DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13249041

Catalog #: 07518ET3E365TC-W22G

Frame : 364/5TC 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 : 965 lb Protection degree : 23.3 sq.ft.lb : IP55 Moment of inertia (J)

Design	C	: B		IVIOITIEI	it of inertia (3)	. 2	.5.5 Sq.11.1b	
Output [HP]		75	60	60	60	75	75	75
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]		174/87.2	88.5	84.9	82.7	106	102	98.7
L. R. Amperes [A]		1116/558	620	637	662	541	571	602
LRC [A]		6.4x(Code	7.0x(Code H)	7.5x(Code J)	8.0x(Code J)	5.1x(Code E)	5.6x(Code F)	6.1x(Code
		G)						G)
No load current [A	.]	66.0/33.0	33.0	35.0	38.0	33.0	35.0	38.0
Rated speed [RPN	Л]	1780	1480	1480	1485	1470	1475	1480
Slip [%]		1.11	1.33	1.33	1.00	2.00	1.67	1.33
Rated torque [ft.lb]]	221	213	213	212	268	267	266
Locked rotor torqu	ie [%]	240	210	240	260	170	200	210
Breakdown torque	: [%]	260	250	280	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		25s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)	18s (cold)
		14s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)	10s (hot)
Noise level ²		67.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
	25%	94.0	93.6	93.3	93.0	94.8	94.7	94.0
Efficiency (%)	50%	94.5	93.7	93.6	93.5	94.5	94.5	94.1
Liliciency (70)	75%	95.0	94.2	94.2	94.2	94.1	94.5	94.5
	100%	95.4	94.2	94.4	94.6	93.6	94.1	94.5
	25%	0.44	0.44	0.40	0.37	0.51	0.46	0.43
Power Factor	50%	0.68	0.68	0.64	0.61	0.75	0.70	0.67
I OWEI FACIOI	75%	0.78	0.78	0.75	0.73	0.82	0.80	0.78
	100%	0.83	0.82	0.81	0.80	0.84	0.83	0.82

Drive end Non drive end Foundation loads

Bearing type 6314 C3 6314 C3 Max. traction : 1704 lb Sealing WSeal WSeal Max. compression : 2669 lb

12000 h

27 g Lubricant amount 27 g Mobil Polyrex EM Lubricant type

12000 h

Notes

Lubrication interval

USABLE @208V 186A SF 1.10 SFA 205A

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

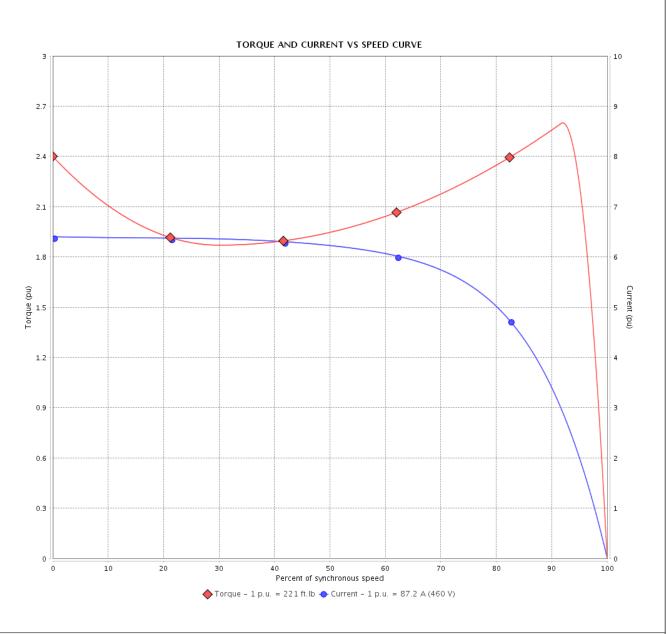


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13249041

Phase

Catalog #: 07518ET3E365TC-W22G



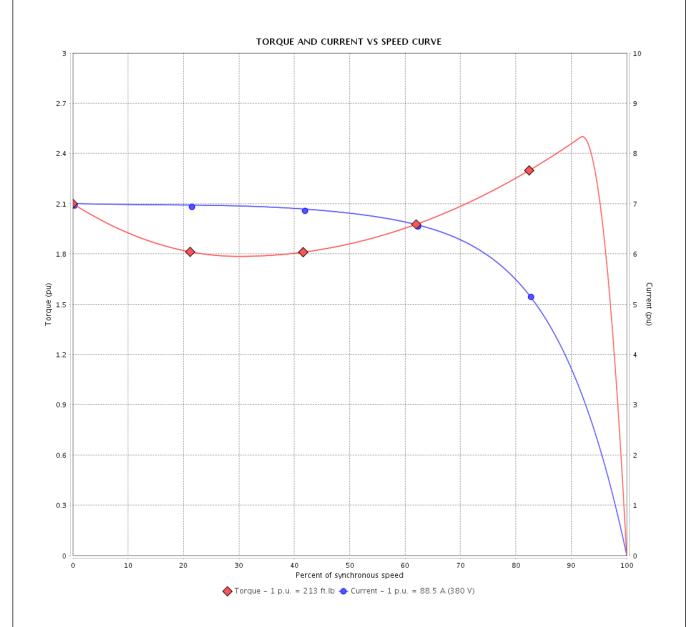
Performance : 230/460 V 60 Hz 4P Rated current : 174/87.2 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 221 ft.lb : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 13249041 Catalog #: 07518ET3E365TC-W22G



Performance : 380 V 50 Hz 4P IE3 Rated current : 88.5 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 213 ft.lb Insulation class : F Rated torque : 1.00 Locked rotor torque : 210 % Service factor : 80 K Breakdown torque : 250 % Temperature rise : B Rated speed : 1480 rpm Design Locked rotor time : 18s (cold) 10s (hot)

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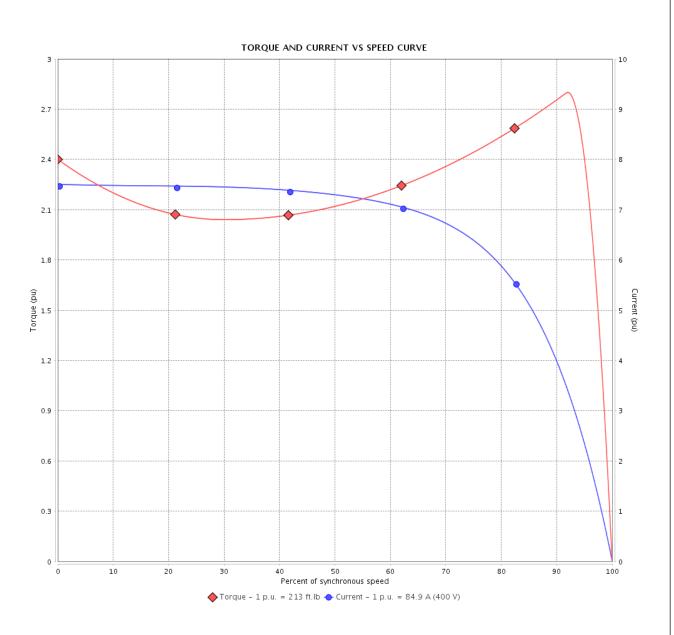
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07518ET3E365TC-W22G

13249041



Performance	: 400 V 50 Hz 4P IE3			
Rated current	: 84.9 A	Moment of inertia (J)	: 23.3 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 213 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
Locked rotor time	: 18s (cold) 10s (hot)			

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13249041 Catalog #: 07518ET3E365TC-W22G TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 212 ft.lb ◆ Current - 1 p.u. = 82.7 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 82.7 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 212 ft.lb : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Locked rotor time : 18s (cold) 10s (hot) Rev. Performed Checked Date **Changes Summary**

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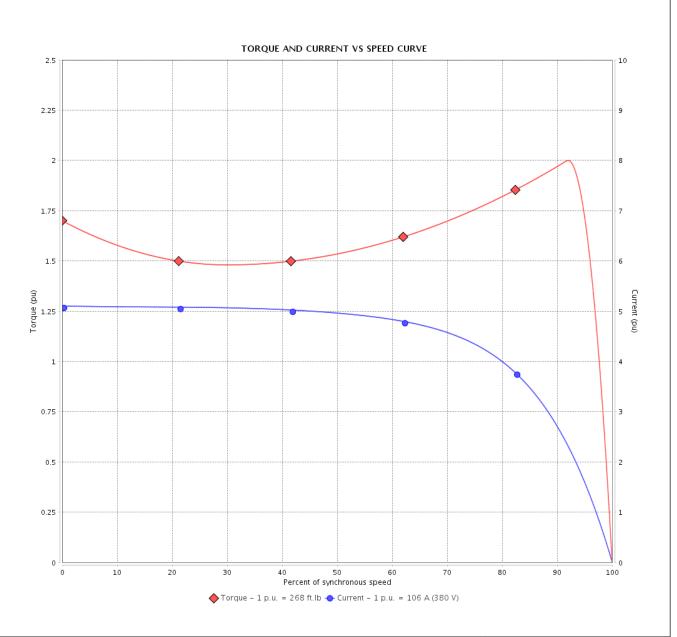


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13249041

Phase

Catalog #: 07518ET3E365TC-W22G



Performance : 380 V 50 Hz 4P IE2 Rated current : 106 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 268 ft.lb : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B

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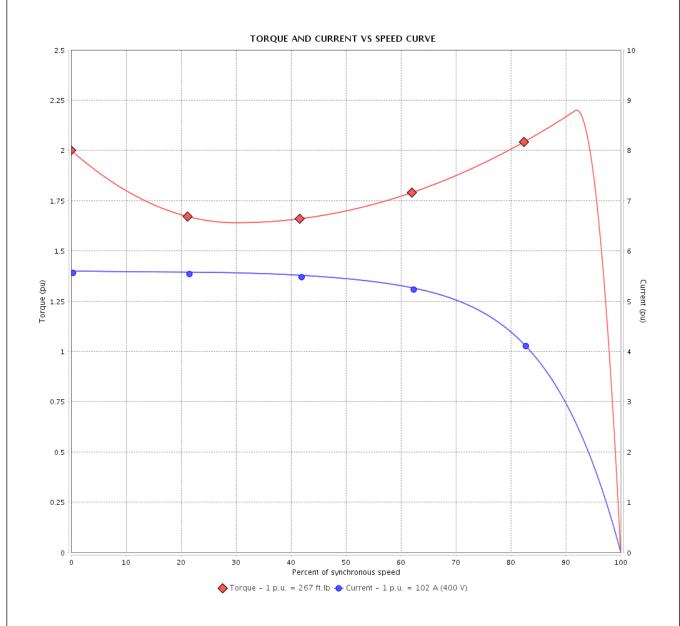
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Product line : NEMA Premium Efficiency Three- Product code : 13249041

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Catalog #: 07518ET3E365TC-W22G



Performance	: 400 V 50 Hz 4P IE2			
Rated current	: 102 A	Moment of inertia (J)	: 23.3 sq.ft.lb	
LRC	: 5.6	Duty cycle	: Cont.(S1)	
Rated torque	: 267 ft.lb	Insulation class	:F ^	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 220 %	Temperature rise	: 105 K	
Rated speed	: 1475 rpm	Design	: B	
Locked rotor time	: 18s (cold) 10s (bot)			

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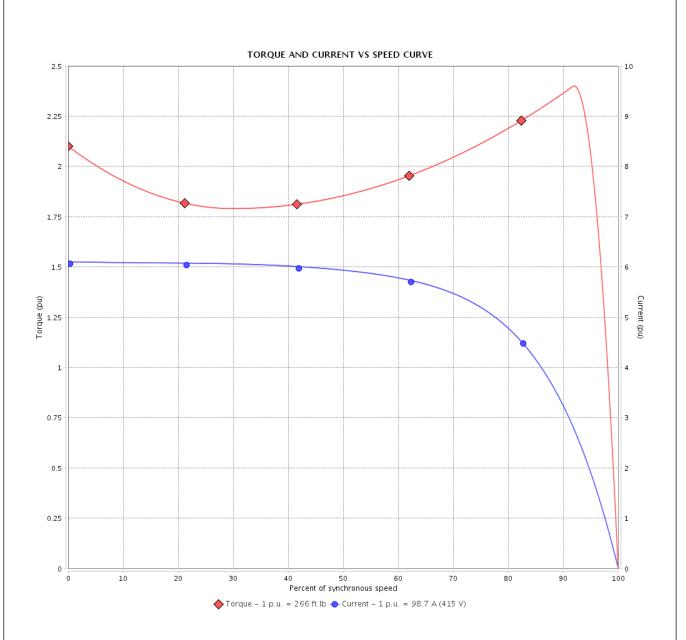
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07518ET3E365TC-W22G

13249041



Performance	: 415 V 50 Hz 4P IE2			
Rated current	: 98.7 A	Moment of inertia (J)	: 23.3 sq.ft.lb	
LRC	: 6.1	Duty cycle	: Cont.(S1)	
Rated torque	: 266 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 105 K	
Rated speed	: 1480 rpm	Design	: B	

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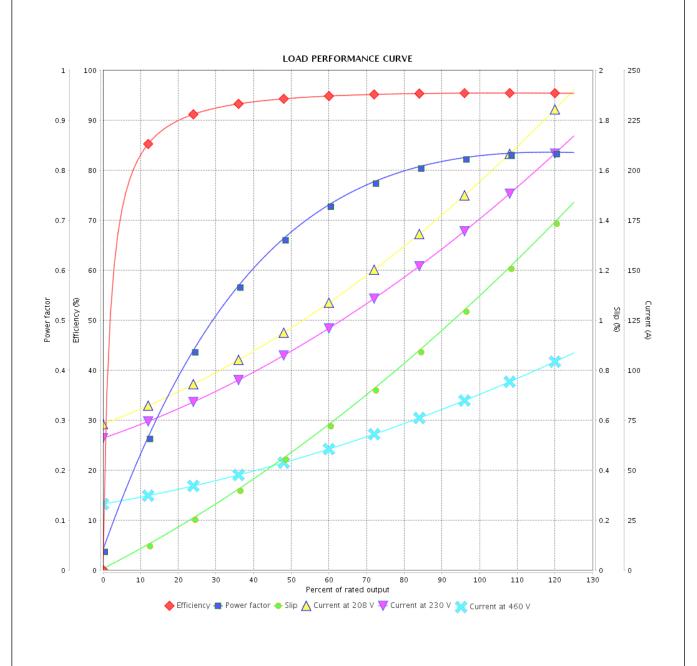


Customer

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Phase

Catalog #: 07518ET3E365TC-W22G



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	: 1	74/87.2 A	Moment o	f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 6	5.4	Duty cycle	:	: Cont.(S1)	
Rated torque	: 2	21 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	40 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	.60 %	Temperatu	ıre rise	: 80 K	
Rated speed	: 1	780 rpm	Design		: B	
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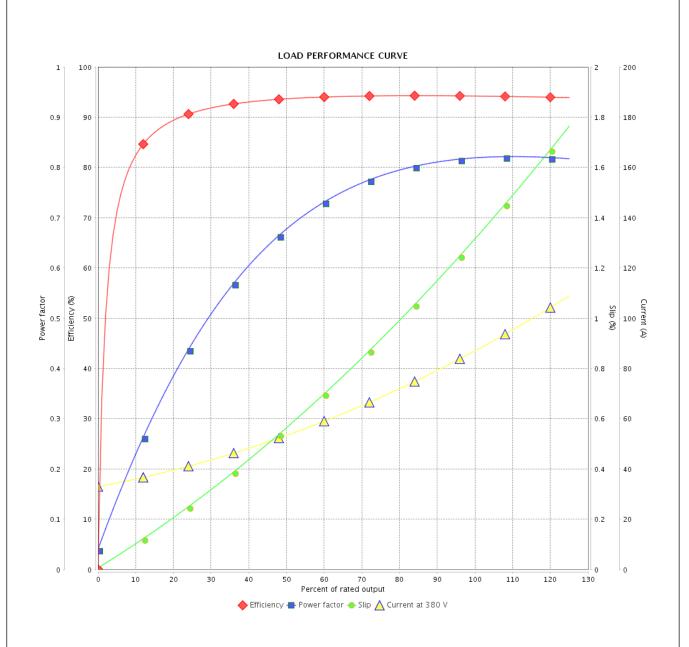
Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 13249041

Catalog #: 07518ET3E365TC-W22G

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Performance	rformance : 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 88.5 A : 7.0 : 213 ft.lb : 210 % : 250 % : 1480 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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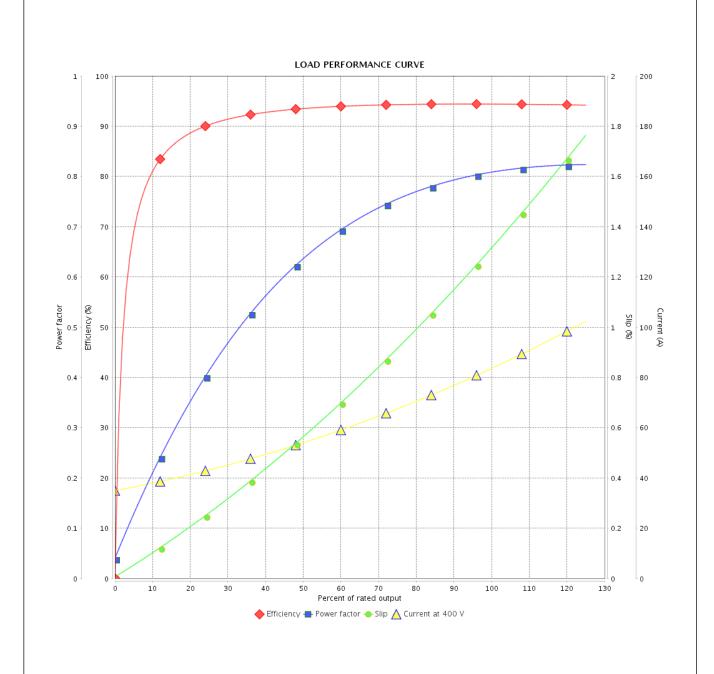


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Product line : NEMA Premium Efficiency Three- Product code : 13249041

Phase

Catalog #: 07518ET3E365TC-W22G



Performance	:	: 400 V 50 Hz 4P IE3				
Rated current	:	84.9 A	Moment o	f inertia (J)	: 23.3 sq.ft.lb	
LRC	:	7.5	Duty cycle	;	: Cont.(S1)	
Rated torque	:	213 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	240 %	Service fa	Service factor : 1.00		
Breakdown torque	:	280 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1480 rpm	Design		: B	
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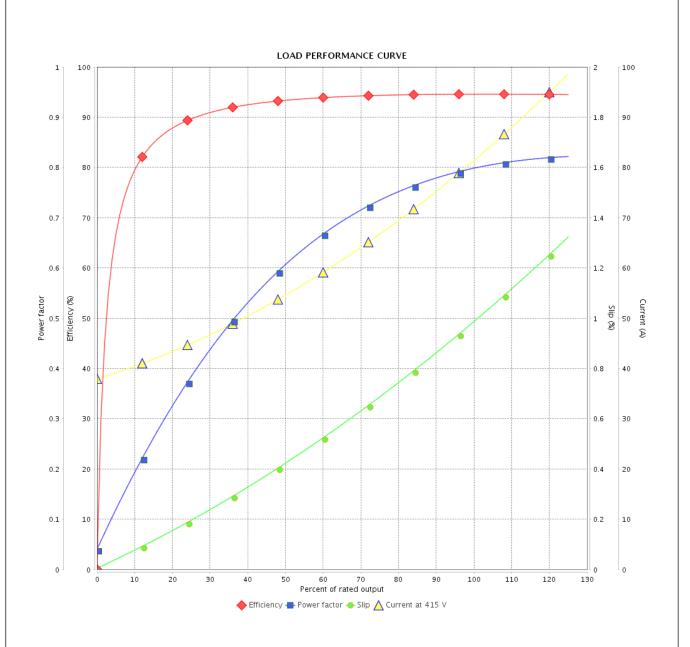
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Phase

Product code: 13249041

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Performance : 415 V 50 Hz 4P IE3 Rated current : 82.7 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.0 Insulation class Rated torque : 212 ft.lb : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage

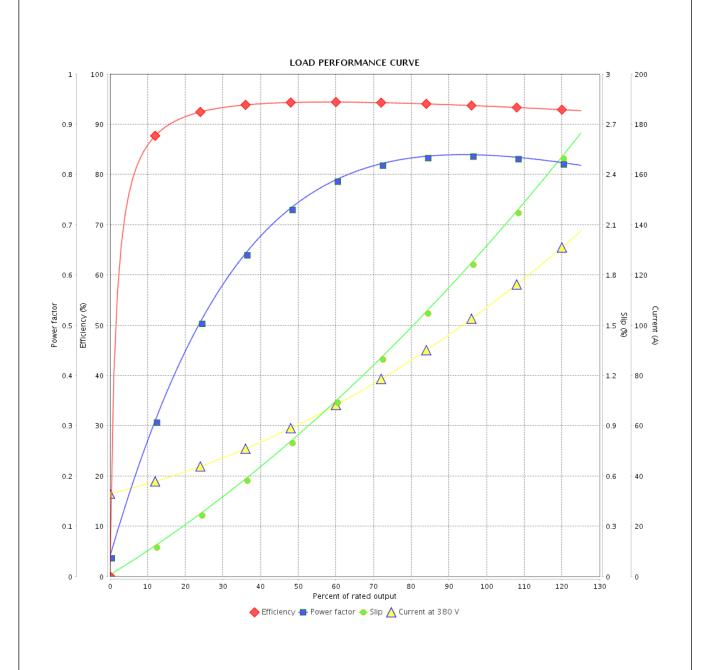


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Product line : NEMA Premium Efficiency Three- Product code : 13249041

Phase

Catalog #: 07518ET3E365TC-W22G



Performance	: 380 V 50 Hz 4P IE2					
Rated current	ated current : 106 A		Moment o	f inertia (J)	: 23.3 sq.ft.lb	
LRC	:	5.1	Duty cycle	;	: Cont.(S1)	
Rated torque		268 ft.lb	Insulation	class	: F	
Locked rotor torque		170 %	Service fa	Service factor : 1.00		
Breakdown torque	: 2	200 %	Temperati	ıre rise	: 105 K	
Rated speed	: '	1470 rpm	Design		: B	
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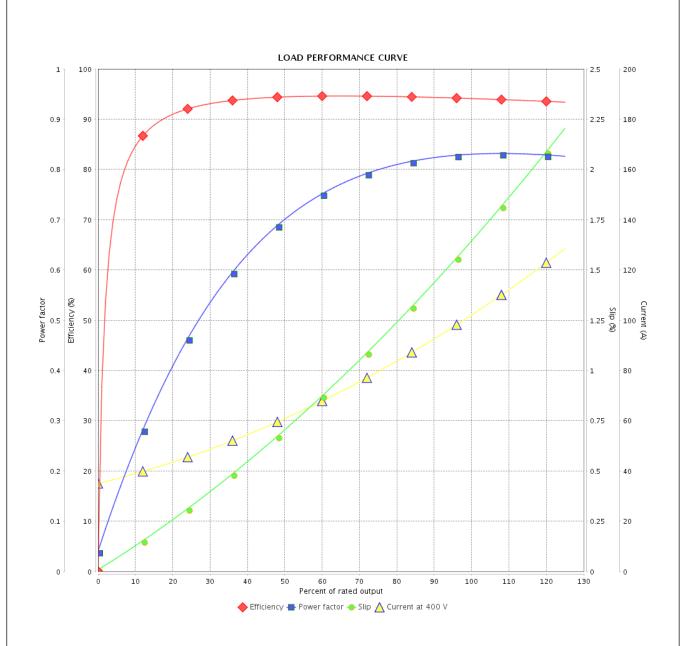
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Performance		: 400 V 50 Hz	4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	C : 5.6 ted torque : 267 ft.lb cked rotor torque : 200 % eakdown torque : 220 %		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
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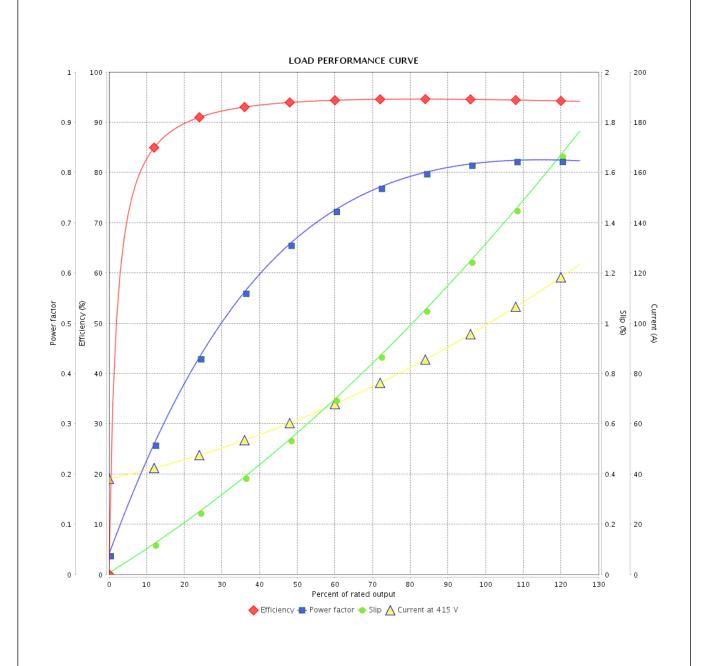


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Product line : NEMA Premium Efficiency Three- Product code : 13249041

Phase

Catalog #: 07518ET3E365TC-W22G



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	ent : 98.7 A Mome		Moment o	f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 6	5.1	Duty cycle	;	: Cont.(S1)	
Rated torque			Insulation	class	: F	
Locked rotor torque : 210 %		10 %	Service fa	ctor	: 1.00	
Breakdown torque	: : 2	40 %	Temperatu	Temperature rise : 105 K		
Rated speed	: 1	480 rpm	Design		: B	
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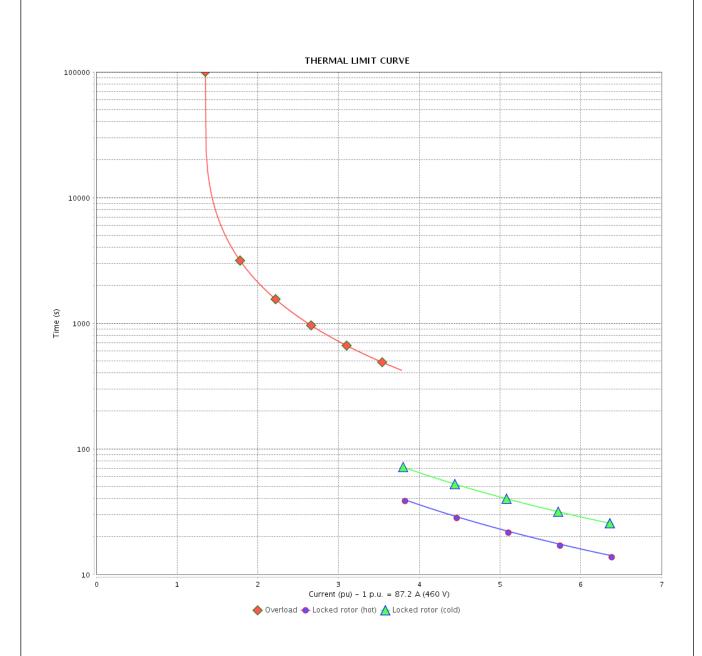


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Product line	. 1	NEMA Premium Efficiency	Throo I	Product code :	13249041	
FIOUUCI IIIIE	. i P	hase				
				Catalog # :	07518ET3E36	65TC-W22G
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 17 : 6.	74/87.2 A .4	Moment of Duty cycle	f inertia (J)	: 23.3 sq.ft.lb : Cont.(S1)	
Rated torque	: 22	21 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		40 % 60 %	Service far Temperatu		: 1.25 : 80 K	
Rated speed		780 rpm	Design	110 C	: 80 K : B	
Heating constant	t					
Cooling constant						
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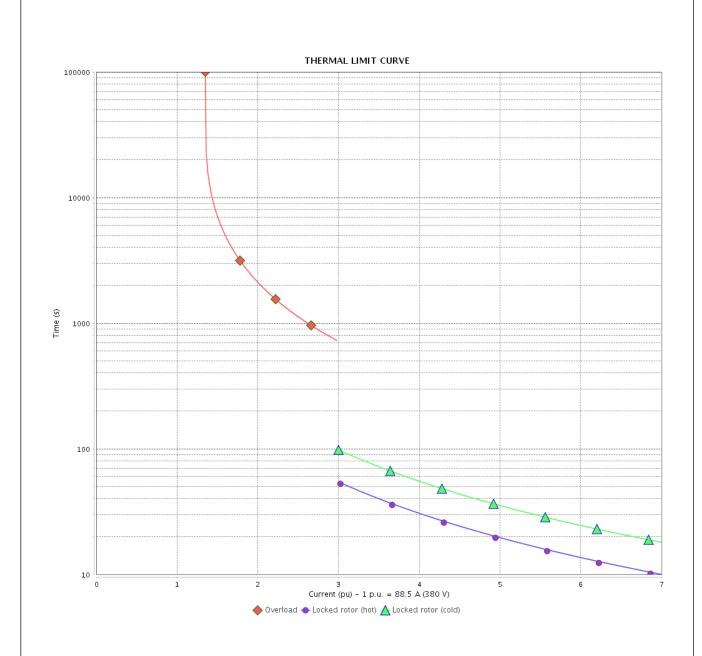


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	13249041	
	PI	hase		Catalog # :	07518ET3E36	65TC-W22G
Performance		30 V 50 Hz 4P IE3 3.5 A	Moment -	finartia (I)	. 22 2 22 4 15	
Rated current LRC	: 7.	0	Duty cycle	f inertia (J)	: 23.3 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque		13 ft.lb 10 %	Insulation Service fa	class	: F : 1.00	
Breakdown torque	: 25	50 %	Temperatu		: 80 K	
Rated speed	: 14	180 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summani		Performed	Checked	Date
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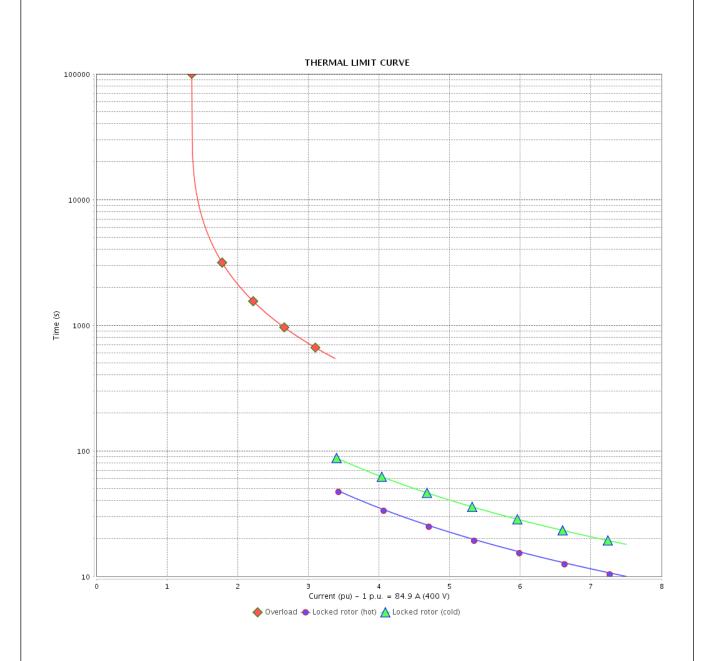


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	13249041	CETO WOOO
			Catalog # :	07518ET3E3	051C-W22G
		.,			
Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque	: 84.9 A : 7.5 : 213 ft.lb	Moment of Duty cycle Insulation	f inertia (J) e class	: 23.3 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque	: 240 %	Service fa		: 1.00	
Breakdown torque Rated speed	: 280 % : 1480 rpm	Temperati Design		: 80 K : B	
Heating constant					
Cooling constant					
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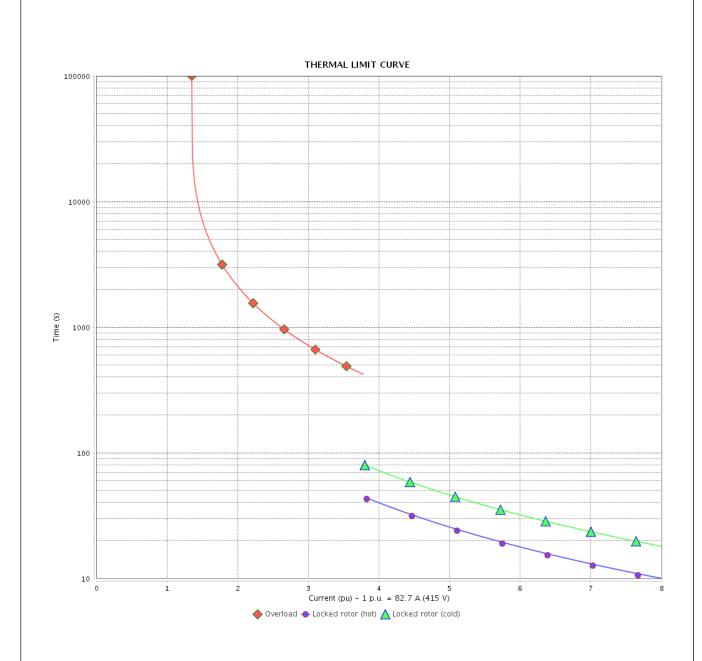


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13249041 07518ET3E36	65TC-W22G
Performance		: 415 V 50 Hz 4P IE3				
Rated current		: 82.7 A	Moment o	of inertia (J)	: 23.3 sq.ft.lb	
LRC Rated torque		: 8.0 : 212 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 260 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed		: 310 % : 1485 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant		r				
Cooling constant						
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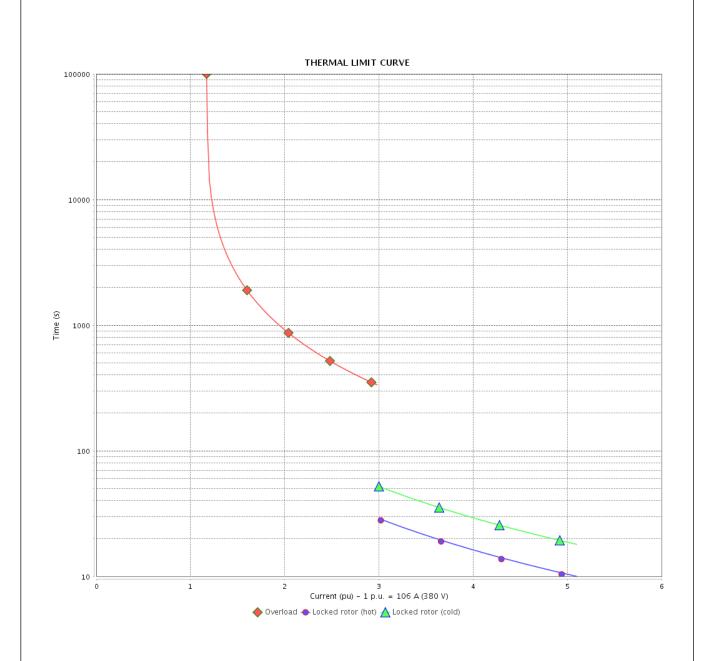


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	13249041	
	PI	hase	1	Catalog # :	07518ET3E36	65TC-W22G
Performance Rated current		30 V 50 Hz 4P IE2 06 A	Momento	f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 5.	1	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torque		68 ft.lb 70 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 20	00 %	Temperatu		: 105 K	
Rated speed	: 14	470 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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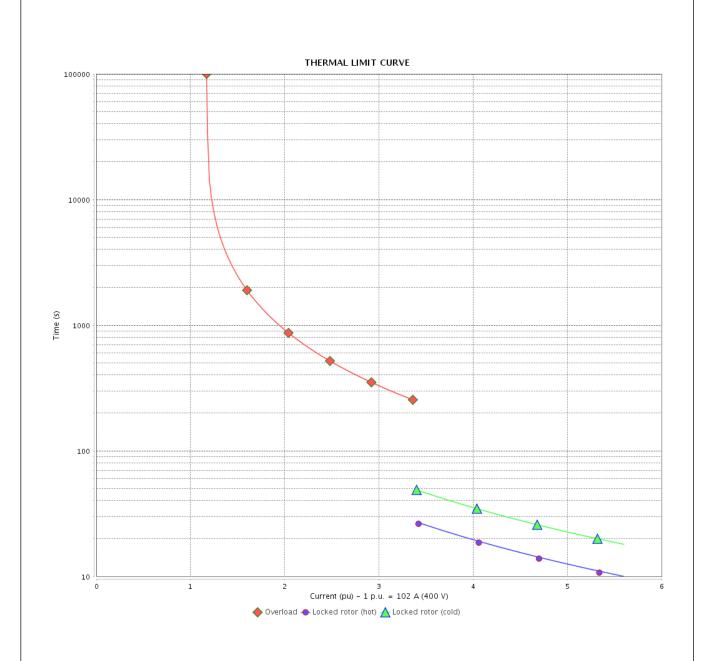


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	13249041	05T0 W000
				Catalog # :	07518ET3E3	031C-W22G
D		400 V 50 H- 4D IF0				
Performance Rated current		400 V 50 Hz 4P IE2 102 A	Moment o	of inertia (J)	: 23.3 sq.ft.lb	
LRC	:	5.6	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor tord		267 ft.lb 200 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		220 %	Temperati		: 1.00 : 105 K	
Rated speed		1475 rpm	Design		: B	
Heating constan	t					
Cooling constant	İ					
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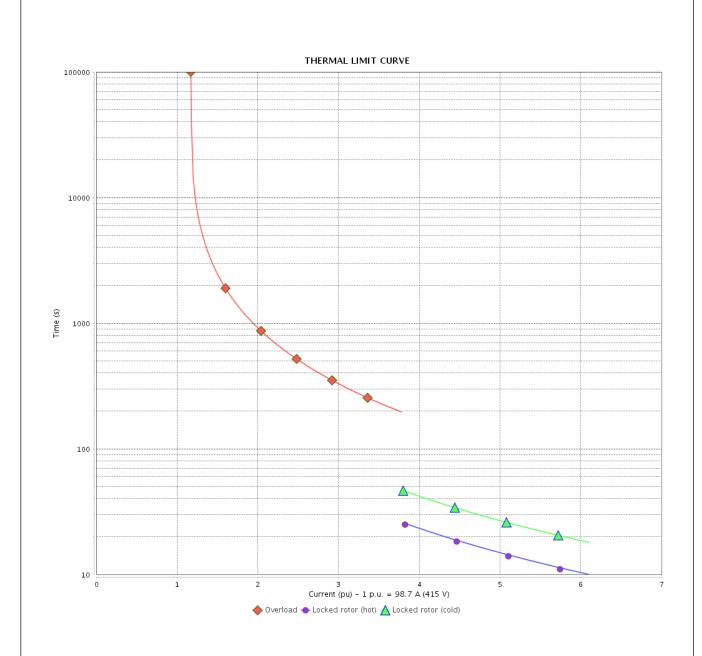


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		roduct code :	13249041 07518ET3E3	SETC W22C
			atalog # :	U/518E13E3	051C-W22G
Performance	: 415 V 50 Hz 4P IE2				
Rated current	: 98.7 A	Moment of i	nertia (J)	: 23.3 sq.ft.lb	
LRC	: 6.1	Duty cycle		: Cont.(S1)	
Rated torque	: 266 ft.lb	Insulation cl		: F	
Locked rotor torque Breakdown torque	: 210 % : 240 %	Service fact Temperature		: 1.00 : 105 K	
Rated speed	: 1480 rpm	Design	0 1100	: B	
Heating constant		-			
Cooling constant					
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Product line : NEMA Premium Efficiency Three- Product

Phase

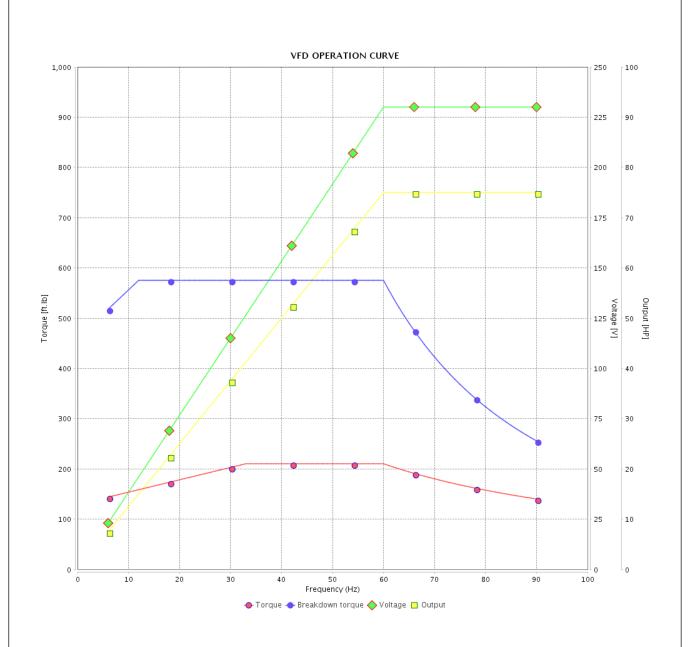
Product code: 13249041

Catalog #: 07518ET3E365TC-W22G

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Performance : 230/460 V 60 Hz 4P : 174/87.2 A Rated current Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 221 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

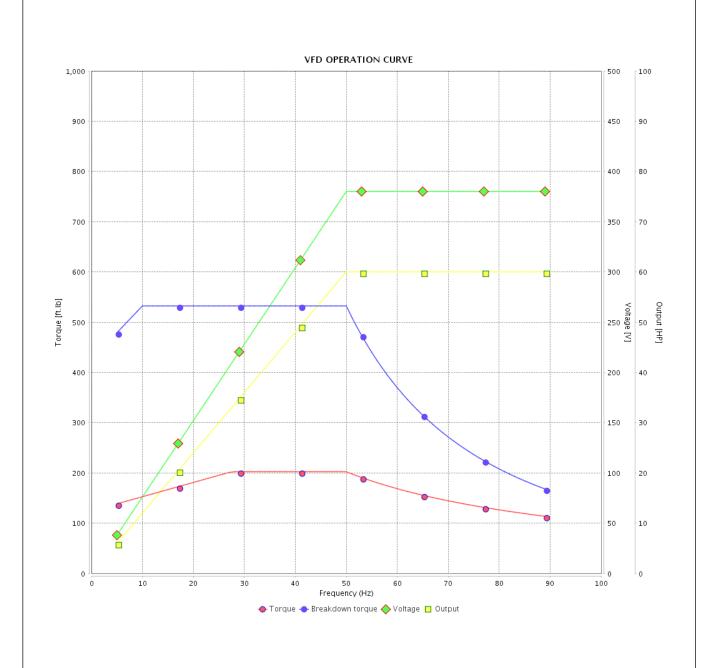
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 13249041

Catalog #: 07518ET3E365TC-W22G



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	ated current : 88.5 A Moment of ii		of inertia (J)	: 23.3 sq.ft.lb		
LRC	: 7.	.0	Duty cycle	e	: Cont.(S1)	
Rated torque	: 2	13 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	10 %	Service fa	ictor	: 1.00	
Breakdown torque	: 2	50 %	Temperature rise		: 80 K	
Rated speed	: 14	480 rpm	Design		: B	
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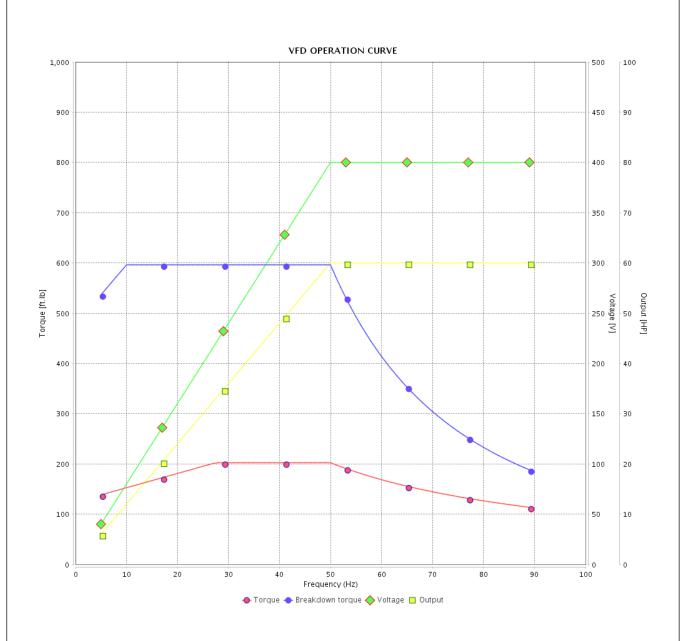
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 13249041

Catalog #: 07518ET3E365TC-W22G

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Performance	: 400 V 50 Hz 4P IE3			
Rated current	: 84.9 A	Moment of inertia (J)	: 23.3 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 213 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
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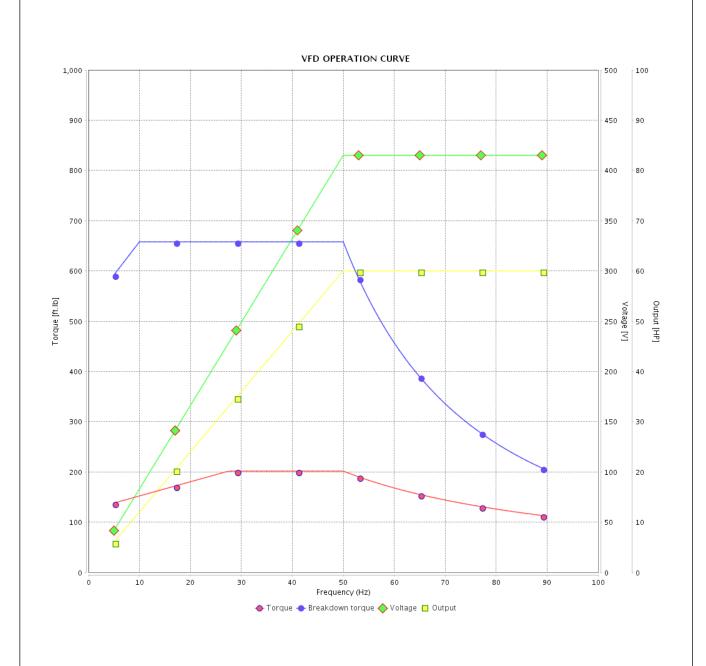


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13249041

Phase

Catalog #: 07518ET3E365TC-W22G



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 8:	2.7 A	Moment o	of inertia (J)	: 23.3 sq.ft.lb	
LRC	: 8	.0	Duty cycle	9	: Cont.(S1)	
Rated torque	: 2	12 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 20	60 %	Service fa	ictor	: 1.00	
Breakdown torque	: 3	10 %	Temperature rise		: 80 K	
Rated speed	: 14	485 rpm	Design		: B	
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Phase

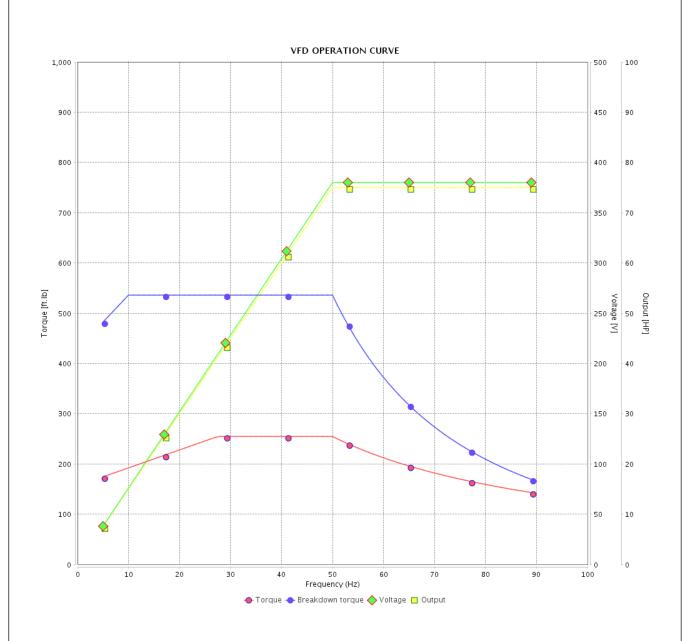
Product code: 13249041

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Performance : 380 V 50 Hz 4P IE2 : 106 A Rated current Moment of inertia (J) : 23.3 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.1 : 268 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

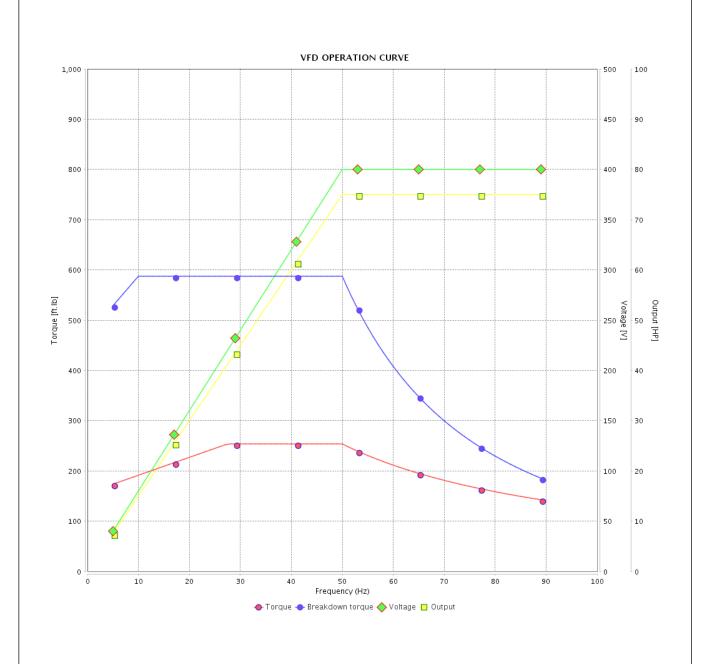


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13249041

Phase

Catalog #: 07518ET3E365TC-W22G



Performance	: 40	00 V 50 Hz 4P IE2				
Rated current : 10		02 A	Moment of inertia (J)		: 23.3 sq.ft.lb	
LRC	: 5.	6	Duty cycle)	: Cont.(S1)	
Rated torque	: 20	67 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 20	00 %	Service fa	ctor	: 1.00	
Breakdown torque	: 22	20 %	Temperature rise		: 105 K	
Rated speed	: 14	475 rpm	Design		: B	
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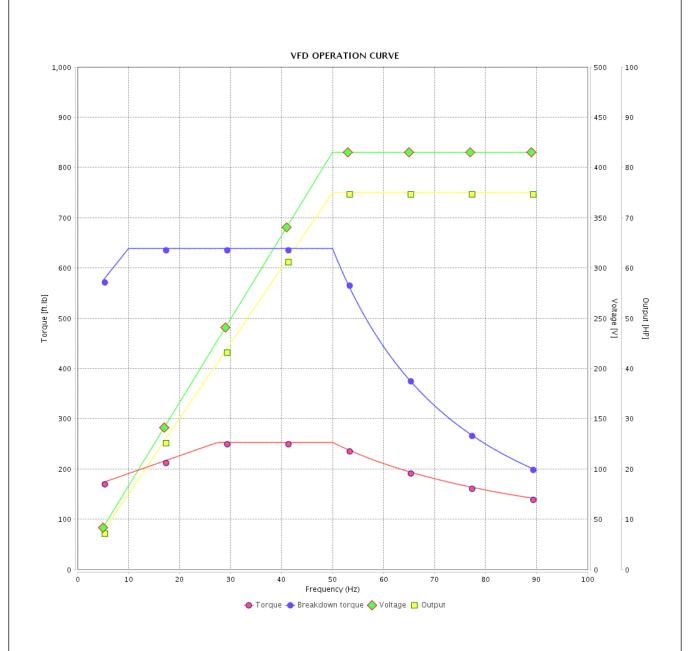
Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 13249041

Catalog #: 07518ET3E365TC-W22G

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Performance : 415 V 50 Hz 4P IE2 Rated current : 98.7 A Moment of inertia (J) : 23.3 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 266 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1480 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

