DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13039455

Phase

Catalog #: 03012ET3E326JP-W22

Frame : 324/6JP Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 607 lb

Protection degre Design	е	: IP55 : B		Momer	nt of inertia (J)	: 1	3.2 sq.ft.lb	
Output [HP]		30	25	25	25	30	30	30
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]								
		72.4/36.2	36.9	36.2	35.4 237	43.7	41.7	40.7
L. R. Amperes [A]		449/224	214	228		214	225	236
LRC [A]		6.2x(Code	,	6.3x(Code H)	6.7x(Code H)	4.9x(Code E)	5.4x(Code F)	5.8x(Code
	_	G)	G)				1-0	G)
No load current [A		29.0/14.5	14.0	15.0	16.0	14.0	15.0	16.0
Rated speed [RPN	<i>/</i> 1]	1180	975	980	980	970	975	980
Slip [%]		1.67	2.50	2.00	2.00	3.00	2.50	2.00
Rated torque [ft.lb]]	134	135	134	134	162	162	161
Locked rotor torqu	e [%]	220	190	220	240	160	180	200
Breakdown torque	[%]	240	229	260	280	200	220	240
Service factor		1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		37s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)
		21s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)
Noise level ²		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)
	25%	91.5	91.2	91.2	90.4	92.1	92.1	91.3
□ff: -: · · (0/)	50%	91.7	91.3	91.3	90.7	91.7	91.7	91.0
Efficiency (%)	75%	93.0	91.8	92.2	91.9	91.7	92.4	92.4
	100%	93.0	91.7	92.1	92.0	91.0	91.7	91.7
	25%	0.41	0.41	0.39	0.36	0.48	0.44	0.41
	50%	0.65	0.64	0.61	0.58	0.71	0.68	0.65
Power Factor	75%	0.76	0.76	0.74	0.71	0.80	0.78	0.76
	100%	0.82	0.83	0.80	0.79	0.84	0.83	0.82

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6312 C3 6212 C3 Max. traction : 1177 lb Sealing : V'Ring V'Ring Max. compression : 1784 lb

Lubrication interval : 20000 h 20000 h Lubricant amount : 21 g 13 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 79.2A SF 1.15 SFA 91.0A

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



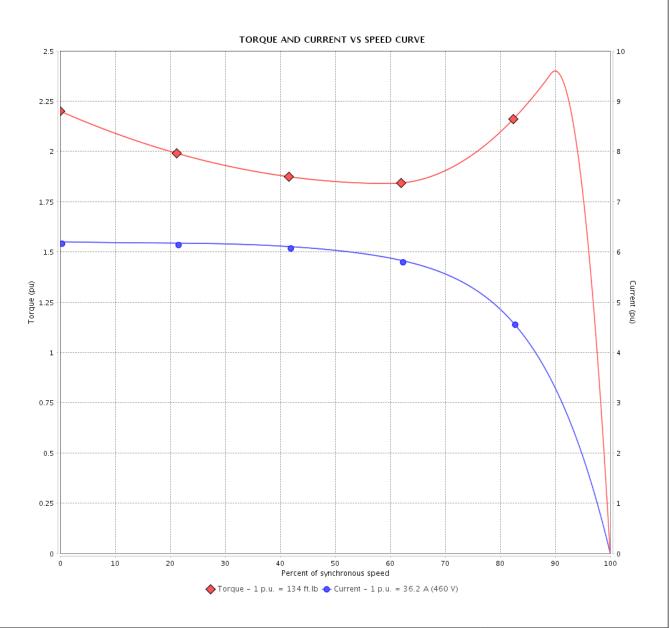
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13039455

Catalog #: 03012ET3E326JP-W22



Performance : 230/460 V 60 Hz 6P Rated current : 72.4/36.2 A Moment of inertia (J) : 13.2 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 134 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

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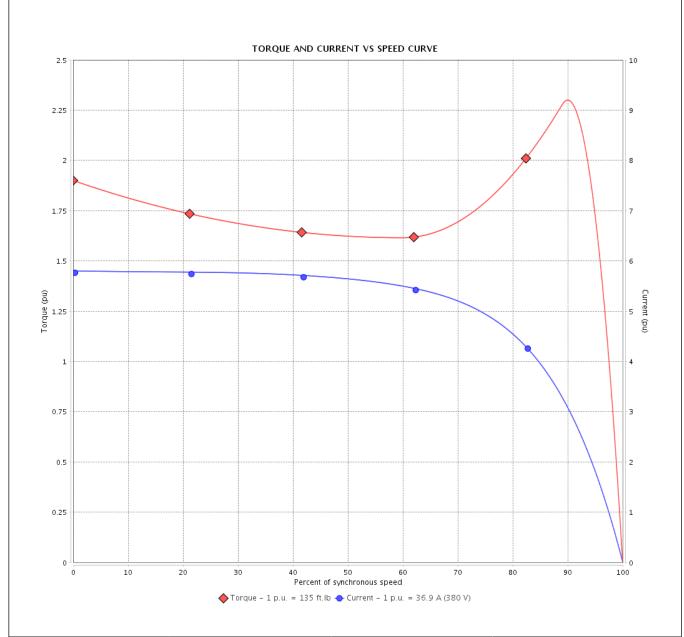


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13039455

Phase

Catalog #: 03012ET3E326JP-W22



Performance	: 380 V 50 Hz 6P IE3			
Rated current	: 36.9 A	Moment of inertia (J)	: 13.2 sq.ft.lb	
LRC	: 5.8	Duty cycle	: Cont.(S1)	
Rated torque	: 135 ft.lb	Insulation class	: F	
Locked rotor torque	: 190 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 975 rpm	Design	: B	
Locked roter time	: 27s (cold) 15s (bot)			

LOCKCU TOLOT LITT	. 2	73 (cold) 103 (flot)			
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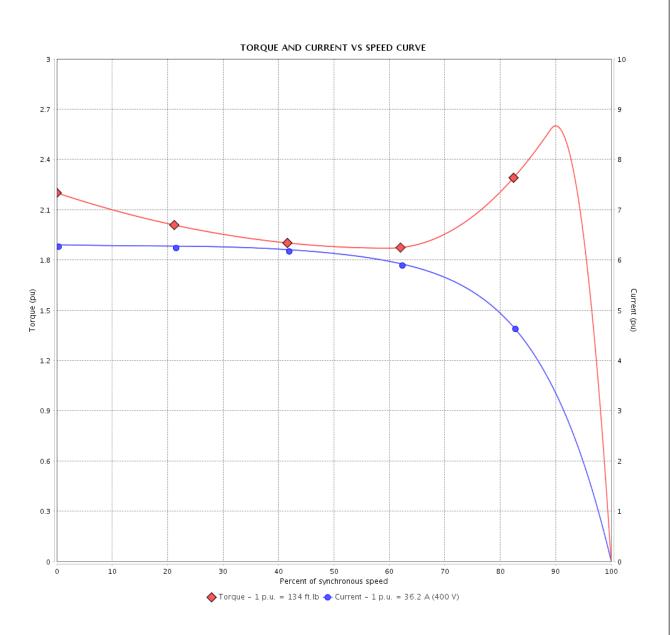


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13039455

Phase

Catalog #: 03012ET3E326JP-W22



Performance : 400 V 50 Hz 6P IE3 Rated current : 36.2 A Moment of inertia (J) : 13.2 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 134 ft.lb : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 980 rpm Design : B

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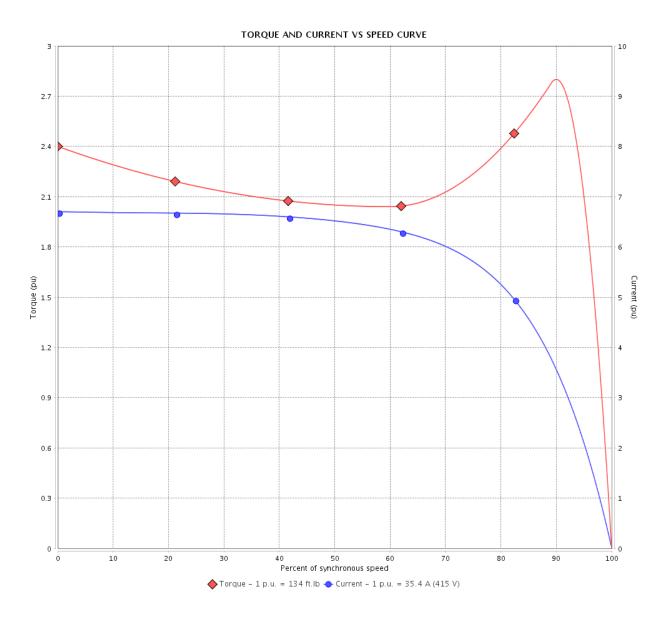


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Phase

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Performance	: 415 V 50 Hz 6P IE3			
Rated current	: 35.4 A	Moment of inertia (J)	: 13.2 sq.ft.lb	
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.15	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	

LOCKCU TOLOT LITT	. 2	73 (cold) 103 (110t)			
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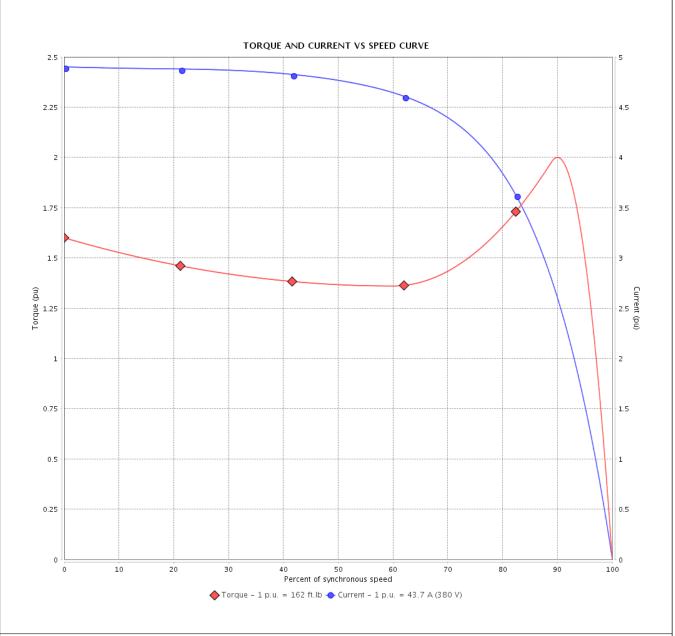
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13039455

Catalog #: 03012ET3E326JP-W22



Performance	: 380 V 50 Hz 6P IE2			
Rated current	: 43.7 A	Moment of inertia (J)	: 13.2 sq.ft.lb	
LRC	: 4.9	Duty cycle	: Cont.(S1)	
Rated torque	: 162 ft.lb	Insulation class	: F	
Locked rotor torque	: 160 %	Service factor	: 1.00	
Breakdown torque	: 200 %	Temperature rise	: 80 K	
Rated speed	: 970 rpm	Design	: B	
Looked votov time	. 27a (aald) 15a (bat)	-		

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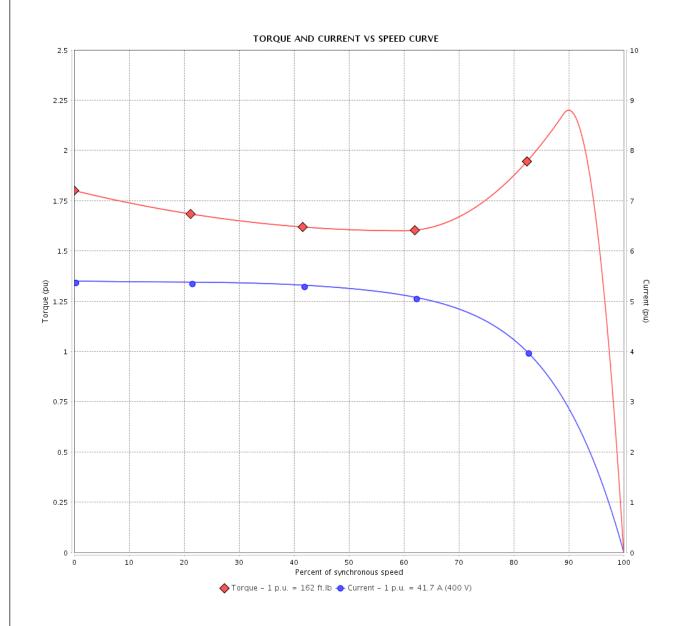


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Product line : NEMA Premium Efficiency Three- Product code : 13039455

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Performance	: 400 V 50 Hz 6P IE2			
Rated current	: 41.7 A	Moment of inertia (J)	: 13.2 sq.ft.lb	
LRC	: 5.4	Duty cycle	: Cont.(S1)	
Rated torque	: 162 ft.lb	Insulation class	:F	
Locked rotor torque	: 180 %	Service factor	: 1.15	
Breakdown torque	: 220 %	Temperature rise	: 80 K	
Rated speed	: 975 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			

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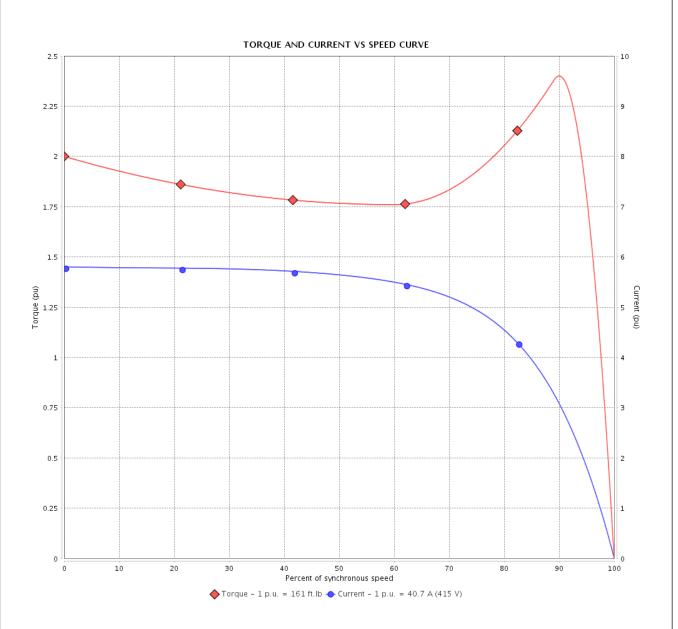


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Product line : NEMA Premium Efficiency Three-Product code:

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Performance	: 415 V 50 Hz 6P IE2			
Rated current	: 40.7 A	Moment of inertia (J)	: 13.2 sq.ft.lb	
LRC	: 5.8	Duty cycle	: Cont.(S1)	
Rated torque	: 161 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.15	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 980 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			
Locked folor liffle	. 275 (COIQ) 135 (1101)			

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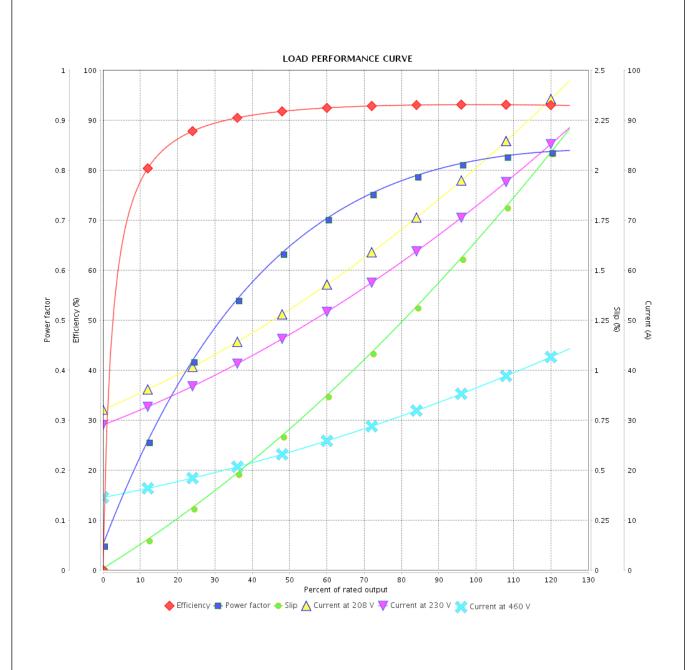
Customer :

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Phase

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Performance	: 2	230/460 V 60 Hz 6P				
Rated current	:	72.4/36.2 A	Moment o	f inertia (J)	: 13.2 sq.ft.lb	
LRC	: (6.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: '	134 ft.lb	Insulation	class	: F	
Locked rotor torque		220 %	Service fa	ctor	: 1.25	
Breakdown torque	e : 2	240 %	Temperat	ure rise	: 80 K	
Rated speed	: '	1180 rpm	Design		: B	
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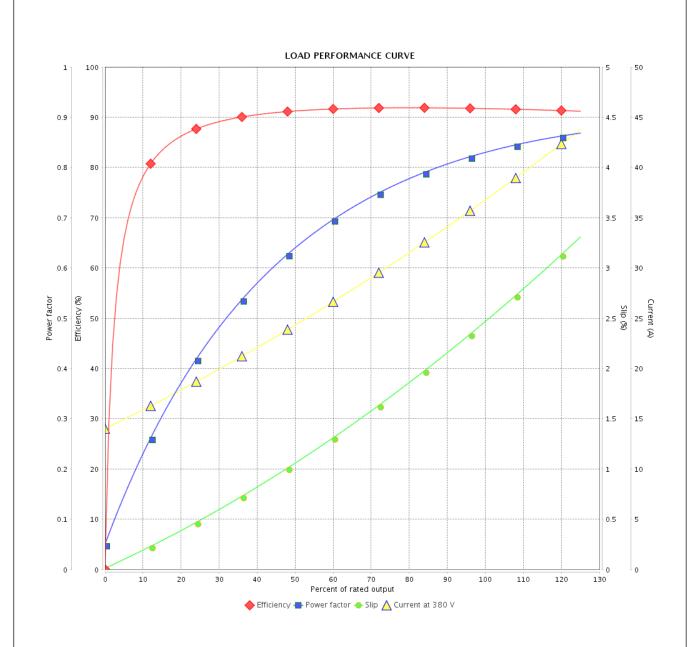
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Phase

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Performance	: 380 V 50 Hz 6P IE3				
Rated current	: 36.9 A	Moment o	f inertia (J)	: 13.2 sq.ft.lb	
LRC	: 5.8	Duty cycle)	: Cont.(S1)	
Rated torque	: 135 ft.lb	Insulation	class	: F	
Locked rotor torque	: 190 %	Service factor		: 1.00	
Breakdown torque	: 229 %	Temperature rise		: 80 K	
Rated speed	: 975 rpm	Design		: B	
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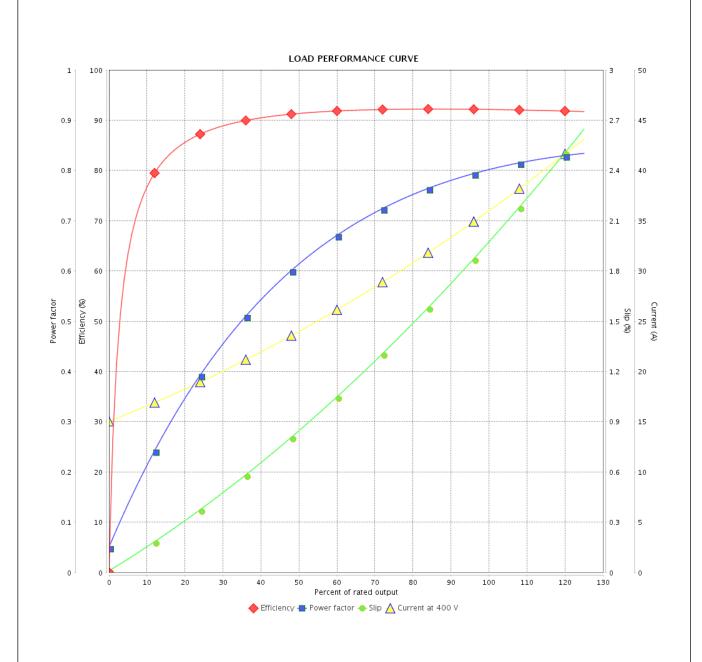
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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 36.2 A : 6.3 : 134 ft.lb : 220 % : 260 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rated speed Rev.	Changes Summary	Design	Performed	Checked	Date
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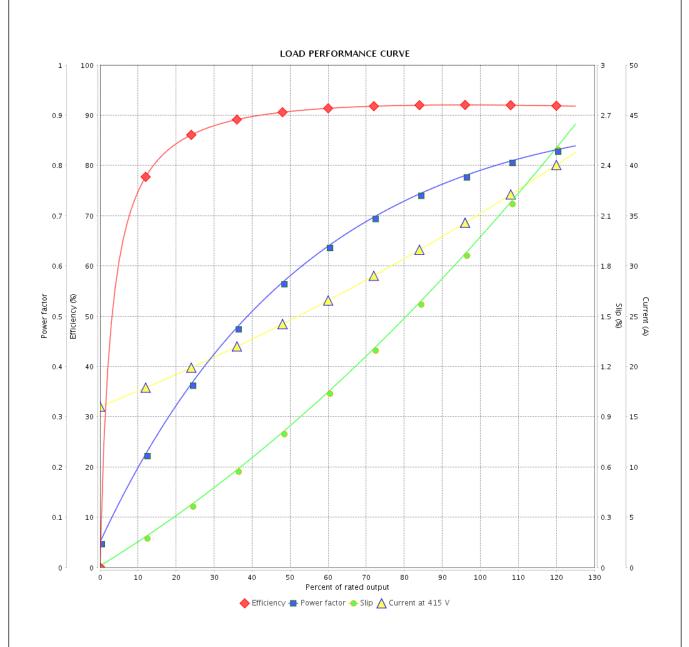
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Phase

Product code: 13039455

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	·					
Performance	: 41	15 V 50 Hz 6P IE	3			
Rated current	ted current : 35.4 A Mom		Moment of	Moment of inertia (J)		
LRC	: 6.	7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 13	34 ft.lb	Insulation	class	: F	
Locked rotor torque : 240 %		40 %	Service fa	Service factor		
Breakdown torque	Breakdown torque : 280 %		Temperate	Temperature rise		
Rated speed	: 98	30 rpm	Design		: B	
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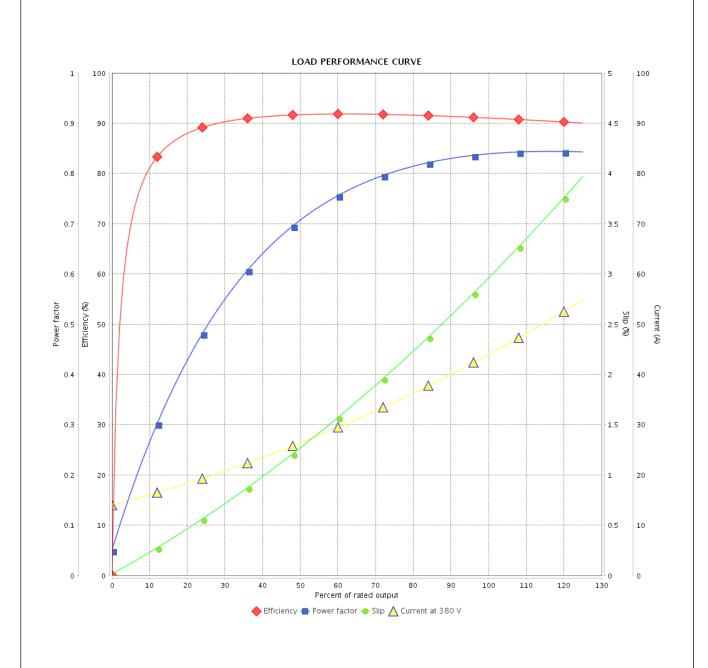


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13039455

Phase

Catalog #: 03012ET3E326JP-W22



Performance	: 3	80 V 50 Hz 6P IE2				
Rated current	: 4	3.7 A	Moment o	f inertia (J)	: 13.2 sq.ft.lb	
LRC	: 4	9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	62 ft.lb	Insulation	class	: F	
Locked rotor torque	e :1	60 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	.00 %	Temperature rise		: 80 K	
Rated speed	: 9	70 rpm	Design		: B	
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Phase

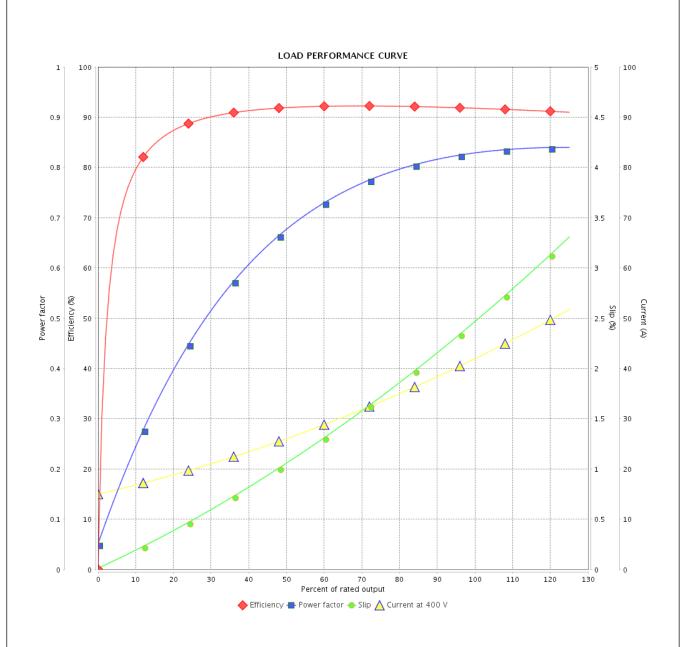
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	- I					
Performance	: •	400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue :	41.7 A 5.4 162 ft.lb 180 % 220 % 975 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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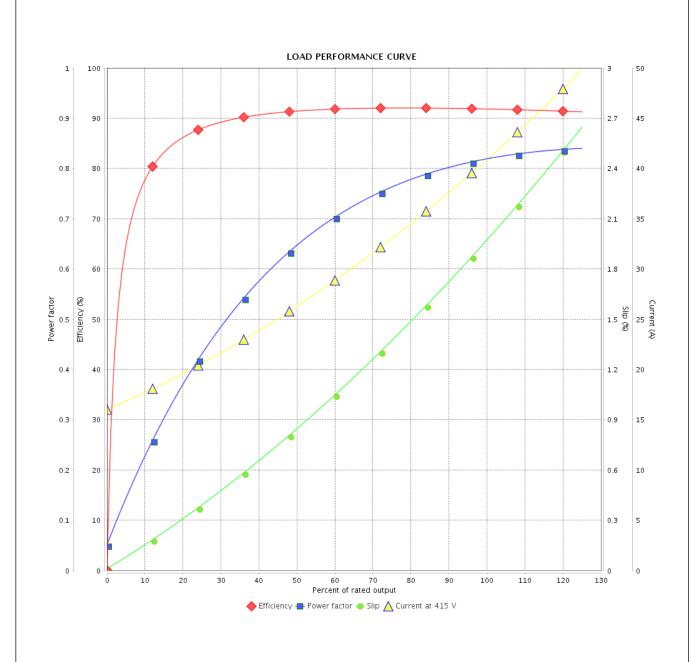
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Phase

Catalog # : 03012ET3E326JP-W22

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Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.7 A : 5.8 : 161 ft.lb : 200 % : 240 % : 980 rpm	Duty cycle : Co Insulation class : F Service factor : 1.		: 1.15 : 80 K	
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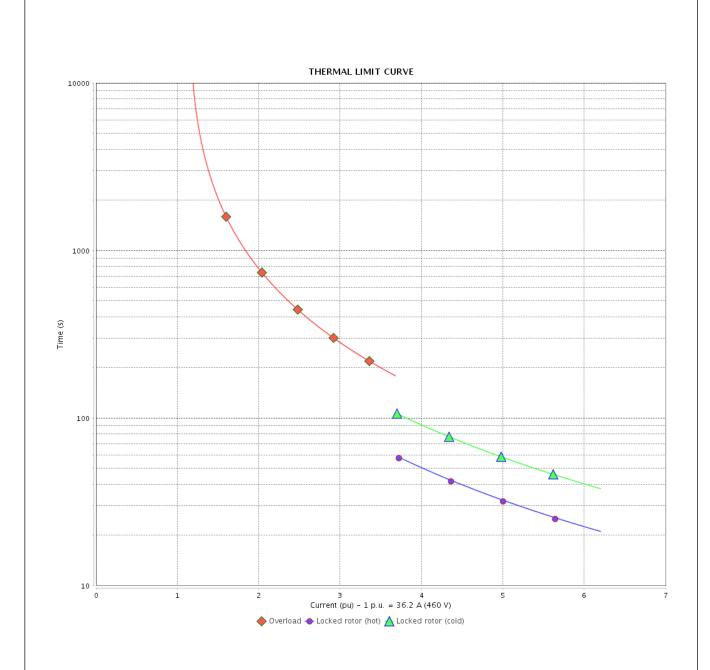


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13039455 03012ET3E3	26JP-W22
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu	: : : ue :	230/460 V 60 Hz 6P 72.4/36.2 A 6.2 134 ft.lb 220 % 240 %	Moment o Duty cycle Insulation Service fa Temperati	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K	
Rated speed Heating constant Cooling constant	:	1180 rpm	Design		: B	
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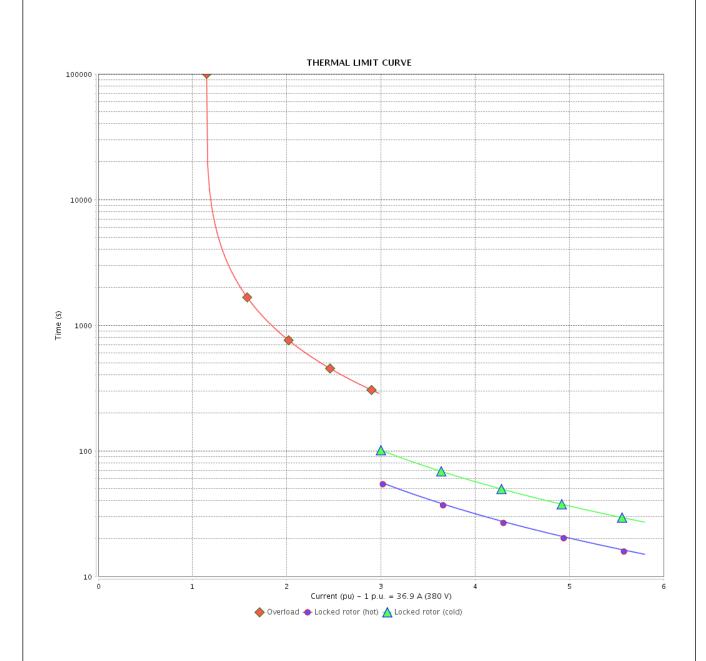


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13039455 03012ET3E32	26JP-W22
Performance		: 380 V 50 Hz 6P IE3		6 : (1)	10.0 6.11	
Rated current LRC		: 36.9 A : 5.8	Duty cycle		: 13.2 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 135 ft.lb : 190 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 229 %	Temperat		: 80 K	
Rated speed		: 975 rpm	Design		: B	
Heating constan						
Cooling constant	t 	Changes Cummers		Dorform	Charles	Doto
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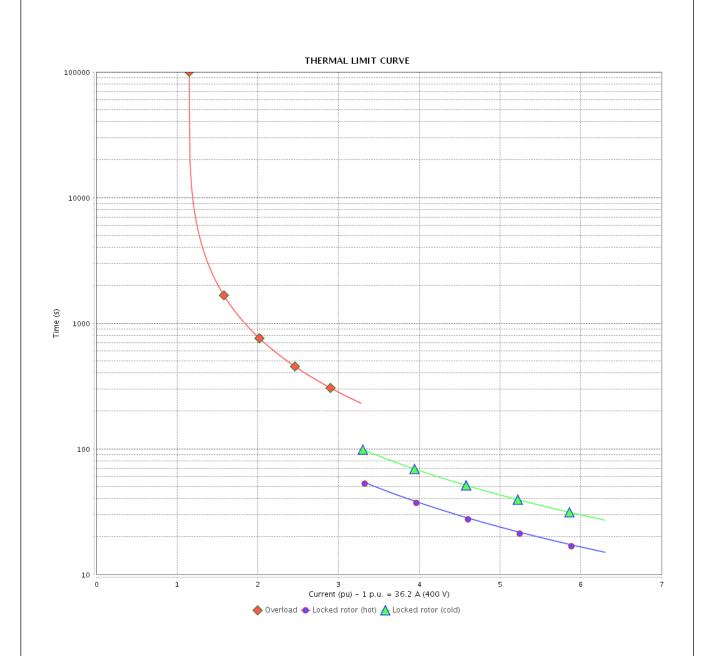


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13039455 03012ET3E32	26JP-W22
Performance		: 400 V 50 Hz 6P IE3	Mamanta	of in outin (1)	. 42.2 az # lb	
Rated current LRC		: 36.2 A : 6.3	Duty cycle		: 13.2 sq.ft.lb : Cont.(S1)	
Rated torque		: 134 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 220 % : 260 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 980 rpm	Design	uro noc	: B	
Heating constant						
Cooling constant	l .	Changes Summers		Performed	Checked	Date
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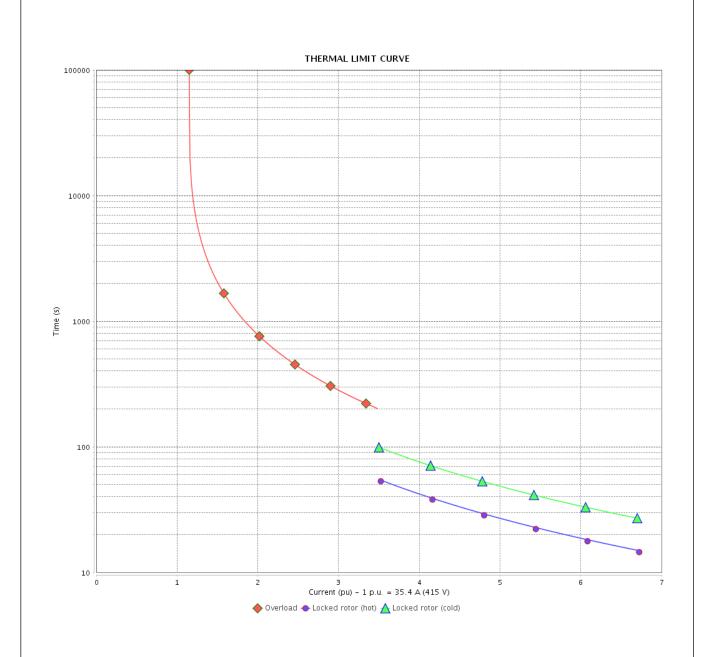


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Customer	•				
Product line	: NEMA Premium Efficiency Phase	Three- F	Product code :	13039455	
	i nasc	C	Catalog # :	03012ET3E32	26JP-W22
Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.4 A : 6.7 : 134 ft.lb : 240 % : 280 % : 980 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
	 	3			
Heating constant Cooling constant					
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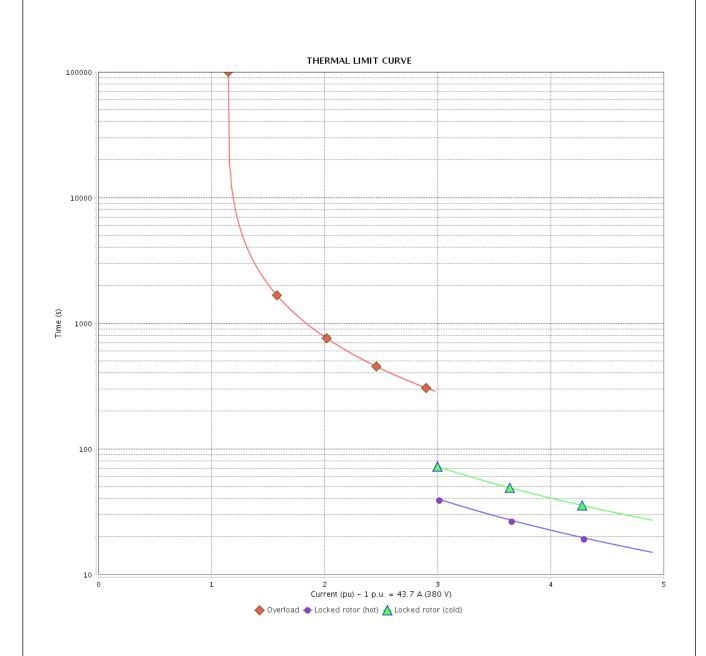


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13039455 03012ET3E32	26JP-W22
Performance		: 380 V 50 Hz 6P IE2				
Rated current		: 43.7 A	Moment of	of inertia (J)	: 13.2 sq.ft.lb	
LRC Rated torque		: 4.9 : 162 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		: 160 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 200 % : 970 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant	t			, ,	1	
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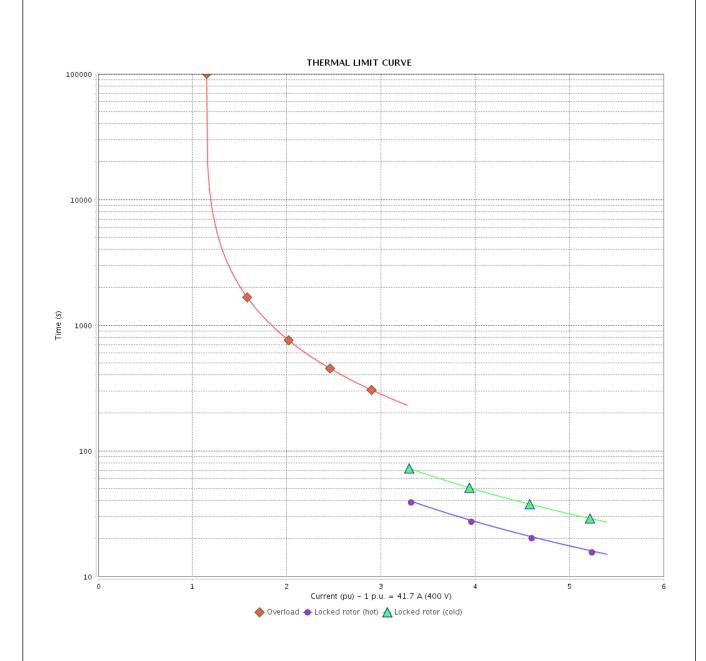


Customer	:				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	13039455	
			Catalog # :	03012ET3E32	26JP-W22
Performance	: 400 V 50 Hz 6P IE2	Moment -	finartic (I)	. 12 2 2 2 4 14	
Rated current LRC	: 41.7 A : 5.4	Moment o	f inertia (J)	: 13.2 sq.ft.lb : Cont.(S1)	
Rated torque	: 162 ft.lb	Insulation	class	: F	
Locked rotor torque	: 180 %	Service fa		: 1.15	
Breakdown torque Rated speed	: 220 % : 975 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant					
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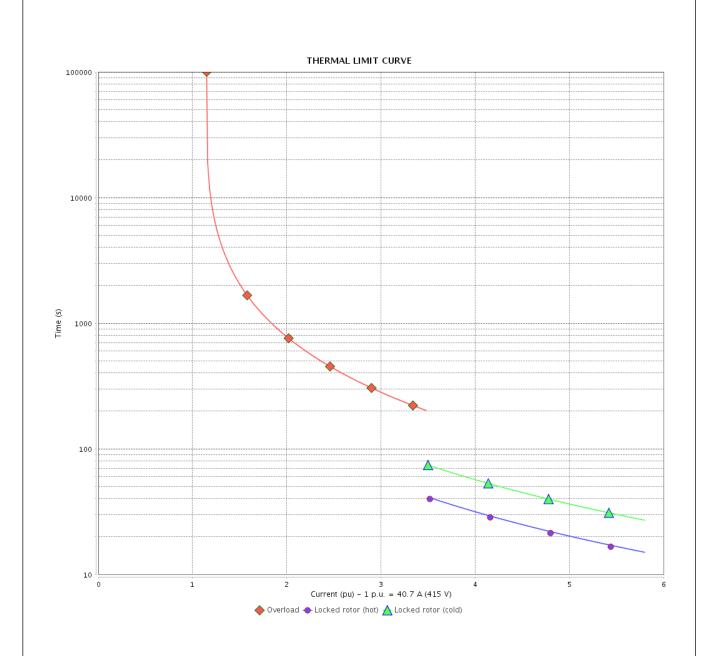


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	13039455 03012ET3E3	26JP-W22
Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 40.7 A : 5.8 : 161 ft.lb : 200 % : 240 %	Duty cycle Insulation Service fa Temperati	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Rated speed Heating constant Cooling constant	: 980 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer



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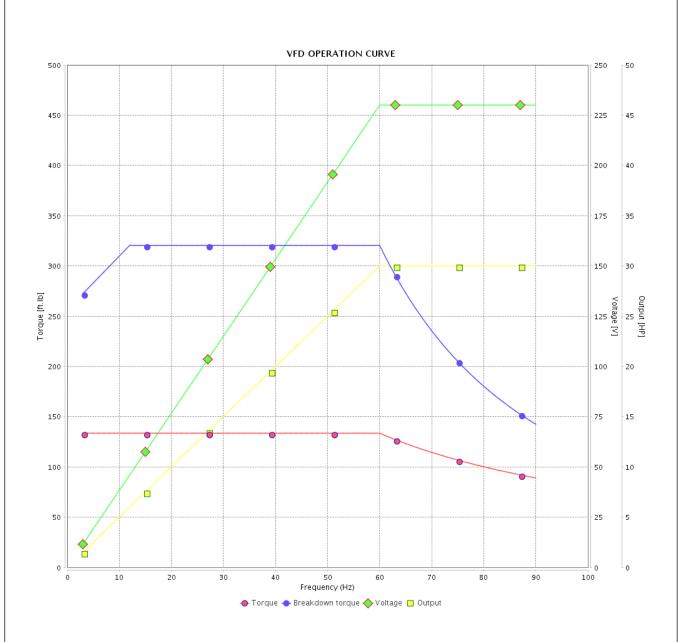
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13039455

Catalog #: 03012ET3E326JP-W22



Performance	: 230/460 V 60 Hz 6P				
Rated current	ed current : 72.4/36.2 A Moment of inertia (J		f inertia (J)	: 13.2 sq.ft.lb	
LRC	: 6.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation	class	: F	
Locked rotor torque	: 220 %	Service fa	ctor	: 1.25	
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 1180 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

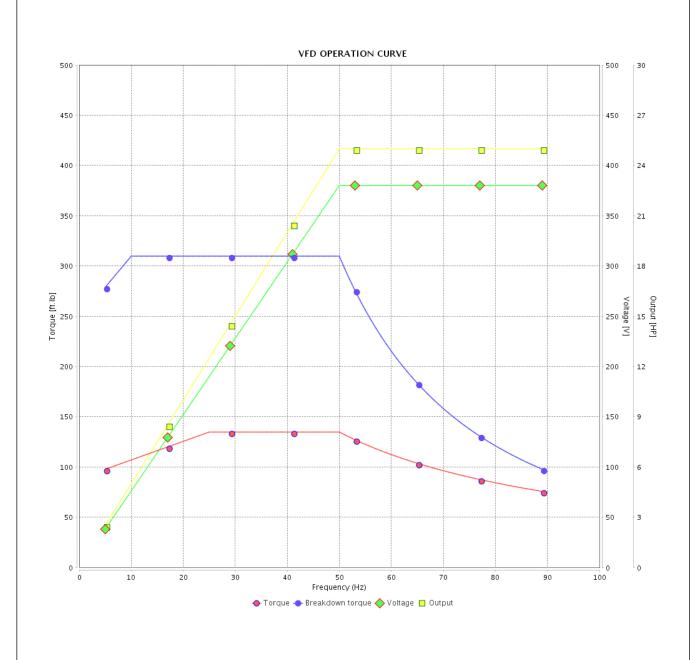


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13039455

Phase

Catalog #: 03012ET3E326JP-W22



Performance		: 380 V 50 Hz 6P IE3						
Rated current		Moment of inertia (J)		f inertia (J)	: 13.2 sq.ft.lb			
LRC : 5		.8	Duty cycle	Duty cycle				
Rated torque		35 ft.lb Insulation		class	: F			
Locked rotor torque		90 %	Service factor		: 1.00			
Breakdown torque	: 2	: 229 % Temperature rise Design		ıre rise	: 80 K			
Rated speed	: 9				: B			
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Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

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Product line : NEMA Premium Efficiency Three-

Phase

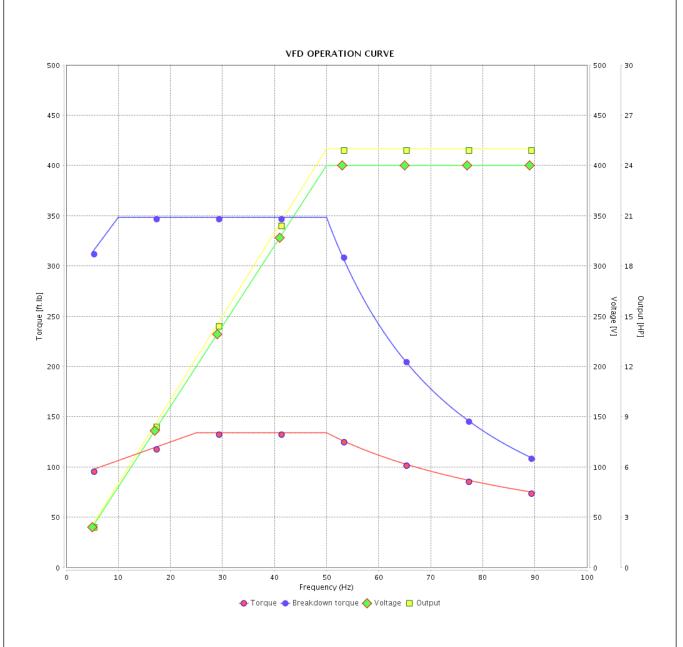
Product code: 13039455

Catalog #: 03012ET3E326JP-W22

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Performance	: •	400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : : : : : : : : : : : : :	36.2 A 6.3 134 ft.lb 220 % 260 % 980 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage

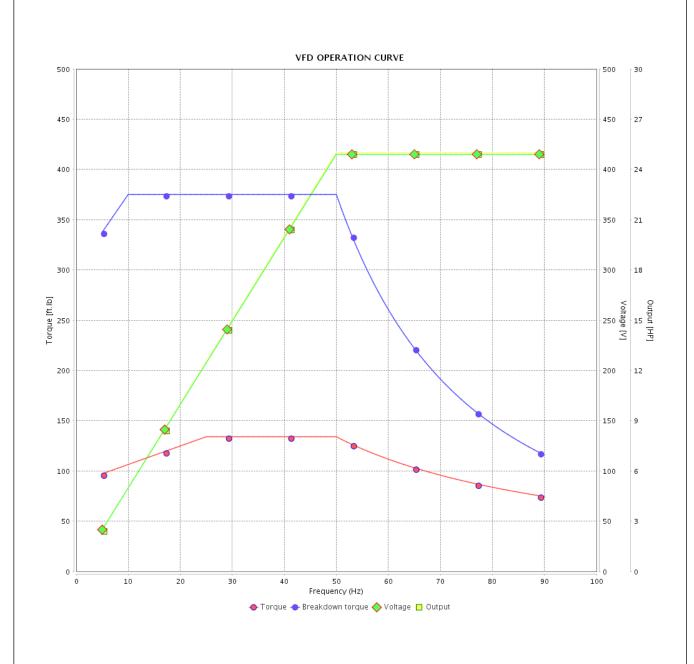


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13039455

Phase

Catalog #: 03012ET3E326JP-W22



Performance		: 415 V 50 Hz 6P IE3						
Rated current		5.4 A Moment of inertia (J)		: 13.2 sq.ft.lb				
LRC : 6		.7	Duty cycle		: Cont.(S1)			
Rated torque :		34 ft.lb	Insulation class		: F			
•		40 %	Service factor		: 1.15			
Breakdown torque	e : 2	: 280 % Temperature rise Design		ıre rise	: 80 K			
Rated speed	: 9				: B			
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Three Phase Induction Motor - Squirrel Cage



Customer :

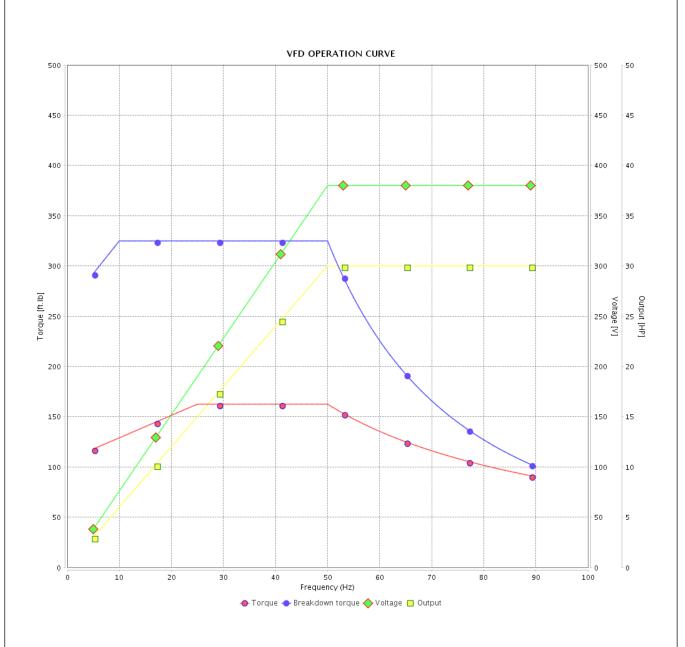
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13039455

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Performance	: 380 V 50 Hz 6P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.7 A : 4.9 : 162 ft.lb : 160 % : 200 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 13.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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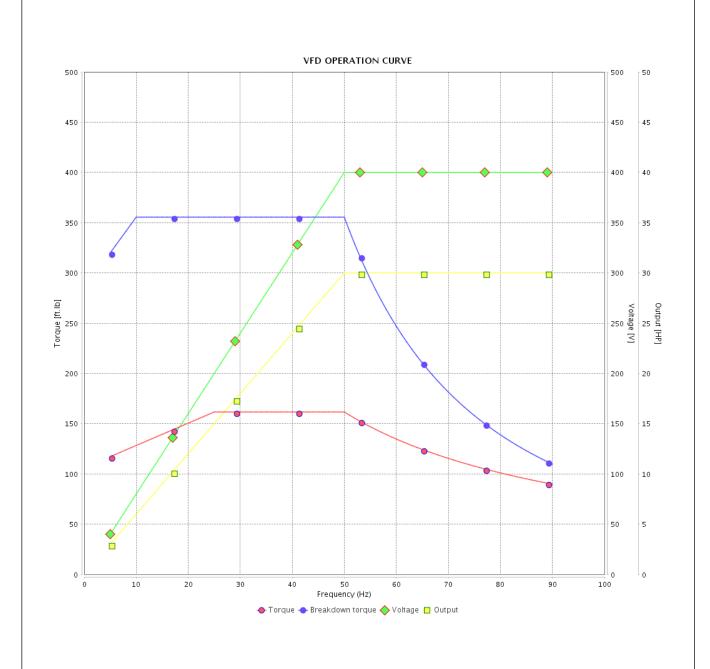
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13039455

Catalog #: 03012ET3E326JP-W22



Performance	erformance : 400 V 50 Hz 6P IE2					
Rated current		1.7 A	Moment o	Moment of inertia (J)		
LRC :5		.4	Duty cycle	Duty cycle		
Rated torque		162 ft.lb Insulation class		: F		
•		80 %	Service fa	Service factor		
Breakdown torque	e : 2	: 220 %	Temperati	ure rise	: 80 K	
Rated speed	: 9	75 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

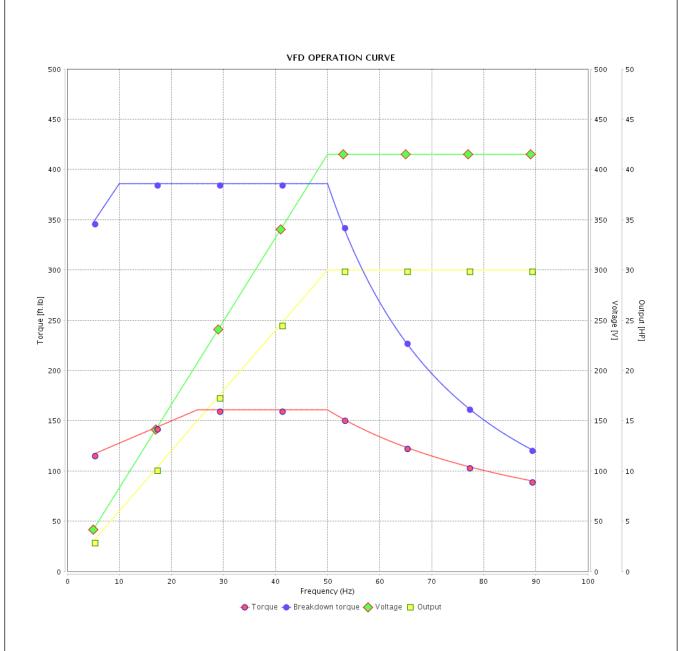
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13039455

Catalog #: 03012ET3E326JP-W22

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Performance	: 415 V 50 Hz 6P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.7 A : 5.8 : 161 ft.lb : 200 % : 240 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 13.2 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
Rev.	Changes Summary		Performed	Checked	Date		
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