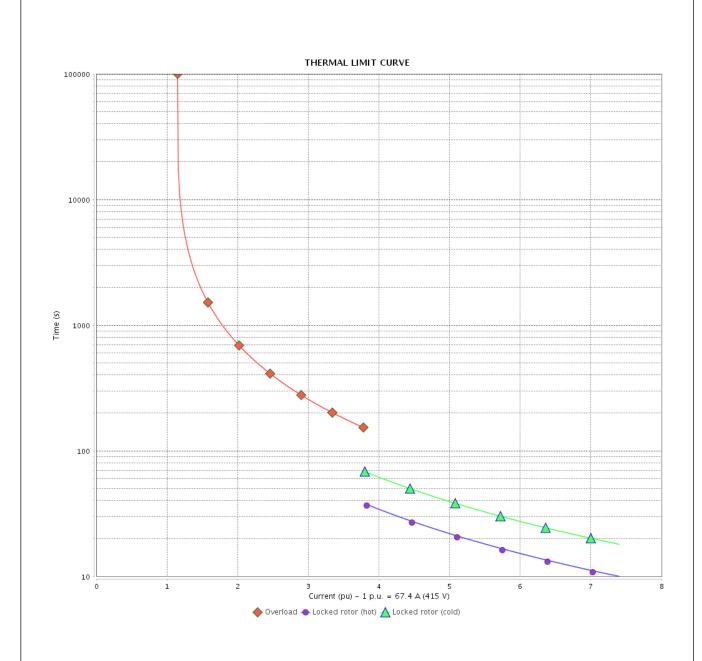


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Product line	: NEMA Premium Efficie Phase		Product code :	11901224 06018ET3E3	64JP-W22
			Catalog # :	06018ET3E3	64JP-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant	: 415 V 50 Hz 4P IE3 : 67.4 A : 7.4 : 177 ft.lb : 240 % : 280 % : 1485 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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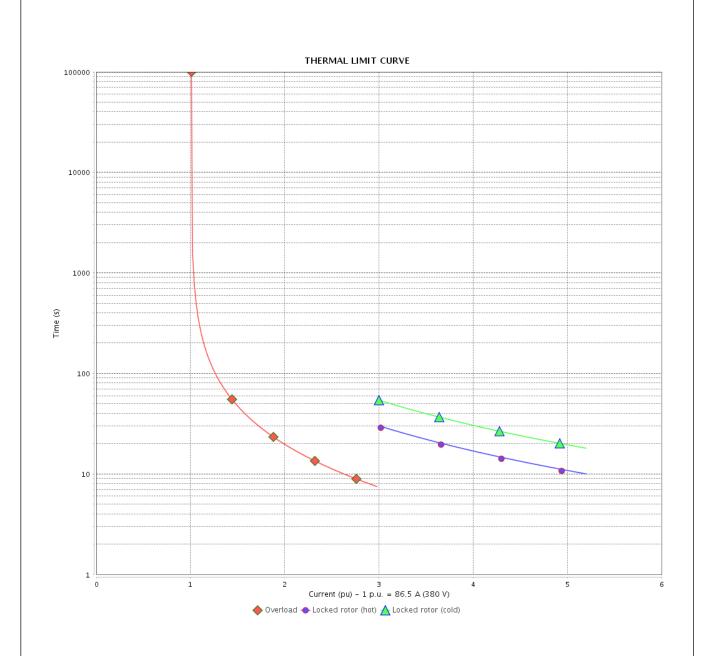


Customer	:				
Product line	: NEMA Premium Efficienc Phase		Product code : Catalog # :	11901224 06018ET3E3	64JP-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant	: 380 V 50 Hz 4P IE1 : 86.5 A : 5.2 : 214 ft.lb : 160 % : 200 % : 1470 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor ure rise	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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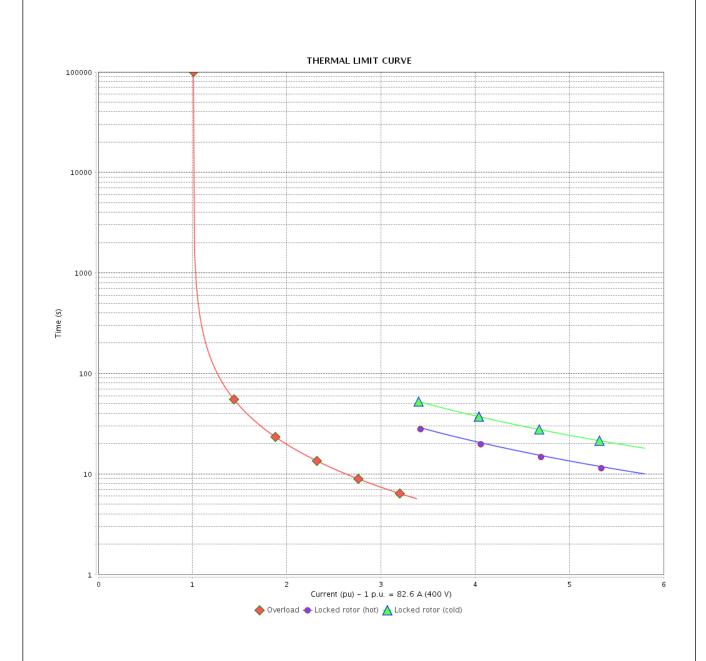


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	11901224 06018ET3E3	64JP-W22
Performance Rated current LRC Rated torque Locked rotor torque	: 400 V 50 Hz 4P IE2 : 82.6 A : 5.8 : 214 ft.lb : 180 % : 210 %	Moment o Duty cycle Insulation Service fa Temperatu	class ctor	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Breakdown torque Rated speed Heating constant Cooling constant	: 210 % : 1475 rpm	Design	are rise	: 105 K : B	
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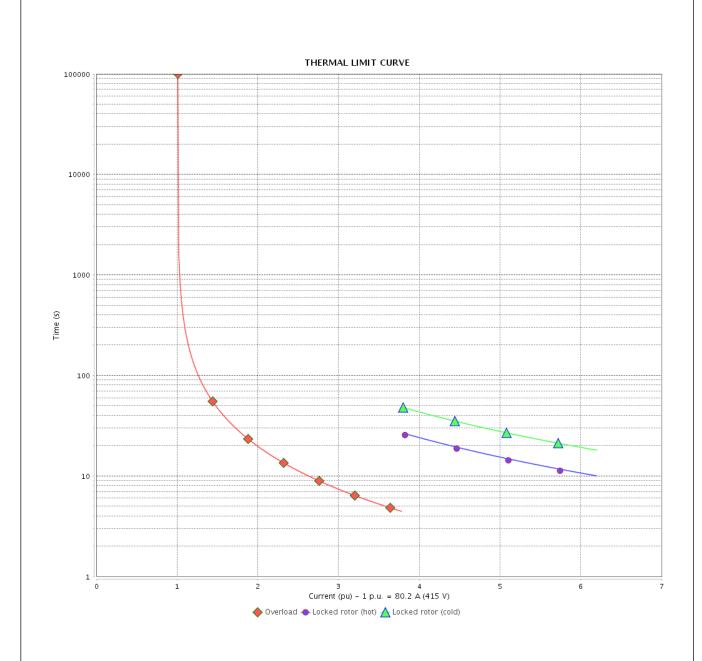


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	11901224	
		(Catalog # :	06018ET3E36	64JP-W22
Performance	: 415 V 50 Hz 4P IE2	1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 80.2 A : 6.2 : 213 ft.lb : 200 % : 229 % : 1480 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer :

Date

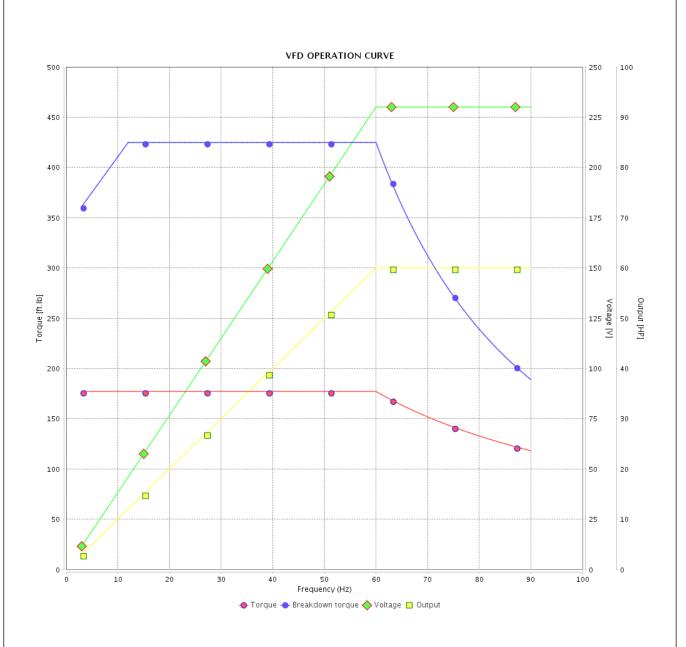
13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11901224

Catalog #: 06018ET3E364JP-W22



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 Page Checked by Revision

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Three Phase Induction Motor - Squirrel Cage



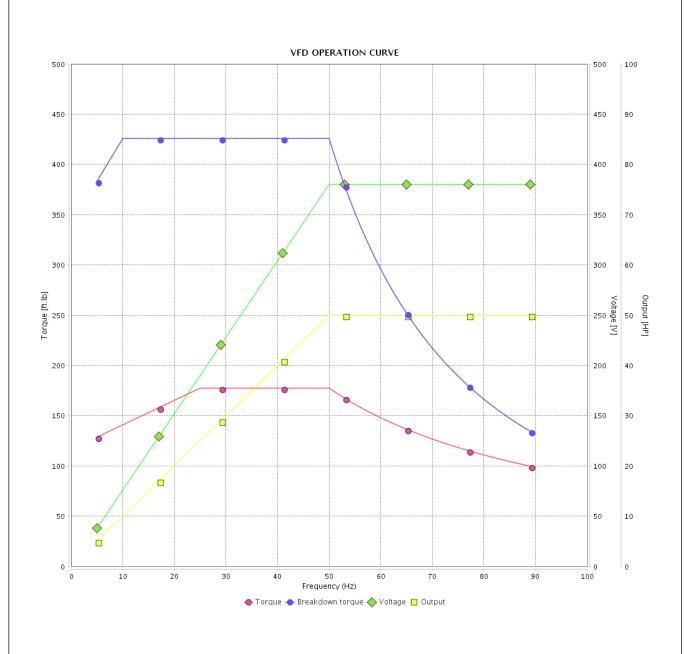
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11901224

Phase

Catalog #: 06018ET3E364JP-W22

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formance	: 380 V 50 Hz 4P IE3				
ed current ced torque ked rotor torque akdown torque ed speed	: 71.0 A : 6.3 : 177 ft.lb : 200 % : 240 % : 1480 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

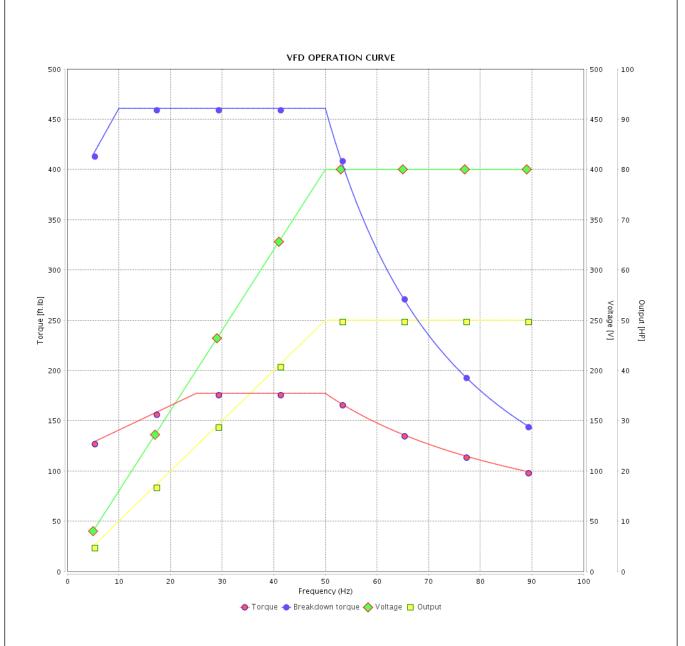
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11901224

Catalog #: 06018ET3E364JP-W22

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.1 A : 6.9 : 177 ft.lb : 220 % : 260 % : 1480 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

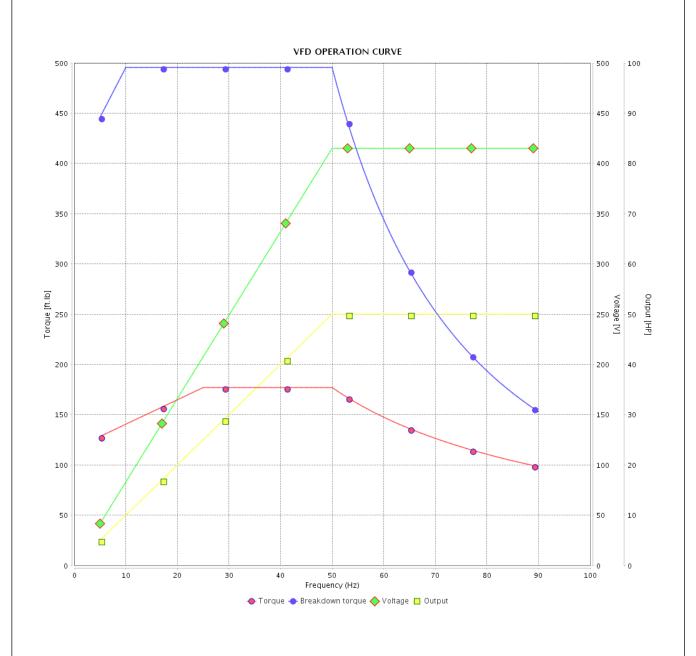


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11901224

Phase

Catalog #: 06018ET3E364JP-W22



Performance	: 4	115 V 50 Hz 4P IE3				
Rated current	: 6	67.4 A	Moment o	f inertia (J)	: 22.4 sq.ft.lb	
LRC	: 7	7.4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	177 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	240 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	280 %	Temperature rise		: 80 K	
Rated speed	: 1	1485 rpm	Design		: B	
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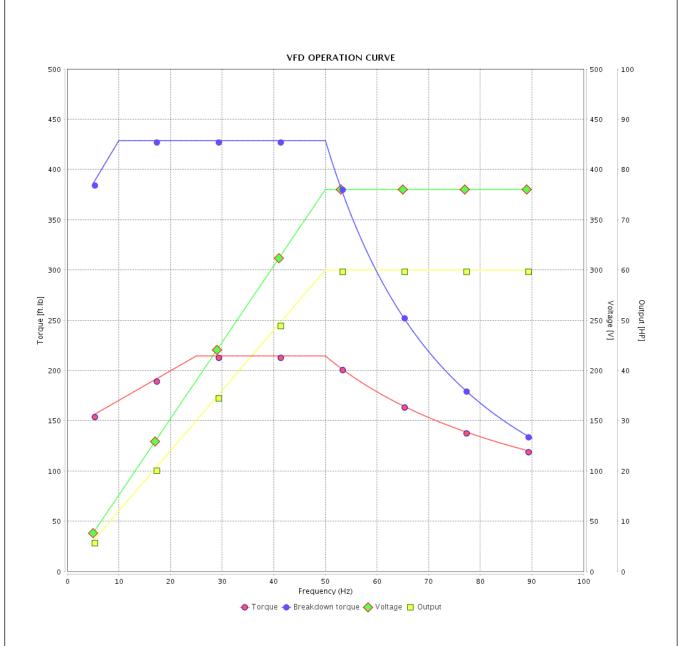
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11901224

Catalog #: 06018ET3E364JP-W22



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

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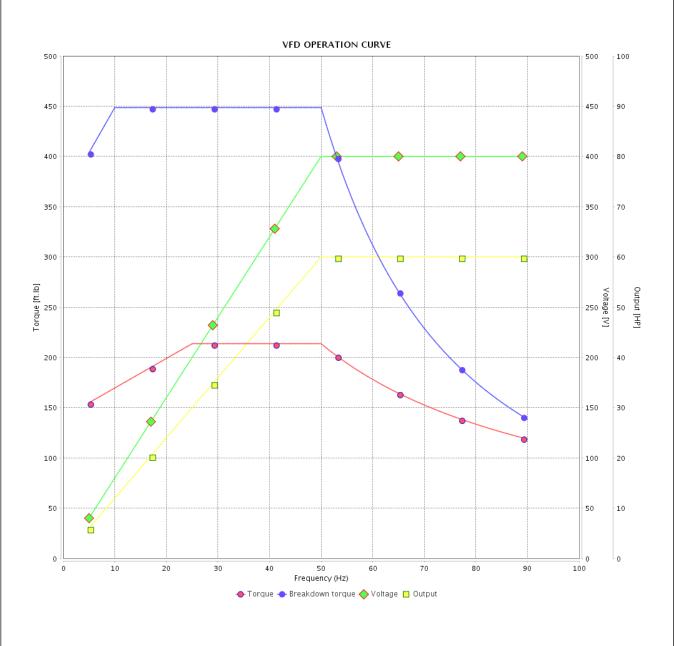
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11901224

Phase

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 82.6 A : 5.8 : 214 ft.lb : 180 % : 210 % : 1475 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 22.4 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage



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Phase

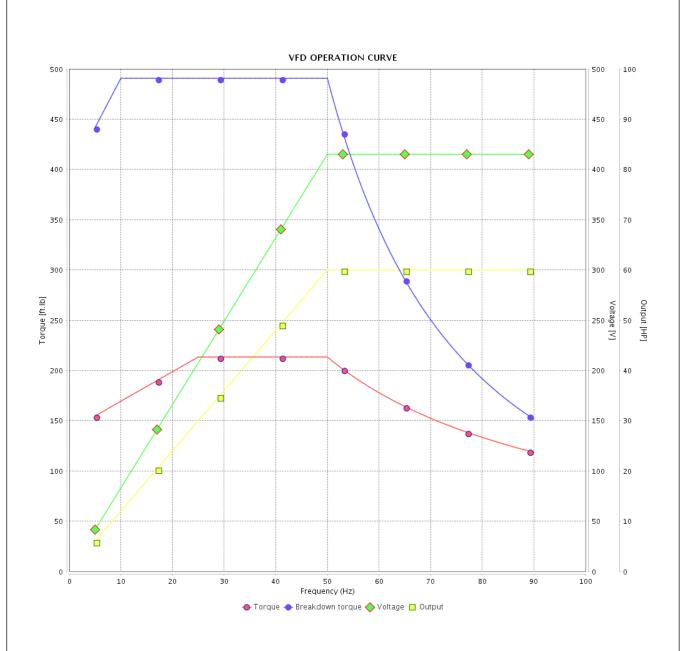
Product code: 11901224

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

