DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11641713

Catalog #: 04012ET3E364JP-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. Approx. weight³ : 921 lb Altitude

Protection degree · IP55 Moment of inertia (J) : 21.8 sq.ft.lb

Protection degree		: IP55		Momer	it of inertia (J)	: 2	1.8 sq.ft.lb	
Design		: B						
Output [HP]		40	30	30	30	40	40	40
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		93.0/46.5	42.0	40.2	39.6	56.5	53.9	52.2
L. R. Amperes [A]		595/298	269	289	305	277	296	313
LRC [A]		6.4x(Code	6.4x(Code	7.2x(Code H)	7.7x(Code J)	4.9x(Code E)	5.5x(Code F)	6.0x(Code
		G)	G)					G)
No load current [A]		34.0/17.0	16.8	17.9	18.7	16.8	17.9	18.7
Rated speed [RPM	1]	1185	985	985	990	980	980	985
Slip [%]		1.25	1.50	1.50	1.00	2.00	2.00	1.50
Rated torque [ft.lb]		177	160	160	159	214	214	213
Locked rotor torqu	e [%]	200	210	240	270	160	180	200
Breakdown torque	[%]	240	250	280	310	190	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	80 K	80 K	80 K
Locked rotor time		37s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)	32s (cold)
		21s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)	18s (hot)
Noise level ²		66.0 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%	93.1	92.5	92.2	91.6	93.5	93.4	92.9
Efficiency (%)	50%	93.6	92.4	92.3	91.9	93.0	93.0	93.0
Elliciency (70)	75%	93.6	92.8	93.1	93.0	92.4	93.0	93.0
	100%	94.1	92.5	93.0	93.2	91.7	92.4	93.0
	25%	0.47	0.43	0.41	0.38	0.53	0.50	0.47
Power Factor	50%	0.73	0.68	0.66	0.63	0.78	0.76	0.73
Fower Factor	75%	0.82	0.80	0.79	0.76	0.85	0.84	0.82
	100%	0.86	0.86	0.85	0.83	0.88	0.87	0.86

Non drive end Drive end Foundation loads

Bearing type 6314 C3 6314 C3 Max. traction : 1218 lb Sealing Lip Seal Lip Seal : 2139 lb Max. compression 17000 h

17000 h Lubrication interval Lubricant amount 27 g 27 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 103A SF 1.10 SFA 113A

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



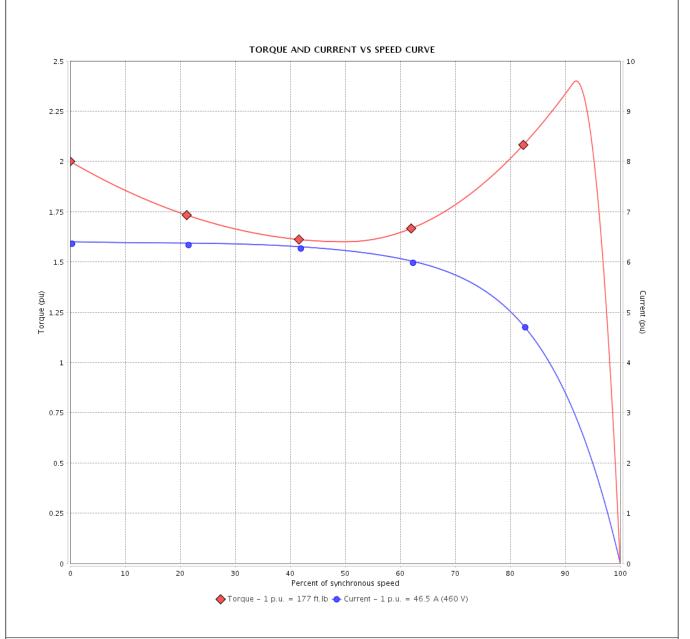
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04012ET3E364JP-W22

11641713



Performance : 230/460 V 60 Hz 6P Rated current : 93.0/46.5 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 177 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

Locked rotor time : 37s (cold) 21s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11641713 Catalog #: 04012ET3E364JP-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. = 160 ft.lb ◆ Current - 1 p.u. = 42.0 A (380 V) Performance : 380 V 50 Hz 6P IE3 Rated current : 42.0 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 160 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 985 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Rev. Performed Checked Date **Changes Summary** Performed by

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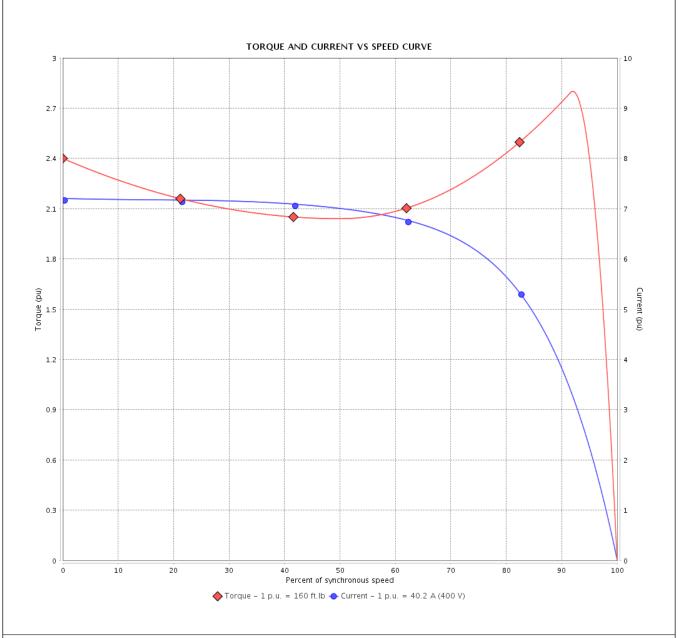
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 04012ET3E364JP-W22

11641713



Performance : 400 V 50 Hz 6P IE3 Rated current : 40.2 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 160 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11641713 Catalog #: 04012ET3E364JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 159 ft.lb ◆ Current - 1 p.u. = 39.6 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 39.6 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 159 ft.lb Insulation class Rated torque : F : 270 % Locked rotor torque Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 990 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Rev. Performed Checked Date **Changes Summary** Performed by

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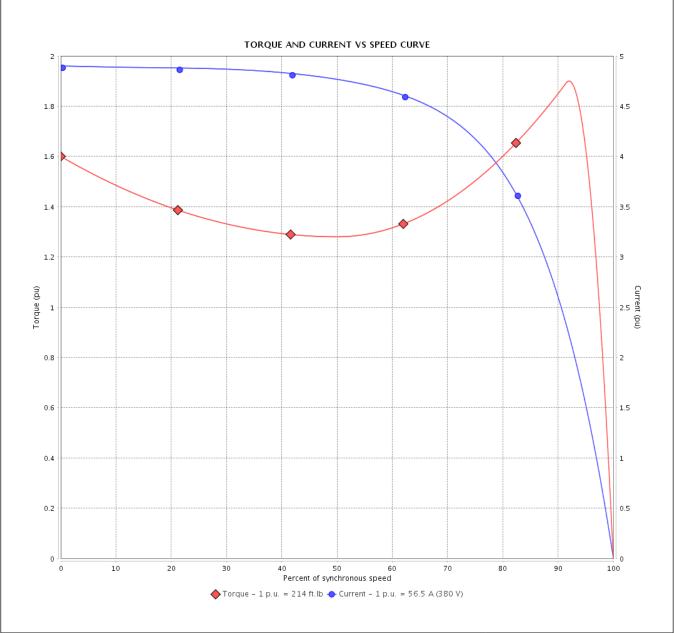
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Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11641713

Catalog #: 04012ET3E364JP-W22



Performance	: 380 V 50 Hz 6P IE2		
Rated current	: 56.5 A	Moment of inertia (J) Duty cycle	: 21.8 sq.ft.lb
LRC	: 4.9		: Cont.(S1)
Rated torque	: 214 ft.lb	Insulation class Service factor	: F
Locked rotor torque	: 160 %		: 1.00
Breakdown torque	: 190 %	Temperature rise Design	: 80 K
Rated speed	: 980 rpm		: B
Locked roter time	: 32s (cold) 18s (hot)		

Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11641713 Catalog #: 04012ET3E364JP-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75

0 10	20 30	40 50 Percent of synchronous	60 70 speed	80	90	100
	◆ Torque - :	1 p.u. = 214 ft.lb 🔷 Current -	1 p.u. = 53.9 A (400 V)			
Performance	: 400 V 50 Hz 6P	IE2				
Rated current	: 53.9 A	Momen	t of inertia (J)	: 21.8 s	q.ft.lb	
LRC	: 5.5	Duty cy	cle	: Cont.(S1)	
Rated torque	: 214 ft.lb	Insulation	on class	: F		
Locked rotor torque	: 180 %	Service	factor	: 1.00		
Breakdown torque	: 210 %	Temper	ature rise	: 80 K		
Rated speed	: 980 rpm	Design		: B		

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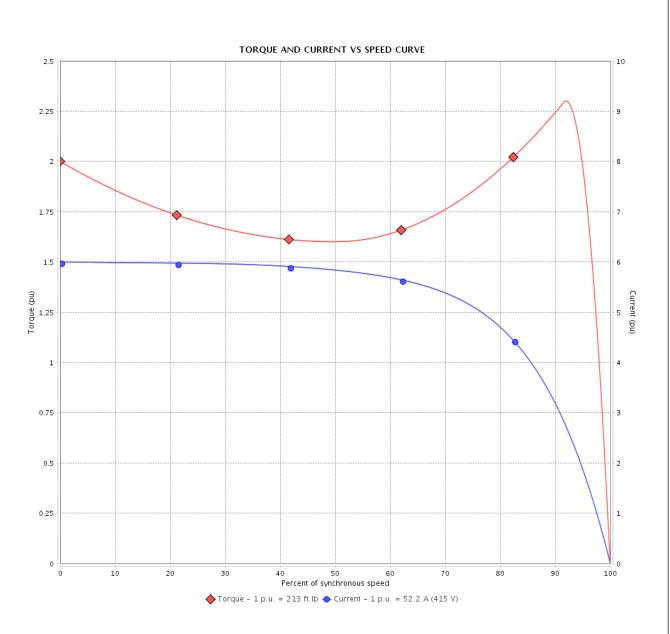


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11641713

Phase

Catalog #: 04012ET3E364JP-W22



Performance	: 415 V 50 Hz 6P IE3		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 52.2 A : 6.0 : 213 ft.lb : 200 % : 229 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B

Locked rotor time : 32s (cold) 18s (hot)

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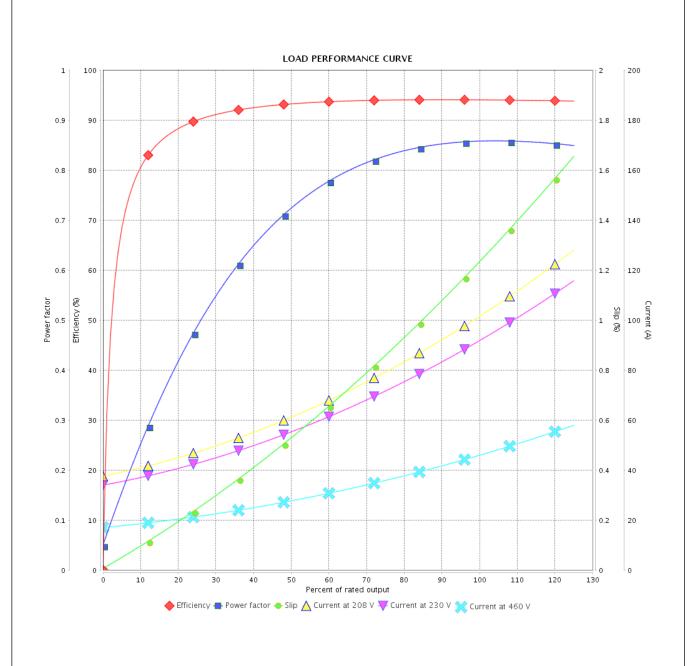


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11641713

Phase

Catalog #: 04012ET3E364JP-W22



Performance	: 2	230/460 V 60 Hz 6P				
Rated current	: 9	93.0/46.5 A	Moment o	f inertia (J)	: 21.8 sq.ft.lb	
LRC	: 6	6.4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	177 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	200 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	240 %	Temperati	ıre rise	: 80 K	
Rated speed	: ′	1185 rpm	Design		: B	
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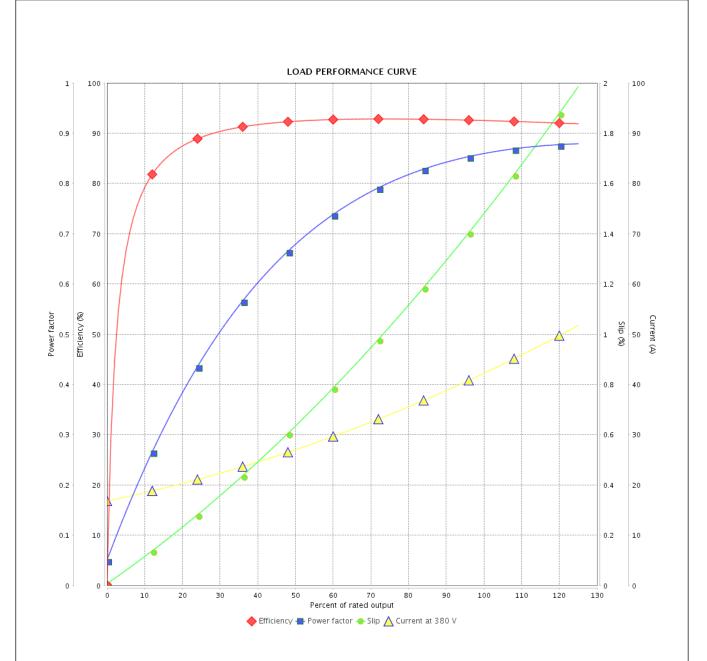
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 04012ET3E364JP-W22

11641713

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Performance	: 3	80 V 50 Hz 6P IE	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 que : 2 ue : 2	2.0 A .4 60 ft.lb 10 % 50 % 85 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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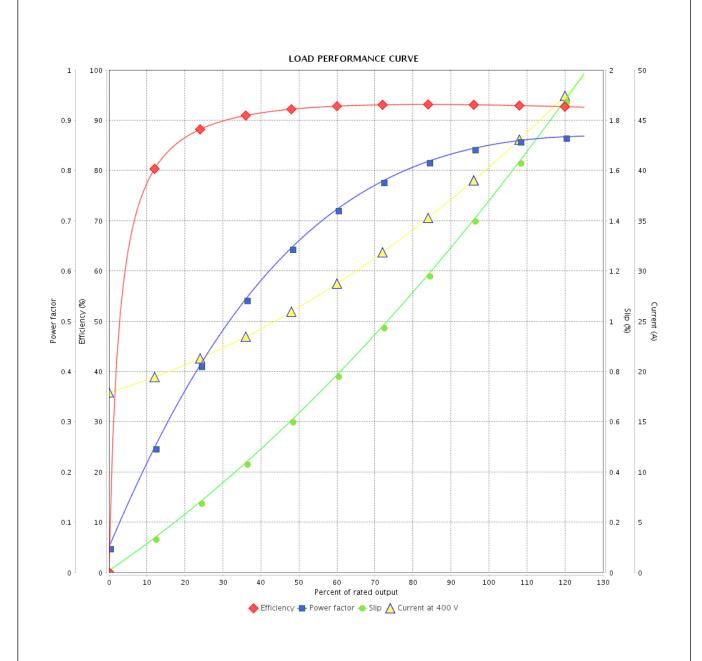
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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.2 A : 7.2 : 160 ft.lb : 240 % : 280 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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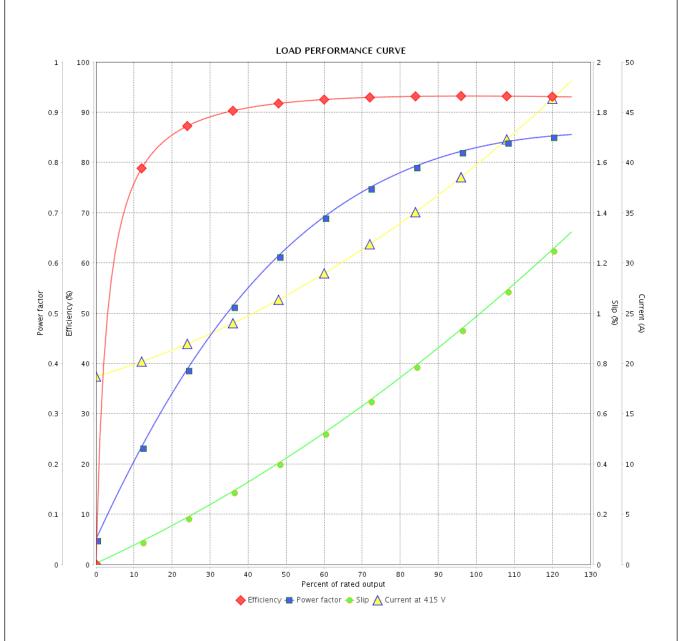
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Performance	: 415 V 50 Hz 6P IE3				
Rated current : 39.6 A		Moment of inertia (J)		: 21.8 sq.ft.lb	
LRC	: 7.7	Duty cycle		: Cont.(S1)	
Rated torque	: 159 ft.lb	Insulation class		: F	
Locked rotor torque	: 270 %	Service factor		: 1.00	
Breakdown torque	: 310 %	Temperature rise		: 80 K	
Rated speed	: 990 rpm	Design		: B	
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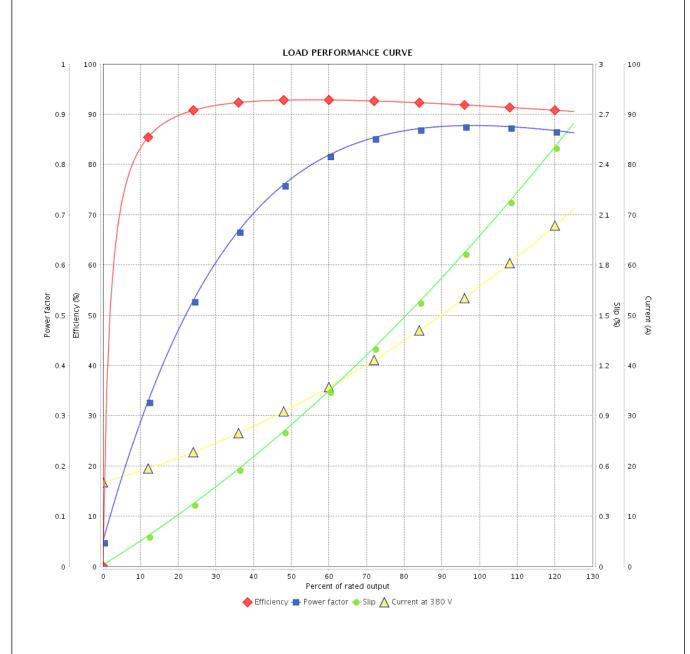
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Product line : NEMA Premium Efficiency Three- Product code : 11641713

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Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 56.5 A : 4.9 : 214 ft.lb : 160 % : 190 % : 980 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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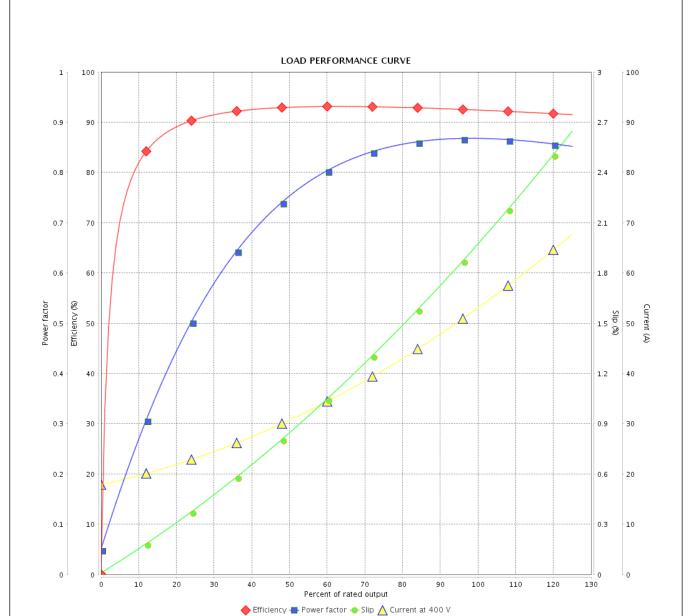
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Performance	: 400 V 50 Hz 6P IE2					
Rated current : 53.9 A LRC : 5.5 Rated torque : 214 ft.lb Locked rotor torque : 180 % Breakdown torque : 210 % Rated speed : 980 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	: Cont.(\$1) : F : 1.00 : 80 K	
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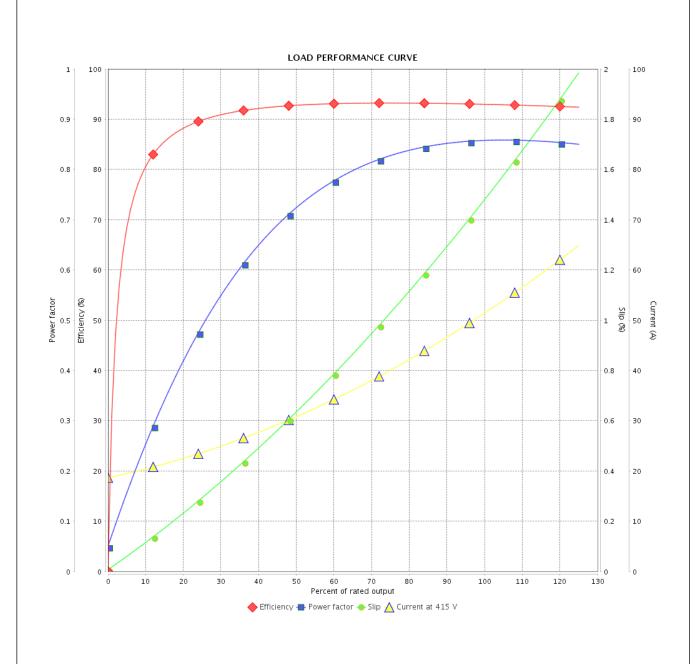


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Product line : NEMA Premium Efficiency Three- Product code : 11641713

Phase

Catalog #: 04012ET3E364JP-W22



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current : 52.2 A		Moment o	of inertia (J)	: 21.8 sq.ft.lb		
LRC	: 6	5.0	Duty cycle	Э	: Cont.(S1)	
Rated torque : 2		13 ft.lb	Insulation	class	: F	
Locked rotor torque		.00 %	Service fa	octor	: 1.00	
Breakdown torqu	ie : 2	229 % Temperature r		ture rise : 80 K		
Rated speed	: 9	185 rpm	Design		: B	
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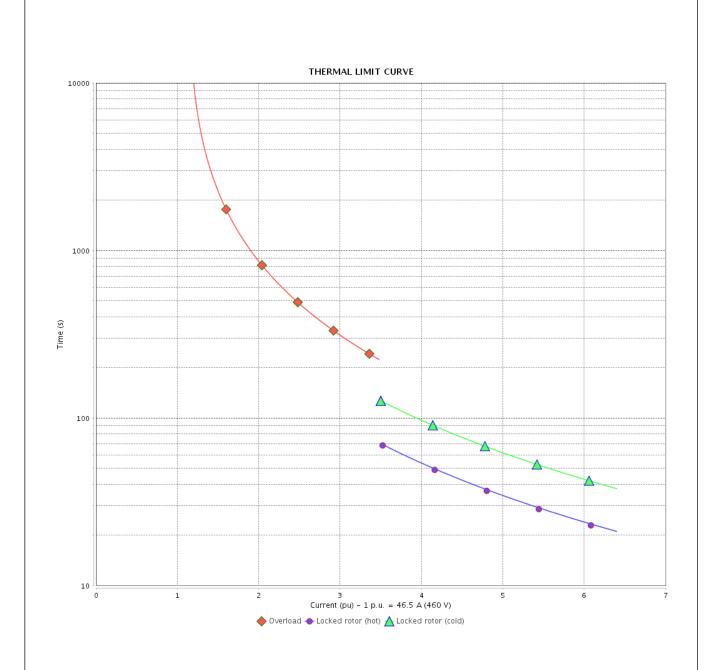


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	11641713 04012ET3E36	64JP-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 90 : 6. : 11 : 20 : 2	30/460 V 60 Hz 6P 3.0/46.5 A 4 77 ft.lb 00 % 40 % 185 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 21.8 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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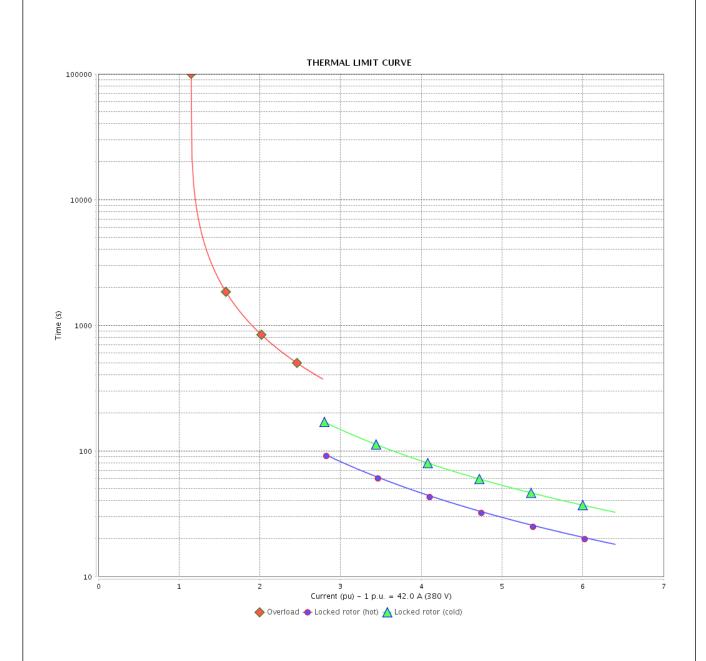


Customer	:				
Product line	: NEMA Premium Efficiency ¹ Phase	Three-	Product code :	11641713	
			Catalog # :	04012ET3E36	64JP-W22
Performance	: 380 V 50 Hz 6P IE3				
LRC Rated torque Locked rotor torque Breakdown torque	: 42.0 A : 6.4 : 160 ft.lb : 210 % : 250 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	. 550 (\$11)	200gii			
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Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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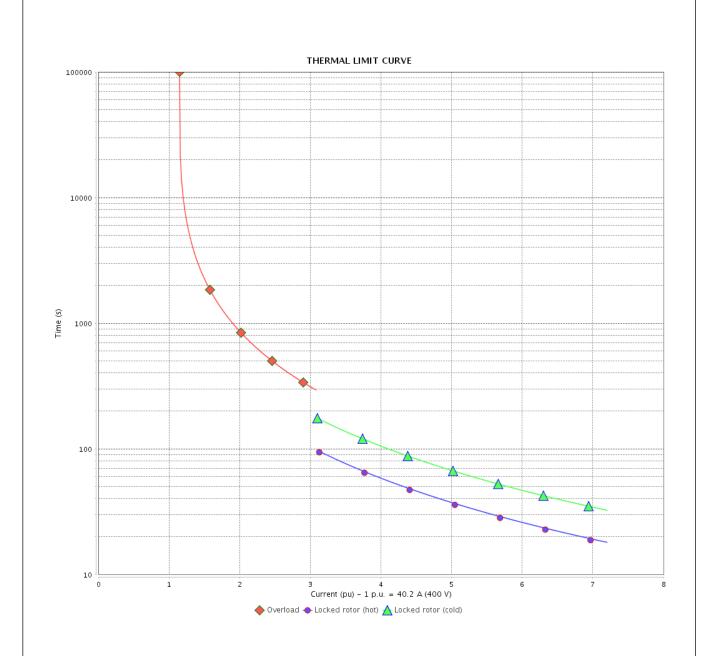


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Product line		NEMA Premium Efficiency Thase	Γhree- I	Product code :	11641713	
		iase	(Catalog # :	04012ET3E36	64JP-W22
Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40 : 7. : 16 ue : 24 e : 28).2 A	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant		•				
Cooling constant						
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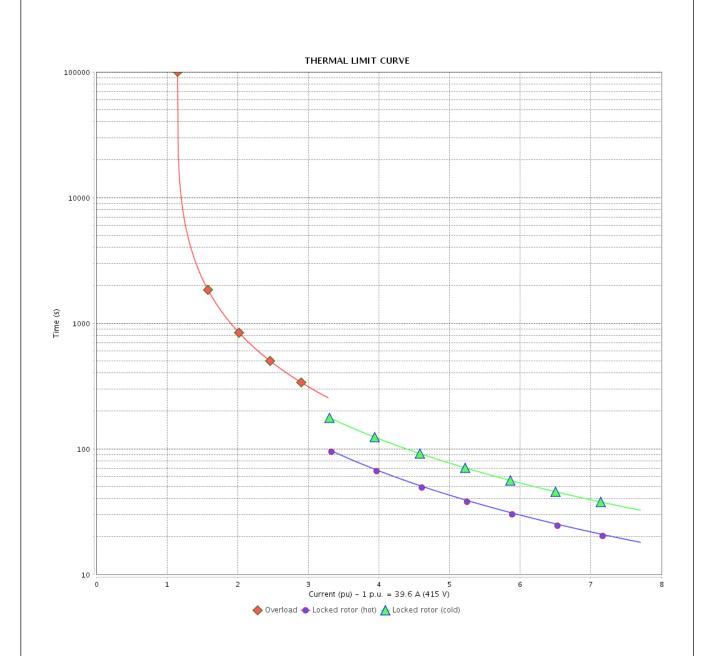


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11641713	
				Catalog # :	04012ET3E36	64JP-W22
Performance		: 415 V 50 Hz 6P IE3				
Rated current		: 39.6 A	Moment of	of inertia (J)	: 21.8 sq.ft.lb	
LRC Rated torque		: 7.7 : 159 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 270 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 310 % : 990 rpm	Temperat Design	ure rise	: 80 K : B	
		. 550 ipili	Dodgii			
Heating constant Cooling constant						
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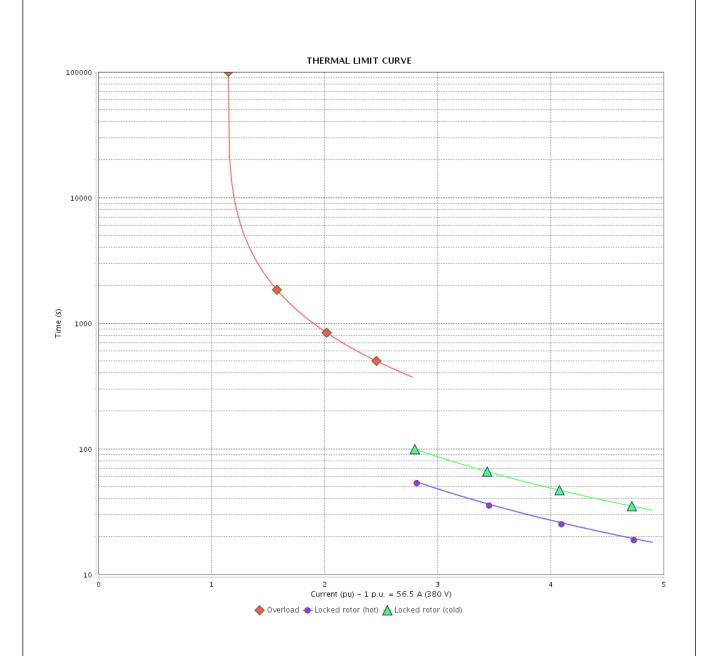


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11641713	
				Catalog # :	04012ET3E36	64JP-W22
Performance		: 380 V 50 Hz 6P IE2				
Rated current		: 56.5 A	Moment o	of inertia (J)	: 21.8 sq.ft.lb	
LRC Rated torque	;	: 4.9 : 214 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torq	ue :	: 160 %	Service fa	actor	: 1.00	
Breakdown torque Rated speed		: 190 % : 980 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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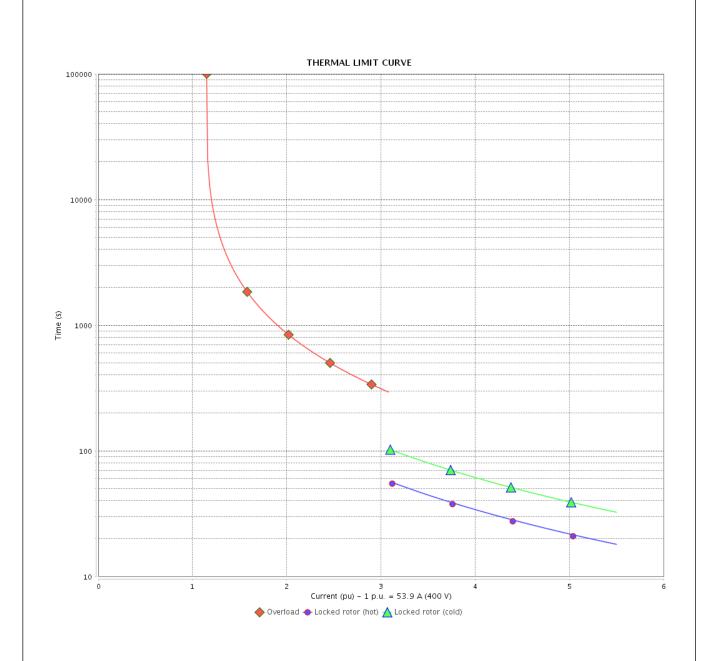


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Product line	: N	NEMA Premium Efficiency hase	Three-	Product code :	11641713	
		nase		Catalog # :	04012ET3E3	64JP-W22
Performance		00 V 50 Hz 6P IE2				
Rated current LRC	: 53 : 5.	3.9 A 5	Moment of Duty cycle	f inertia (J)	: 21.8 sq.ft.lb : Cont.(S1)	
Rated torque	: 21	14 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		30 % 10 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		30 rpm	Design		: B	
Heating constant						
Cooling constant						
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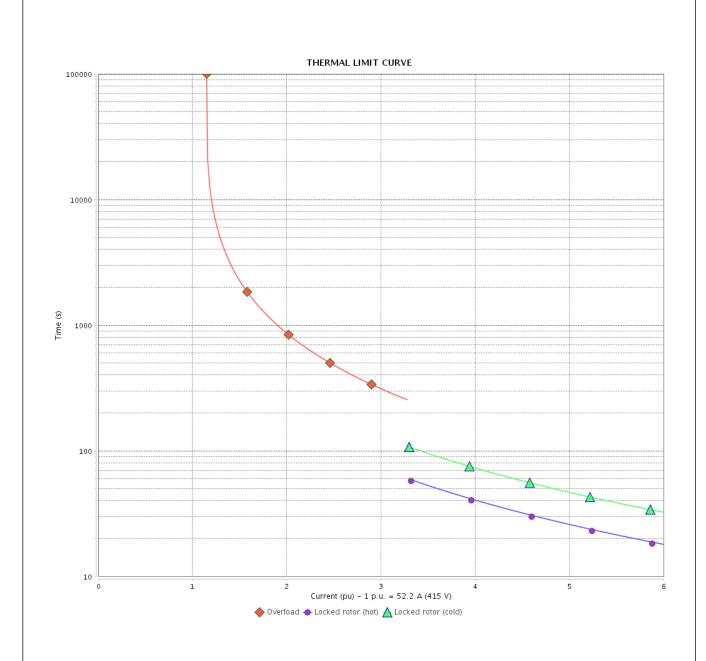


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11641713 04012ET3E36	34JP-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 52 : 6. : 2° : 20 : 22	15 V 50 Hz 6P IE3 2.2 A 0 13 ft.lb 00 % 29 % 35 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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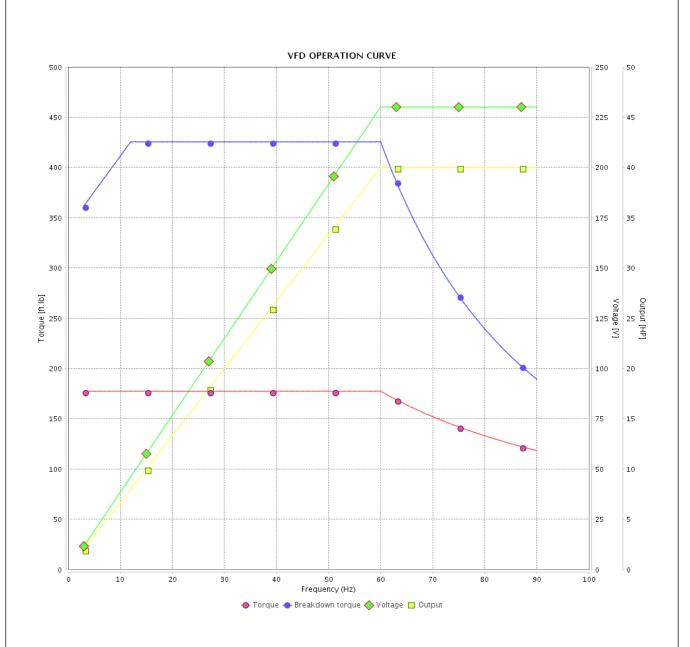


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11641713

Catalog #: 04012ET3E364JP-W22



Performance : 230/460 V 60 Hz 6P Rated current : 93.0/46.5 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 Insulation class : 177 ft.lb : F Rated torque Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



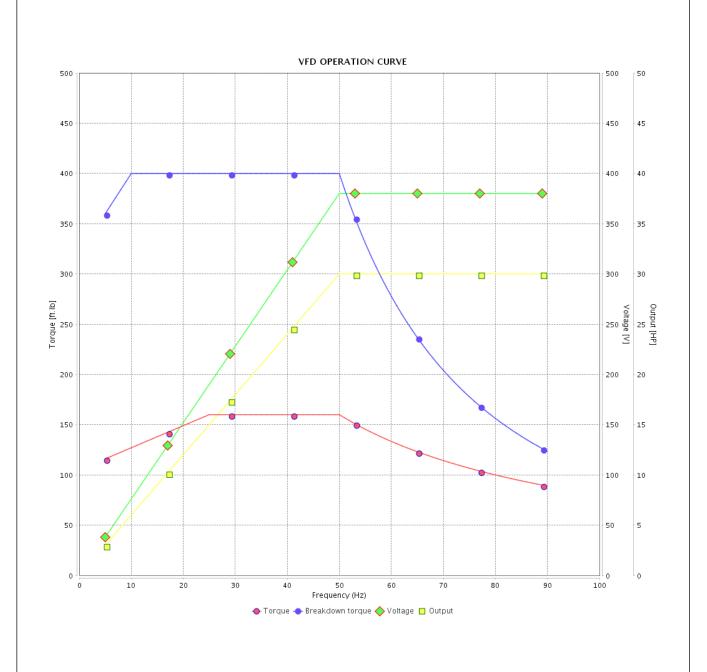
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11641713

Phase

Catalog #: 04012ET3E364JP-W22

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Performance	: 380 V 50 Hz 6P IE3	Hz 6P IE3			
Rated current	: 42.0 A	Moment o	f inertia (J)	: 21.8 sq.ft.lb	
LRC	: 6.4	Duty cycle	;	: Cont.(S1)	
Rated torque	: 160 ft.lb	10 % Service factor Temperature rise		: F	
Locked rotor torque	: 210 %			: 1.00	
Breakdown torque	: 250 %			: 80 K	
Rated speed	: 985 rpm			: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

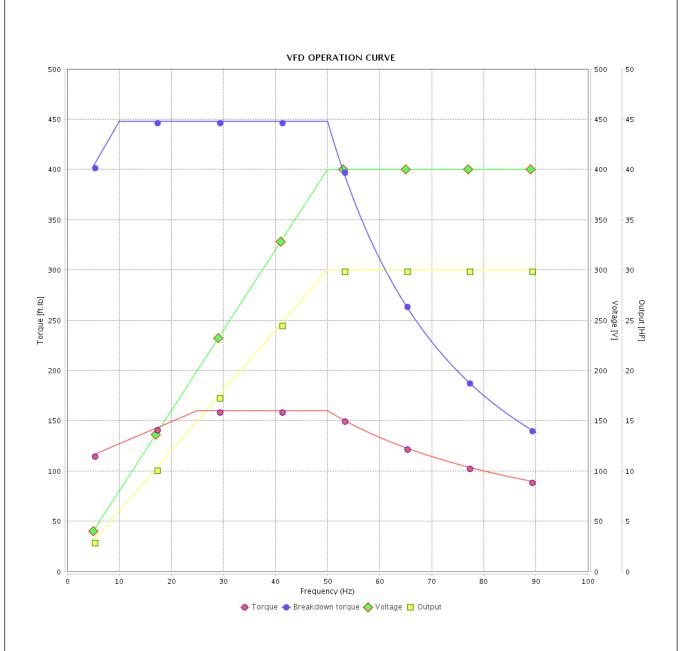
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11641713

Catalog #: 04012ET3E364JP-W22

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Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 16 que : 24	0.2 A 2 60 ft.lb 40 % 30 % 35 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Checked by					Page	Revision

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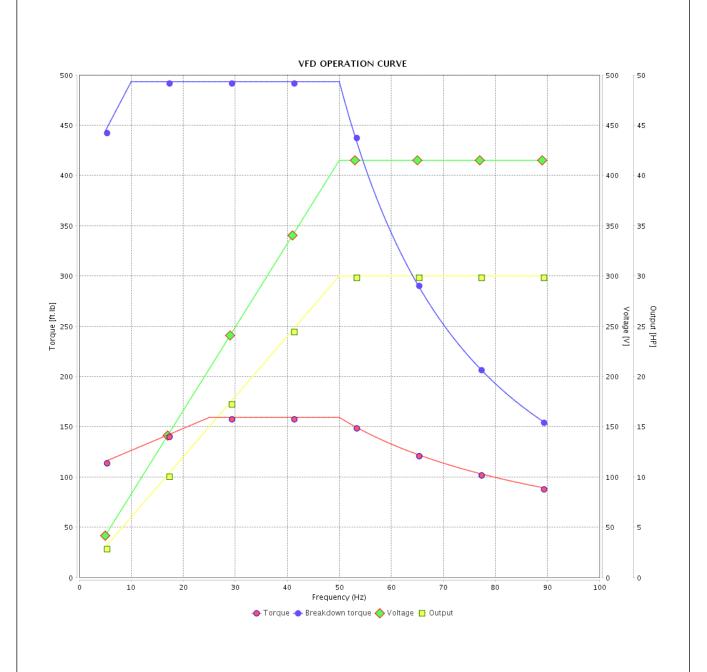
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11641713

Catalog #: 04012ET3E364JP-W22



Performance	: 4	15 V 50 Hz 6P IE3	}			
Rated current	: 3	9.6 A	Moment of inertia (J)		: 21.8 sq.ft.lb	
LRC	: 7	.7	Duty cycle	;	: Cont.(S1)	
Rated torque	:1	59 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	70 %	Service fa	Service factor		
Breakdown torque	: 3	10 %	Temperati	Temperature rise		
Rated speed	: 9	90 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



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Date

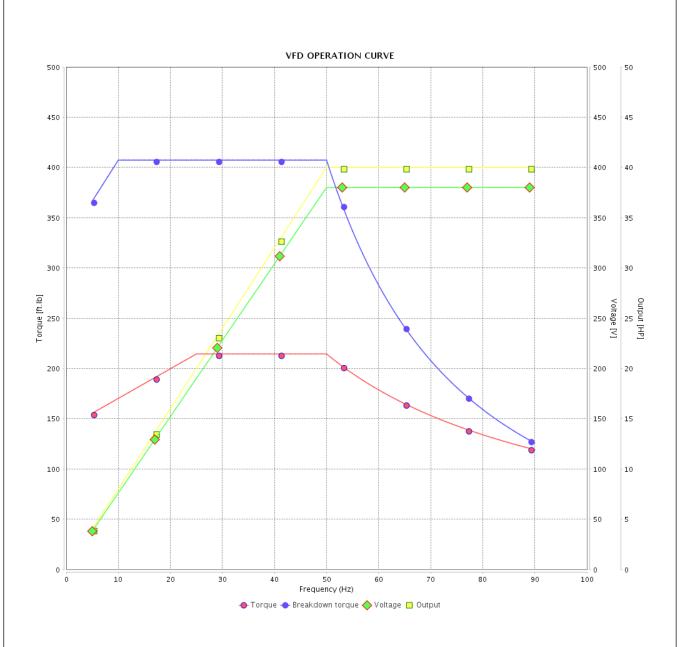
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11641713

Catalog #: 04012ET3E364JP-W22



Performance : 380 V 50 Hz 6P IE2 Rated current : 56.5 A Moment of inertia (J) : 21.8 sq.ft.lb **LRC** : 4.9 Duty cycle : Cont.(S1) Insulation class : 214 ft.lb : F Rated torque Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 80 K Rated speed : 980 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



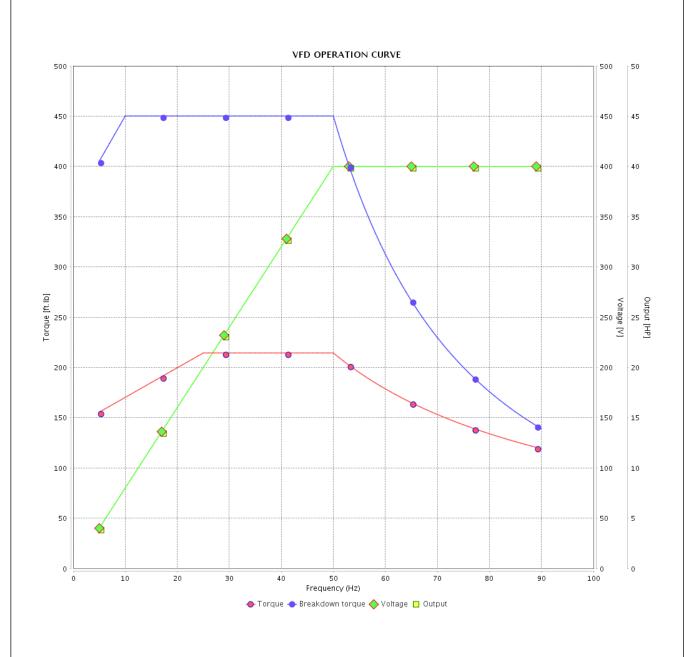
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11641713

Phase

Catalog #: 04012ET3E364JP-W22

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Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 53.9 A : 5.5 : 214 ft.lb : 180 % : 210 % : 980 rpm	Moment of inertia (J) : 21.8 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product

Phase

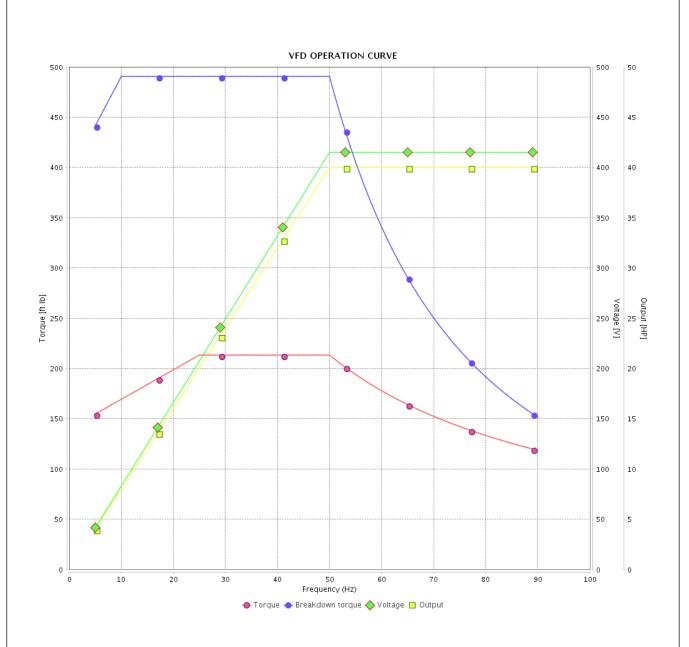
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Revision



Performance		: 415 V 50 I	Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 52.2 A : 6.0 : 213 ft.lb : 200 % : 229 % : 985 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 21.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Change	s Summary		Performed	Checked	Date
Performed by				_			

