### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11166657

Catalog #: 07518ET3E365T-W22

Frame : 364/5T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

: -20°C to +40°C Starting method Ambient temperature : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 926 lb

: IP55 Protection degree Moment of inertia (J) : 23.3 sq.ft.lb

110000011000001100000000000000000000000								
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	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	1]	1780	1480	1480	1485	1470	1475	1480
Slip [%]	Slip [%]		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 torque [%]		240	210	240	260	170	200	210
Breakdown torque	Breakdown torque [%]		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) 14s (hot)	18s (cold) 10s (hot)					
Noise level <sup>2</sup>		67.0 dB(A)	63.0 dB(A)					
	25%							
Efficiency (%)	50%	94.5	93.7	93.6	93.5	94.5	94.5	94.1
Efficiency (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
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 : 1723 lb Sealing WSeal WSeal Max. compression : 2649 lb

12000 h

Lubricant amount 27 g 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



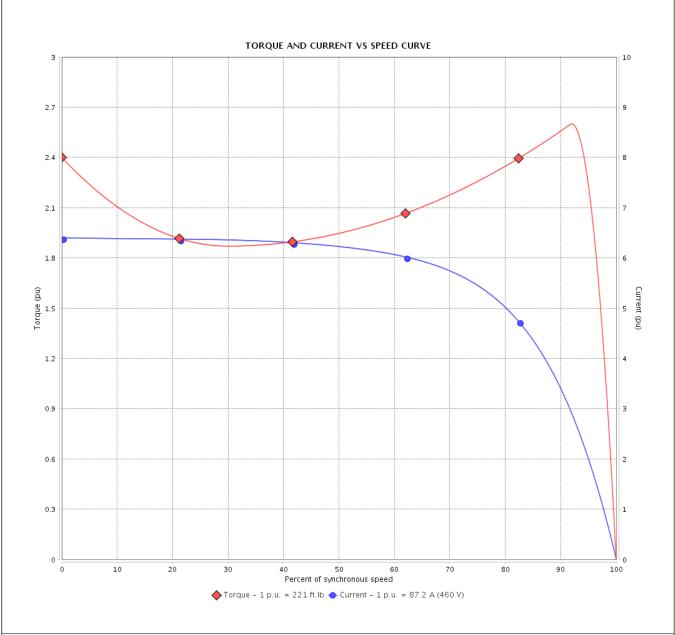
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11166657

Catalog #: 07518ET3E365T-W22



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

Locked rotor time : 25s (cold) 14s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11166657 Catalog #: 07518ET3E365T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1

0	10	20	30 Tangua	40 Percen - 1 p.u. = 213	50 t of synchronous	70	80	90	100
0									
0.3									1
0.6									2
0.9									3
nd 1.5							`		5

: 213 ft.lb

: 210 %

: 250 %

: 1480 rpm

: 18s (cold) 10s (hot)

**Changes Summary** 

Rated torque Locked rotor torque

Rated speed

Breakdown torque

Locked rotor time

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Insulation class

Temperature rise

Service factor

Design

: F

: B

Performed

: 1.00

: 80 K

Checked

Date

#### Three Phase Induction Motor - Squirrel Cage



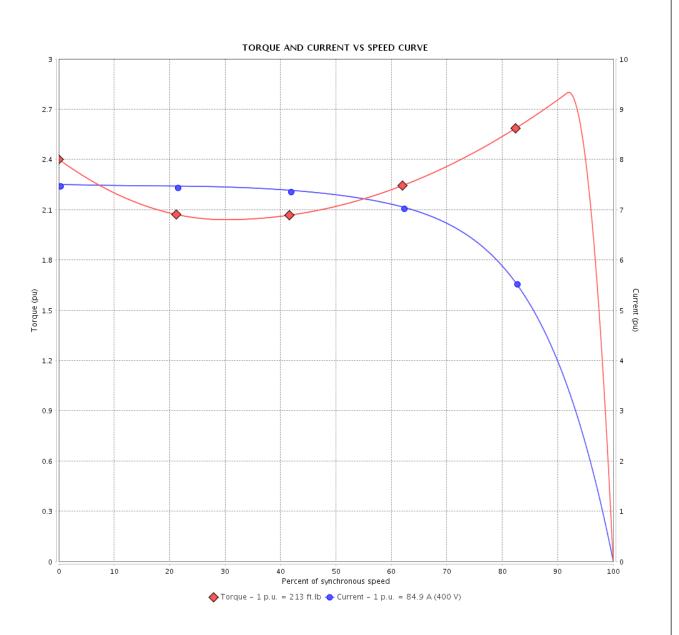
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07518ET3E365T-W22

11166657



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: 11166657 Catalog #: 07518ET3E365T-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)

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#### Three Phase Induction Motor - Squirrel Cage



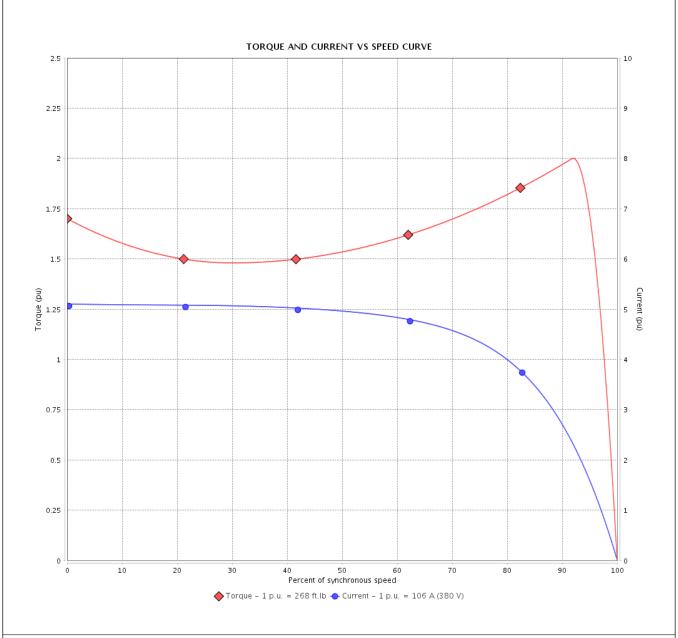
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11166657

Catalog #: 07518ET3E365T-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

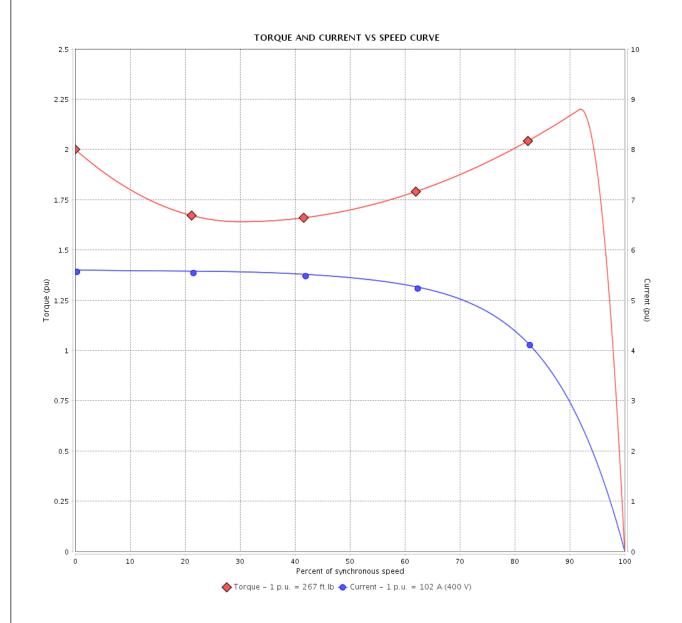
Locked rotor time : 18s (cold) 10s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11166657 Catalog #: 07518ET3E365T-W22



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) Insulation class Rated torque : 267 ft.lb : 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 (hot)

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#### Three Phase Induction Motor - Squirrel Cage



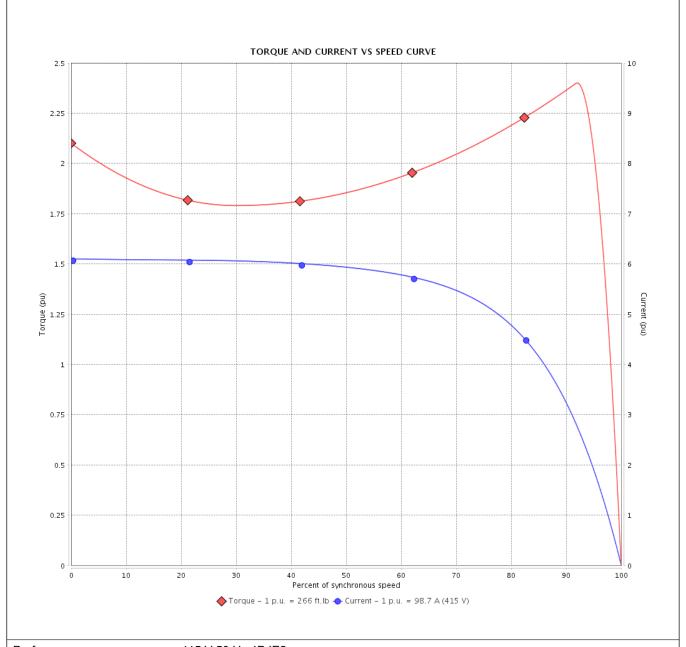
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11166657

Catalog #: 07518ET3E365T-W22



 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: 1.00Breakdown torque: 240 %Temperature rise: 105 KRated speed: 1480 rpmDesign: B

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

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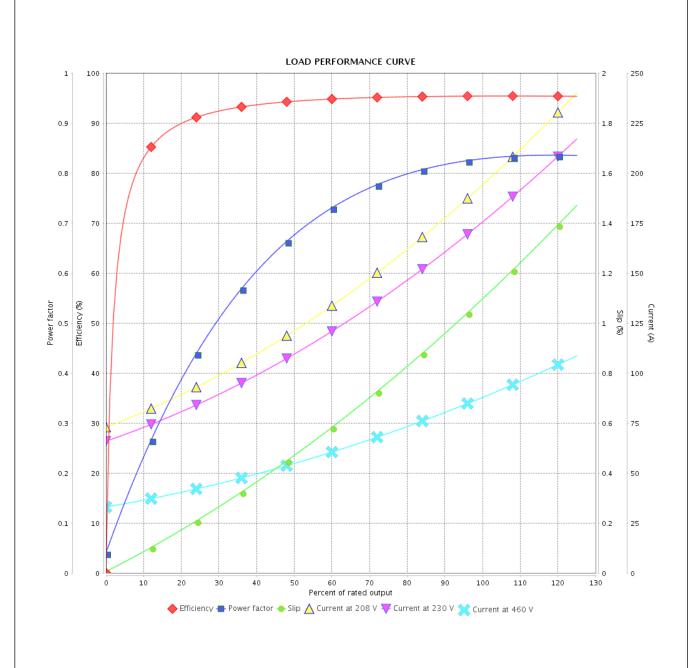


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11166657

Phase

Catalog #: 07518ET3E365T-W22



Performance	: 2	230/460 V 60 Hz 4P				
Rated current		174/87.2 A	Moment o	f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 6	6.4	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 2	221 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	240 %	Service fa	ctor	: 1.25	
Breakdown torque :		260 %	Temperati	Temperature rise		
Rated speed :		1780 rpm	Design		: B	
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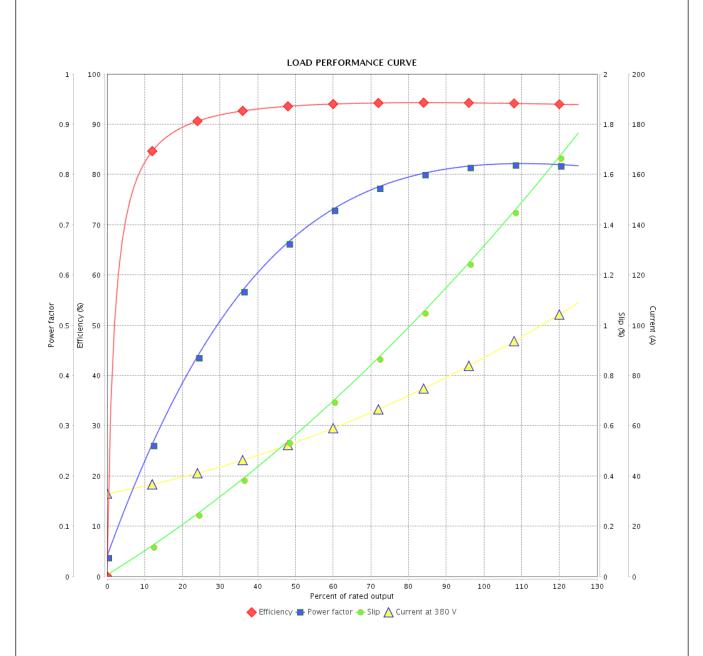
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07518ET3E365T-W22

11166657

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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 o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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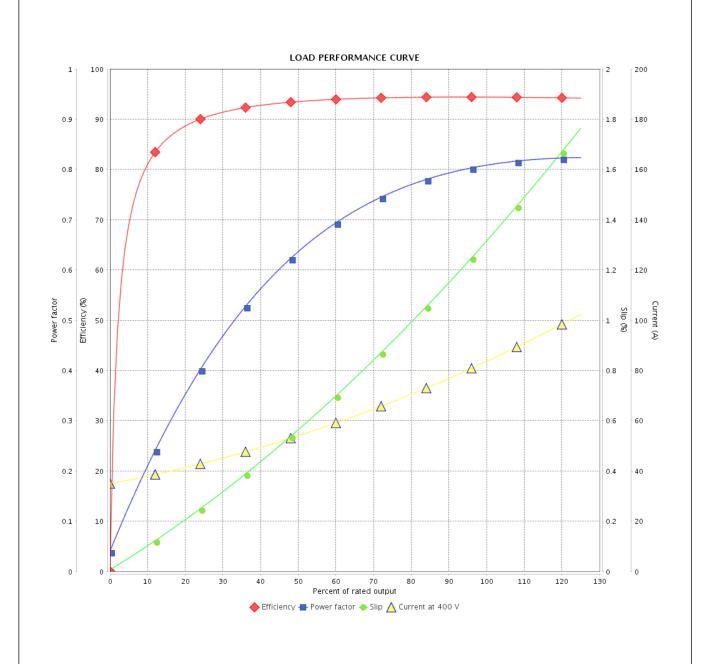


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11166657

Phase

Catalog #: 07518ET3E365T-W22



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current : 84.9 A		4.9 A	Moment of	of inertia (J)	: 23.3 sq.ft.lb	
LRC	: 7	.5	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 2	13 ft.lb	Insulation	class	: F	
Locked rotor toro	que : 2	40 %	Service fa	actor	: 1.00	
Breakdown torque ::		80 %	Temperat	Temperature rise		
Rated speed	: 1	480 rpm	Design		: B	
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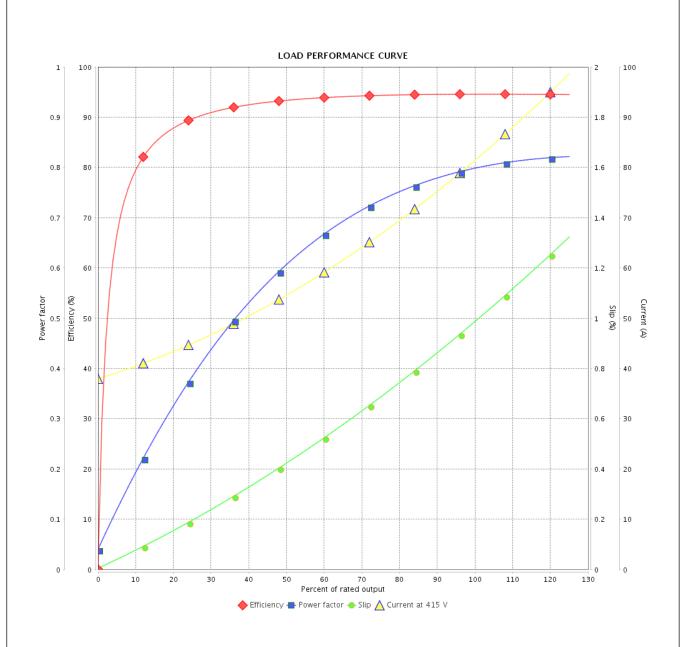
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Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11166657

Catalog #: 07518ET3E365T-W22



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

#### Three Phase Induction Motor - Squirrel Cage

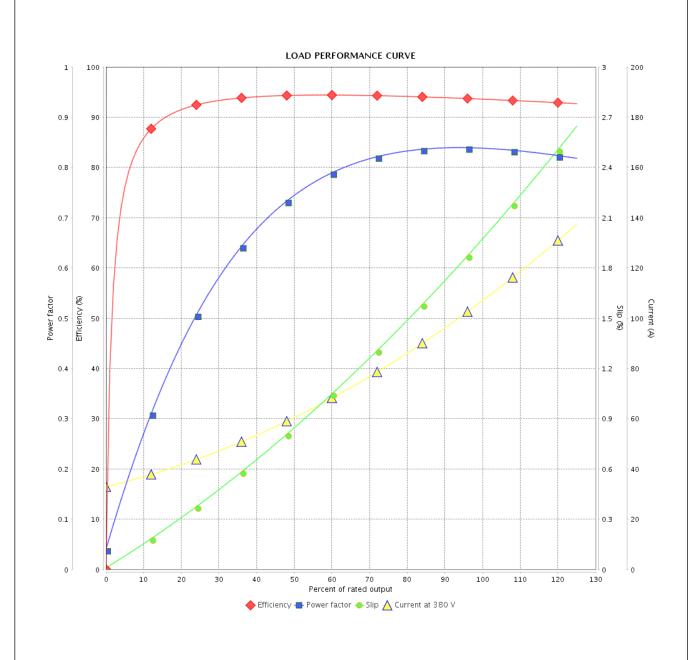


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11166657

Phase

Catalog #: 07518ET3E365T-W22



Performance	: 3	80 V 50 Hz 4P IE2				
Rated current : 10		06 A	Moment o	Moment of inertia (J)		
LRC	: 5	.1	Duty cycle	<b>)</b>	: Cont.(S1)	
Rated torque	: 2	68 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :1	70 %	Service fa	ctor	: 1.00	
Breakdown torque : 20		00 %	Temperati	Temperature rise		
Rated speed : 1470		470 rpm	Design		: B	
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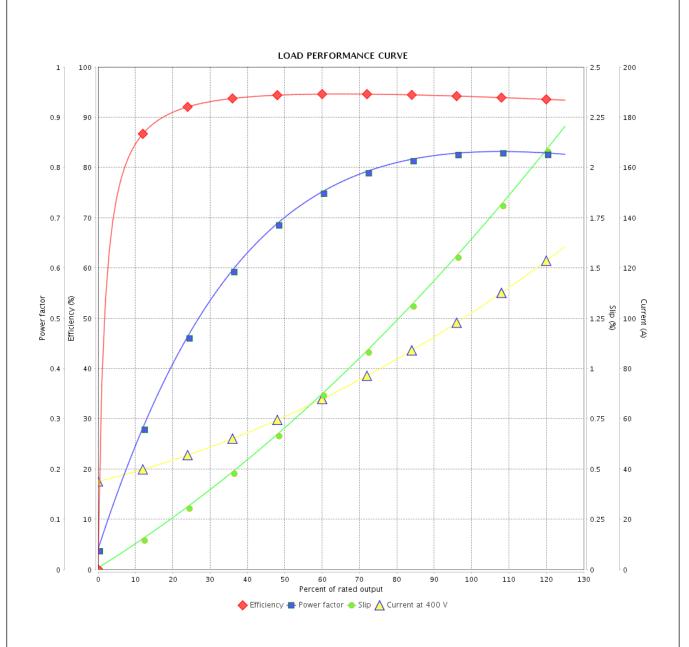
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11166657

Catalog #: 07518ET3E365T-W22



Performance	: 400 V 50 Hz 4P IE2				
Rated current : 102 A LRC : 5.6 Rated torque : 267 ft.lb Locked rotor torque : 200 % Breakdown torque : 220 % Rated speed : 1475 rpm		Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

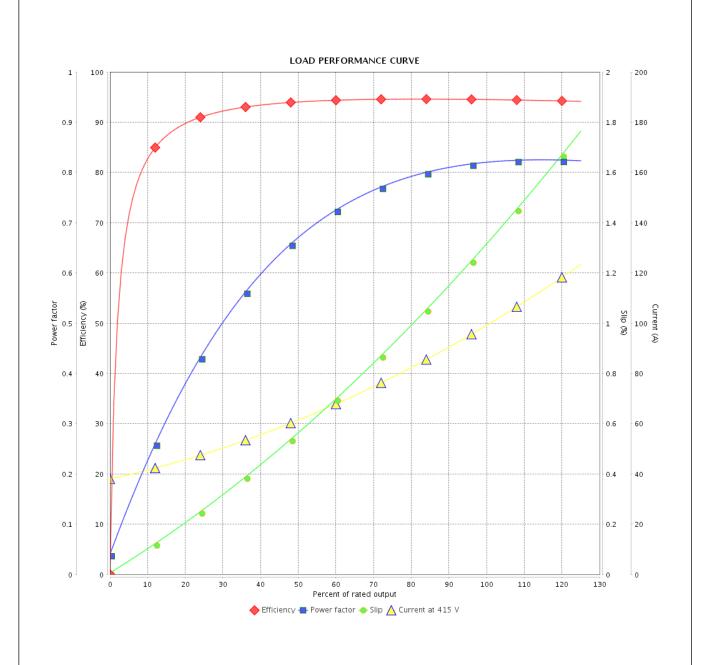


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11166657

Phase

Catalog #: 07518ET3E365T-W22



Performance	rformance : 415 V 50 Hz 4P IE2					
Rated current	: 9	8.7 A	Moment o	f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 6	.1	Duty cycle	)	: Cont.(S1)	
Rated torque	: 2	66 ft.lb	Insulation	class	: F	
Locked rotor torqu	e :2	10 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	40 %	Temperati	Temperature rise		
Rated speed	: 1	80 rpm Design			: B	
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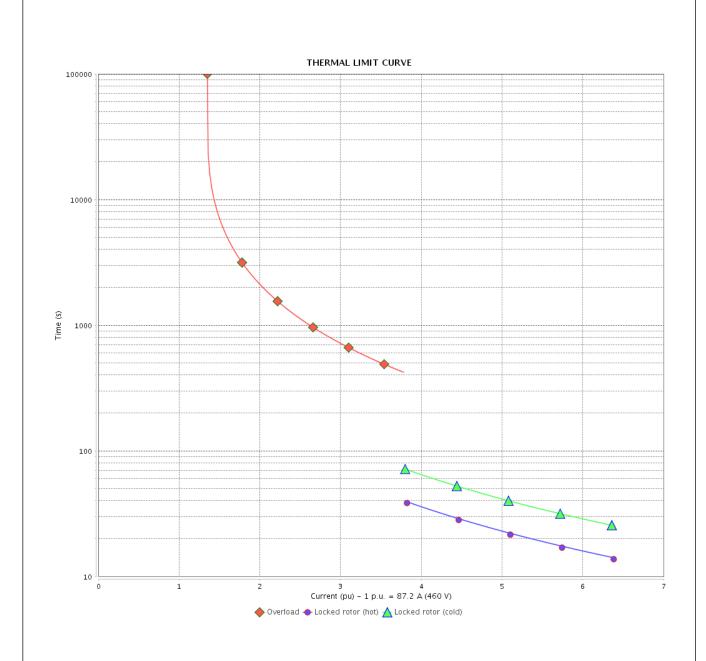


Customer	:					
Product line		NEMA Premium Efficienc hase		Product code :	11166657 07518ET3E36	65T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11 : 6. : 22 : 24	30/460 V 60 Hz 4P 74/87.2 A 4 21 ft.lb 40 % 60 % 780 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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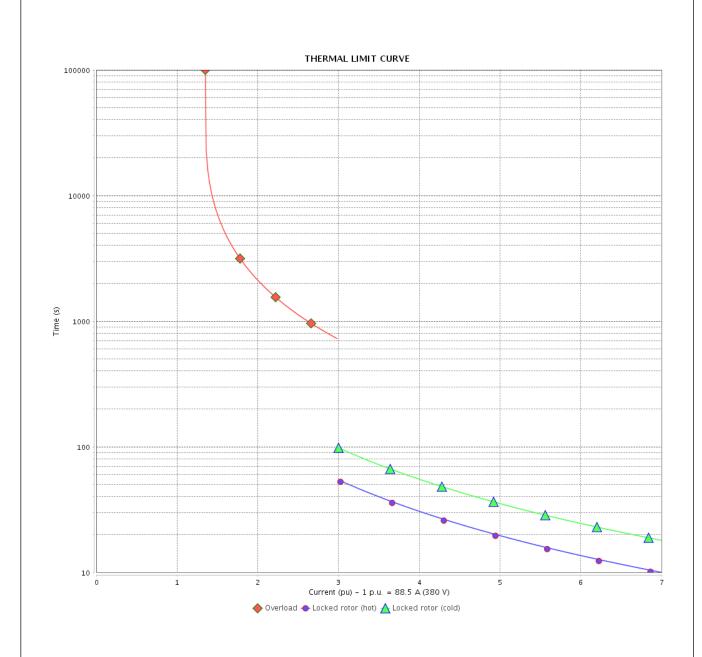


Customer	:			
Product line	: NEMA Premium Efficiency <sup>-</sup> Phase	Three- Product code :	11166657	
		Catalog #:	07518ET3E365T-W22	2
Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque	: 88.5 A : 7.0 : 213 ft.lb	Moment of inertia (J) Duty cycle Insulation class	: 23.3 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque	: 210 %	Service factor	. r : 1.00	
Breakdown torque Rated speed	: 250 % : 250 % : 1480 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant	Ohara ara a Orri	D/	Ohaali 5 1	
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### Three Phase Induction Motor - Squirrel Cage



Customer



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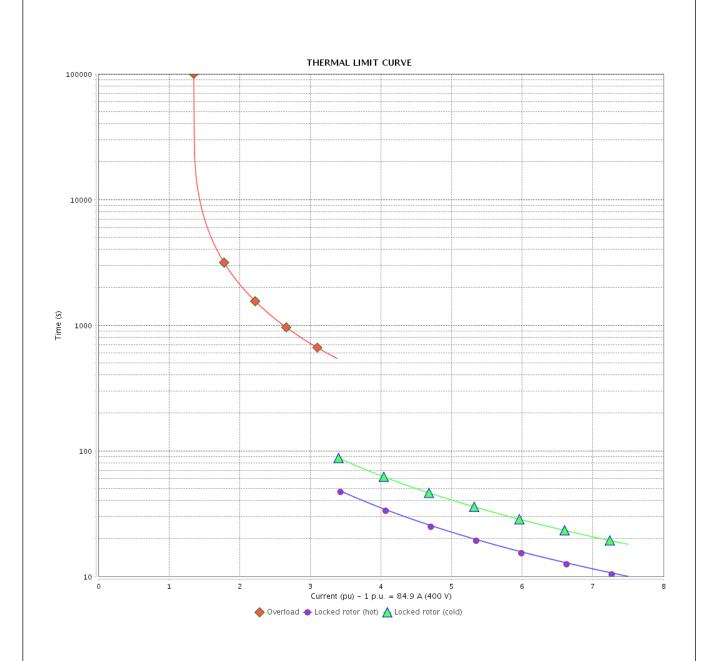


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11166657	
		i ilasc		Catalog # :	07518ET3E36	65T-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current		: 84.9 A	Moment of	of inertia (J)	: 23.3 sq.ft.lb	
LRC		: 7.5	Duty cycl	е	: Cont.(S1)	
Rated torque Locked rotor torc		: 213 ft.lb : 240 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie	: 280 %	Temperat		: 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Commercial		Douts are!	Charles	Data
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

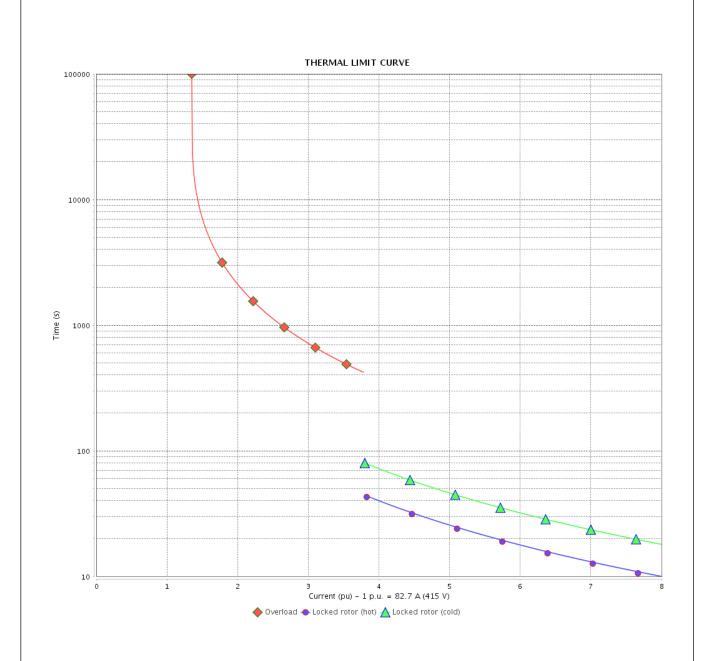


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11166657	
		11000		Catalog # :	07518ET3E36	65T-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current		: 82.7 A	Moment of	of inertia (J)	: 23.3 sq.ft.lb	
LRC Rated torque		: 8.0 : 212 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	que	: 260 %	Service fa	actor	: 1.00	
Breakdown torqu		: 310 %	Temperat	ure rise	: 80 K : B	
Rated speed		: 1485 rpm	Design		. D	
Heating constant						
Cooling constant	l 	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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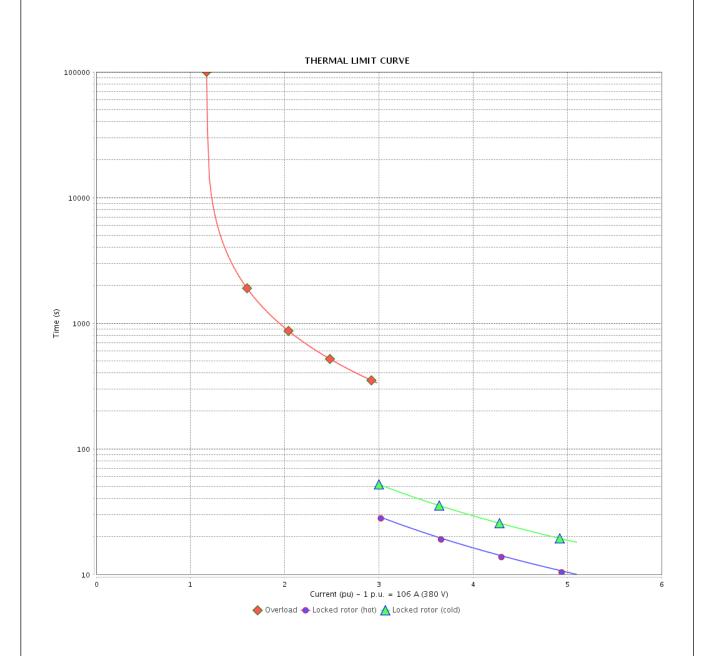


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code :	11166657	
		Catalog # :	07518ET3E3	65T-W22
Performance	: 380 V 50 Hz 4P IE2	T		
Rated current	: 106 A	Moment of inertia (J)	: 23.3 sq.ft.lb	
LRC Rated torque	: 5.1 : 268 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 170 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 200 % : 1470 rpm	Temperature rise Design	: 105 K : B	
Heating constant				
Cooling constant				
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#### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

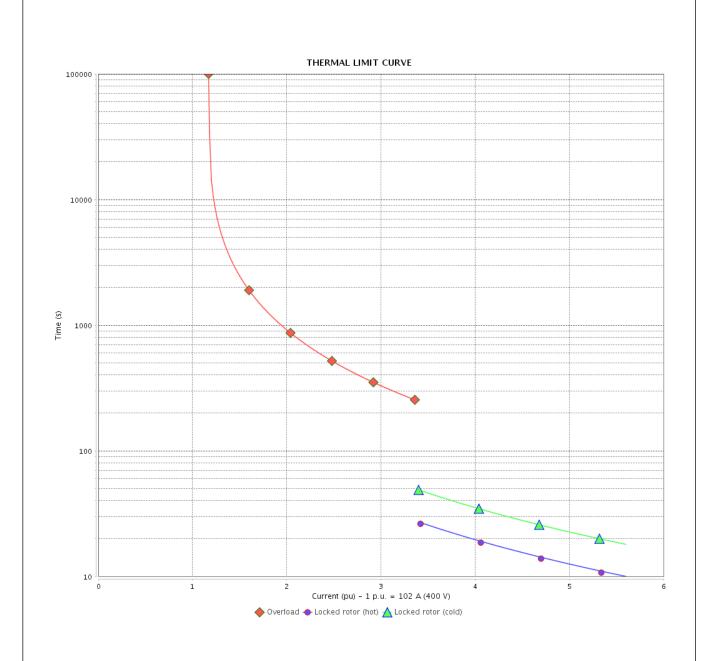


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	11166657	
1 Toddot IIITO		Phase				
				Catalog # :	07518ET3E3	65T-W22
Performance	:	400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : :ue :: :ie ::	102 A 5.6 267 ft.lb 200 % 220 % 1475 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
		•	- 5			
Heating constant Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

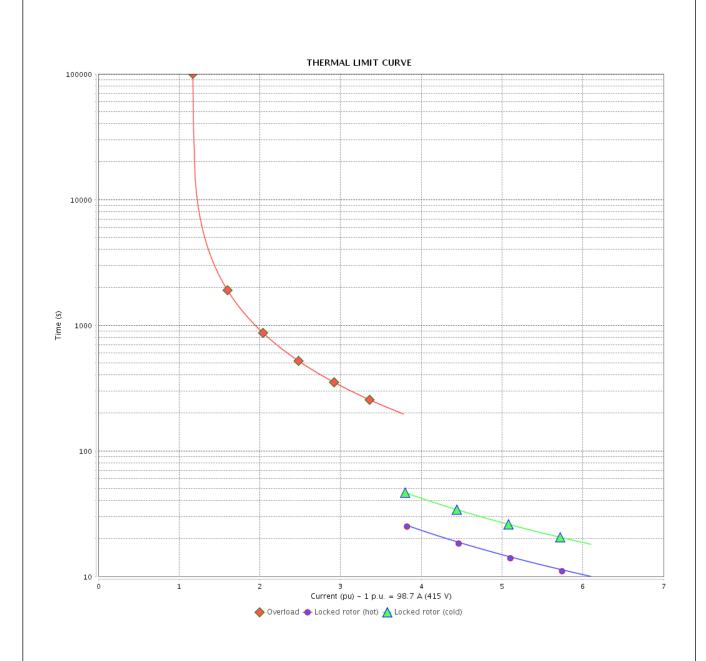


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Product line	: NEMA Premium Efficiency Phase	Inree-	Product code :	11166657	
			Catalog # :	07518ET3E3	65T-W22
Performance	: 415 V 50 Hz 4P IE2				
Rated current	: 98.7 A	Moment o	f inertia (J)	: 23.3 sq.ft.lb	
LRC Rated torque	: 6.1 : 266 ft.lb	Duty cycle	<b>;</b>	: Cont.(S1) : F	
Locked rotor torque	: 210 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed	: 240 % : 1480 rpm	Temperatu Design	ure rise	: 105 K : B	
		2001911			
Heating constant Cooling constant					
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#### Three Phase Induction Motor - Squirrel Cage



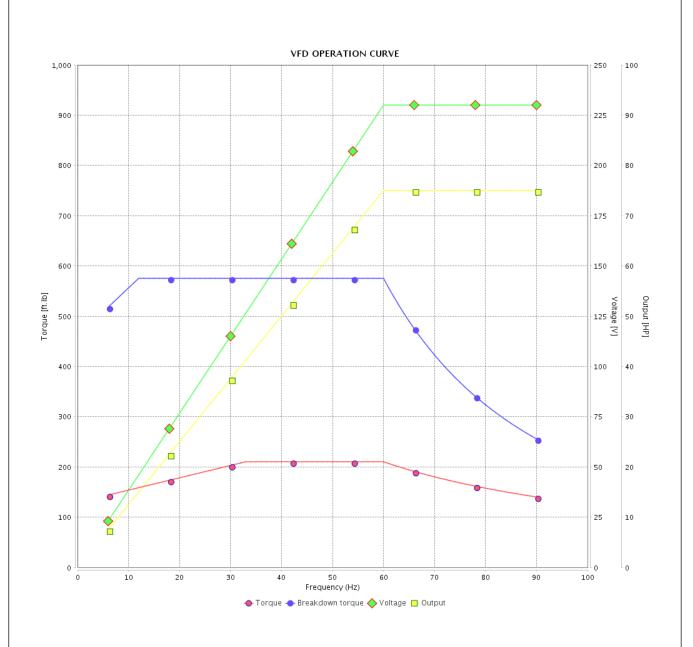
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11166657

Catalog #: 07518ET3E365T-W22



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13/04/2022

Date

#### Three Phase Induction Motor - Squirrel Cage

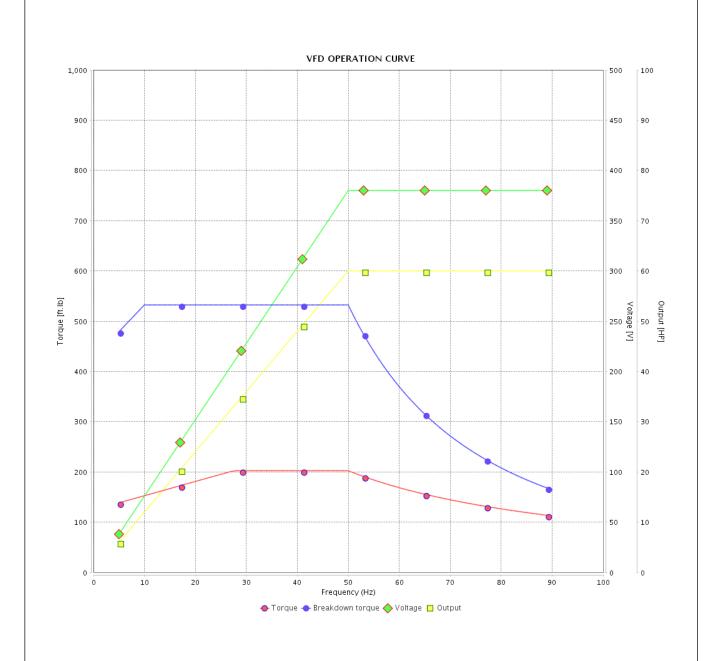


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11166657

Phase

Catalog #: 07518ET3E365T-W22



Performance	::	380 V 50 Hz 4P IE3				
Rated current	: 8	88.5 A	Moment o	Moment of inertia (J)		
LRC	: '	7.0	Duty cycle	)	: Cont.(S1)	
Rated torque	: :	213 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	210 %	Service factor		: 1.00	
Breakdown torque	: :	250 %	Temperati	Temperature rise		
Rated speed	:	1480 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



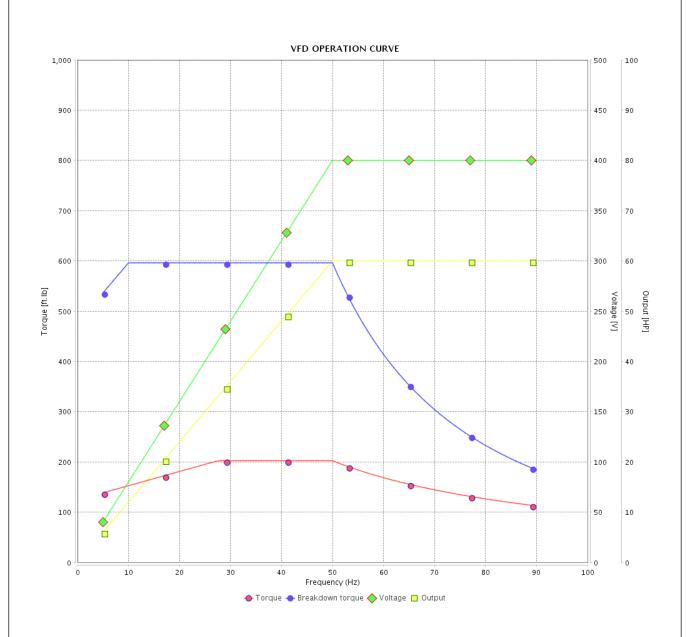
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

11166657





Performance	: 4	00 V 50 Hz 4P IE3				
Rated current : 84.9 A		Moment of inertia (J)		: 23.3 sq.ft.lb		
LRC	: 7	.5	Duty cycle	е	: Cont.(S1)	
Rated torque	: 2	13 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	40 %	Service fa	actor	: 1.00	
Breakdown torqu	eakdown torque : 280 % Temperature rise		ure rise	: 80 K		
Rated speed : 1480 rpm		Design		: B		
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#### Three Phase Induction Motor - Squirrel Cage

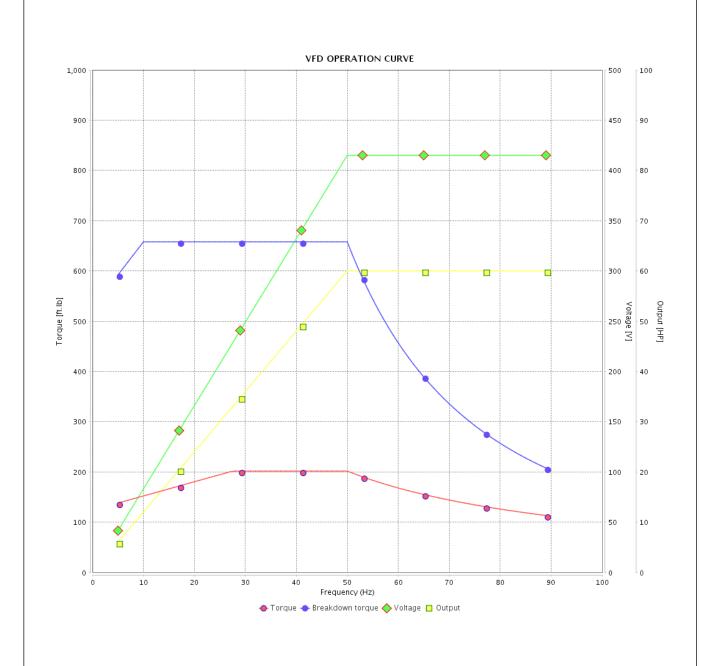


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11166657

Phase

Catalog #: 07518ET3E365T-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	rrent : 82.7 A M		Moment o	f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 8	.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 2	12 ft.lb Insulation class		: F		
Locked rotor torqu	e :2	60 %	% Service factor		: 1.00	
Breakdown torque	reakdown torque : 310 % Temp		Temperati	Temperature rise : 80 K		
Rated speed	: 1	485 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

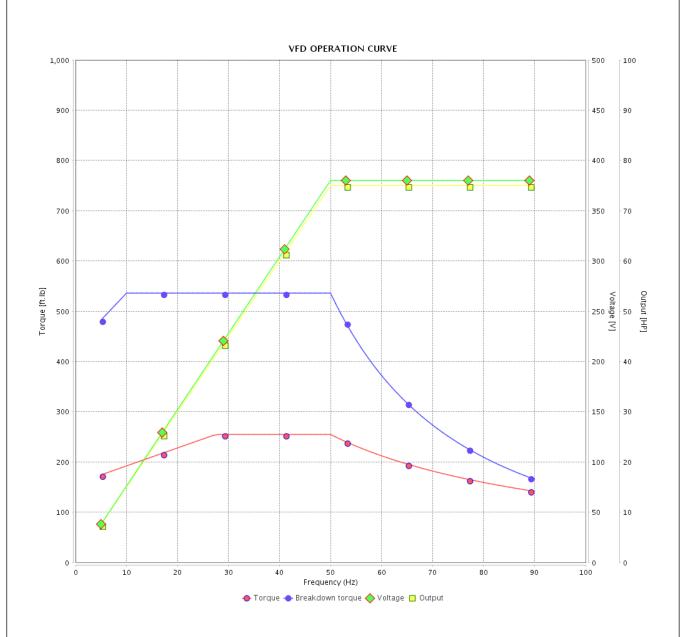
13/04/2022

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11166657

Catalog #: 07518ET3E365T-W22



Performance : 380 V 50 Hz 4P IE2 : 106 A Rated current Moment of inertia (J) : 23.3 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) : 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 Page Checked by Revision

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#### Three Phase Induction Motor - Squirrel Cage



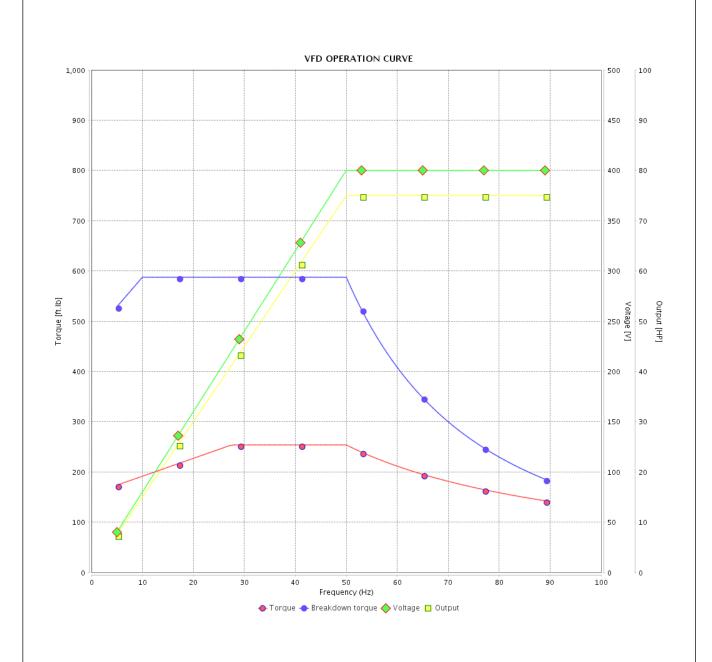
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11166657

Phase

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 102 A : 5.6 : 267 ft.lb : 200 % : 220 % : 1475 rpm	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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Checked by				Page	Revision

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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

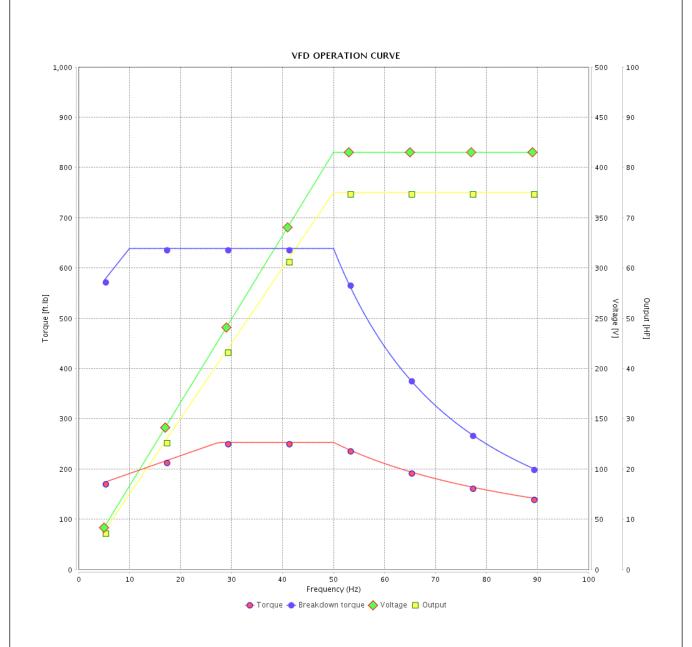
13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11166657

Catalog #: 07518ET3E365T-W22



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

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