### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13248671

Phase

Catalog #: 05018ET3E326JP-W22G

Frame : 324/6JP 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. weight<sup>3</sup> : 582 lb

Protection degre	e	: IP55		Momer	nt of inertia (J)	: 9	.16 sq.ft.lb	
Design		: B						
Output [HP]		50	40	40	40	50	50	50
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]		118/59.2	58.7	57.1	56.4	71.6	68.4	66.3
L. R. Amperes [A]		734/367	376	400	417	372	397	411
LRC [A]		6.2x(Code	6.4x(Code	7.0x(Code H)	7.4x(Code J)	5.2x(Code E)	5.8x(Code F)	6.2x(Code
		G)	G)					G)
No load current [A	]	47.0/23.5	23.0	24.0	25.0	23.0	24.0	25.0
Rated speed [RPI	<b>/</b> 1]	1775	1470	1475	1478	1460	1465	1470
Slip [%]		1.39	2.00	1.67	1.47	2.67	2.33	2.00
Rated torque [ft.lb]		148	143	142	142	180	179	179
Locked rotor torqu	e [%]	229	229	250	260	180	200	210
Breakdown torque	[%]	270	260	300	330	210	240	260
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)	19s (cold)	19s (cold)	19s (cold)	19s (cold)	19s (cold)	19s (cold)
		15s (hot)	11s (hot)	11s (hot)	11s (hot)	11s (hot)	11s (hot)	11s (hot)
Noise level <sup>2</sup>		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%	92.5	91.9	90.6	90.8	93.3	92.2	91.8
Efficiency (%)	50%	93.0	92.5	91.5	91.5	93.0	92.4	92.4
Efficiency (%)	75%	94.1	93.1	92.8	93.0	93.0	93.0	93.0
	100%	94.5	93.6	93.6	93.6	92.4	93.0	93.5
	25%	0.42	0.41	0.38	0.35	0.48	0.45	0.42
Dower Footer	50%	0.66	0.64	0.60	0.57	0.72	0.68	0.65
Power Factor	75%	0.77	0.77	0.73	0.70	0.81	0.79	0.76
	100%	0.83	0.83	0.81	0.79	0.85	0.84	0.83

Drive end Non drive end Foundation loads

Bearing type : 6312 C3 6212 C3 Max. traction : 1491 lb Sealing : V'Ring V'Ring Max. compression : 2073 lb

Lubrication interval:20000 h20000 hLubricant amount:21 g13 gLubricant type:Mobil Polyrex EM

Notes

USABLE @208V 131A SF 1.15 SFA 151A

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



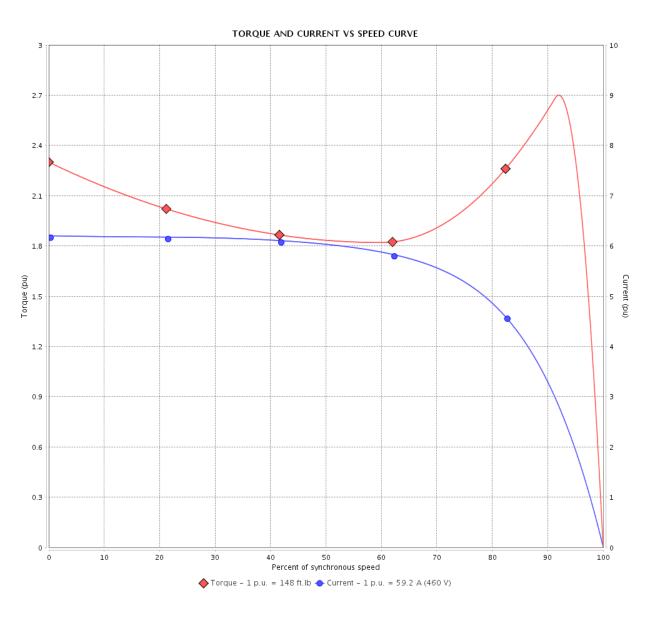
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 05018ET3E326JP-W22G

13248671



Performance	: 230/460 V 60 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 118/59.2 A : 6.2 : 148 ft.lb : 229 % : 270 % : 1775 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : 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: 13248671 Catalog #: 05018ET3E326JP-W22G TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 143 ft.lb ◆ Current - 1 p.u. = 58.7 A (380 V)

Performance : 380 V 50 Hz 4P IE3 Rated current : 58.7 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 143 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 1470 rpm Design

Lookou rotor time		30 (00.0) 110 (1101)			
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#### Three Phase Induction Motor - Squirrel Cage



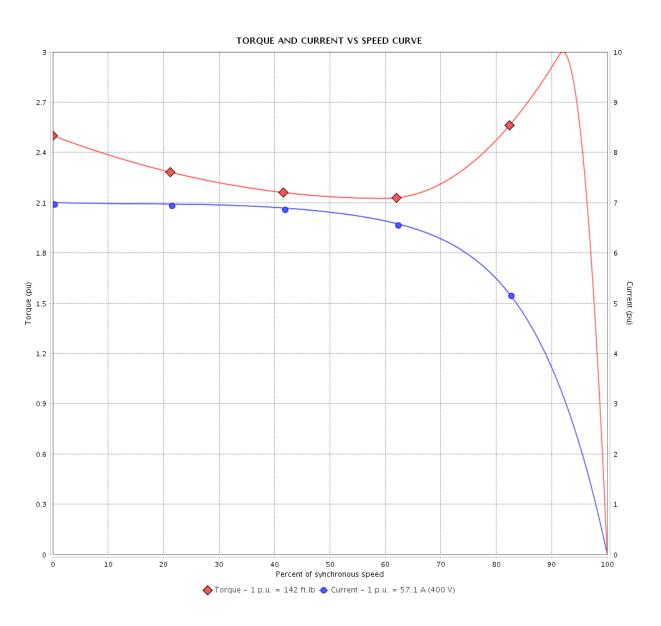
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13248671

Catalog #: 05018ET3E326JP-W22G



Performance : 400 V 50 Hz 4P IE3 Rated current : 57.1 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 142 ft.lb : F Service factor Locked rotor torque : 250 % : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B

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Torque (pu)

Locked rotor time

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13248671 Catalog #: 05018ET3E326JP-W22G TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5

1.5										3
1 -									\	2
0.5 -										1
0										0
	0 10	20	30	40 Percent	50 of synchronous	60 speed	70	80	90	100
			◆Torque -	- 1 p.u. = 142 1	t.lb 🔷 Current	- 1 p.u. = 56.	4 A (415 V)			
Performar	nce	: 415	V 50 Hz 4F	P IE3						
Rated cur LRC Rated tord Locked ro Breakdow	que tor torque	: 56.4 : 7.4 : 142 : 260 : 330	ft.lb %		Duty consulated Service	nt of inertia ycle ion class e factor rature rise		: 9.16 s : Cont.( : F : 1.00 : 80 K		

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: 19s (cold) 11s (hot)

**Changes Summary** 

#### Three Phase Induction Motor - Squirrel Cage



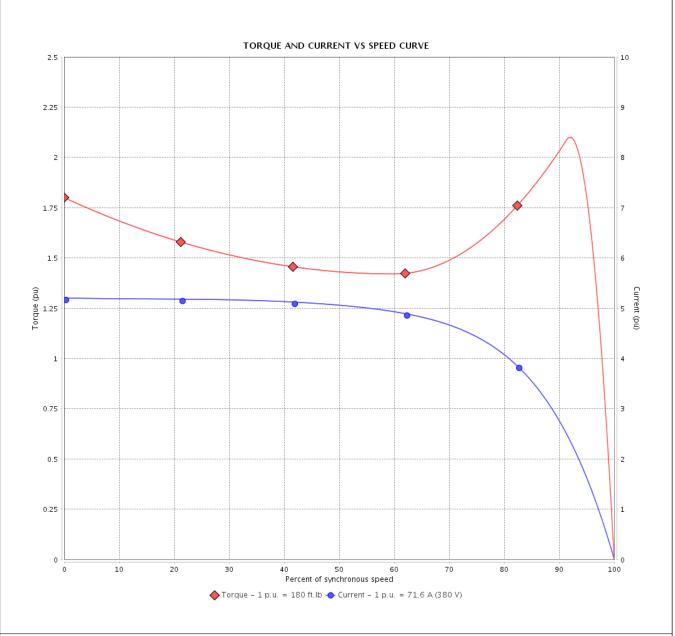
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 13248671

Catalog #: 05018ET3E326JP-W22G



Performance : 380 V 50 Hz 4P IE1 Rated current : 71.6 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 180 ft.lb : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B

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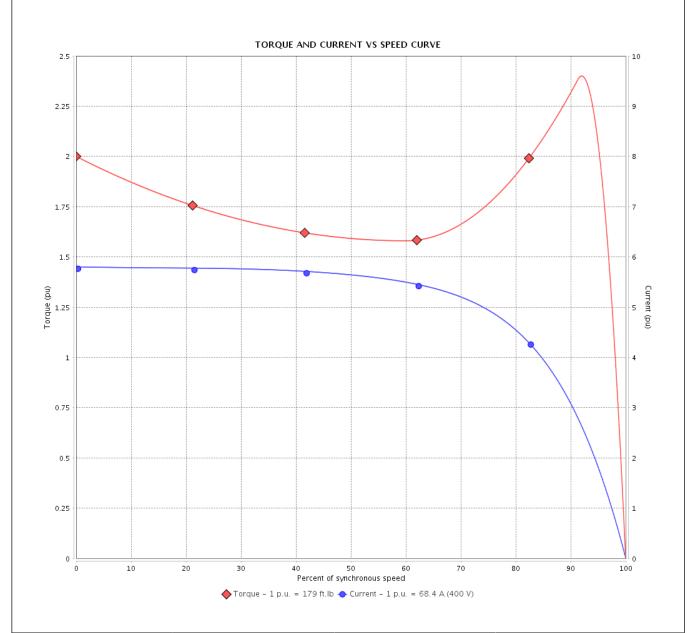


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13248671

Phase

Catalog #: 05018ET3E326JP-W22G



Performance	: 400 V 50 Hz 4P IE2			
Rated current	: 68.4 A	Moment of inertia (J)	: 9.16 sq.ft.lb	
LRC	: 5.8	Duty cycle	: Cont.(S1)	
Rated torque	: 179 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 105 K	
Rated speed	: 1465 rpm	Design	: B	
Locked roter time	: 10s (sold) 11s (bot)	l		

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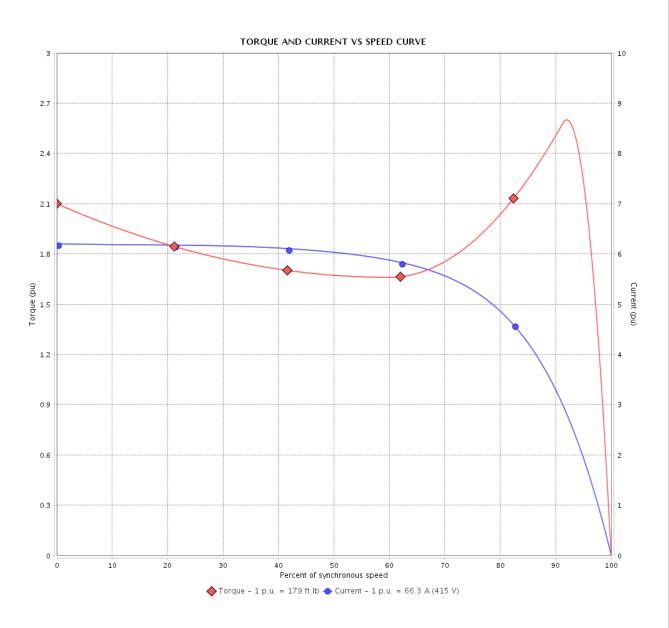
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 13248671

Catalog #: 05018ET3E326JP-W22G



Performance : 415 V 50 Hz 4P IE2 Rated current : 66.3 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 179 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B

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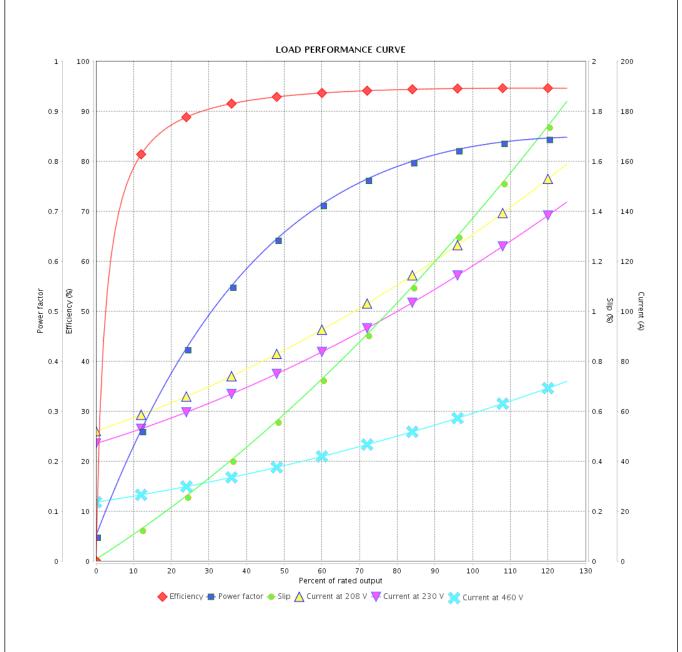


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13248671

Phase

Catalog #: 05018ET3E326JP-W22G



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	: 1	18/59.2 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6	.2	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	48 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	29 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	70 %	Temperati	Temperature rise		
Rated speed	: 1	775 rpm	Design		: B	
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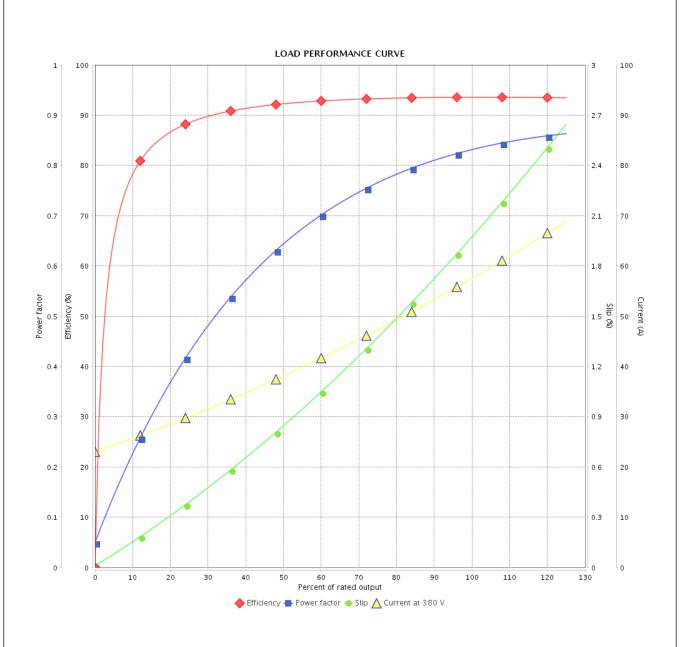
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13248671

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Performance : 380 V 50 Hz 4P IE3 Rated current : 58.7 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 Insulation class Rated torque : 143 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

#### Three Phase Induction Motor - Squirrel Cage

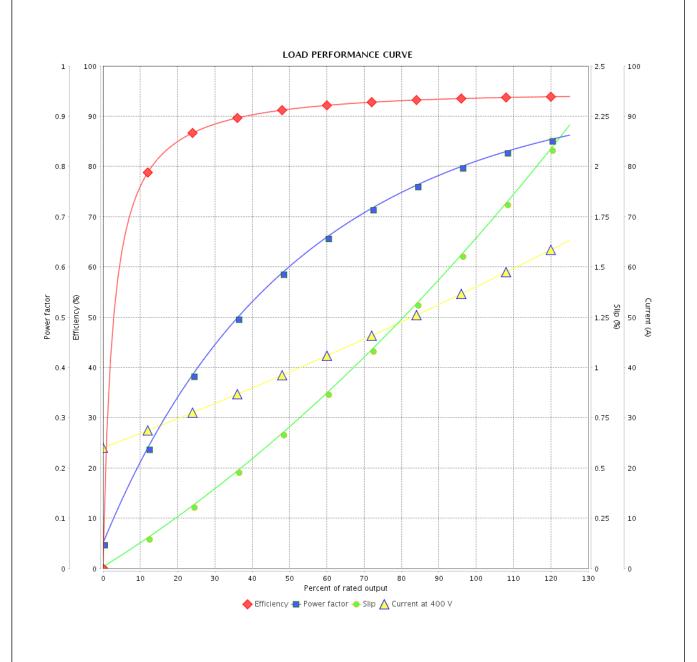


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13248671

Phase

Catalog #: 05018ET3E326JP-W22G



Performance	: 4	100 V 50 Hz 4P IE3				
Rated current	ated current : 57.1 A		Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 7	7.0	Duty cycle	)	: Cont.(S1)	
Rated torque	: 1	42 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	250 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	300 %	Temperature rise		: 80 K	
Rated speed	: 1	475 rpm	Design		: B	
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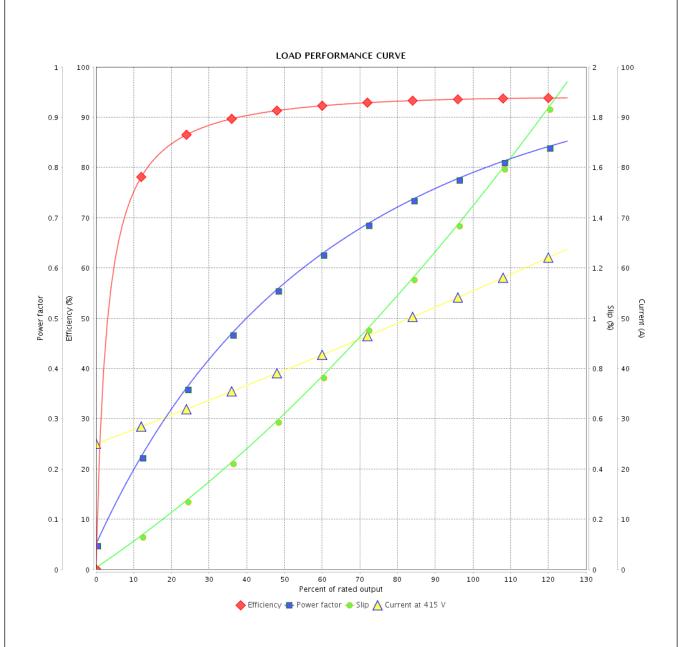
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Phase

Product code: 13248671

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Performance	: 4	: 415 V 50 Hz 4P IE3						
Rated current : 56.4 A LRC : 7.4 Rated torque : 142 ft.lb Locked rotor torque : 260 % Breakdown torque : 330 % Rated speed : 1478 rpm		Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B				
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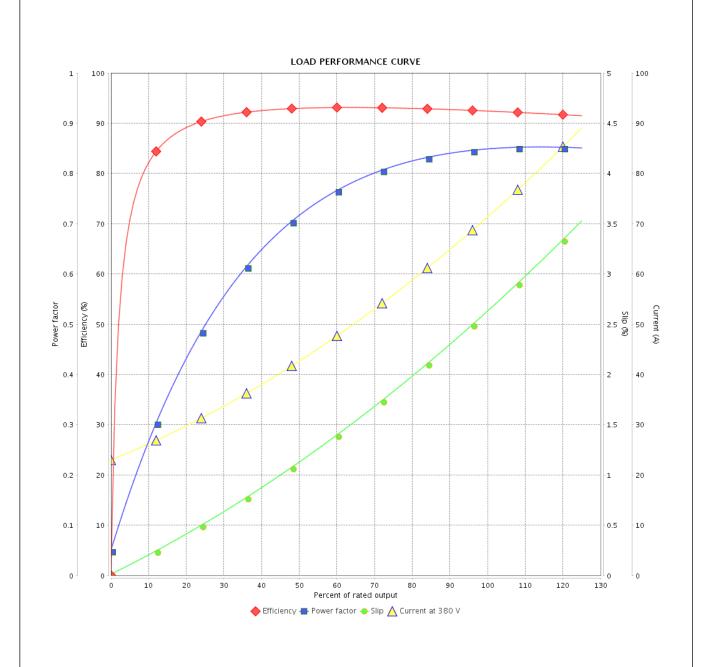


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13248671

Phase

Catalog #: 05018ET3E326JP-W22G



Performance	: 3	80 V 50 Hz 4P IE1				
Rated current	: 7	1.6 A	6 A Moment of it		of inertia (J) : 9.16 sq.ft.lb	
LRC	: 5.	.2	Duty cycle	9	: Cont.(S1)	
Rated torque	: 18	80 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 18	80 %	Service fa	ictor	: 1.00	
Breakdown torqu	e : 2	10 %	Temperati	Temperature rise		
Rated speed	: 14	460 rpm	Design		: B	
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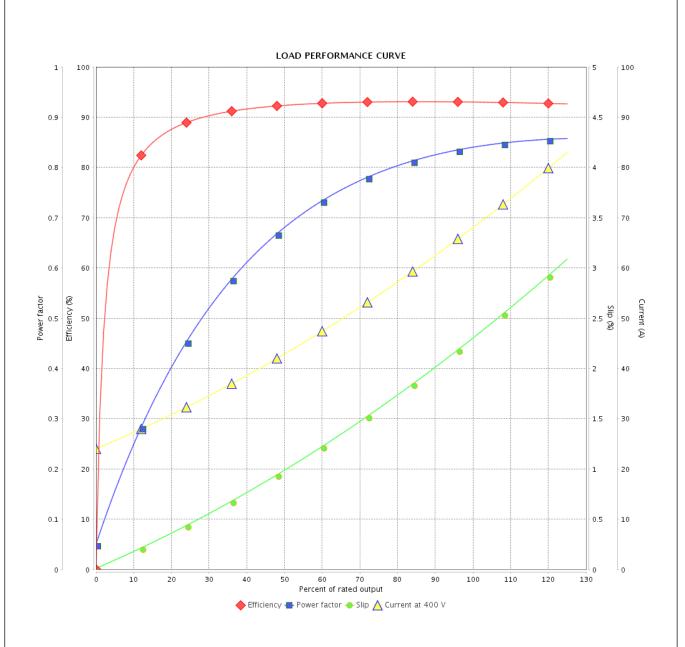
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13248671

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Performance		: 400 V 50 Hz 4P IE2					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 68.4 A Moment of ine : 5.8 Duty cycle : 179 ft.lb Insulation clas : 200 % Service factor : 240 % Temperature r : 1465 rpm Design		class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
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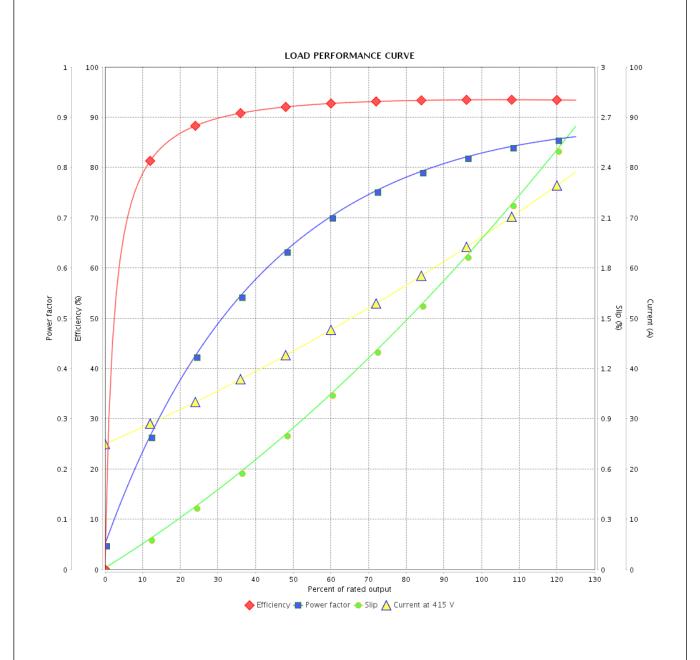


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13248671

Phase

Catalog #: 05018ET3E326JP-W22G



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	ated current : 66.3 A		Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6	.2	Duty cycle	)	: Cont.(S1)	
Rated torque	: 1	79 ft.lb	Insulation	class	: F	
Locked rotor torque : 210		10 %	Service fa	ctor	: 1.00	
Breakdown torque		60 %	Temperati	Temperature rise		
Rated speed	: 1	470 rpm	Design		: B	
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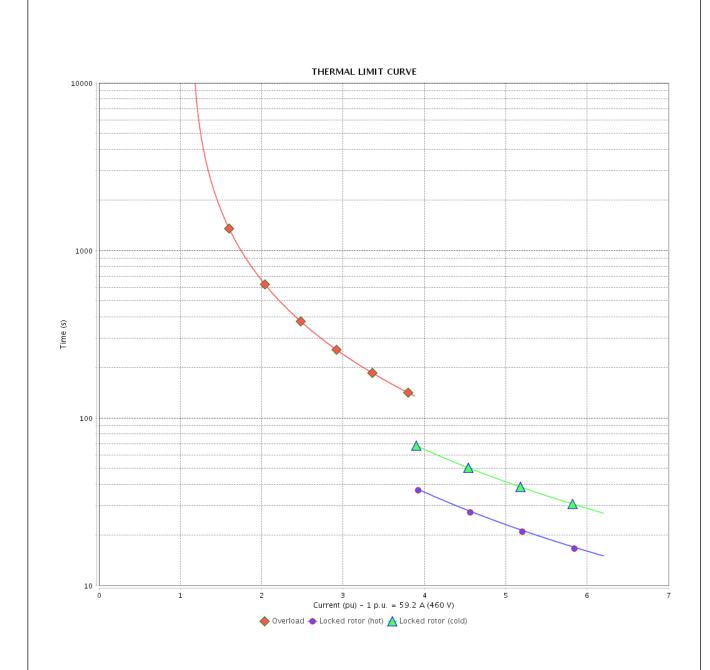


Customer	:				
Product line	: NEMA Premium Efficienc		Product code : Catalog # :	13248671 05018ET3E3	26JP-W22G
Performance	: 230/460 V 60 Hz 4P				
Rated current	: 118/59.2 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque	: 6.2 : 148 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 229 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed	: 270 % : 1775 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant  Rev.	Changes Summary		Performed	Checked	Date
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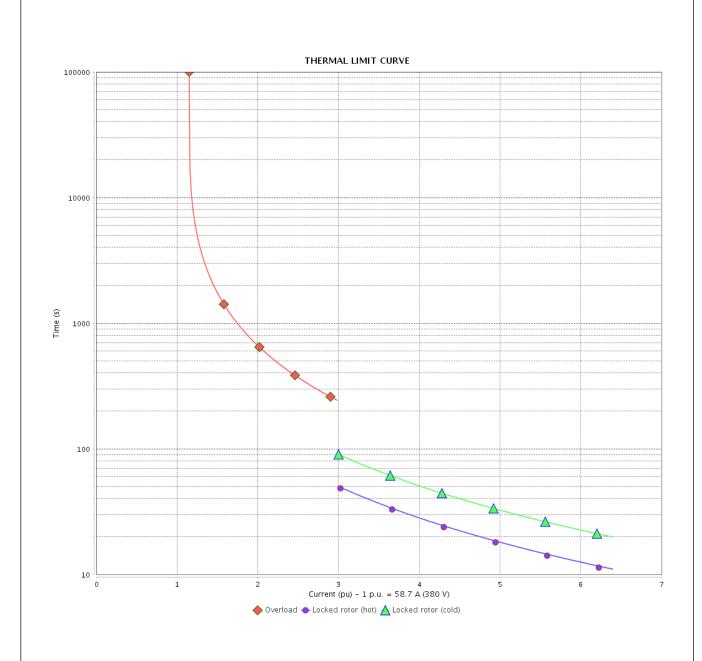


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13248671 05018ET3E32	26JP-W22G
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 58.7 A	Moment of	of inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque	:	: 6.4 : 143 ft.lb	Duty cycle Insulation	е	: Cont.(S1) : F	
Rated torque Locked rotor torg		: 143 π.id : 229 %	Service fa		: F : 1.00	
Breakdown torqu	ie :	: 260 %	Temperat		: 80 K : B	
Rated speed		: 1470 rpm	Design		. D	
Heating constant Cooling constant						
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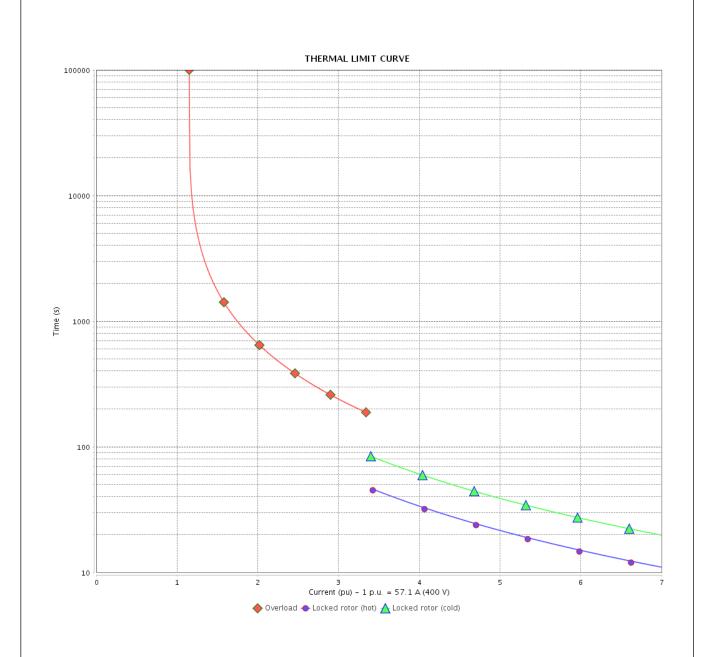


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	13248671 05018ET3E3	26JP-W22G
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 400 V 50 Hz 4P IE3 : 57.1 A : 7.0 : 142 ft.lb : 250 % : 300 % : 1475 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 9.16 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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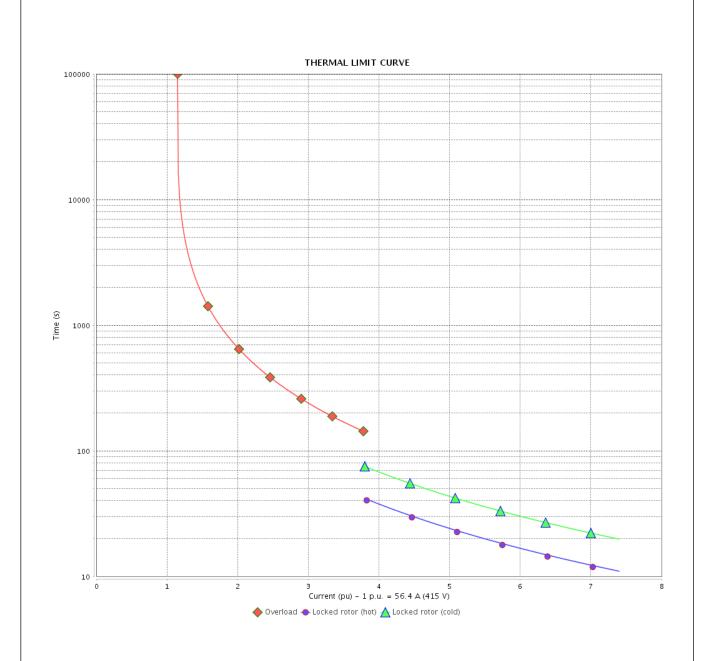


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13248671 05018ET3E32	26JP-W22G
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC		: 56.4 A : 7.4	Moment of Duty cycle	of inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque		: 142 ft.lb	Insulation	class	: F	
Locked rotor tord		: 260 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 330 % : 1478 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan						
Cooling constan	t				-	
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### Three Phase Induction Motor - Squirrel Cage



Customer



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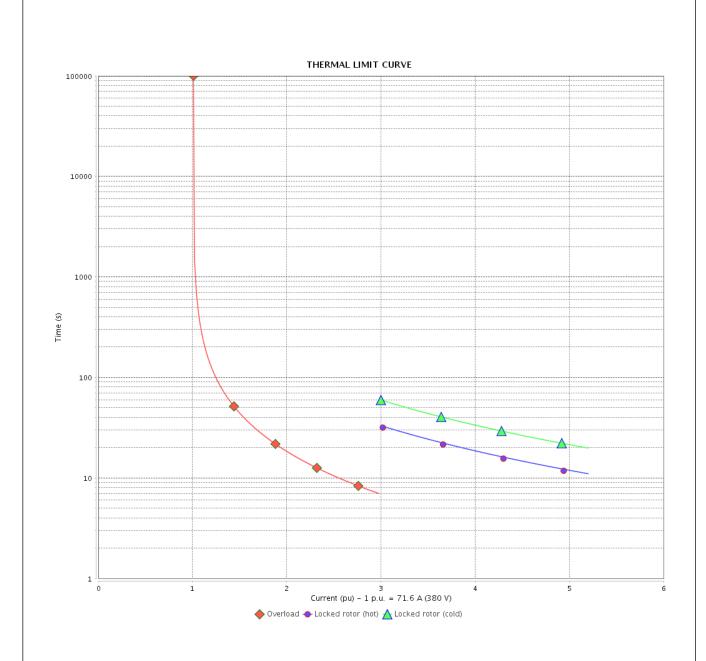


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13248671 05018ET3E32	26JP-W22G
Performance		: 380 V 50 Hz 4P IE1				
Rated current LRC		: 71.6 A : 5.2	Moment of Duty cycle	of inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque		: 180 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 180 % : 210 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 1460 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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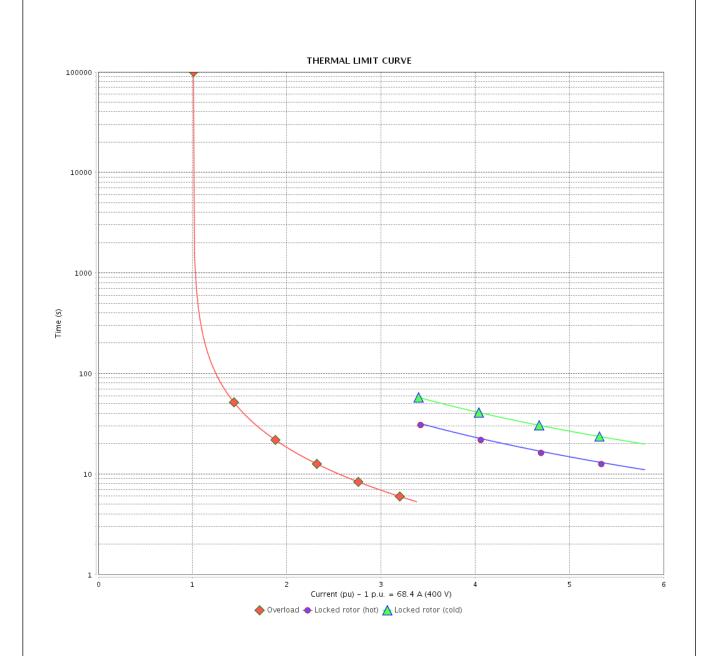


Customer		:				
Product line		: NEMA Premium Efficiency		Product code :	13248671	
				Catalog # :	05018ET3E3	26JP-W22G
Performance	:	400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : :ue :: :ie ::	68.4 A 5.8 179 ft.lb 200 % 240 % 1465 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant						
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

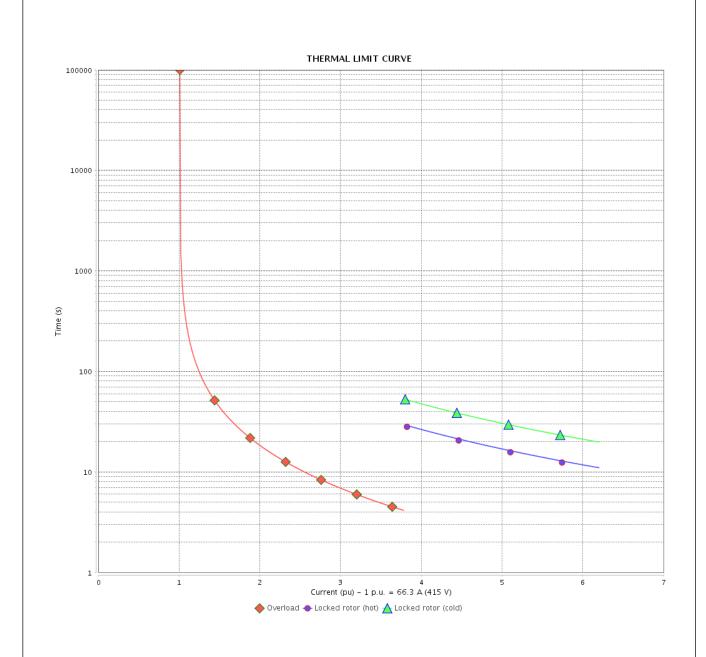


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Customer	:					
Product line		NEMA Premium Efficiency <sup>-</sup> hase		Product code :	13248671	
			(	Catalog # :	05018ET3E32	26JP-W22G
Performance	: 4	15 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 66 : 6. : 17 : 20 : 20	6.3 A	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
		•				
Heating constant Cooling constant						
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Product line : NEMA Premium Efficiency Three-

Phase

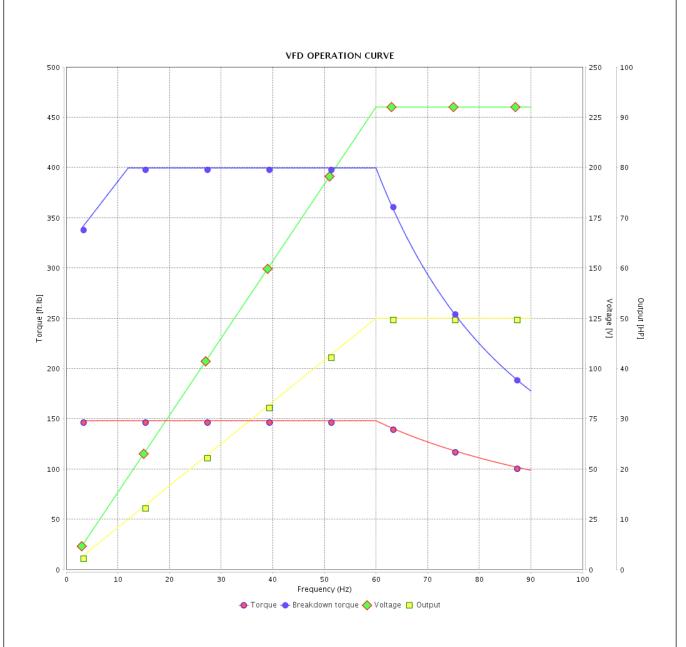
Product code: 13248671

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Performance : 230/460 V 60 Hz 4P : 118/59.2 A Rated current Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class : 148 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1775 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

### Three Phase Induction Motor - Squirrel Cage



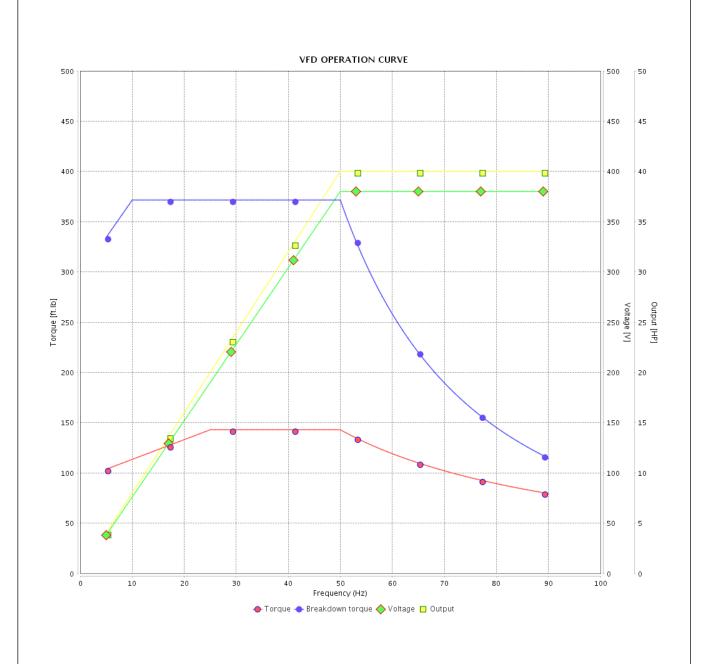
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Product line : NEMA Premium Efficiency Three- Product code : 13248671

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 58.7 A : 6.4 : 143 ft.lb : 229 % : 260 % : 1470 rpm	Moment of inertia ( Duty cycle Insulation class Service factor Temperature rise Design	J)	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Product line : NEMA Premium Efficiency Three- Product of

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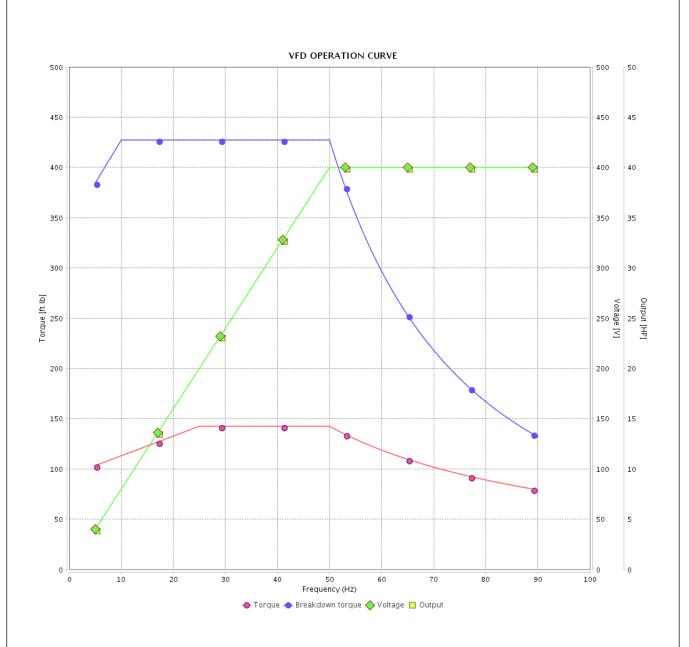
Product code: 13248671

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Performance	: 40	00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 14 jue : 29 ie : 30	7.1 A .0 42 ft.lb 50 % 00 % 475 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



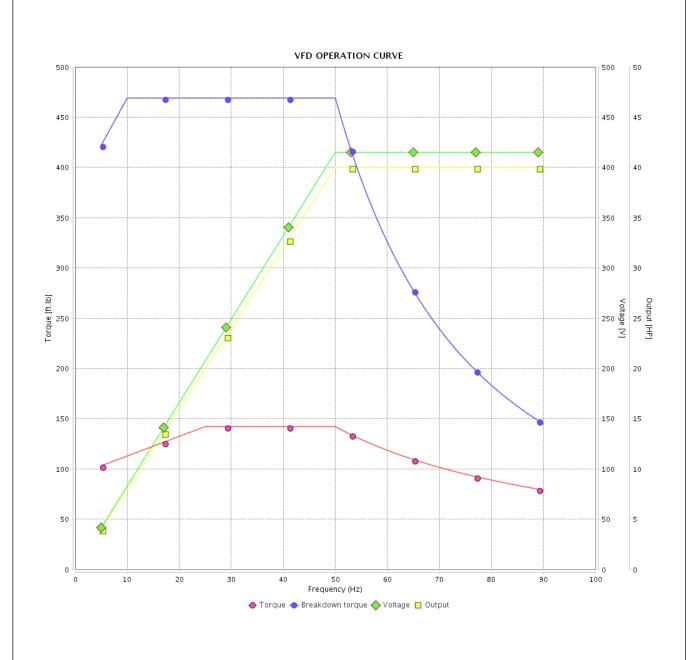
Customer

Product line : NEMA Premium Efficiency Three- Product code : 13248671

Phase

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 56.4 A : 7.4 : 142 ft.lb : 260 % : 330 % : 1478 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



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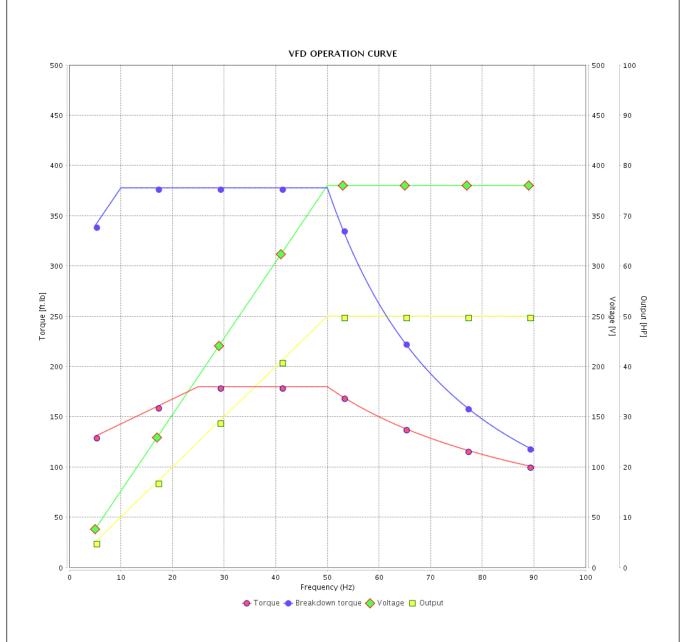
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13248671

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Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 71.6 A : 5.2 : 180 ft.lb : 180 % : 210 %	Moment of Duty cycle Insulation Service fa	class actor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Rated speed	: 1460 rpm	Design		: B	
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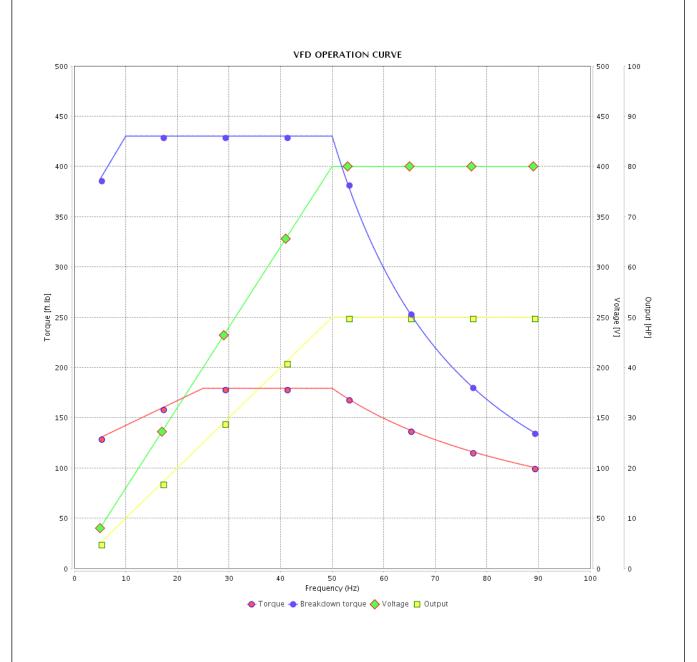


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Phase

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Performance	: 4	100 V 50 Hz 4P IE2				
Rated current	: 6	88.4 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 5	5.8	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	179 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	200 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	240 %	Temperati	ıre rise	: 105 K	
Rated speed	: 1	1465 rpm	Design		: B	
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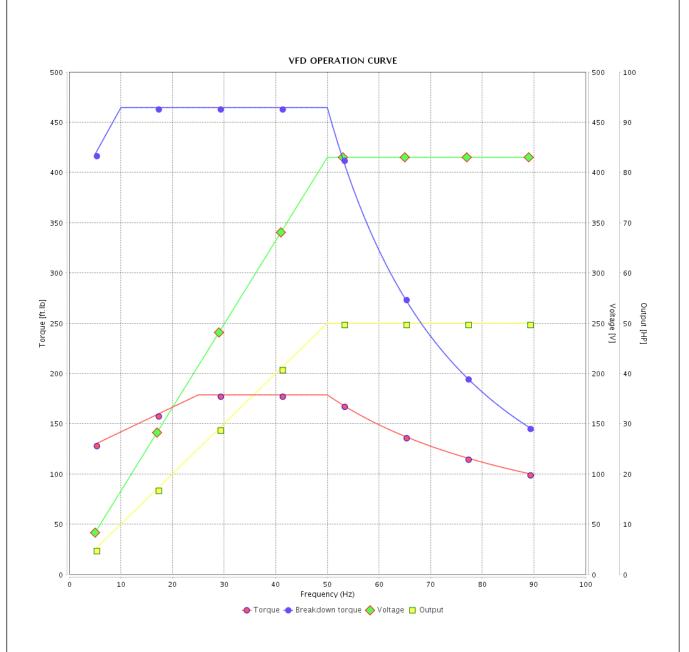
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Danfarrana	. 445 V 50 H- 4D IFO			·	
Performance	: 415 V 50 Hz 4P IE2				
Rated current	: 66.3 A	Moment of inertia (J)		: 9.16 sq.ft.lb	
LRC	: 6.2	Duty cycle		: Cont.(S1)	
Rated torque	: 179 ft.lb	Insulation class		: F	
Locked rotor torque	: 210 %	Service factor		: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 105 K	
Rated speed	: 1470 rpm	Design		: B	
Rev. Changes Summary			Performed	Checked	Date
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