DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14383271

Catalog #: 07536ET3G365JP-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 Starting method Ambient temperature : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 847 lb : IP55 Protection degree Moment of inertia (J) : 11.9 sq.ft.lb

Design	•	: B		Women	it of inertia (3)	. 1	1.9 Sq.it.ib	
Output [HP]		75	60	60	60	75	75	75
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		81.9	80.8	78.5	75.7	100	94.8	91.4
L. R. Amperes [A]		549	525	557	598	520	559	594
LRC [A]		6.7x(Code	6.5x(Code	7.1x(Code H)	7.9x(Code J)	5.2x(Code E)	5.9x(Code F)	6.5x(Code
		G)	G)					G)
No load current [A]		20.0	19.0	20.0	21.5	19.0	20.0	21.5
Rated speed [RPM]	3555	2955	2960	2965	2930	2945	2950
Slip [%]		1.25	1.50	1.33	1.17	2.33	1.83	1.67
Rated torque [ft.lb]		111	107	106	106	134	134	134
Locked rotor torque	e [%]	200	210	229	250	160	175	190
Breakdown torque	[%]	250	260	390	310	200	220	240
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		18s (cold) 10s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	37s (cold) 21s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)
Noise level ²		79.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)
	25%	92.2	89.7	90.4	90.8	92.7	92.2	93.4
Efficiency (%)	50%	92.4	91.2	91.5	91.8	92.4	92.4	93.0
Lilicierity (70)	75%	93.6	92.5	93.0	93.1	93.0	93.0	93.6
	100%	93.6	94.0	94.0	94.0	92.4	93.0	93.0
	25%	0.60	0.55	0.52	0.49	0.66	0.63	0.60
Power Factor	50%	0.83	0.75	0.72	0.70	0.86	0.84	0.83
I OWELL ACIOL	75%	0.88	0.85	0.83	0.82	0.89	0.89	0.88
	100%	0.90	0.90	0.88	0.88	0.90	0.90	0.90

Drive end Non drive end Foundation loads

Bearing type 6314 C3 6314 C3 Max. traction : 673 lb Sealing Lip Seal Lip Seal Max. compression : 1520 lb 4000 h 4000 h

27 g Lubricant amount 27 g Mobil Polyrex EM Lubricant type

Notes

Lubrication interval

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.

(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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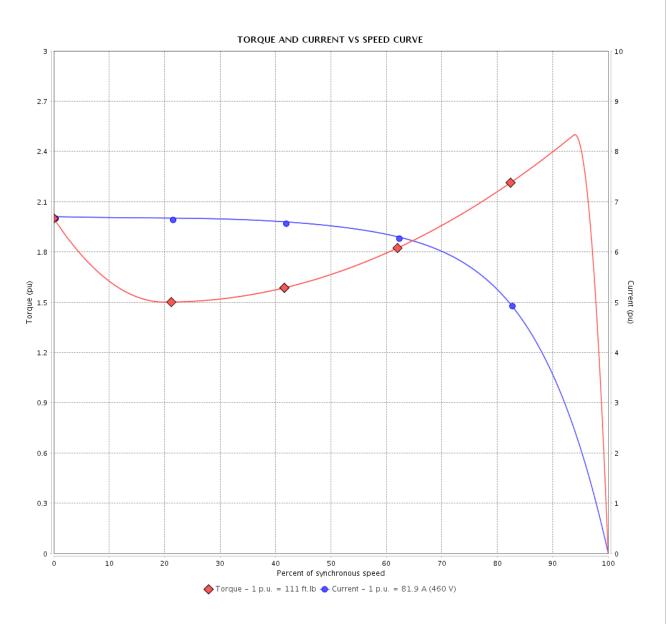


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14383271

Phase

Catalog #: 07536ET3G365JP-W22



Performance : 460 V 60 Hz 2P Rated current : 81.9 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 111 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B

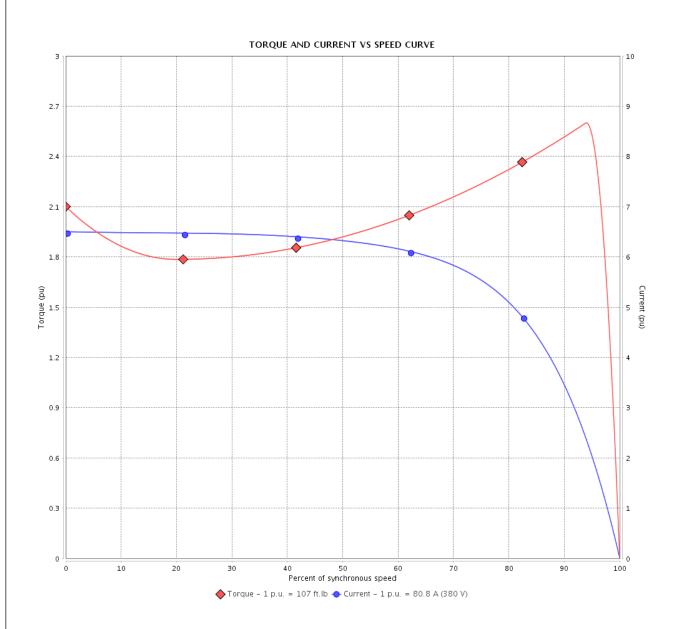
Locked rotor time : 18s (cold) 10s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 14383271 Catalog #: 07536ET3G365JP-W22



Performance : 380 V 50 Hz 2P IE3 Rated current : 80.8 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 107 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 2955 rpm Design Locked rotor time : 39s (cold) 22s (hot)

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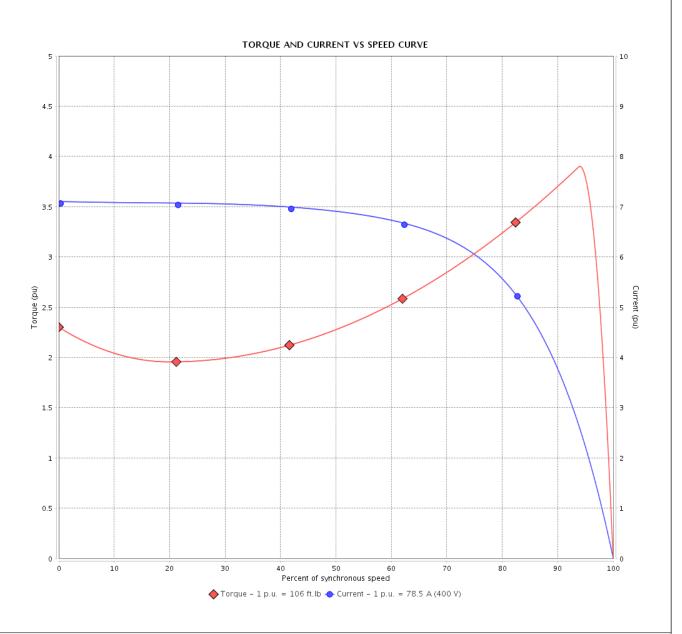


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14383271

Phase

Catalog #: 07536ET3G365JP-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 78.5 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 106 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 390 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B

Locked rotor time : 39s (cold) 22s (hot)

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Torque (pu)

0.5

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0]										0
0	10	20	30	40 Percent	50 of synchronou	60 s sneed	70	80	90	100
			◆Torque -			t – 1 p.u. = 75	.7 A (415 V)			
			·							
								···		
Performance		: 415 V	50 Hz 2P	IE3						
Rated current		: 75.7 <i>F</i>	4		Mome	nt of inertia	a (J)	: 11.9 sc	ı.ft.lb	
LRC		: 7.9			Duty c	ycle		: Cont.(S	31)	
Rated torque		: 106 ft	.lb		Insula	ion class		: F	•	
Locked rotor tord	μue	: 250 %	, D		Servic	e factor		: 1.00		
Breakdown torqu	ie	: 310 %	, D		Tempe	erature rise)	: 80 K		
Rated speed		: 2965	rpm		Design	ו		: B		
Locked rotor time	e	: 37s (cold) 21s ((hot)						
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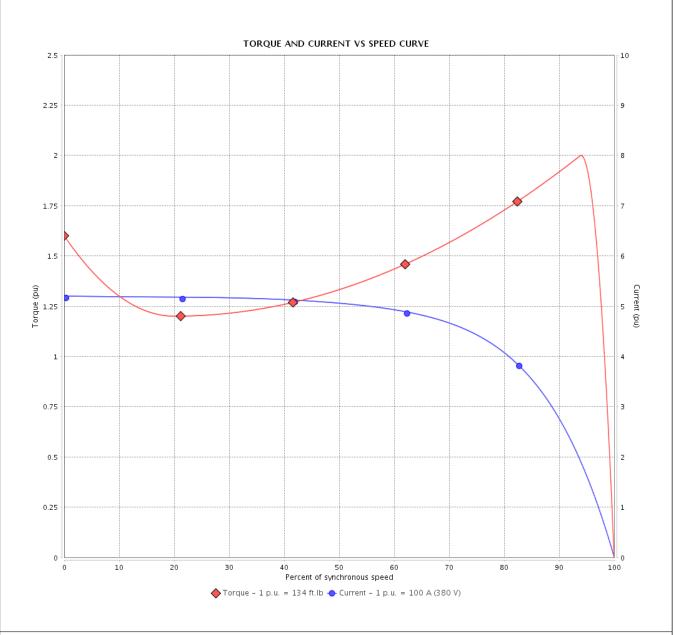
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14383271

Catalog #: 07536ET3G365JP-W22



Performance	: 380 V 50 Hz 2P IE1		
Rated current	: 100 A	Moment of inertia (J)	: 11.9 sq.ft.lb
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 134 ft.lb	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 2930 rpm	Design	: B
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Locked rotor time : 12s (cold) 7s (hot)

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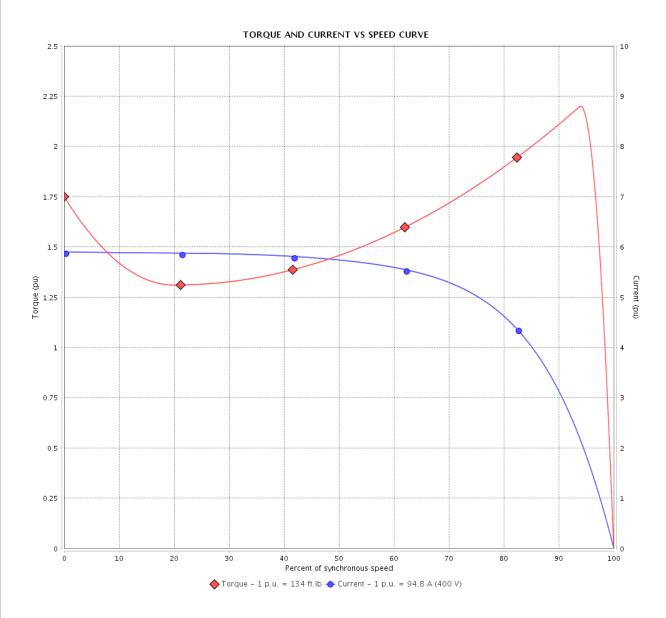


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14383271

Phase

Catalog #: 07536ET3G365JP-W22



Performance	: 400 V 50 Hz 2P IE1			
Rated current	: 94.8 A	Moment of inertia (J)	: 11.9 sq.ft.lb	
LRC	: 5.9	Duty cycle	: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation class	: F	
Locked rotor torque	: 175 %	Service factor	: 1.00	
Breakdown torque	: 220 %	Temperature rise	: 105 K	
Rated speed	: 2945 rpm	Design	: B	

Locked rotor time : 12s (cold) 7s (hot)

LOCKEU TOLOT LITTI	. 1.	23 (Cold) 73 (110t)			
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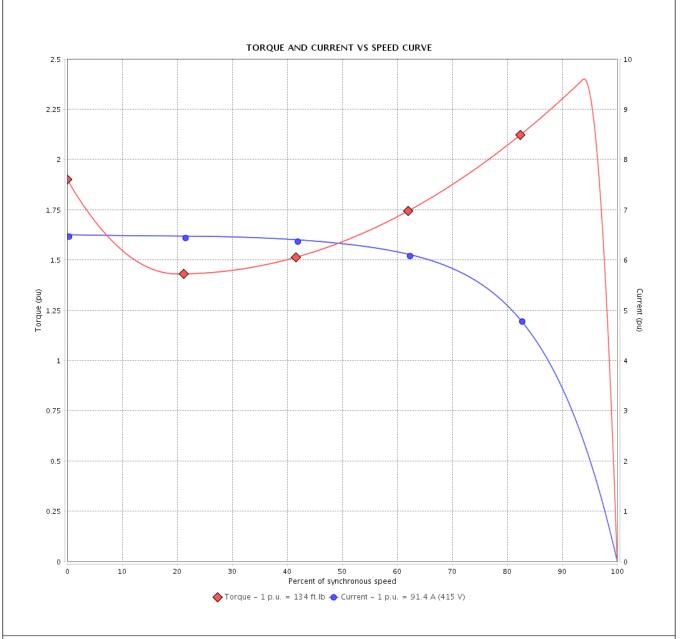


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14383271

Phase

Catalog #: 07536ET3G365JP-W22



Performance : 415 V 50 Hz 2P IE1 Rated current : 91.4 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 134 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 2950 rpm Design : B

Locked rotor time : 12s (cold) 7s (hot)

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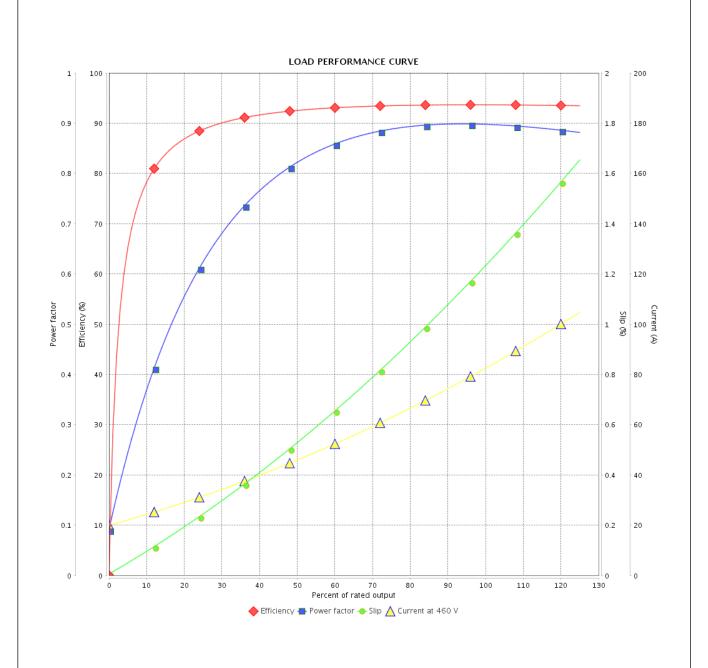


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14383271

Phase

Catalog #: 07536ET3G365JP-W22



Performance	: 4	60 V 60 Hz 2P				
Rated current	ated current : 81.9 A M		Moment o	f inertia (J)	: 11.9 sq.ft.lb	
LRC	: 6	.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	11 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	00 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	50 %	Temperature rise		: 80 K	
Rated speed	: 3	555 rpm	Design		: B	
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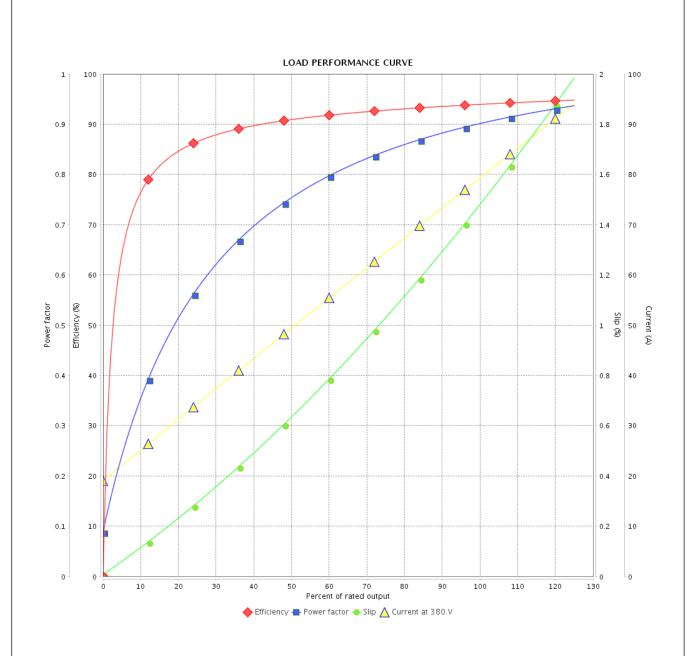
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 14383271

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Performance	: 380 V 50 Hz 2P IE3				
Rated current : 80.8 A LRC : 6.5 Rated torque : 107 ft.lb Locked rotor torque : 210 % Breakdown torque : 260 % Rated speed : 2955 rpm		Moment of inertia (J) : 11.9 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
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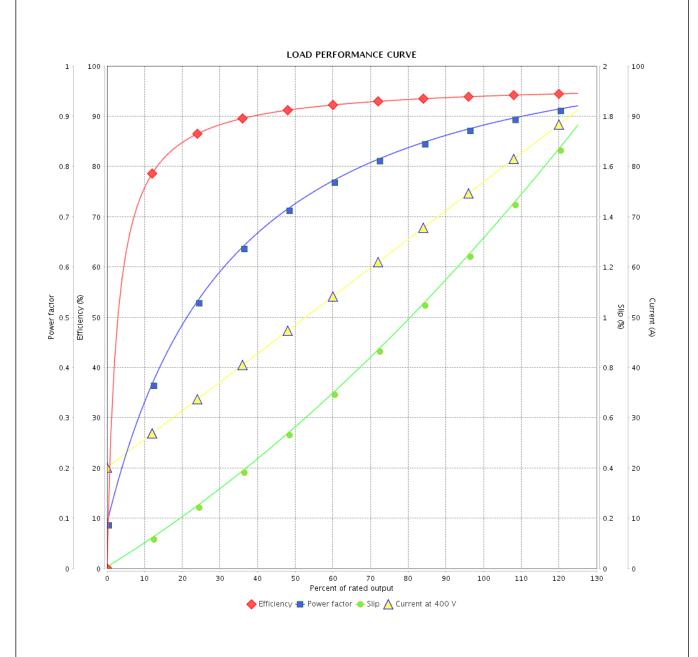
Customer

Product line : NEMA Premium Efficiency Three- Product code : 14383271

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Performance	erformance : 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 78.5 A : 7.1 : 106 ft.lb : 229 % : 390 % : 2960 rpm	Duty cycle Insulation class Service factor		: 11.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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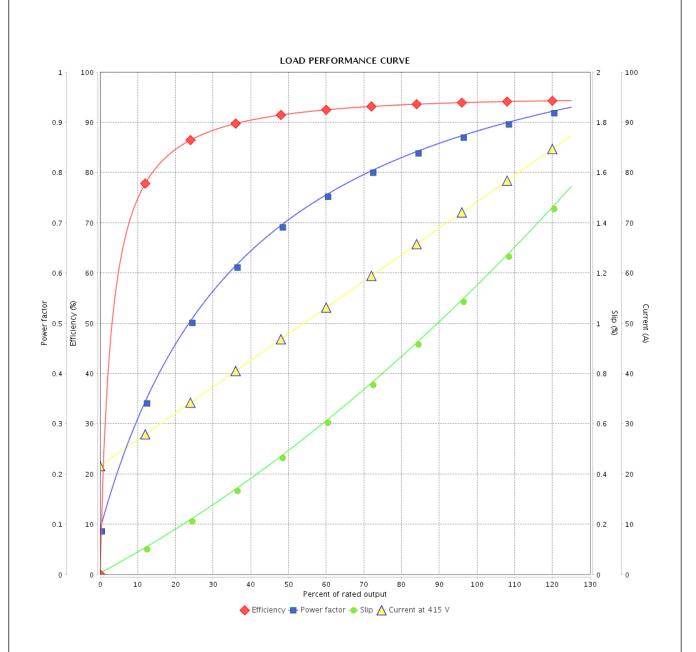
Product line : NEMA Premium Efficiency Three- Product code :

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Performance : 415 V 50 Hz 2P IE3 : 75.7 A Rated current Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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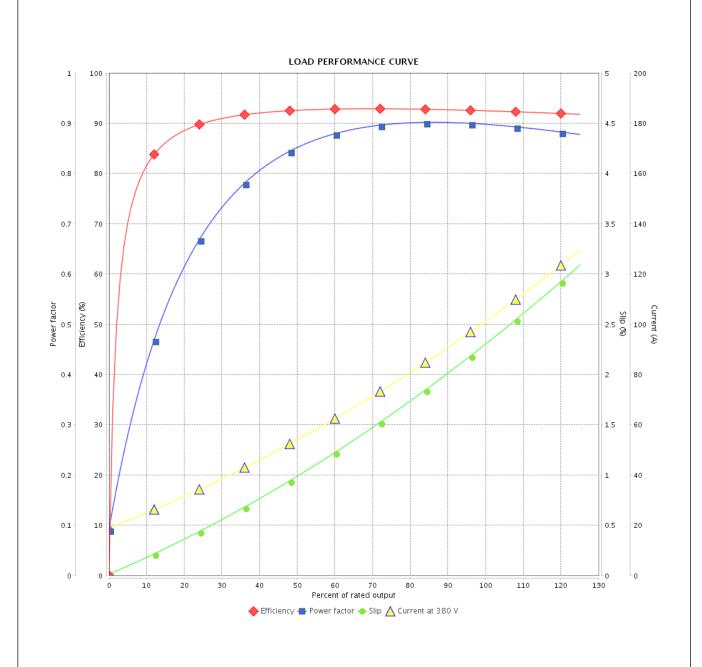


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Product line : NEMA Premium Efficiency Three- Product code : 14383271

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Performance	: 3	380 V 50 Hz 2P IE1				
Rated current	: 1	100 A	Moment o	f inertia (J)	: 11.9 sq.ft.lb	
LRC	: 5	5.2	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	134 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	160 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	200 %	Temperature rise		: 105 K	
Rated speed	: 2	930 rpm Design		: B		
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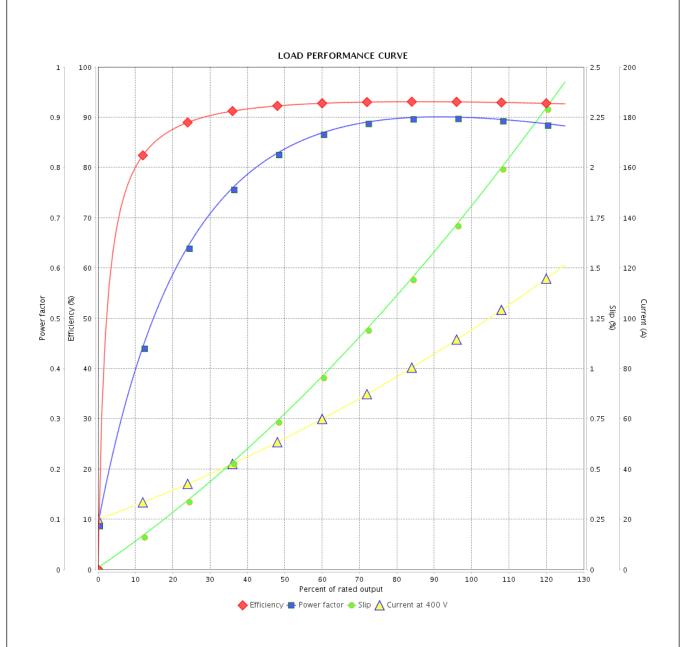
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Product code: 14383271

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Performance	ance : 400 V 50 Hz 2P IE1				
Rated current	: 94.8 A	Moment of	inertia (J)	: 11.9 sq.ft.lb	
LRC	: 5.9	Duty cycle		: Cont.(S1)	
Rated torque	: 134 ft.lb	Insulation of	class	: F	
Locked rotor torque	: 175 %	Service factor		: 1.00	
Breakdown torque	: 220 %	Temperature rise		: 105 K	
Rated speed	: 2945 rpm	Design		: B	
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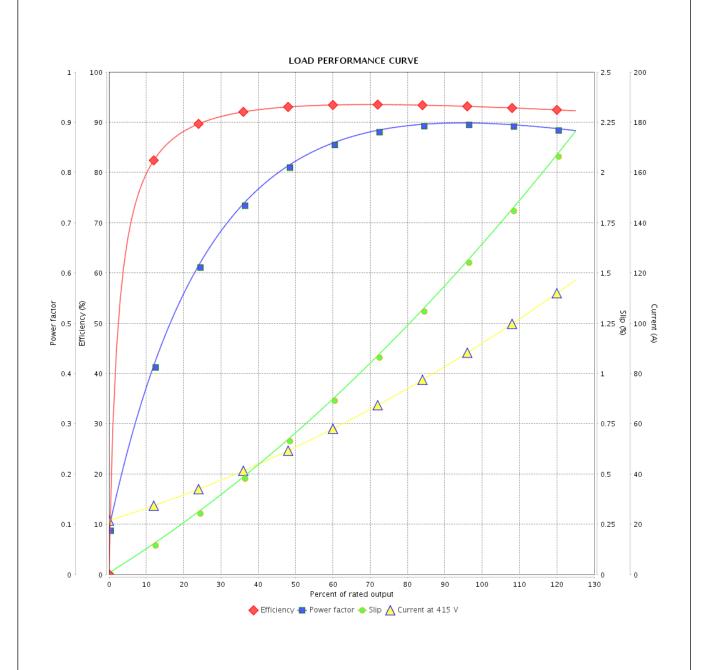


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14383271

Phase

Catalog #: 07536ET3G365JP-W22



Performance		: 415 V 50 Hz 2P IE1				
Rated current		91.4 A	Moment o	f inertia (J)	: 11.9 sq.ft.lb	
LRC	:	6.5	Duty cycle	;	: Cont.(S1)	
Rated torque	:	134 ft.lb	Insulation	class	: F	
Locked rotor torque)	190 %	Service fa	ctor	: 1.00	
Breakdown torque	:	240 %	Temperature rise		: 105 K	
Rated speed	:	: 2950 rpm			: B	
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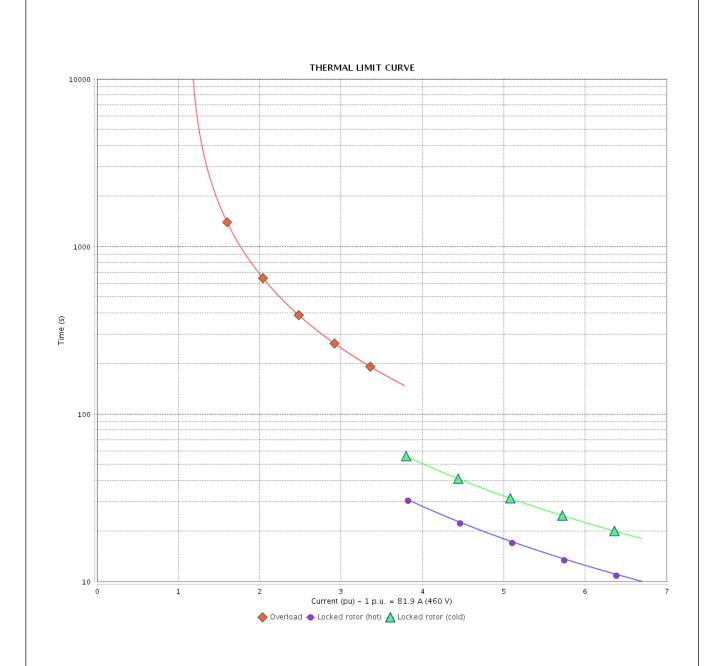


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Product line		NEMA Premium Efficiency hase		Product code :	14383271 07536ET3G36	65JP-W22
Performance	. 44	60 V 60 Hz 2P				
Rated current		1.9 A	Moment o	f inertia (J)	: 11.9 sq.ft.lb	
LRC	: 6.	7	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torqu		11 ft.lb 00 %	Insulation Service fa		: F : 1.25	
Breakdown torque		50 % 50 %	Temperatu		: 80 K	
Rated speed		555 rpm	Design		: B	
Heating constant						
Cooling constant		Change O		Destant	Observed	D-4-
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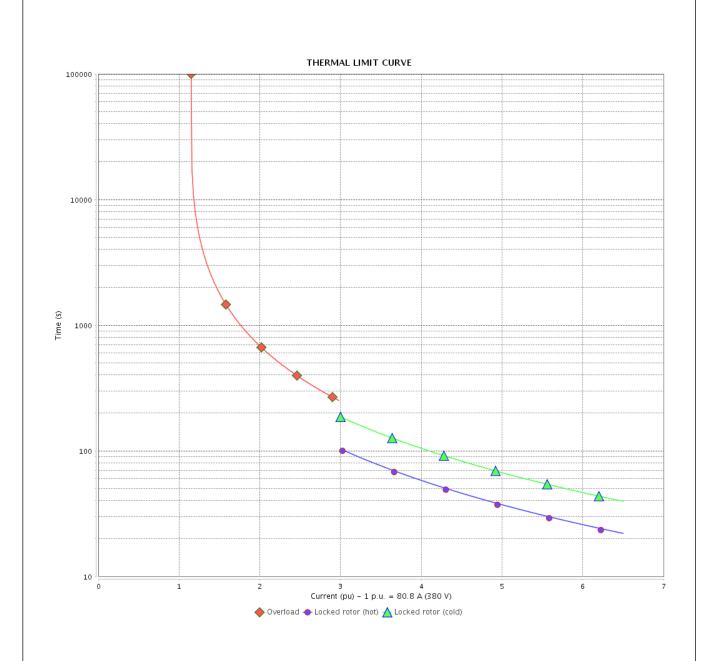


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Gustofflet	•				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	14383271	
	Tidoc	(Catalog # :	07536ET3G3	65JP-W22
Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 80.8 A : 6.5 : 107 ft.lb : 210 % : 260 % : 2955 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
		_ 50.9.1		· -	
Heating constant Cooling constant					
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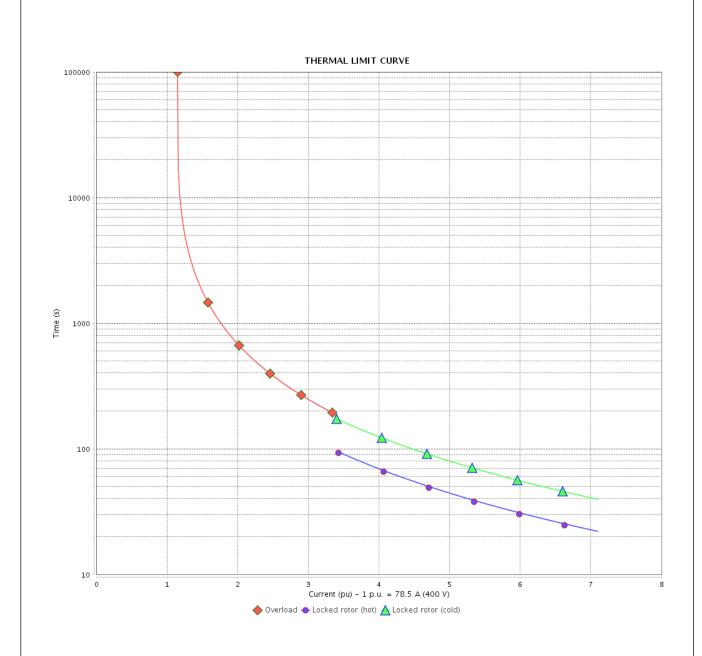


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Product line	: NEMA Premium Efficier Phase		Product code : Catalog # :	14383271 07536ET3G3	65JP-W22
Performance Rated current LRC Rated torque	: 400 V 50 Hz 2P IE3 : 78.5 A : 7.1 : 106 ft.lb	Moment of Duty cycle Insulation	of inertia (J) e class	: 11.9 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 229 % : 390 % : 2960 rpm	Service fa Temperati Design	actor	: 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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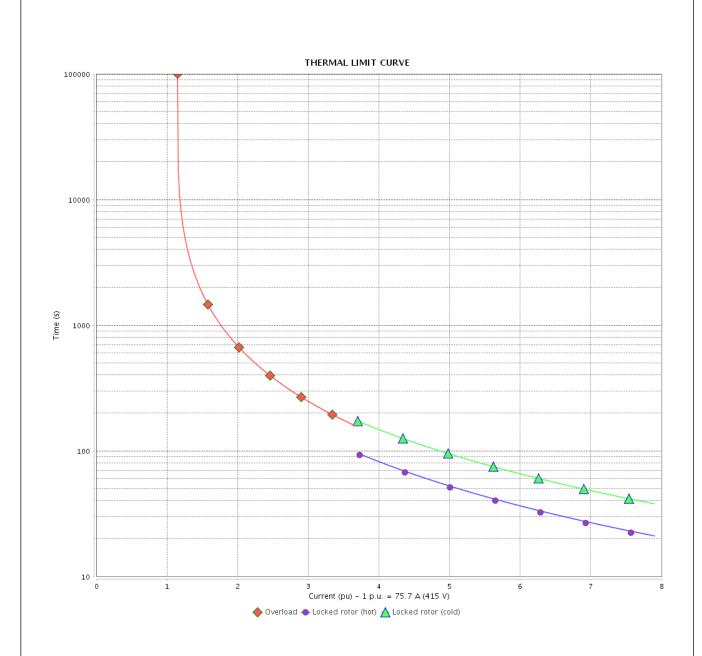


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Product line	: NEMA Premium Efficiency Phase	Three- Product code	: 14383271	
	Thase	Catalog # :	07536ET3G3	65JP-W22
Performance	: 415 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 75.7 A : 7.9 : 106 ft.lb : 250 % : 310 % : 2965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Heating constant Cooling constant				
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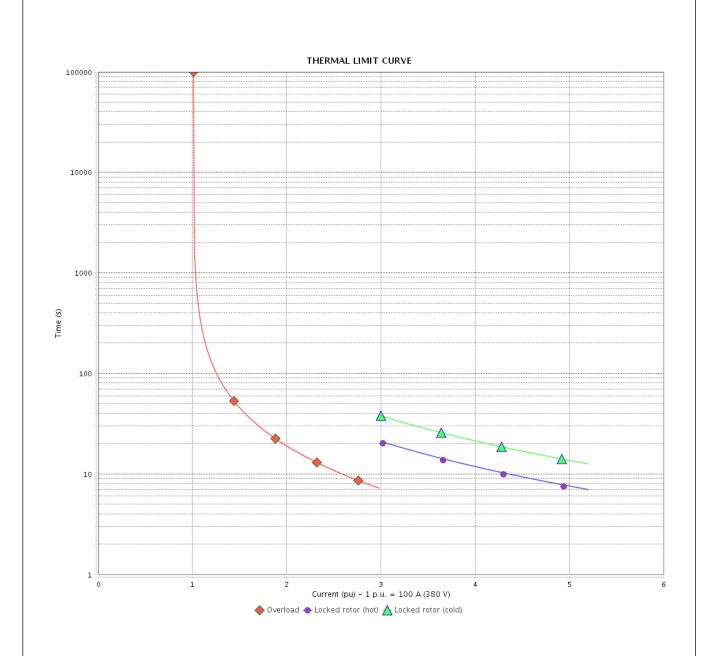


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Product line		NEMA Premium Efficiency ⁻ nase		Product code :	14383271	
			(Catalog # :	07536ET3G3	65JP-W22
Performance	: 38	30 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5. : 13 e : 16 : 20	00 A 2 34 ft.lb 50 % 00 % 930 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Heating constant						
Cooling constant		01	Т	Dest 1	Oh I I	Б.
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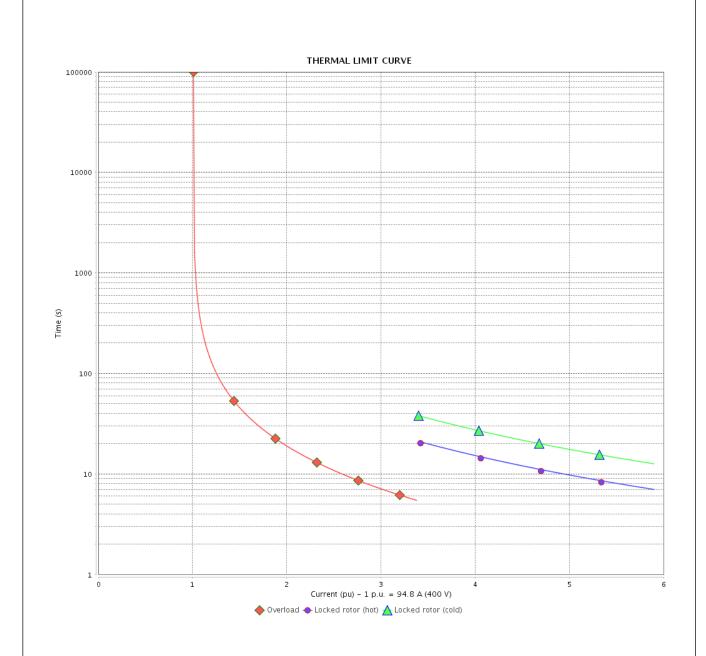


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Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	14383271 07536ET3G3	65JP-W22
Performance		00 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5. : 13 : 17 : 22	4.8 A 9 34 ft.lb 75 % 20 % 945 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant						
Cooling constant						
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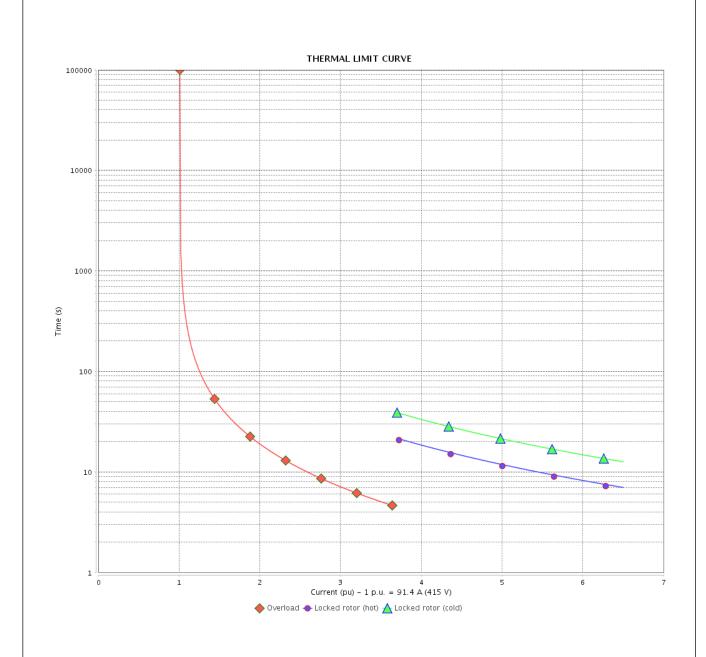


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Product line	: NEMA Premium Efficien Phase		Product code :	14383271	
			Catalog # :	07536ET3G3	65JP-W22
Performance	: 415 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 91.4 A : 6.5 : 134 ft.lb : 190 % : 240 % : 2950 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class actor	: 11.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
	·				
Heating constant Cooling constant					
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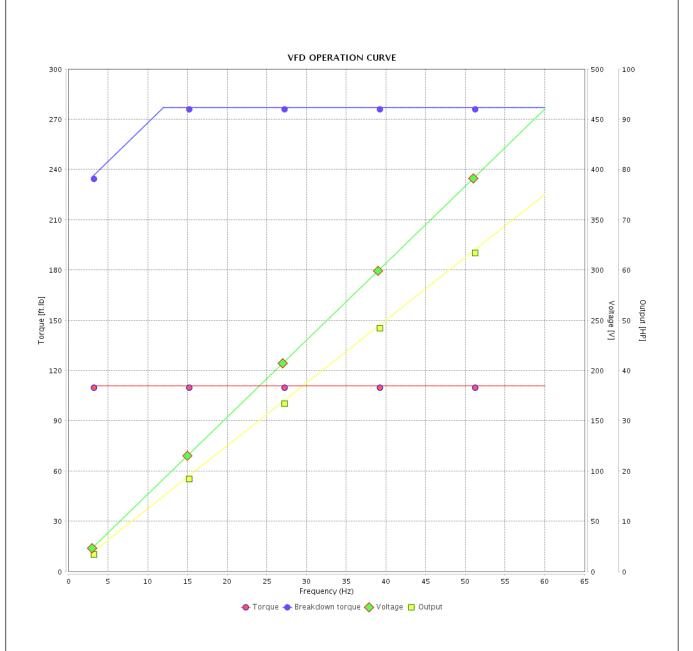
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14383271

Catalog #: 07536ET3G365JP-W22

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Performance : 460 V 60 Hz 2P Rated current : 81.9 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 111 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3555 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



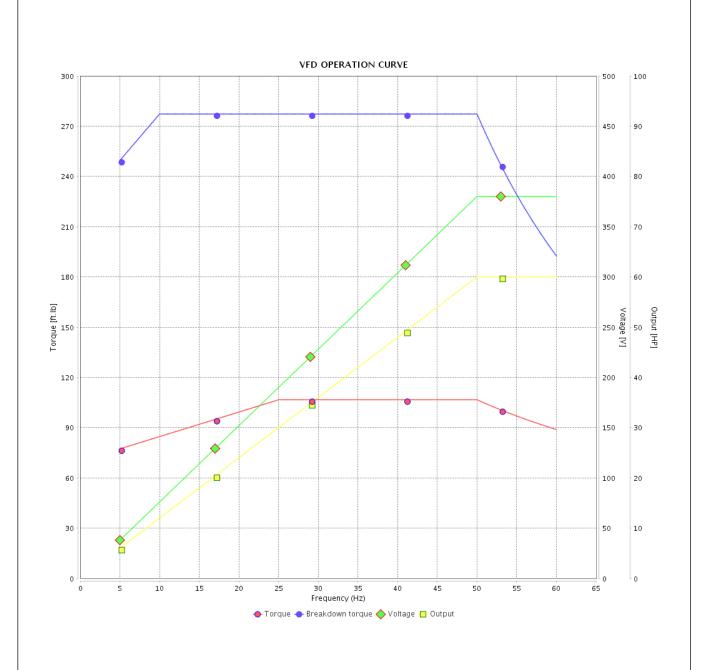
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Product line : NEMA Premium Efficiency Three- Product code : 14383271

Phase

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Performance	: 380 V 50 Hz 2P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 80.8 A : 6.5 : 107 ft.lb : 210 % : 260 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 6.5 Duty cycle : Cont.(S1) : 107 ft.lb Insulation class : F : 210 % Service factor : 1.00 : 260 % Temperature rise : 80 K		
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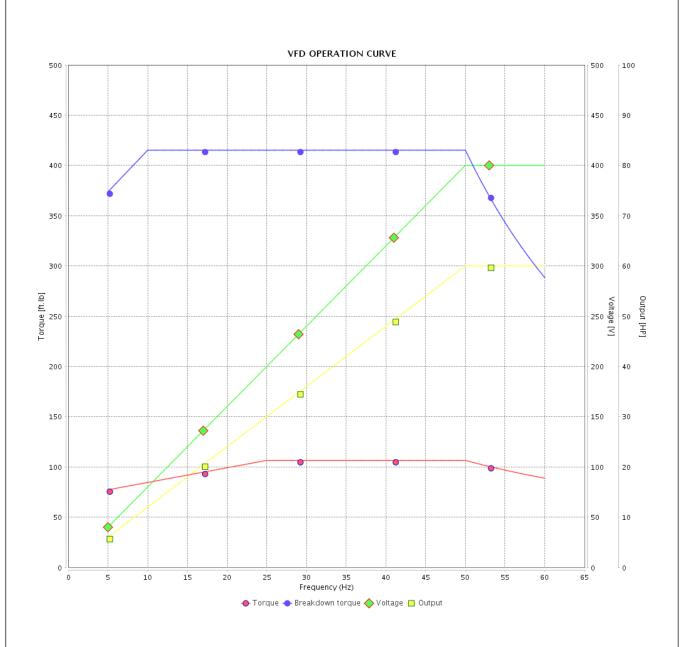
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14383271

Catalog #: 07536ET3G365JP-W22

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Performance : 400 V 50 Hz 2P IE3 : 78.5 A Rated current Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 390 % Temperature rise : 80 K Rated speed : 2960 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



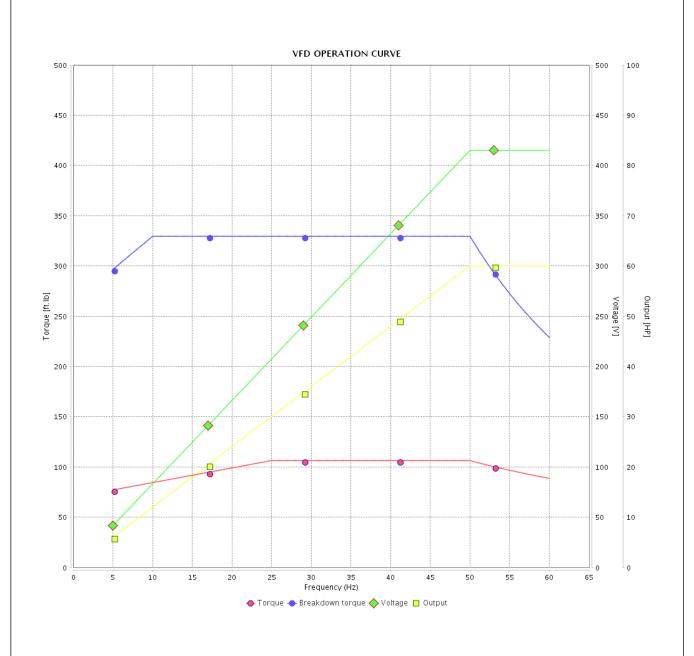
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Product line : NEMA Premium Efficiency Three- Product code : 14383271

Phase

Catalog #: 07536ET3G365JP-W22

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 75.7 A Moment of inertia (J) : 11.9 sq.ft.lb : 7.9 Duty cycle : Cont.(S1) : 106 ft.lb Insulation class : F : 250 % Service factor : 1.00 : 310 % Temperature rise : 80 K : 2965 rpm Design : B		Duty cycle Insulation class Service factor Temperature rise		
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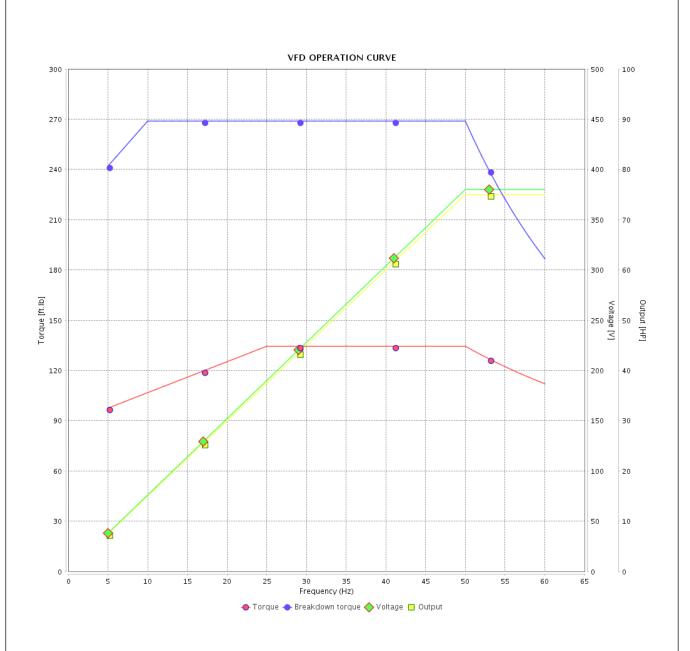
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14383271

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Performance : 380 V 50 Hz 2P IE1 : 100 A Rated current Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : 5.2 Duty cycle : Cont.(S1) : 134 ft.lb Insulation class : F Rated torque Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 2930 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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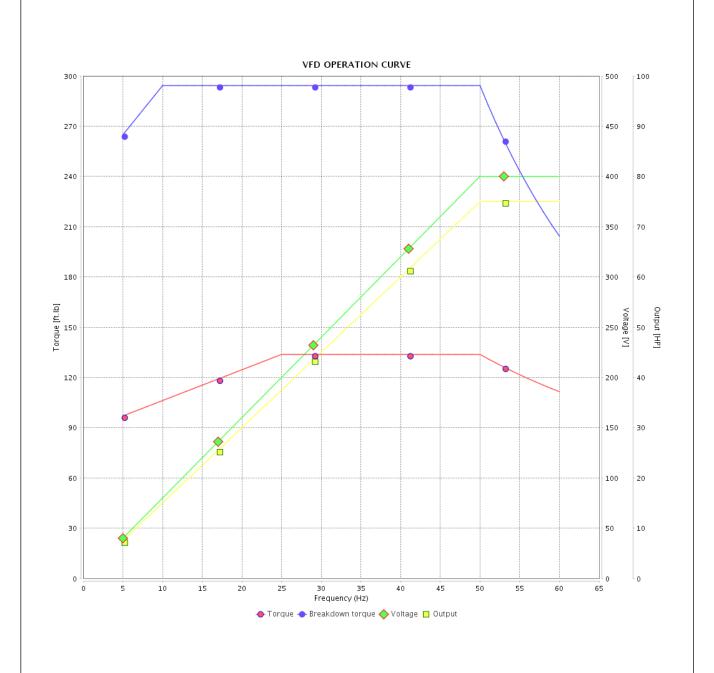
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07536ET3G365JP-W22

14383271



Performance	: •	400 V 50 Hz 2P IE1				
Rated current	: !	94.8 A	Moment o	f inertia (J)	: 11.9 sq.ft.lb	
LRC	: :	5.9	Duty cycle	;	: Cont.(S1)	
Rated torque	:	134 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	175 %	Service fa	ctor	: 1.00	
Breakdown torque	::	220 %	Temperature rise		: 105 K	
Rated speed	: 2945 rpm		Design	Design		
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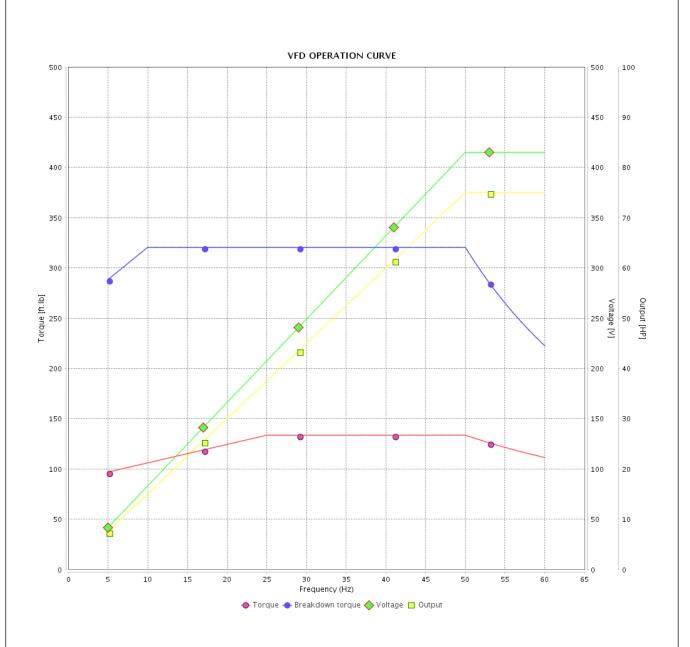
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14383271

Catalog #: 07536ET3G365JP-W22



Performance : 415 V 50 Hz 2P IE1 Rated current : 91.4 A Moment of inertia (J) : 11.9 sq.ft.lb **LRC** : Cont.(S1) : 6.5 Duty cycle Insulation class : 134 ft.lb : F Rated torque Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 2950 rpm Design : B

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