DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12076589

Phase

Catalog #: 07518ET3E365TC-W22

Frame : 364/5TC 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. weight³ : 953 lb

Protection degree	е	: IP55		Momer	nt of inertia (J)) : 2	23.3 sq.ft.lb	
Design		: B						
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 G)	7.0x(Code H)	7.5x(Code J)	8.0x(Code J)	5.1x(Code E)	5.6x(Code F)	6.1x(Code G)
No load current [A]		66.0/33.0	33.0	35.0	38.0	33.0	35.0	38.0
Rated speed [RPN	/ []	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	e [%]	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%							
Efficiency (%)	50%	94.5	93.7	93.6	93.5	94.5	94.5	94.1
Linciency (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%								
Power Factor	50%	0.68	0.68	0.64	0.61	0.75	0.70	0.67
FOWEI 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 : 1710 lb Sealing : WSeal WSeal Max. compression : 2663 lb

12000 h

Lubricant amount : 27 g 27 g Lubricant type : Mobil Polyrex EM

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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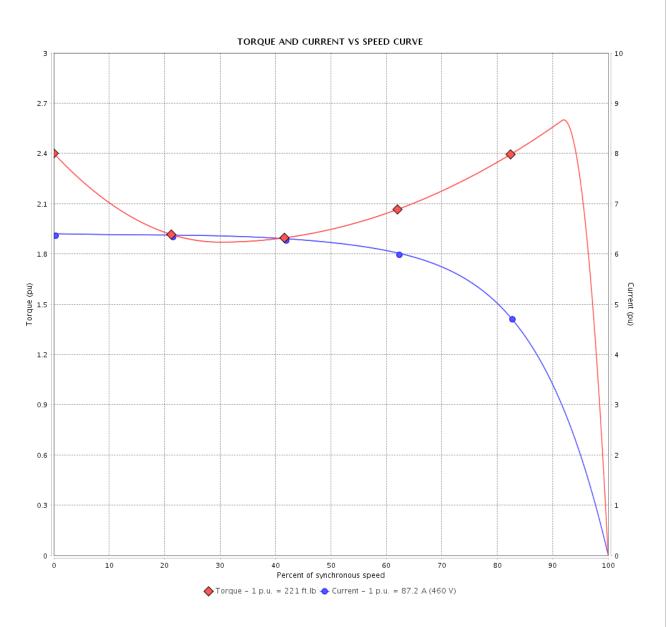


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12076589

Phase

Catalog #: 07518ET3E365TC-W22



Performance	: 230/460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 174/87.2 A : 6.4 : 221 ft.lb : 240 % : 260 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B				
Locked rotor time	: 25s (cold) 14s (hot)						

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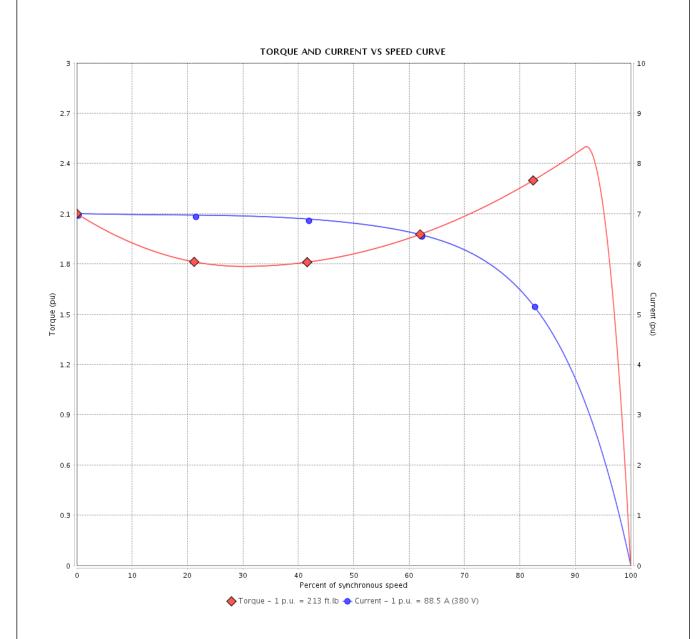
Three Phase Induction Motor - Squirrel Cage



07518ET3E365TC-W22

Customer Product line : NEMA Premium Efficiency Three-Product code: 12076589

Catalog #:



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) Insulation class Rated torque : 213 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B Locked rotor time

: 18s (cold) 10s (hot)

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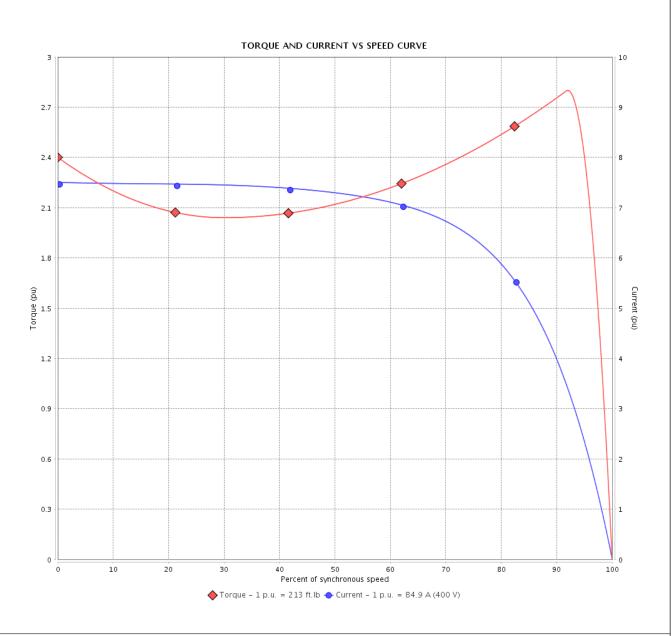
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12076589

Catalog #: 07518ET3E365TC-W22



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) Insulation class Rated torque : 213 ft.lb : 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: 12076589 Catalog #: 07518ET3E365TC-W22 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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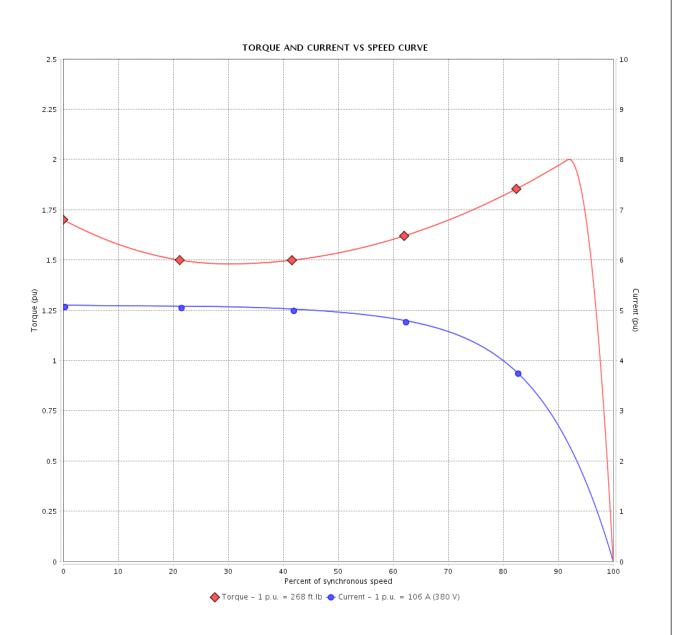


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12076589

Phase

Catalog #: 07518ET3E365TC-W22



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 Service factor Locked rotor torque : 170 % : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B

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

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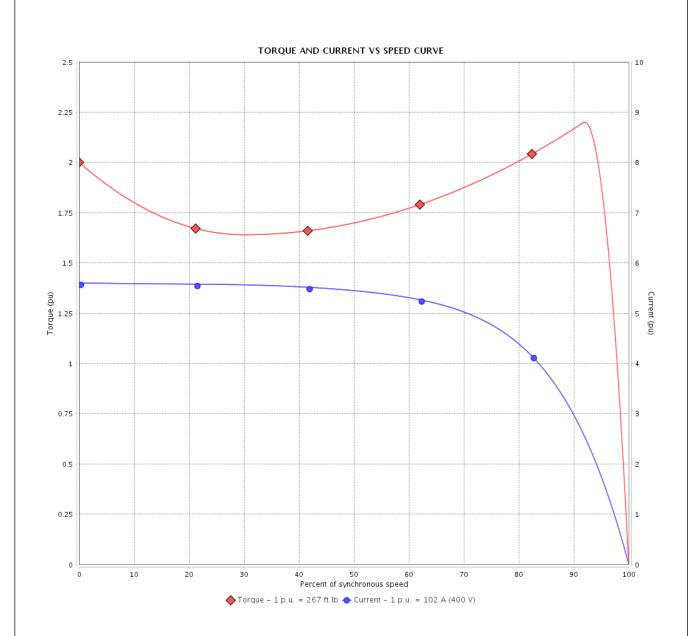
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07518ET3E365TC-W22

Customer Product line : NEMA Premium Efficiency Three-Product code: 12076589

Catalog #:



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 : 200 % : 1.00 Locked rotor torque Service factor Breakdown torque : 220 % Temperature rise : 105 K : B Rated speed : 1475 rpm Design Locked rotor time : 18s (cold) 10s (hot)

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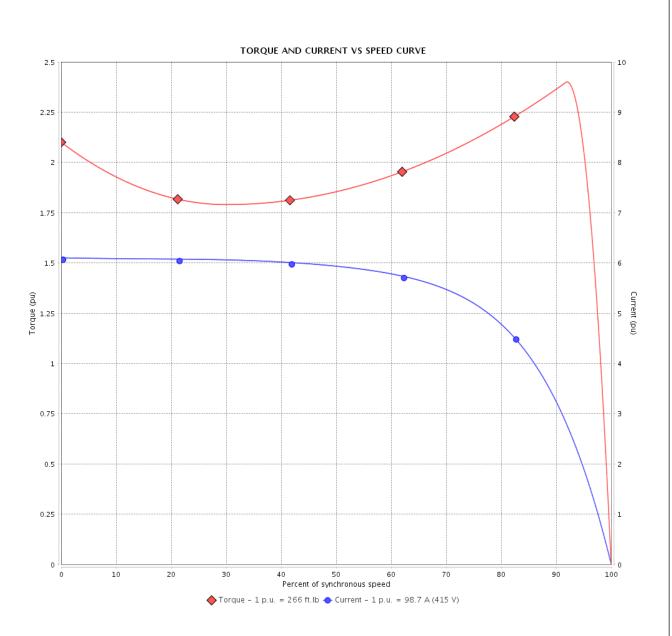
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07518ET3E365TC-W22

12076589



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) Insulation class Rated torque : 266 ft.lb : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1480 rpm Design : B

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

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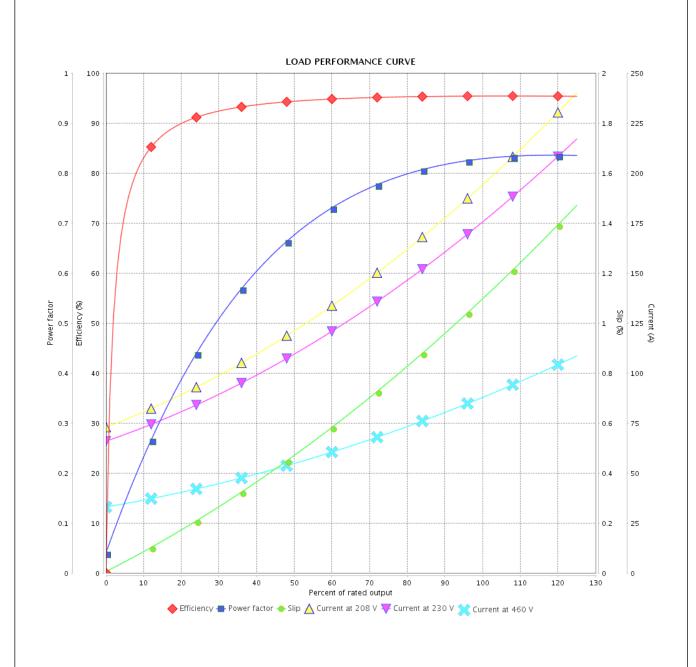


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12076589

Phase

Catalog #: 07518ET3E365TC-W22



Performance		: 230/460 V 60 Hz 4P					
Rated current :		74/87.2 A	Moment o	f inertia (J)	: 23.3 sq.ft.lb		
LRC	: 6	.4	Duty cycle	:	: Cont.(S1)		
Rated torque	: 2	21 ft.lb	Insulation	class	: F		
Locked rotor torque : 2		40 %	Service fa	ctor	: 1.25		
Breakdown torque	: 2	60 %	Temperatu	Temperature rise			
Rated speed	: 1	780 rpm	rpm Design		: B		
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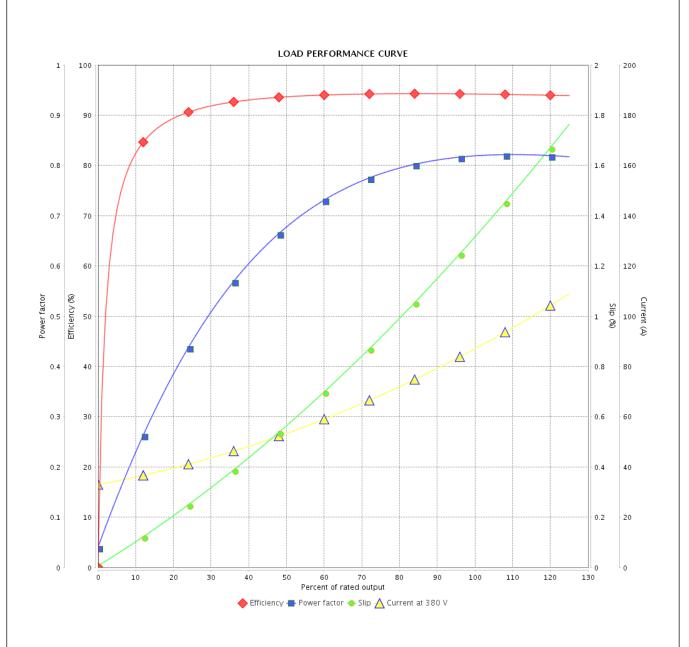
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Phase

Product code: 12076589

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Performance	: 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 inertia (J) : 23.3 Duty cycle : Cont Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B					
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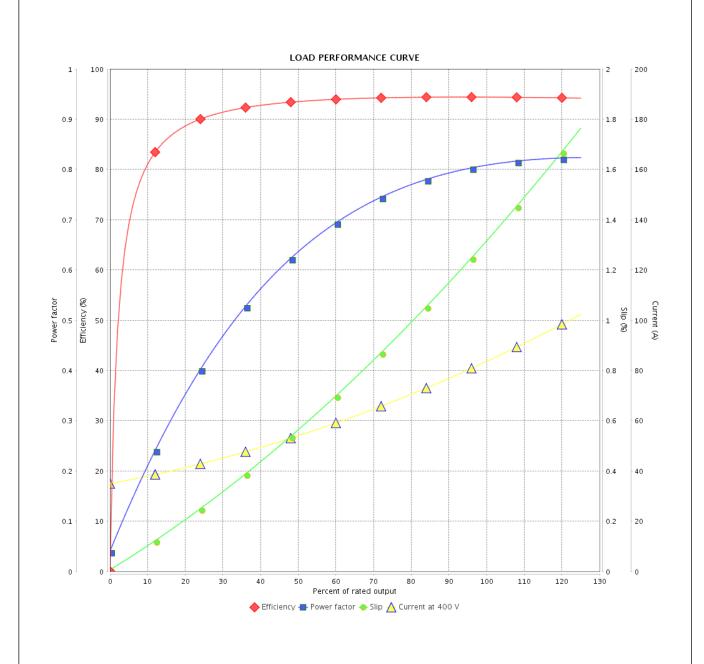


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Product line : NEMA Premium Efficiency Three- Product code : 12076589

Phase

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Performance	: 4	: 400 V 50 Hz 4P IE3						
Rated current	: 8	34.9 A	Moment o	f inertia (J)	: 23.3 sq.ft.lb			
LRC :		7.5	Duty cycle)	: Cont.(S1)			
Rated torque	: 2	213 ft.lb	Insulation	class	: F			
Locked rotor torque		240 %	Service fa	ctor	: 1.00			
Breakdown torque	: 2	: 280 % Temperature rise Design		ıre rise	: 80 K			
Rated speed	: 1			Design				
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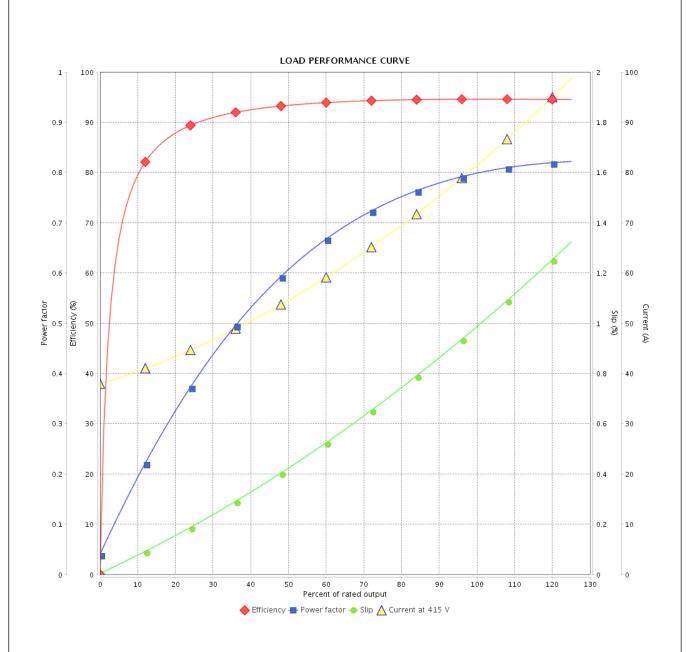
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Phase

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Performance	: 4	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8 : 2 que : 2 ue : 3	32.7 A 3.0 112 ft.lb 160 % 310 % 485 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) : 23.3 sq.ft. Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		
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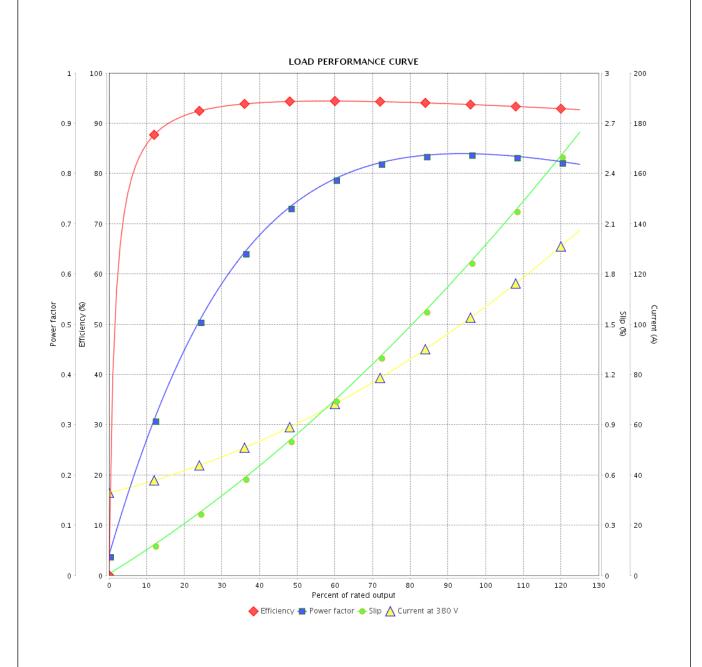


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Product line : NEMA Premium Efficiency Three- Product code : 12076589

Phase

Catalog #: 07518ET3E365TC-W22



Performance	: 3	380 V 50 Hz 4P IE2					
Rated current	ed current : 106 A Mo		Moment o	f inertia (J)	: 23.3 sq.ft.lb		
LRC	: 5	5.1	Duty cycle	;	: Cont.(S1)		
Rated torque	: 2	268 ft.lb	Insulation	class	: F		
Locked rotor torque		170 %	Service fa	ctor	: 1.00		
Breakdown torque	e : 2	200 %	Temperatu	Temperature rise		: 105 K	
Rated speed	: 1	1470 rpm	Design		: B		
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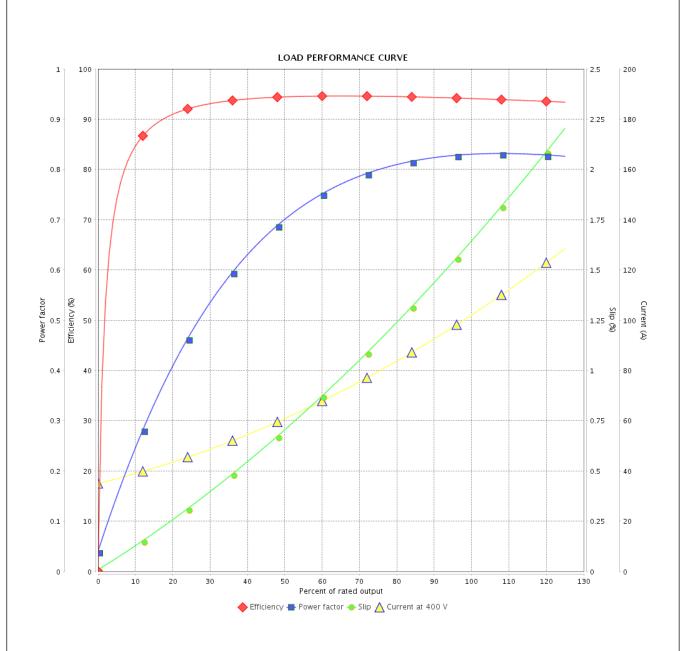
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Phase

Product code: 12076589

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D. (400 V 50 LL 4D IFO	·		
Performance	: 400 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque	: 102 A : 5.6 : 267 ft.lb : 200 %	: 5.6 Duty cycle : 267 ft.lb Insulation class		
Breakdown torque : 220 % Rated speed : 1475 rpm		Temperature rise Design	: 105 K : B	
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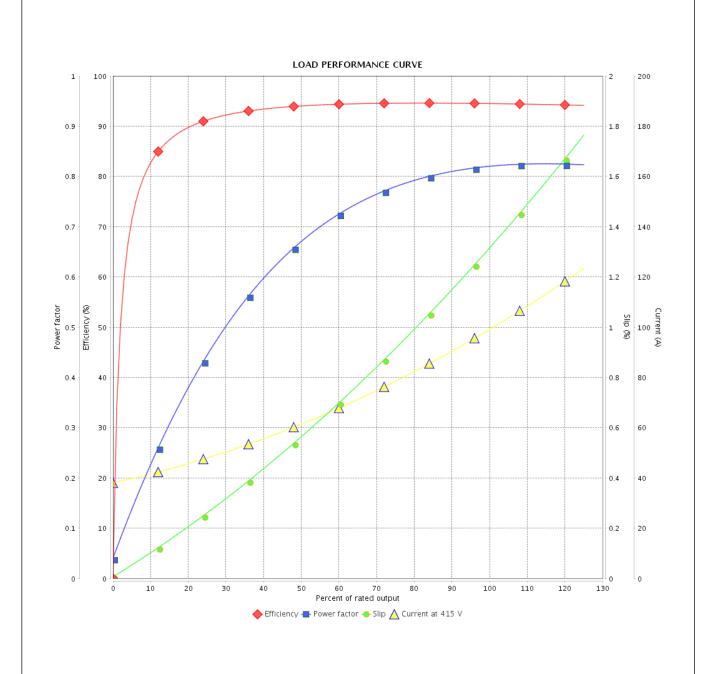


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Product line : NEMA Premium Efficiency Three- Product code : 12076589

Phase

Catalog #: 07518ET3E365TC-W22



Performance	:	415 V 50 Hz 4P IE2				
Rated current	:	98.7 A	Moment o	f 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 fa	ctor	: 1.00	
Breakdown torque	:	240 %	Temperature rise		: 105 K	
Rated speed	:	1480 rpm	Design		: B	
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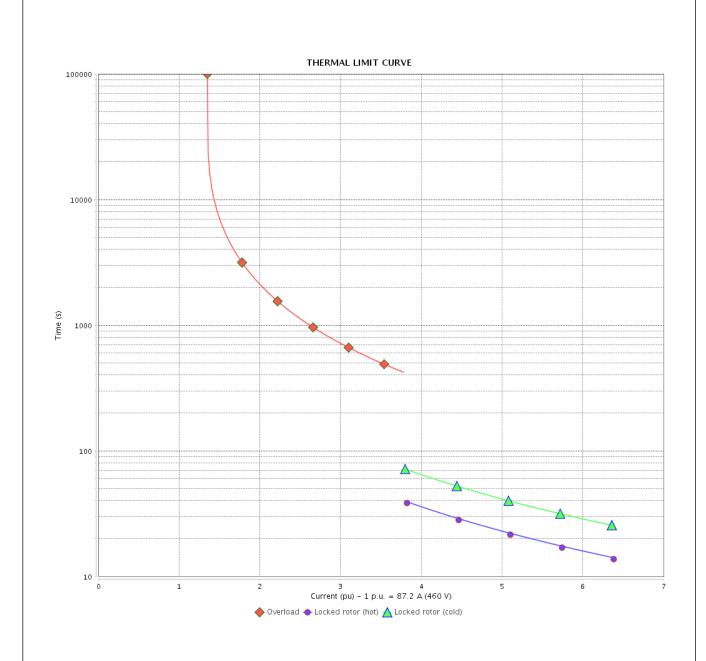


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Product line	:1	NEMA Premium Efficiency	/ Three-	Product code :	12076589	
		hase		Catalog # :		SETC MOO
				Catalog # :	07518ET3E36	0010-0022
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 17 : 6.	74/87.2 A <i>a</i>	Moment o	f inertia (J)	: 23.3 sq.ft.lb : Cont.(S1)	
Rated torque	: 22	21 ft.lb	Insulation	class	: F	
Locked rotor torque		40 %	Service fa		: 1.25	
Breakdown torque Rated speed		60 % 780 rpm	Temperatu Design	ure rise	: 80 K : B	
Heating constant		-				
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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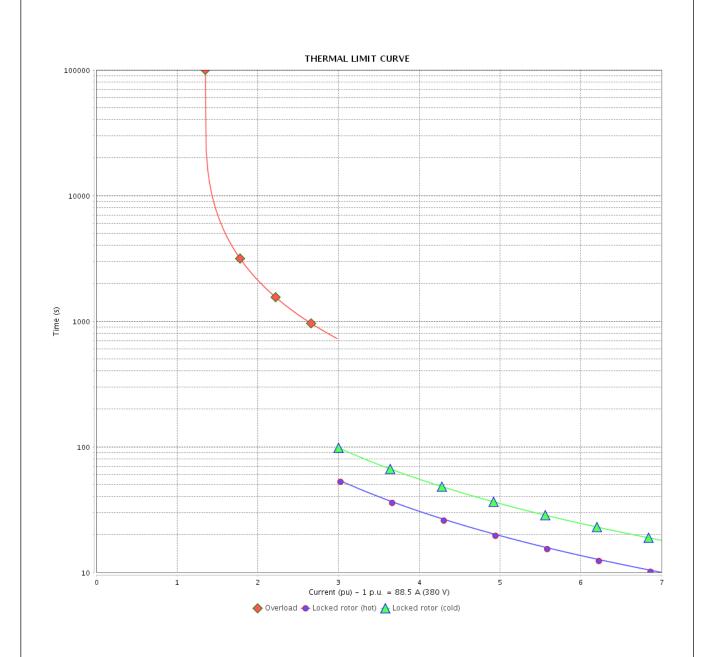


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Product line	: 1	NEMA Premium Efficiency	Three-	Product code :	12076589	
		hase				NETO 14/00
			-	Catalog # :	07518ET3E36	65TC-W22
Performance	: 38	30 V 50 Hz 4P IE3				
Rated current		3.5 A	Moment o	f inertia (J)	: 23.3 sq.ft.lb	·
LRC Rated torque	: 7. : 2	0 13 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 21	10 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed		50 % 180 rpm	Temperatu	ıre rise	: 80 K : B	
	. 12	180 rpm	Design		. D	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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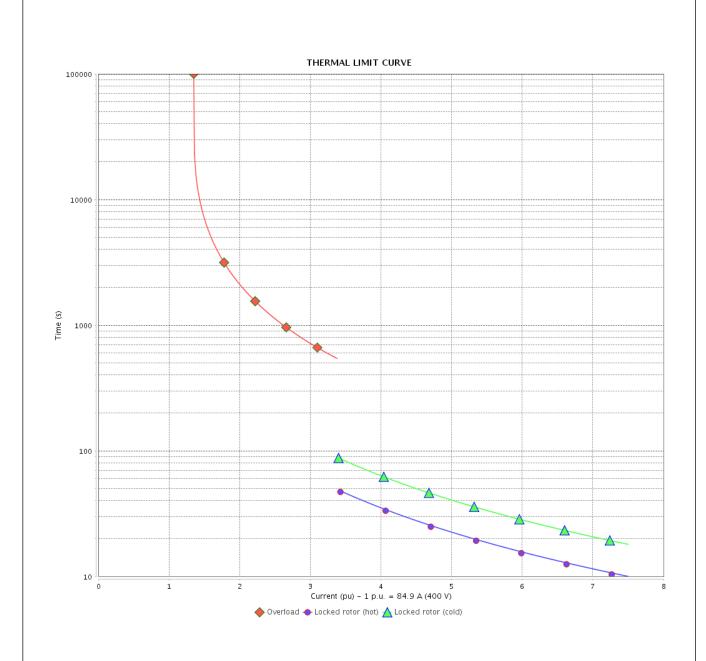


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12076589 07518ET3E3	65TC-W22
			-		
	: 400 V 50 Hz 4P IE3	N4	ft dt 4 D	00.0 5	
	: 84.9 A : 7.5	Moment o Duty cycle	f inertia (J)	: 23.3 sq.ft.lb : Cont.(S1)	
Rated torque	: 213 ft.lb	Insulation	class	: F	
	: 240 % : 280 %	Service fa Temperatu		: 1.00 : 80 K	
	: 1480 rpm	Design	ile lise	: B	
Heating constant					
Cooling constant					
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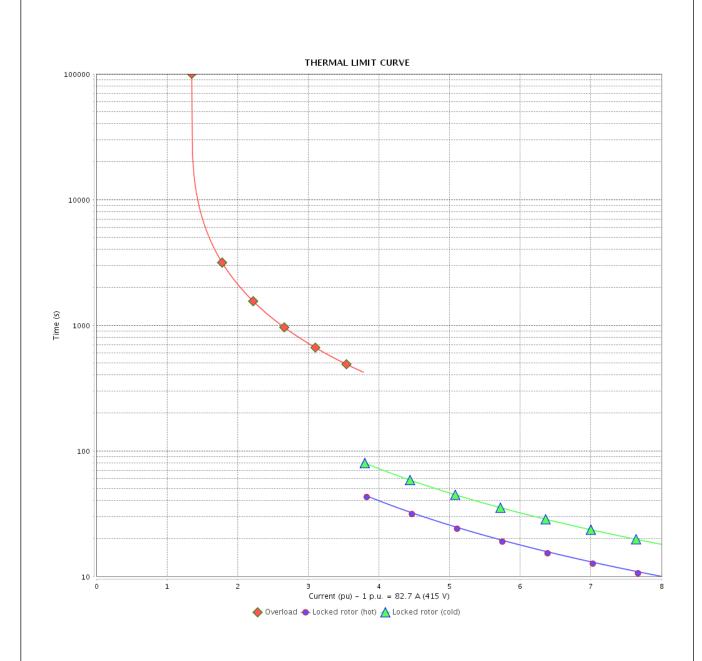


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12076589 07518ET3E36	65TC-W22
				- · · · · · · · · · · · · · · · · · · ·		
Performance		: 415 V 50 Hz 4P IE3				
Rated current		: 82.7 A	Moment of	of inertia (J)	: 23.3 sq.ft.lb	
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 constan						
Cooling constant						
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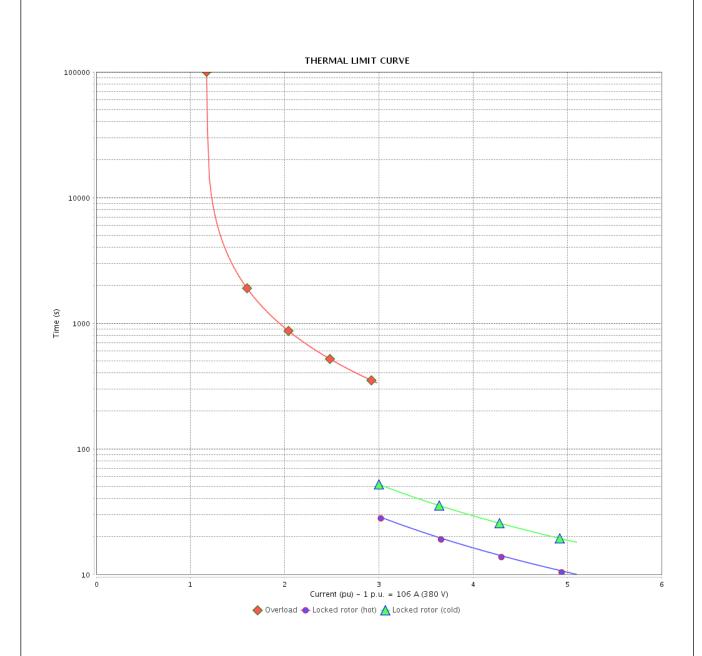


Customer		:			·	
Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	12076589 07518ET3E3	65TC-W22
				Catalog # .	0/310E13E3	051G-WZZ
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant	: : : : : : : : : : :	380 V 50 Hz 4P IE2 106 A 5.1 268 ft.lb 170 % 200 % 1470 rpm Changes Summary	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	Date
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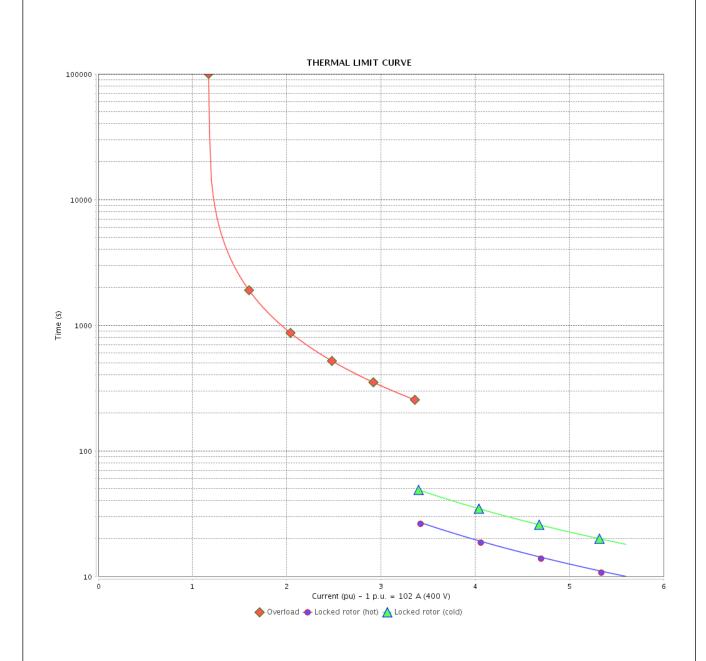


Rated current : 102 A	Customer		:				
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Rated current : 102 A							
Rated current : 102 A							
RC : 5.6 Duty cycle : Cont.(S1) Rated torque : 267 ft.lb Insulation class : F Locked rotor torque : 200 % Service factor : 1.00 Reakdown torque : 220 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision	Performance						
Rated torque : 267 ft.lb	Rated current LRC		: 5.6	Duty cycle	е	: Cont.(S1)	
Reakdown torque : 220 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision	Rated torque						
Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision							
Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision	Rated speed					: B	
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Three Phase Induction Motor - Squirrel Cage



Customer



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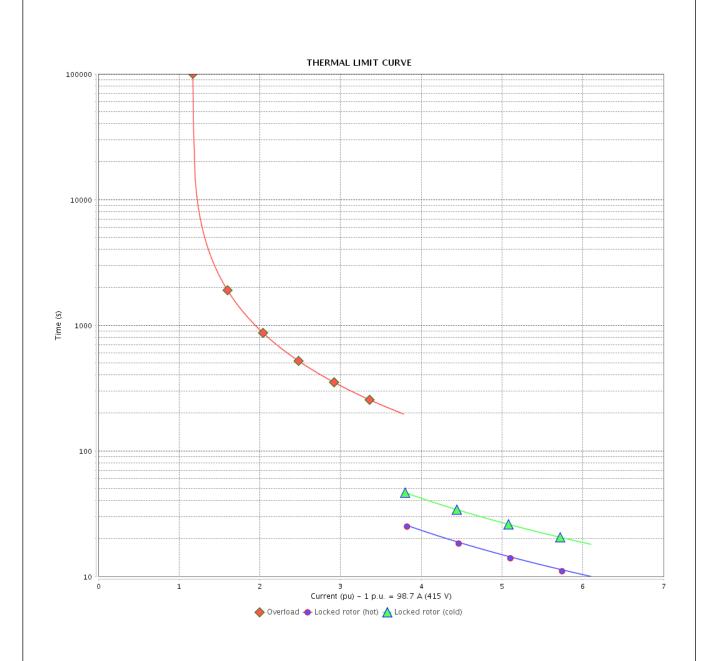


				<u> </u>
Customer	:			
Product line	: NEMA Premium Efficiency T Phase		12076589 07518ET3E36	ETC M22
		Catalog # :	0/510E13E30	510-4422
Performance	: 415 V 50 Hz 4P IE2			
Rated current		Moment of inertia (J)	: 23.3 sq.ft.lb	
LRC	: 6.1	Duty cycle	: Cont.(S1)	
Rated torque	: 266 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque		Service factor Temperature rise	: 1.00 : 105 K	
Rated speed		Design	: B	
Heating constant				
Cooling constant				
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Customer



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Customer :

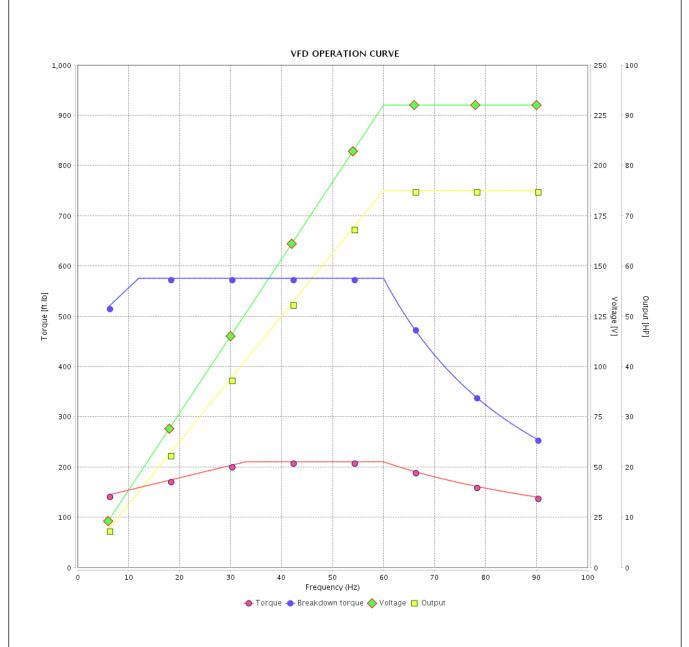
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12076589

Catalog #: 07518ET3E365TC-W22

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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 174/87.2 A : 6.4 : 221 ft.lb : 240 % : 260 % : 1780 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer

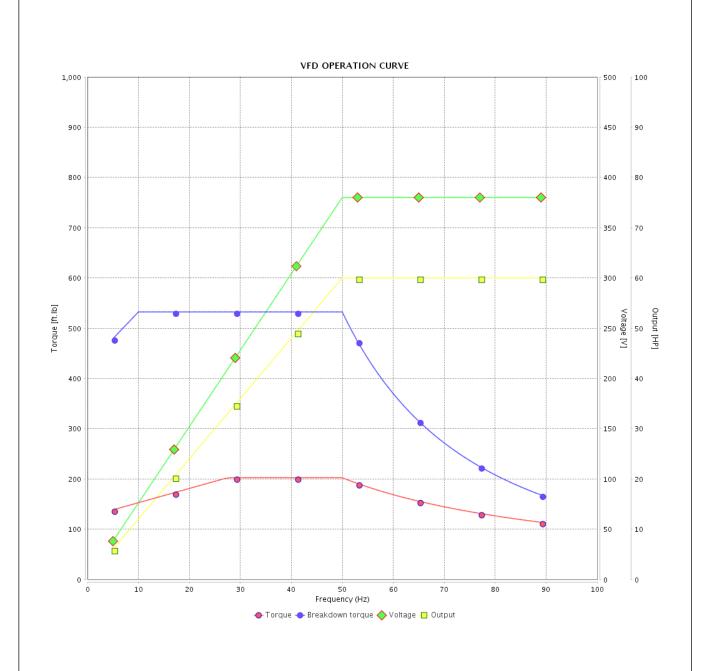
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07518ET3E365TC-W22

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12076589



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 88.5 A	Moment of inertia (J)	•	lb
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 213 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 1480 rpm	Design	: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

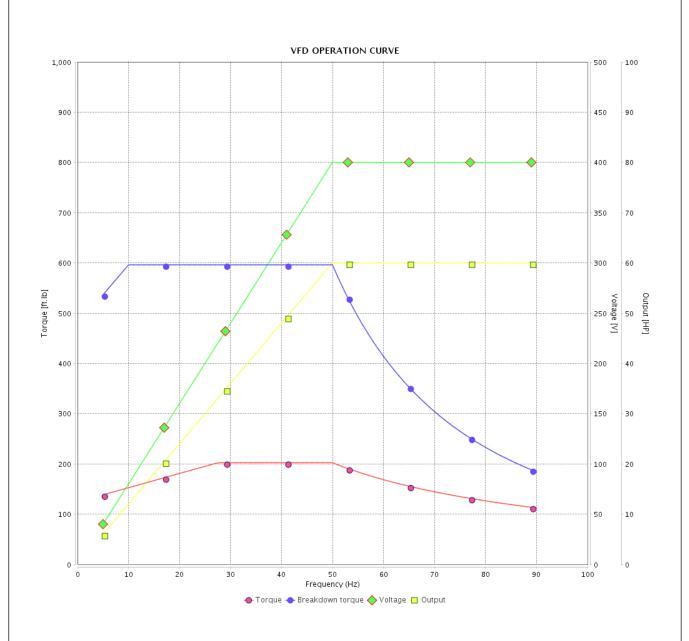
Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 12076589

Catalog #: 07518ET3E365TC-W22

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 84.9 A : 7.5 : 213 ft.lb : 240 % : 280 % : 1480 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

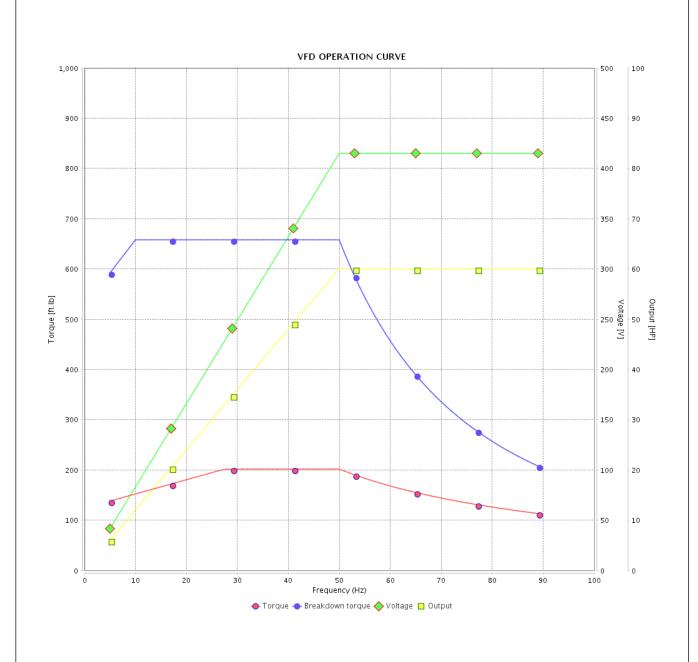


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12076589

Phase

Catalog #: 07518ET3E365TC-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 8:	2.7 A	Moment o	f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 8	.0	Duty cycle	!	: Cont.(S1)	
Rated torque	: 2	12 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	60 %	Service fa	ctor	: 1.00	
Breakdown torqu	e :3	10 %	0 % Temperature rise		: 80 K	
Rated speed	: 1	485 rpm	Design		: B	
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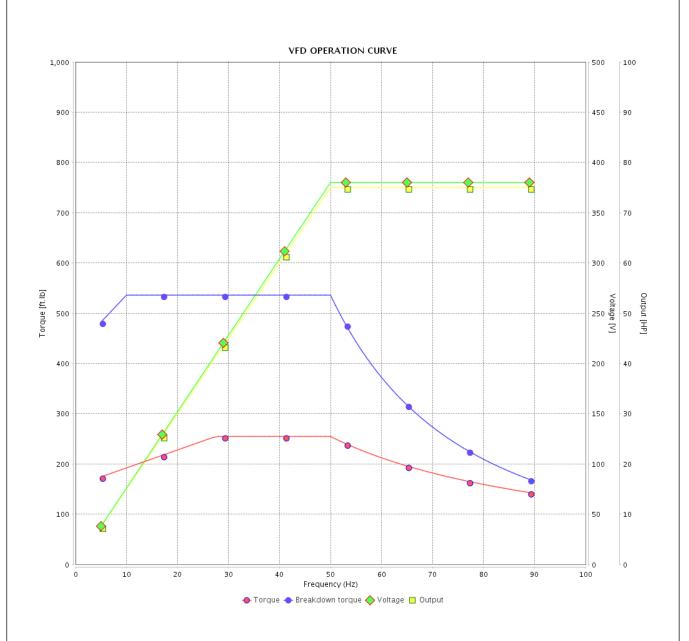
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12076589

Catalog #: 07518ET3E365TC-W22

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Performance	: 380 V 50 Hz 4P IE2				
Rated current	: 106 A	Moment of	of inertia (J)	: 23.3 sq.ft.lb	
LRC	: 5.1	Duty cycle	9	: Cont.(S1)	
Rated torque	: 268 ft.lb	Insulation	class	: F	
Locked rotor torque	: 170 %	Service fa	ctor	: 1.00	
Breakdown torque	: 200 %	Temperat	ure rise	: 105 K	
Rated speed	: 1470 rpm	Design		: B	
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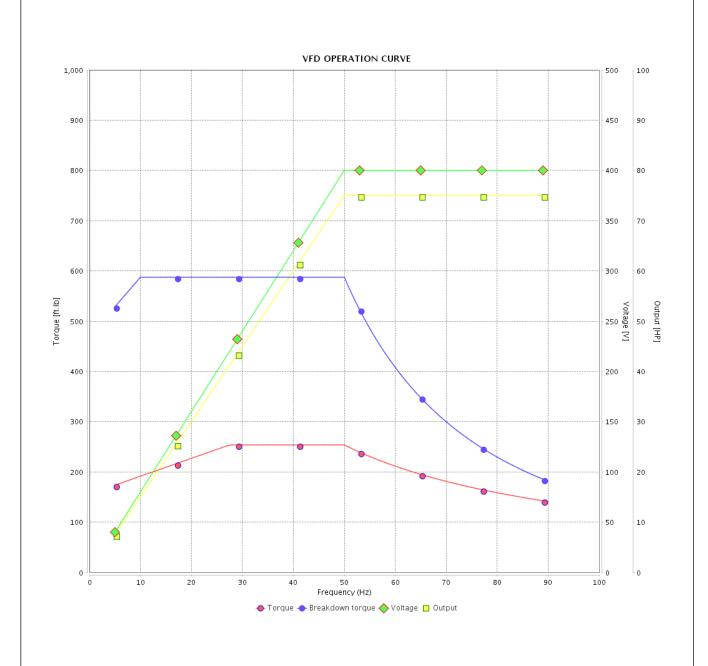


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12076589

Phase

Catalog #: 07518ET3E365TC-W22



Performance	: 4	00 V 50 Hz 4P IE2				
Rated current	: 1	02 A	Moment o	f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 5	.6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	67 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	20 %	Temperati	ıre rise	: 105 K	
Rated speed	: 1	475 rpm	Design		: B	
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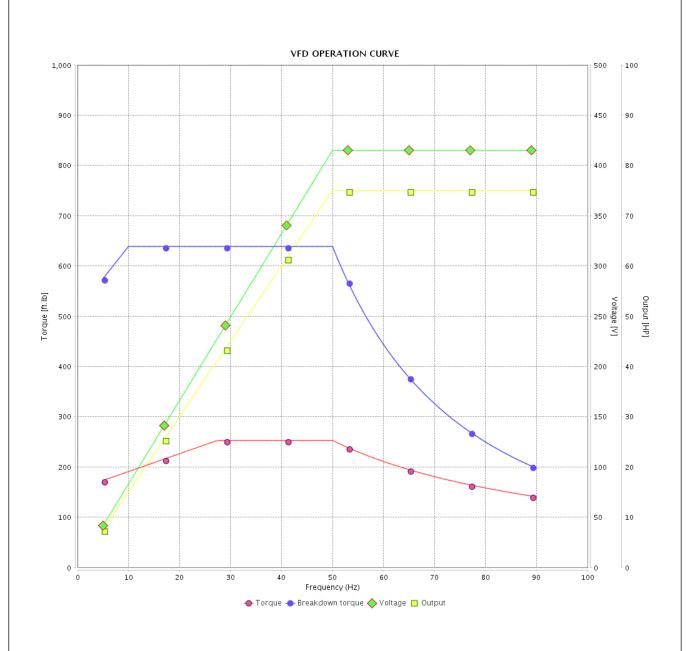
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 12076589

Catalog #: 07518ET3E365TC-W22



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	: 9	: 98.7 A Mome		of inertia (J)	: 23.3 sq.ft.lb	
LRC	: 6	.1	Duty cycle	e	: Cont.(S1)	
Rated torque	: 2	66 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	10 %	Service fa	actor	: 1.00	
Breakdown torqu	ue : 2	40 %	Temperat	ure rise	: 105 K	
Rated speed	: 1	480 rpm	Design		: B	
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