### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11567248

Catalog #: 07518ET3E365TS-W22

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup>

: Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight<sup>3</sup> Altitude : 921 lb

Protection degre	е	: IP55		Momer	nt of inertia (J)	: 2	3.3 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	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	<b>/</b> 1]	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 <sup>2</sup>		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
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%	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

Non drive end Drive end Foundation loads

0.75

0.81

0.73

0.80

6314 C3 Bearing type 6314 C3 Max. traction : 1726 lb Sealing WSeal WSeal Max. compression : 2647 lb

12000 h

0.78

0.82

27 g Lubricant amount 27 g Mobil Polyrex EM Lubricant type

0.78

0.83

12000 h

Notes

Power Factor

Lubrication interval

USABLE @208V 186A SF 1.10 SFA 205A

75%

100%

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.

0.82

0.84

0.80

0.83

0.78

0.82

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			1 / 36	

#### Three Phase Induction Motor - Squirrel Cage



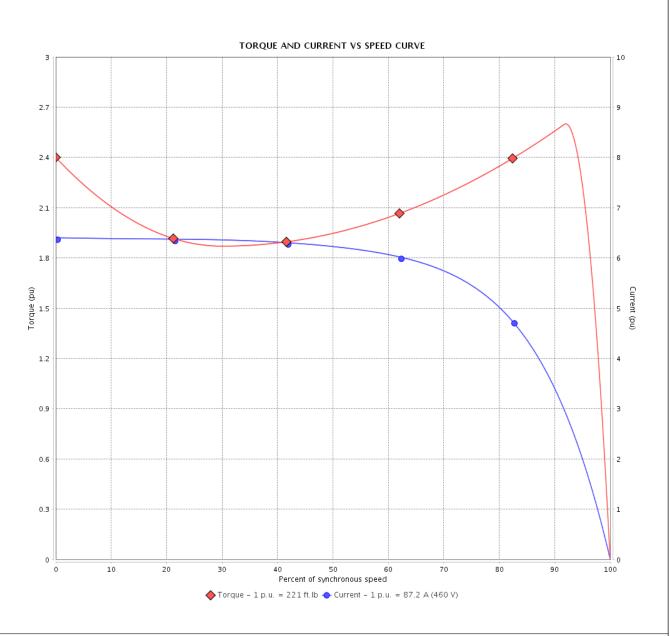
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11567248

Catalog #: 07518ET3E365TS-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)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2 / 36	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11567248 Catalog #: 07518ET3E365TS-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 213 ft.lb ◆ Current - 1 p.u. = 88.5 A (380 V)

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)	
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	
Locked rotor time	: 18s (cold) 10s (hot)		<del>.</del>	

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			3 / 36	

#### Three Phase Induction Motor - Squirrel Cage

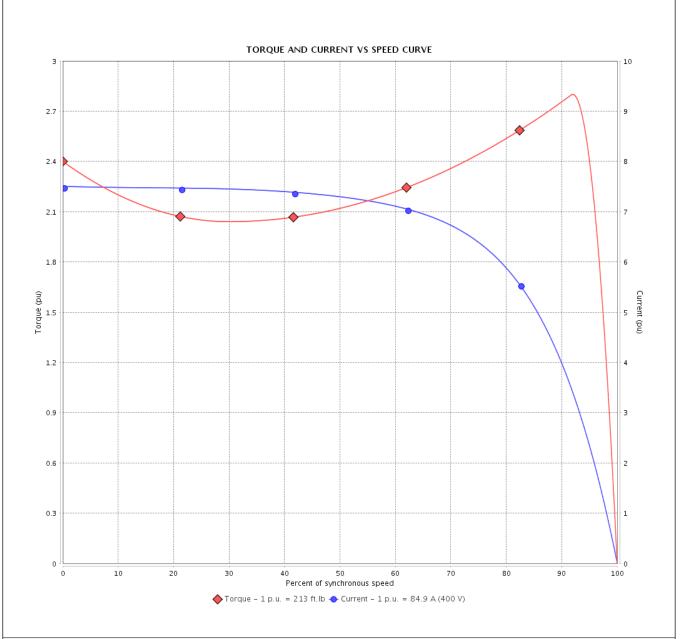


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11567248

Phase

Catalog #: 07518ET3E365TS-W22



: 400 V 50 Hz 4P IE3 Performance 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 Service factor Locked rotor torque : 240 % : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1480 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			4 / 36	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11567248 Catalog #: 07518ET3E365TS-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current Percent of synchronous speed ◆ Torque - 1 p.u. = 212 ft.lb ◆ Current - 1 p.u. = 82.7 A (415 V) : 415 V 50 Hz 4P IE3 Performance Rated current : 82.7 A Moment of inertia (J) : 23.3 sq.ft.lb LRC : 8.0 Duty cycle : Cont.(S1) Rated torque : 212 ft.lb Insulation class : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise

		Design	110 1100	: B	
e : 18	8s (cold) 10s (hot	)			
	Changes Summa	ary	Performed	Checked	Date
				Page	Revision
13/04/2022				5 / 36	
	: 14 e : 18	: 1485 rpm e : 18s (cold) 10s (hot Changes Summa	: 1485 rpm Design  E : 18s (cold) 10s (hot)  Changes Summary	: 1485 rpm Design  E : 18s (cold) 10s (hot)  Changes Summary Performed	: 1485 rpm Design : B  e : 18s (cold) 10s (hot)  Changes Summary Performed Checked  Page

#### Three Phase Induction Motor - Squirrel Cage



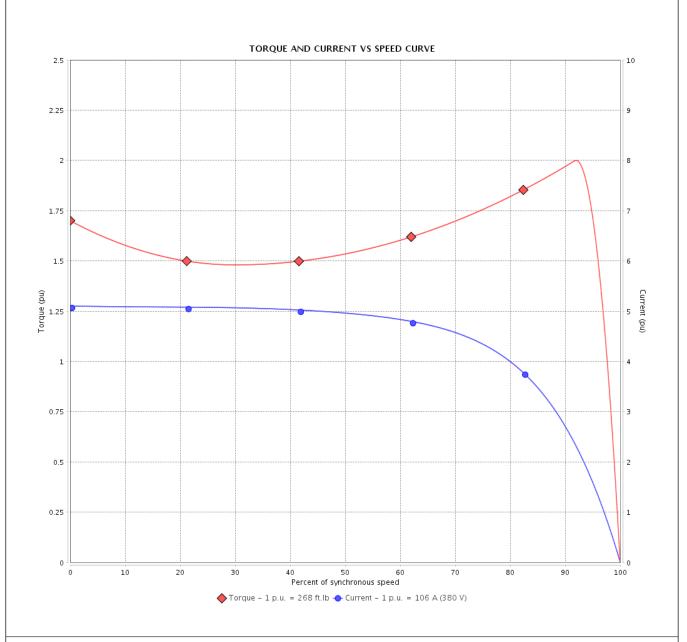
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11567248

Catalog #: 07518ET3E365TS-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)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			6 / 36	

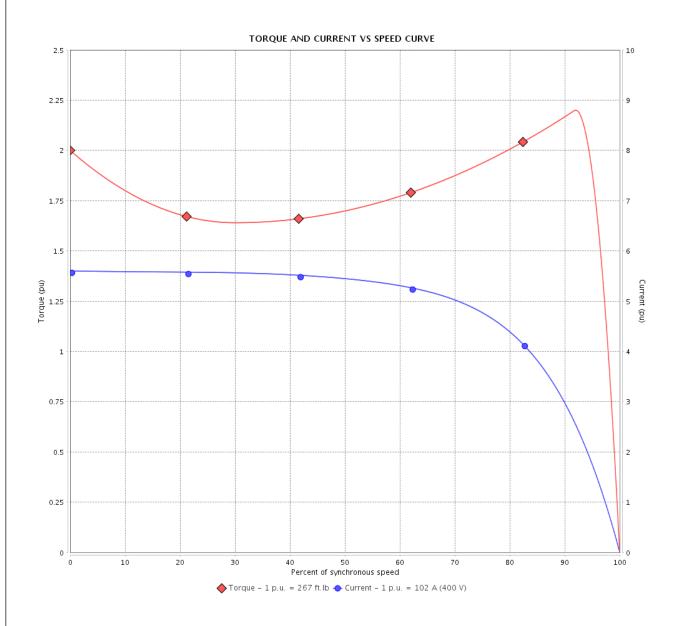
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11567248

Catalog #: 07518ET3E365TS-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)	
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 (hot)			

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	13/04/2022	1		7 / 36	

#### Three Phase Induction Motor - Squirrel Cage

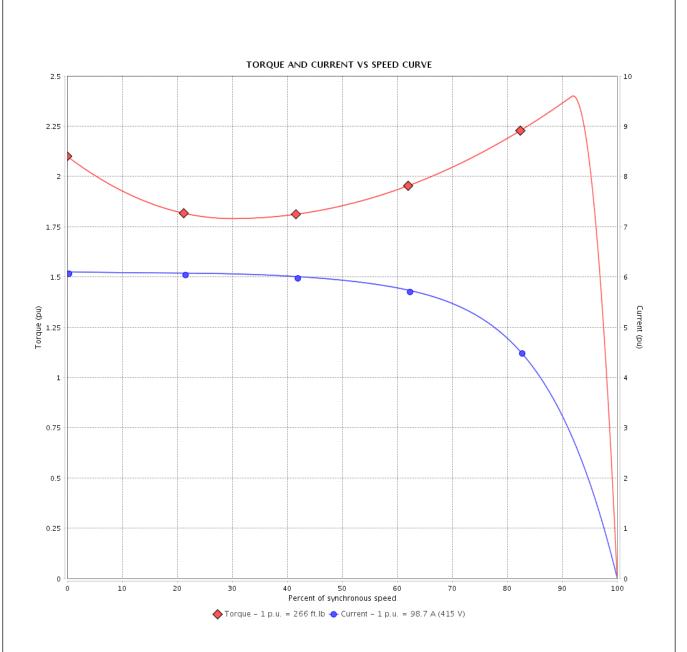


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 07518ET3E365TS-W22

11567248



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 Service factor Locked rotor torque : 210 % : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1480 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			8 / 36	

#### Three Phase Induction Motor - Squirrel Cage



Customer

Date

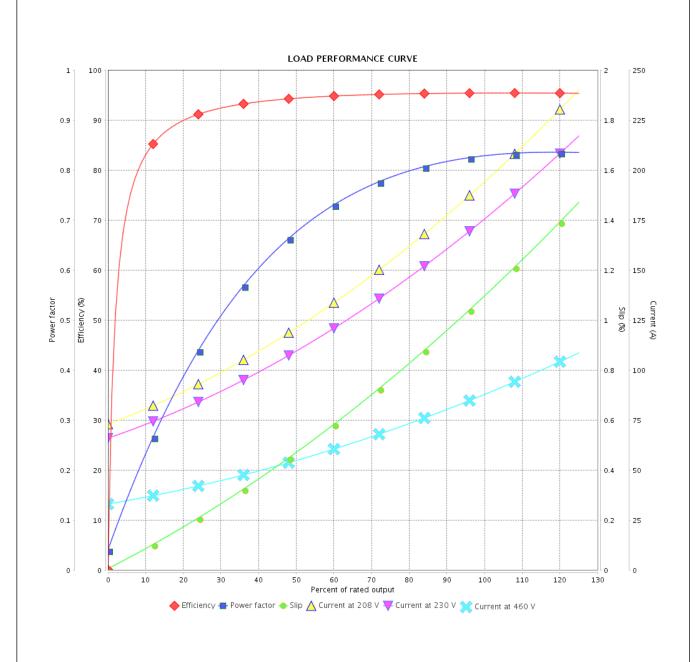
13/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 11567248

Phase

Catalog #: 07518ET3E365TS-W22

9/36



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 of Service fact Temperatu Design	class	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

#### Three Phase Induction Motor - Squirrel Cage



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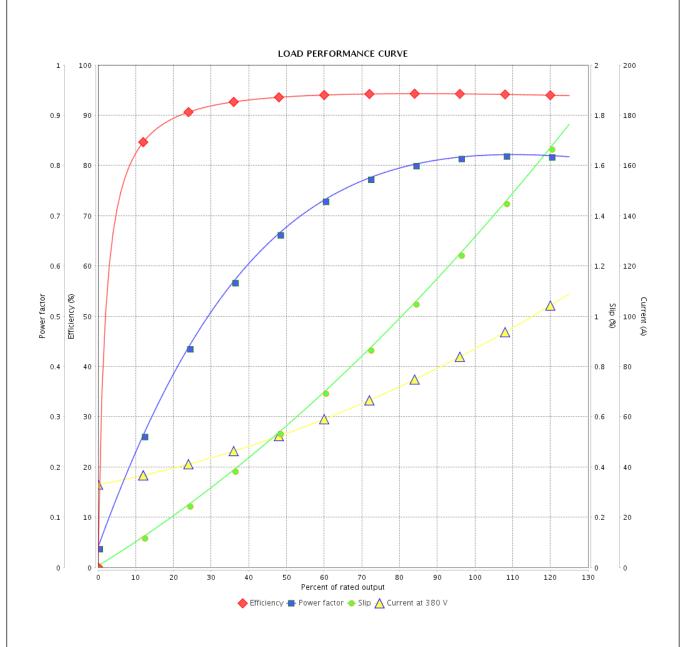
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11567248

Catalog #: 07518ET3E365TS-W22

10/36



Dorformana	: 380 V 50 Hz 4P IE3			
Performance	. 300 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) Duty cycle Insulation class Service factor Temperature rise Design	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Performe	d Checked	Date
Performed by				
Checked by			Page	Revision

13/04/2022

#### Three Phase Induction Motor - Squirrel Cage

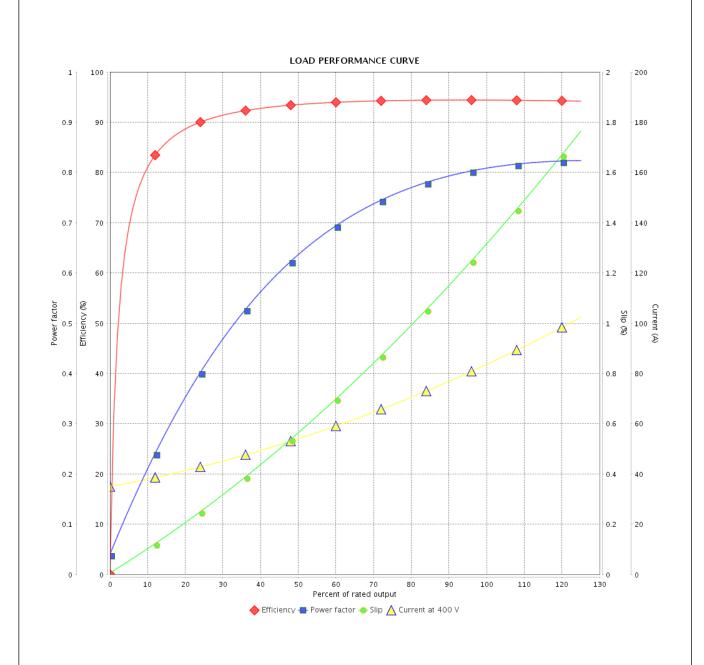


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11567248

Phase

Catalog #: 07518ET3E365TS-W22



Performance	: : 4	00 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	<b>;</b>	: Cont.(S1)	
Rated torque		213 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	240 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	280 %	Temperati	Temperature rise : 80 K		
Rated speed	: 1	480 rpm	80 rpm Design		: B	
Rev.		Changes Summar	У	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				11 / 36	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

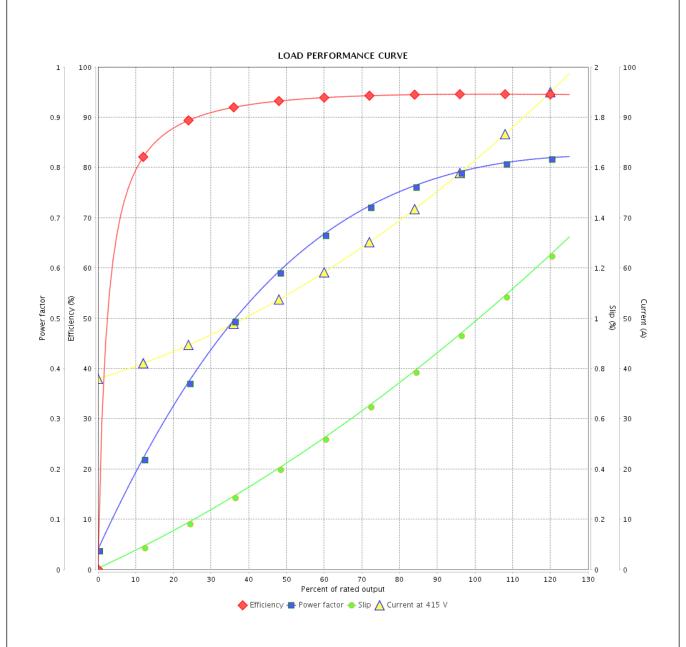
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11567248

Catalog #: 07518ET3E365TS-W22

12/36



Performance	: 415 V 50 Hz 4P IE3	,			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 82.7 A : 8.0 : 212 ft.lb : 260 % : 310 % : 1485 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	
Rev.	Changes Summary		Performed	Checked	Date
Performed by Checked by				Page	Revision

13/04/2022

#### Three Phase Induction Motor - Squirrel Cage

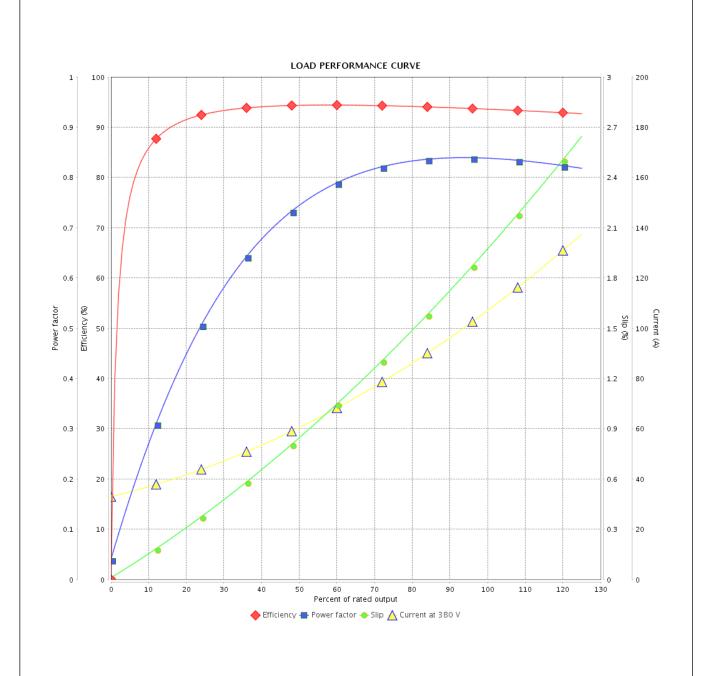


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11567248

Phase

Catalog #: 07518ET3E365TS-W22



Performance	: 38	80 V 50 Hz 4P IE2				
Rated current	current : 106 A		Moment of	f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 5	.1	Duty cycle	;	: Cont.(S1)	
Rated torque	: 20	68 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 1 <sup>-</sup>	70 %	Service fa	ctor	: 1.00	
Breakdown torque	down torque : 200 % Temperature rise		ure rise	: 105 K		
Rated speed	: 14	470 rpm	Design		: B	
Rev.		Changes Summary	'	Performed	Checked	Date
Performed by						
, ,		-				
Checked by					Page	Revision
Date	13/04/2022				13 / 36	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

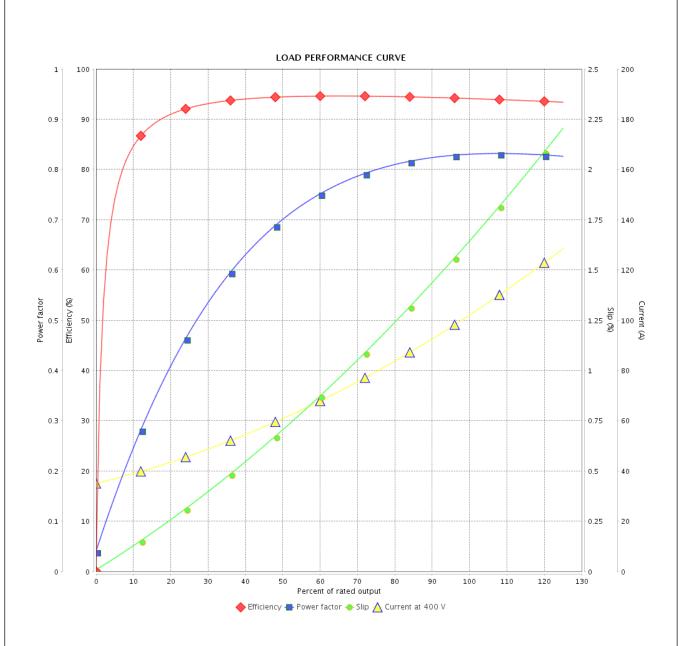
Product code: 11567248

Catalog #: 07518ET3E365TS-W22

Page

14/36

Revision



Performance	: 4	00 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 2 jue : 2	02 A 5.6 167 ft.lb 100 % 120 % 475 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	
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		1				
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#### Three Phase Induction Motor - Squirrel Cage

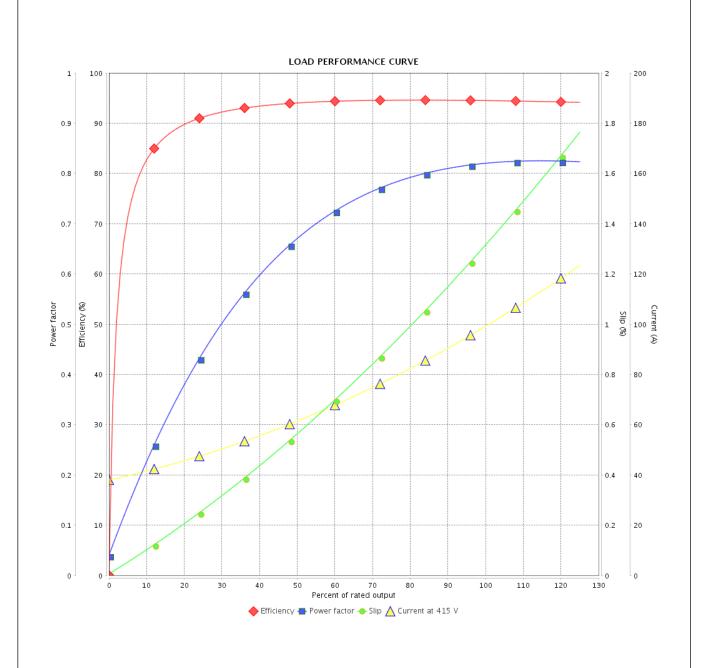


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11567248

Phase

Catalog #: 07518ET3E365TS-W22



Performance	: 4	15 V 50 Hz 4P IE2				
Rated current LRC	: 98 : 6	.7 A Moment of in Duty cycle		` '	: 23.3 sq.ft.lb : Cont.(S1)	
Rated torque	: 20	66 ft.lb	Insulation class		: F	
		10 % 40 %		Service factor : 1.00 Temperature rise : 105 K		
Rated speed	: 14	480 rpm	Design		: B	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				15 / 36	

### Three Phase Induction Motor - Squirrel Cage

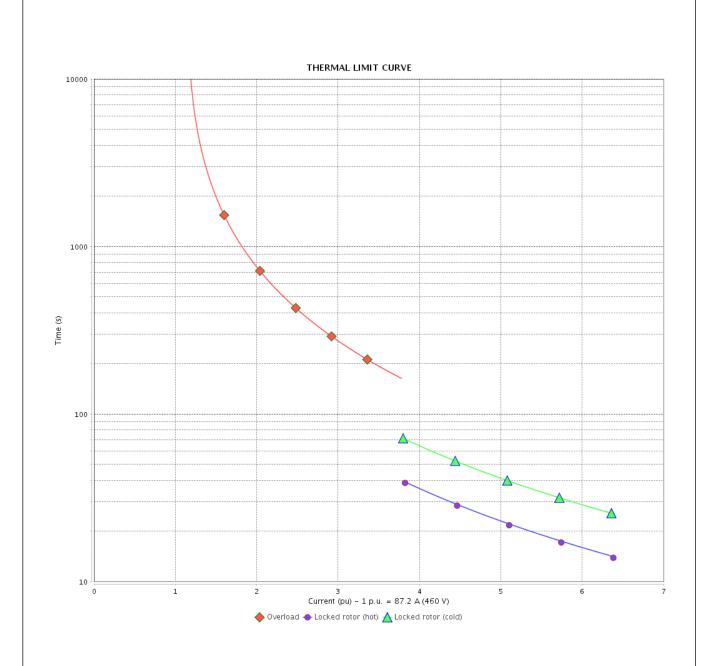


Customer	:					
Product line		IEMA Premium Efficiency nase		Product code :	11567248 07518ET3E36	65TS-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 17 : 6.4 : 22 : 24 : 26	0/460 V 60 Hz 4P 4/87.2 A 4 1 ft.lb 0 % 0 % 80 rpm	Moment or Duty cycle Insulation 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
Performed by Checked by	40/04/0323				Page	Revision

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			17 / 36	

### Three Phase Induction Motor - Squirrel Cage

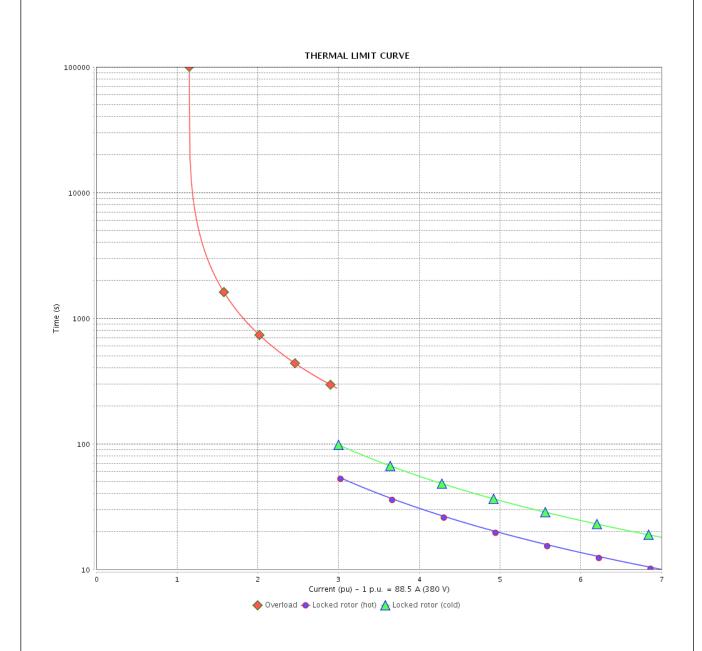


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Product line		NEMA Premium Efficiency hase		Product code :	11567248 07518ET3E36	65TS-W22
Performance		80 V 50 Hz 4P IE3		Cimandia (1)	.000	
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7. : 2′ : 2′ : 25	3.5 A 0 13 ft.lb 10 % 50 % 480 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant		·				
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by					Page	Revision
D.:	40/04/0222	-			40.400	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			19 / 36	

### Three Phase Induction Motor - Squirrel Cage

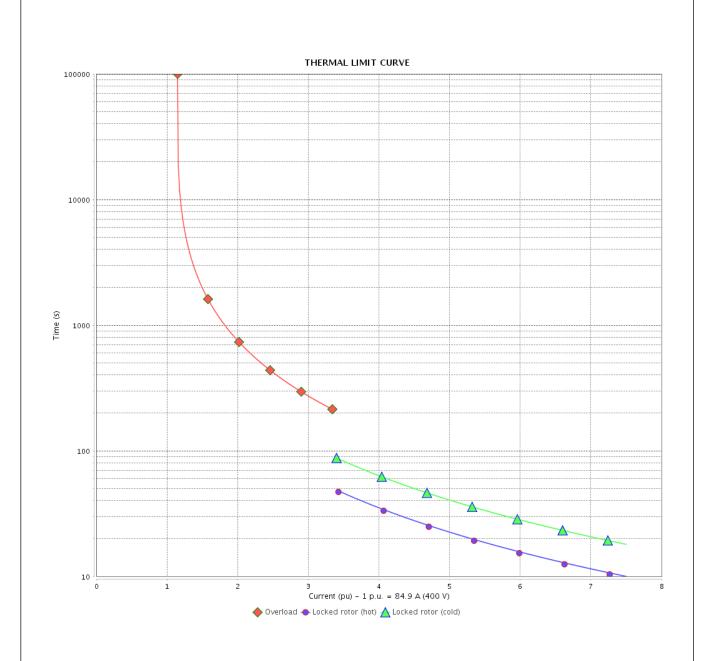


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11567248 07518ET3E36	65TS-W22
	,					
Performance		: 400 V 50 Hz 4P IE3	N4 t	eficantia (I)	. 00 0 # 11-	
Rated current LRC		: 84.9 A : 7.5	Duty cycle		: 23.3 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 213 ft.lb : 240 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 280 %	Temperat		: 80 K	
Rated speed		: 1480 rpm	Design		: B	
Heating constan						
Cooling constant	Ţ.	Changes Summary		Performed	Checked	Date
1/67.		Changes Sumillary		r chomiled	OHECKEU	Dale
Performed by						
Checked by					Page	Revision
Date	13/04/2022				20 / 36	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			21 / 36	

### Three Phase Induction Motor - Squirrel Cage

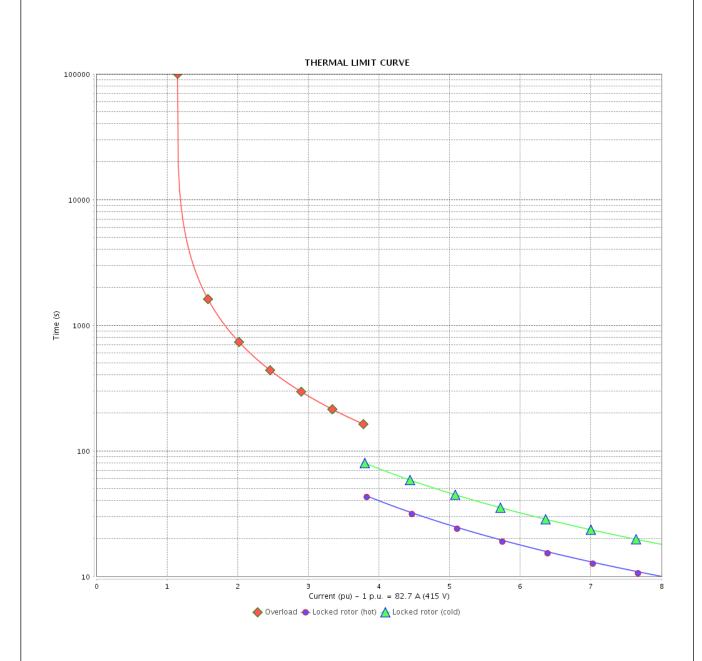


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11567248 07518ET3E36	65TS-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC		: 82.7 A : 8.0	Moment of Duty cycle	of inertia (J) e	: 23.3 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 212 ft.lb : 260 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu		: 310 %	Temperat		: 80 K	
Rated speed		: 1485 rpm	Design		: B	
Heating constan						
Cooling constant	Ţ.	Changes Summary		Performed	Checked	Date
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Performed by						
Checked by					Page	Revision
Date	13/04/2022				22 / 36	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			23 / 36	

### Three Phase Induction Motor - Squirrel Cage

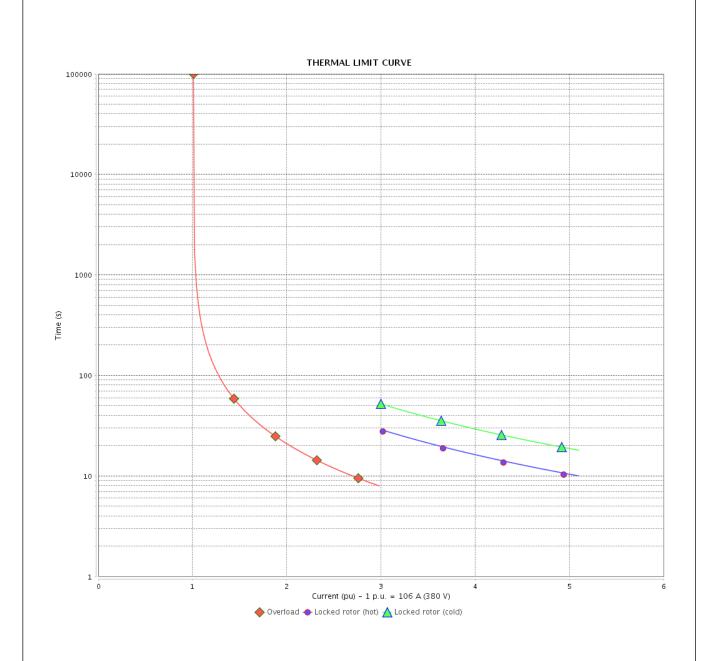


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11567248 07518ET3E36	65TS-W22
Performance		: 380 V 50 Hz 4P IE2				
Rated current LRC		: 106 A : 5.1	Duty cycle		: 23.3 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 268 ft.lb : 170 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 200 %	Temperat		: 105 K	
Rated speed		: 1470 rpm	Design		: B	
Heating constan						
Cooling constant	Ţ.	Changes Summary		Performed	Checked	Date
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Performed by						
Checked by					Page	Revision
Date	13/04/2022				24 / 36	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			25 / 36	

### Three Phase Induction Motor - Squirrel Cage

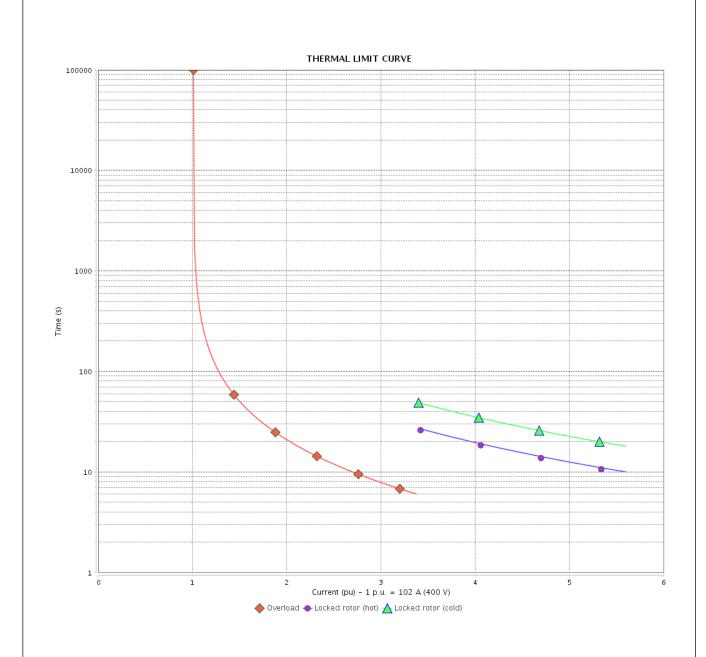


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Product line		NEMA Premium Efficiency	Three-	Product code :	11567248	
	Pi	hase	(	Catalog # :	07518ET3E36	65TS-W22
Performance	: 40	00 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 5. : 26 e : 20 : 22	67 ft.lb 00 % 20 %	Duty cycle Insulation Service far Temperatu	class ctor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Rated speed	: 14	175 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			27 / 36	

### Three Phase Induction Motor - Squirrel Cage

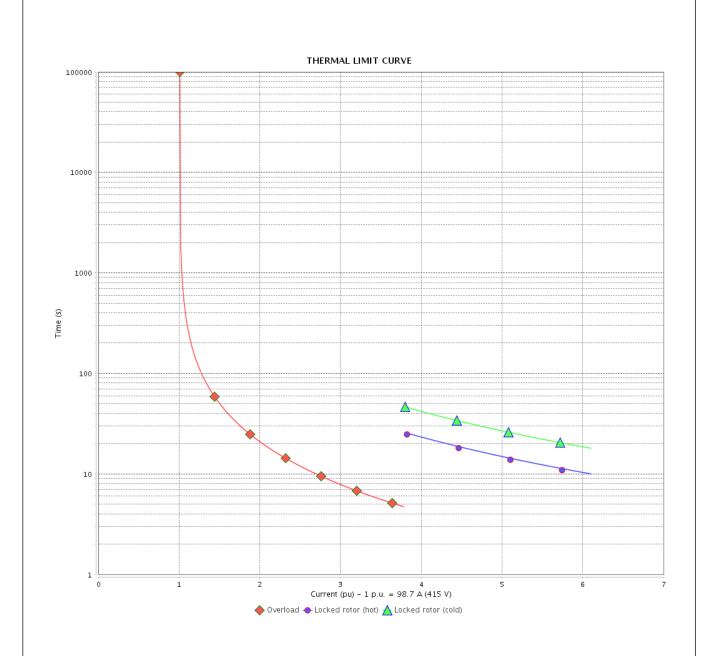


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11567248	05T0 W00
				Catalog # :	07518ET3E36	051S-VV22
Performance		15 V 50 Hz 4P IE2 3.7 A	Moment =	finartia (I)	. 22 2 00 # lb	
Rated current LRC	: 6.	1	Duty cycle	f inertia (J)	: 23.3 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque		66 ft.lb 10 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 24	40 %	Temperatu		: 105 K	
Rated speed	: 14	480 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Summani		Performed	Checked	Date
Rev.		Changes Summary		renomea	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
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Checked by				Page	Revision
Date	13/04/2022			29 / 36	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

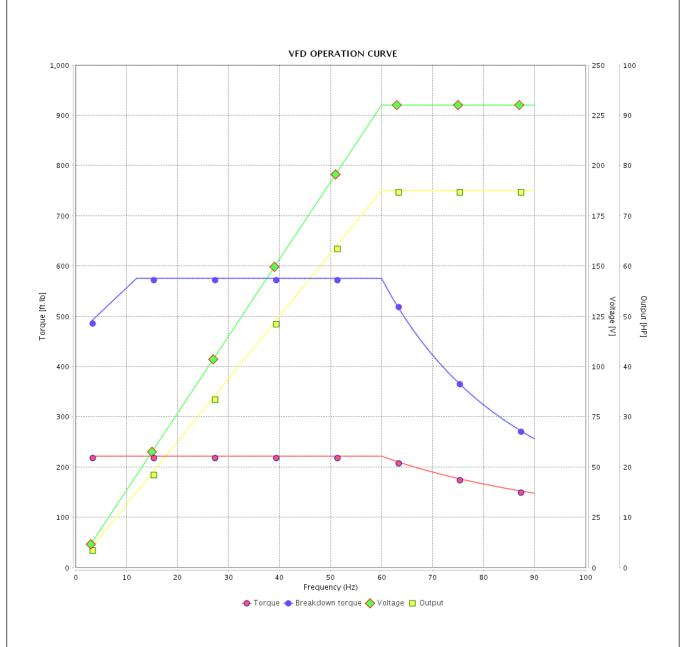
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11567248

Catalog #: 07518ET3E365TS-W22

30 / 36



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	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

#### Three Phase Induction Motor - Squirrel Cage



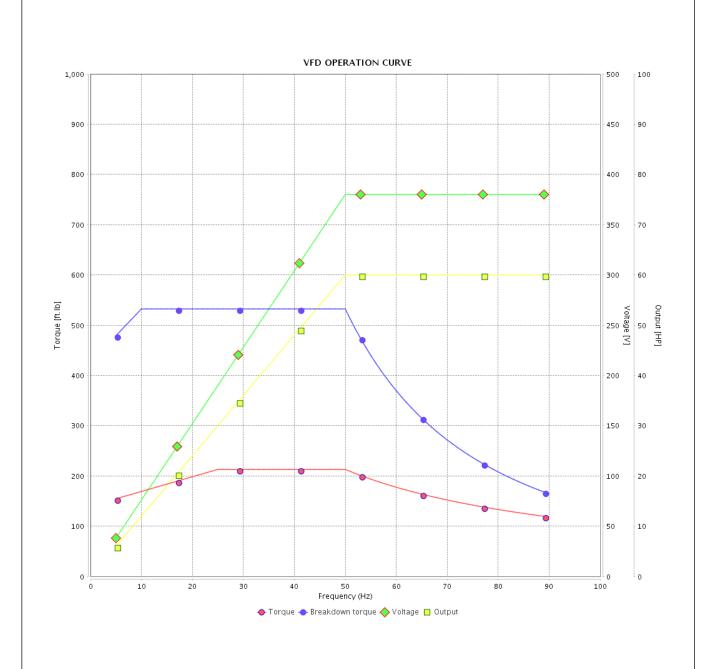
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 07518ET3E365TS-W22

11567248



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 8	8.5 A Moment of		f inertia (J)	: 23.3 sq.ft.lb	
LRC	: 7	.0	Duty cycle	)	: Cont.(S1)	
Rated torque	: 2	13 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	10 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	50 %	Temperature rise		: 80 K	
Rated speed	: 1	480 rpm	Design		: B	
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Checked by					Page	Revision
Date	13/04/2022	1			31 / 36	

#### Three Phase Induction Motor - Squirrel Cage



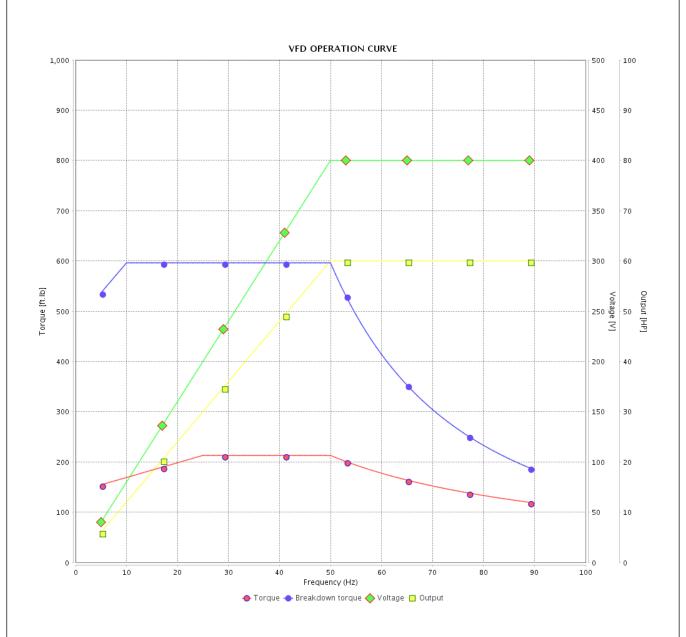
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11567248

Catalog #: 07518ET3E365TS-W22



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7 : 2 : 2 : 2	4.9 A .5 13 ft.lb 40 % 80 % 480 rpm	Service factor Temperature rise		: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	13/04/2022				32 / 36	

#### Three Phase Induction Motor - Squirrel Cage

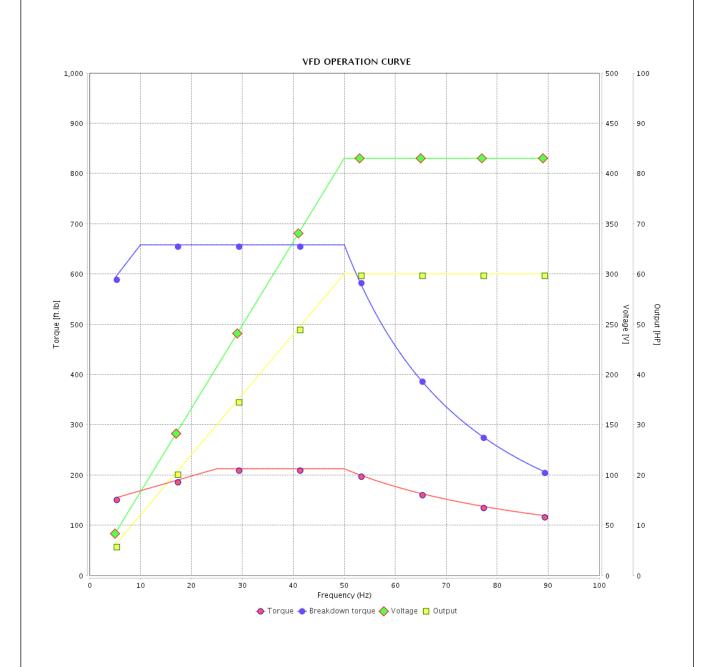


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11567248

Phase

Catalog #: 07518ET3E365TS-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 8:	2.7 A	2.7 A Moment of		: 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 %	Temperature rise		: 80 K	
Rated speed	: 1	485 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	13/04/2022	1			33 / 36	

#### Three Phase Induction Motor - Squirrel Cage



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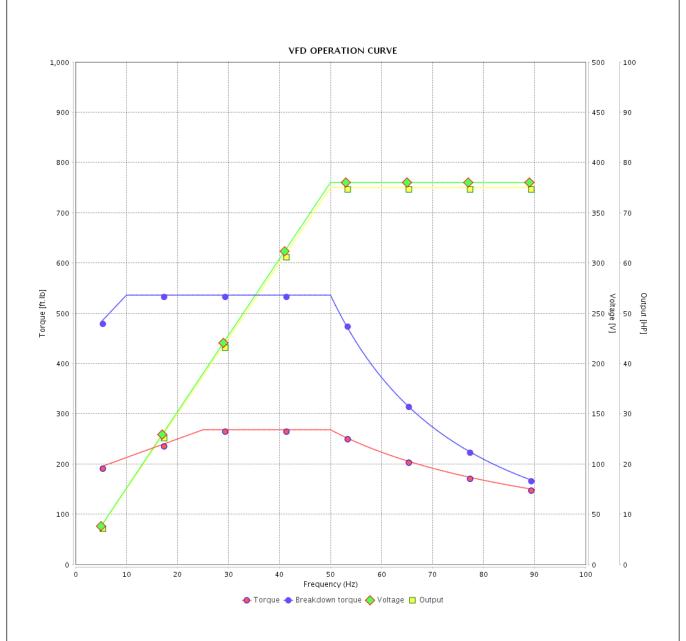
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11567248

Catalog #: 07518ET3E365TS-W22

34 / 36



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)	
Rated torque	: 268 ft.lb Insulati		class	: F	
Locked rotor torque	: 170 %	Service factor Temperature rise Design		: 1.00	
Breakdown torque	: 200 %			: 105 K	
Rated speed	: 1470 rpm			: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

#### Three Phase Induction Motor - Squirrel Cage



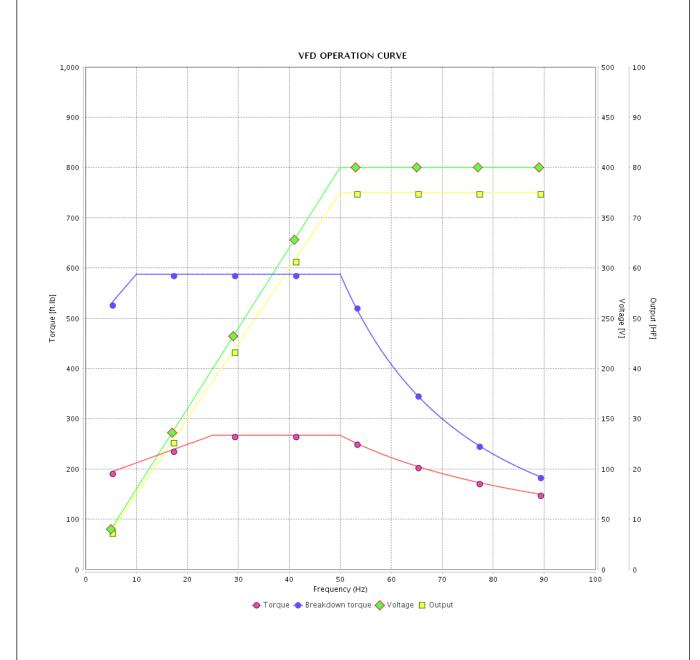
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11567248

Phase

Catalog #: 07518ET3E365TS-W22

35 / 36



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	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

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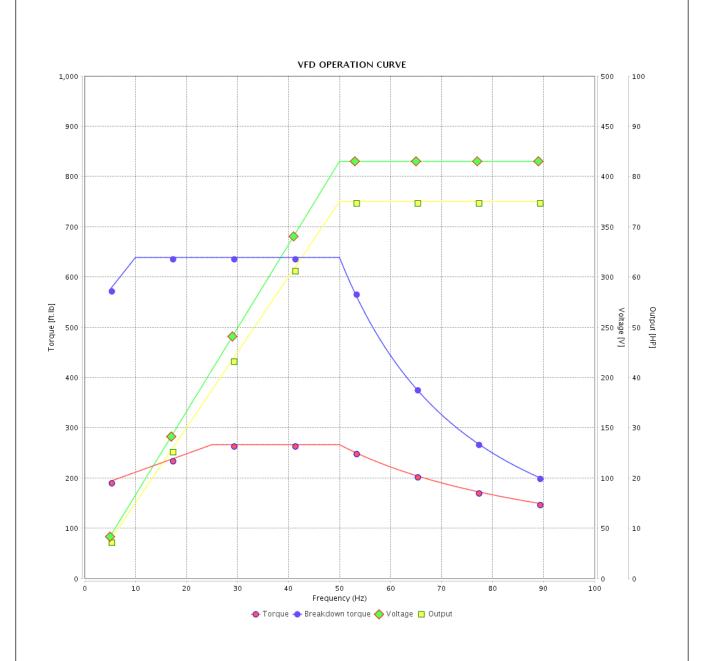


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11567248

Phase

Catalog #: 07518ET3E365TS-W22



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

36 / 36

13/04/2022

