### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11458046

00218ET3ER145TC-W22 Catalog #:

Frame : 145TC Cooling method : IC411 - TEFC

Insulation class Mounting : W-6

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 50.8 lb

Protection degre	е	: IP55		Momer	nt of inertia (J	) : C	0.1561 sq.ft.lb	
Design		: B					•	
Output [HP]		2	1.5	1.5	1.5	2	2	2
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]		5.52/2.76	2.57	2.57	2.56	3.33	3.22	3.14
L. R. Amperes [A]		45.8/22.9	21.1	22.4	21.5	20.0	21.3	22.9
LRC [A]		8.3x(Code L)	8.2x(Code L)	8.7x(Code	8.4x(Code	6.0x(Code H)	6.6x(Code J)	7.3x(Code K)
				M)	M)			
No load current [A	]	3.26/1.63	1.61	1.80	1.97	1.61	1.80	1.97
Rated speed [RPN	<b>/</b> 1]	1750	1460	1465	1465	1435	1440	1450
Slip [%]		2.78	2.67	2.33	2.33	4.33	4.00	3.33
Rated torque [ft.lb]		6.00	5.40	5.38	5.38	7.32	7.29	7.24
Locked rotor torqu	e [%]	270	290	320	350	220	229	250
Breakdown torque	[%]	320	330	380	409	240	260	290
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		23s (cold)	32s (cold)	28s (cold)	27s (cold)	23s (cold)	21s (cold)	21s (cold)
		13s (hot)	18s (hot)	16s (hot)	15s (hot)	13s (hot)	12s (hot)	12s (hot)
Noise level <sup>2</sup>		51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	85.2	83.5	80.9	80.3	86.7	83.7	83.8
Efficiency (%)	50%	85.5	84.0	82.0	81.4	85.5	84.0	84.0
Efficiency (%)	75%	86.5	84.2	83.5	83.1	84.0	84.0	84.0
	100%	86.5	84.5	84.5	84.1	82.5	84.0	84.0
	25%	0.32	0.31	0.27	0.25	0.39	0.35	0.32
Dower Footer	50%	0.57	0.55	0.50	0.47	0.66	0.62	0.60
Power Factor	75%	0.70	0.69	0.64	0.61	0.78	0.74	0.72
	100%	0.79	0.77	0.73	0.71	0.83	0.80	0.79

Drive end Non drive end Foundation loads

Bearing type 6205 ZZ 6204 ZZ Max. traction : 157 lb Sealing V'Ring V'Ring Max. compression : 208 lb

Lubricant amount Lubricant type Mobil Polyrex EM

Notes

Lubrication interval

USABLE @208V 5.85A SF 1.15 SFA 6.73A

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.

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

#### Three Phase Induction Motor - Squirrel Cage



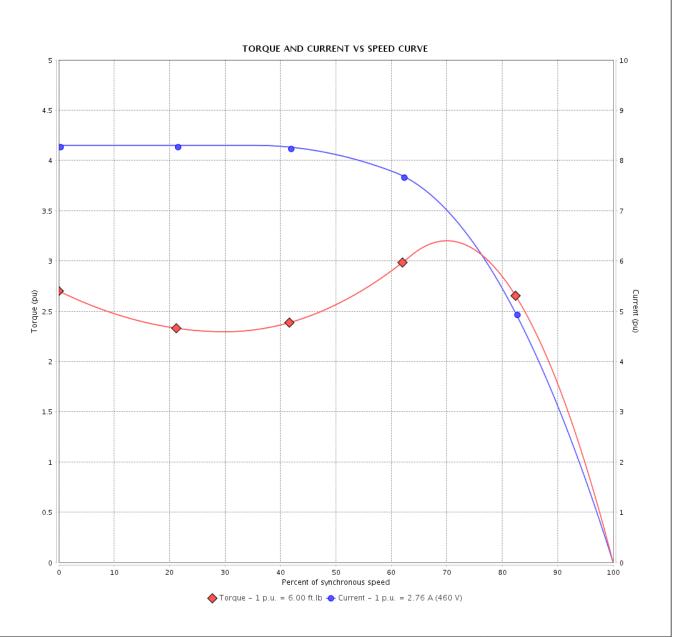
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11458046

Catalog #: 00218ET3ER145TC-W22



Performance : 230/460 V 60 Hz 4P Rated current : 5.52/2.76 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.3 Duty cycle : Cont.(S1) : F : 6.00 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 270 % : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1750 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

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



Revision

Page

3/36

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11458046 Catalog #: 00218ET3ER145TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.40 ft.lb ◆ Current - 1 p.u. = 2.57 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 2.57 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 5.40 ft.lb : 290 % Locked rotor torque Service factor : 1.25 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Locked rotor time : 32s (cold) 18s (hot) Date Rev. Performed Checked **Changes Summary** Performed by

Checked by

Date

13/04/2022

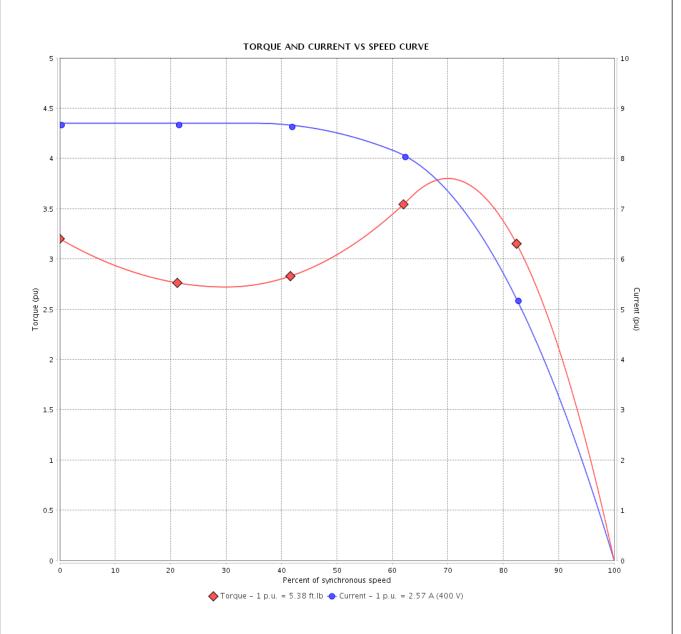
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11458046

Catalog #: 00218ET3ER145TC-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 2.57 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.7 Duty cycle : Cont.(S1) : F : 5.38 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 320 % : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Locked rotor time

: 28s (cold) 16s (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: 11458046 Catalog #: 00218ET3ER145TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu)

Performance	: 415 V 50 Hz 4P IE3		
Rated current	: 2.56 A	Moment of inertia (J)	: 0.1561 sq.ft.lb
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 5.38 ft.lb	Insulation class	:F
Locked rotor torque	: 350 %	Service factor	: 1.25
Breakdown torque	: 409 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

40 50 Percent of synchronous speed ◆ Torque - 1 p.u. = 5.38 ft.lb ◆ Current - 1 p.u. = 2.56 A (415 V)

Locked rotor time : 27s (cold) 15s (hot)

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			5 / 36	

### Three Phase Induction Motor - Squirrel Cage

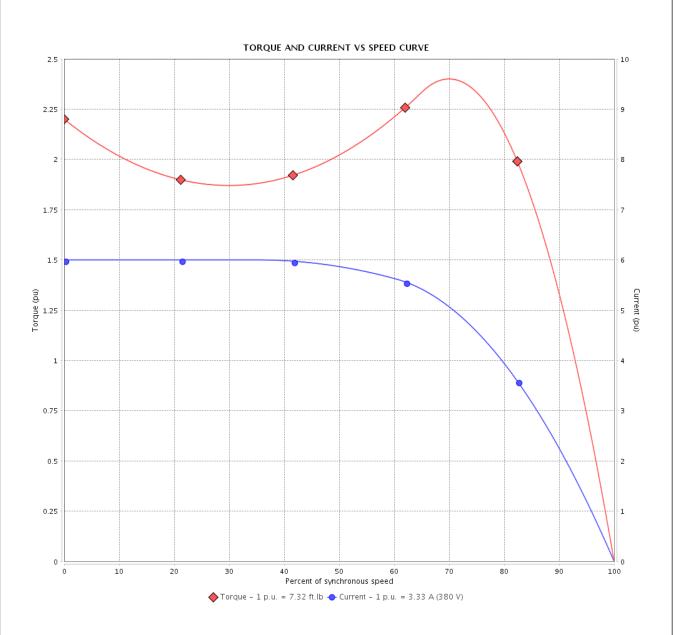


Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11458046



Performance	: 380 V 50 Hz 4P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.33 A : 6.0 : 7.32 ft.lb : 220 % : 240 % : 1435 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1561 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor time	: 23s (cold) 13s (hot)			

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

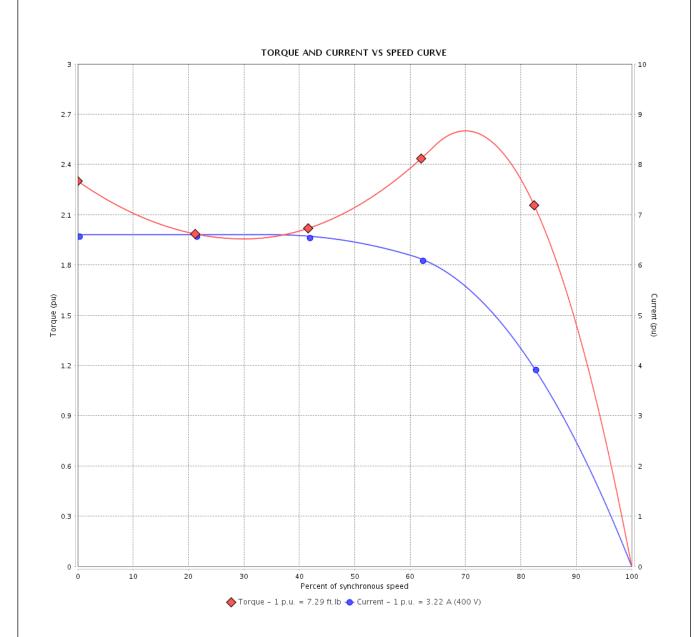
#### Three Phase Induction Motor - Squirrel Cage



00218ET3ER145TC-W22

Customer Product line : NEMA Premium Efficiency Three-Product code: 11458046

Catalog #:



Performance : 400 V 50 Hz 4P IE2 Rated current : 3.22 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 7.29 ft.lb Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 1440 rpm Design Locked rotor time : 21s (cold) 12s (hot)

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

#### Three Phase Induction Motor - Squirrel Cage



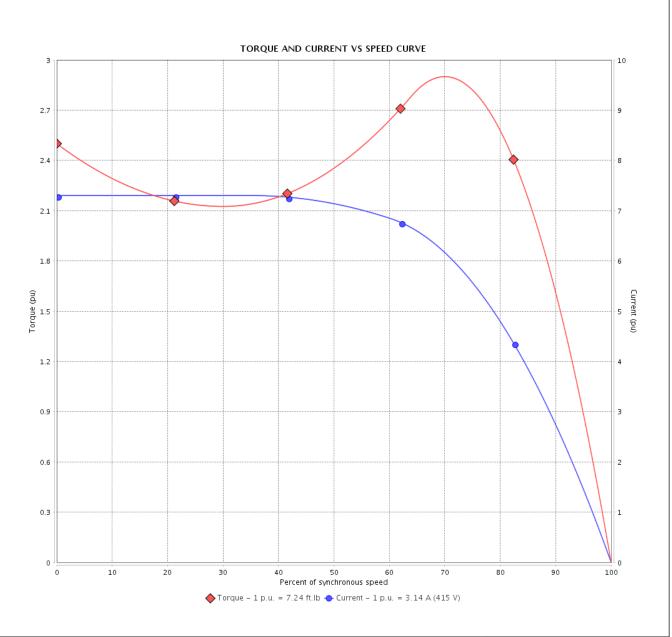
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11458046

Catalog #: 00218ET3ER145TC-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 3.14 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 7.24 ft.lb : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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

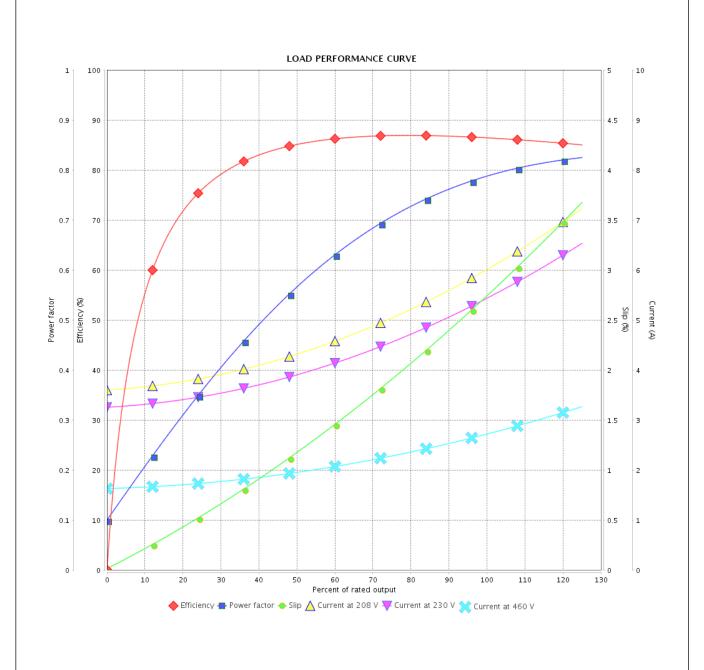
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11458046

Phase



Performance	::	230/460 V 60 Hz 4P				
Rated current : 5.52/2.76 A		Moment o	Moment of inertia (J)		.lb	
LRC	: 8	8.3	Duty cycle	)	: Cont.(S1)	
Rated torque	: (	6.00 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie ::	270 %	Service fa	ctor	: 1.25	
Breakdown torque	e ::	320 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1750 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				9 / 36	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

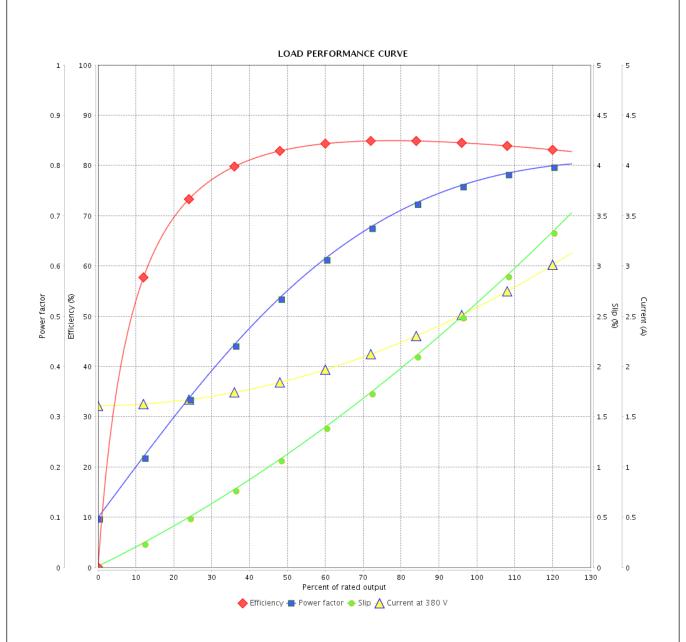
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11458046

Catalog #: 00218ET3ER145TC-W22

10/36



Performance	: 380 V 50 Hz 4P IE3				
Rated current : 2.57 A Moment		Moment of ine	Moment of inertia (J)		lb
LRC	: 8.2	Duty cycle		: Cont.(S1)	
Rated torque	: 5.40 ft.lb	Insulation class	SS	: F	
Locked rotor torque	: 290 %	Service factor		: 1.25	
Breakdown torque	: 330 %	Temperature r	rise	: 80 K	
Rated speed	: 1460 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Date

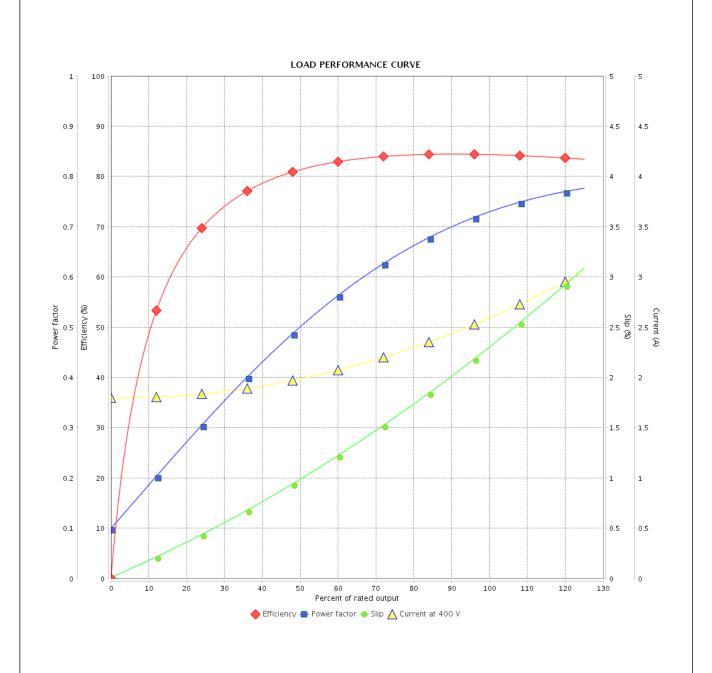
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11458046

Phase



Performance	:	400 V 50 Hz 4P IE3					
Rated current	:	2.57 A	Moment o	f inertia (J)	: 0.1561 sq.ft.	.lb	
LRC	:	8.7	Duty cycle	; · ·	: Cont.(S1)	•	
Rated torque	:	5.38 ft.lb	Insulation	class	: F		
Locked rotor torque	e :	320 %	Service fa	ctor	: 1.25		
Breakdown torque	:	380 %	Temperati	ıre rise	: 80 K		
Rated speed	:	1465 rpm	Design		: B		
Rev.		Changes Summary	l	Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Data	13/04/2022				11 / 36		

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

13/04/2022

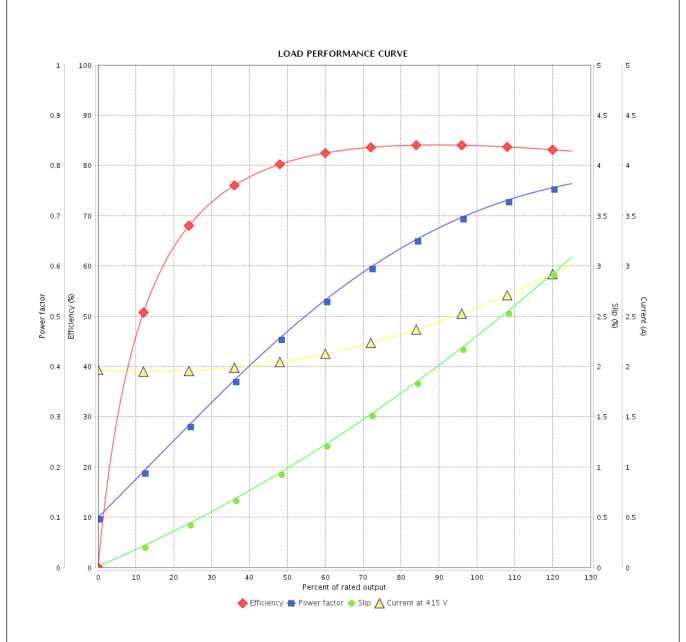
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11458046

Catalog #: 00218ET3ER145TC-W22

12/36



Performance : 415 V 50 Hz 4P IE3 : 2.56 A Rated current Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 5.38 ft.lb Insulation class Rated torque : F Locked rotor torque : 350 % Service factor : 1.25 Breakdown torque : 409 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

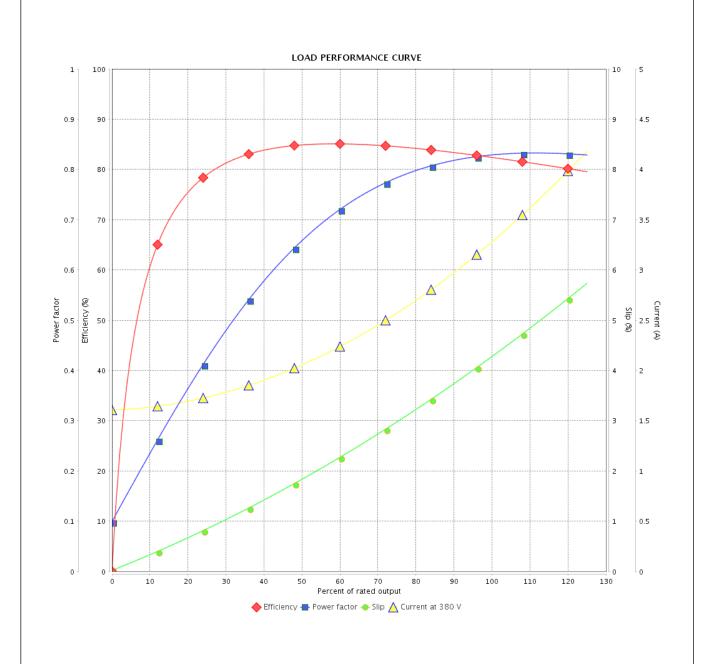
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11458046

Phase



Performance	: 3	80 V 50 Hz 4P IE1				
Rated current	: 3	.33 A	Moment o	f inertia (J)	: 0.1561 sq.ft.	lb
LRC	: 6	.0	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 7	.32 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	20 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	40 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	435 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
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Performed by						
Checked by					Page	Revision
Date	13/04/2022				13 / 36	

#### Three Phase Induction Motor - Squirrel Cage



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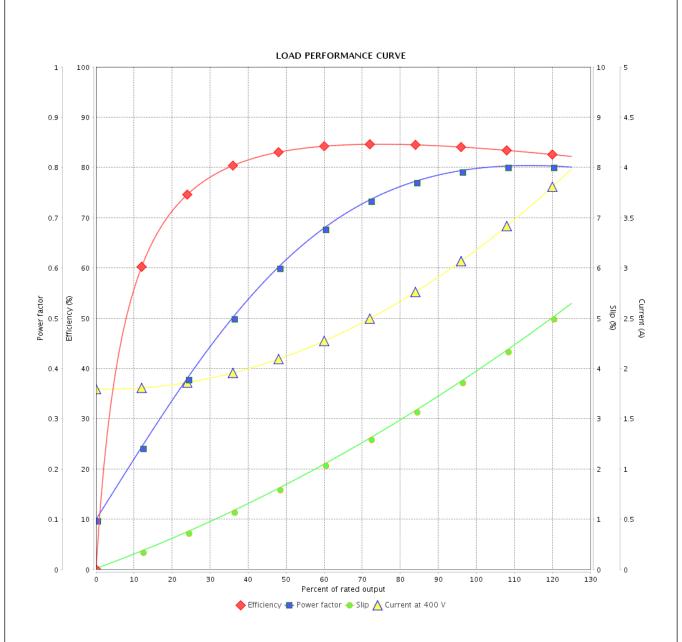
Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11458046

Catalog #: 00218ET3ER145TC-W22

14/36



Performance		: 400 V 50 Hz 4P IE	2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	jue je	: 3.22 A : 6.6 : 7.29 ft.lb : 229 % : 260 % : 1440 rpm	Moment of Duty cycle Insulation Service far Temperature Design	class ctor	: 0.1561 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
Rev.		Changes Summ	ary	Performed	Checked	Date
Performed by					Dogo	Dovision
Checked by					Page	Revision

13/04/2022

Date

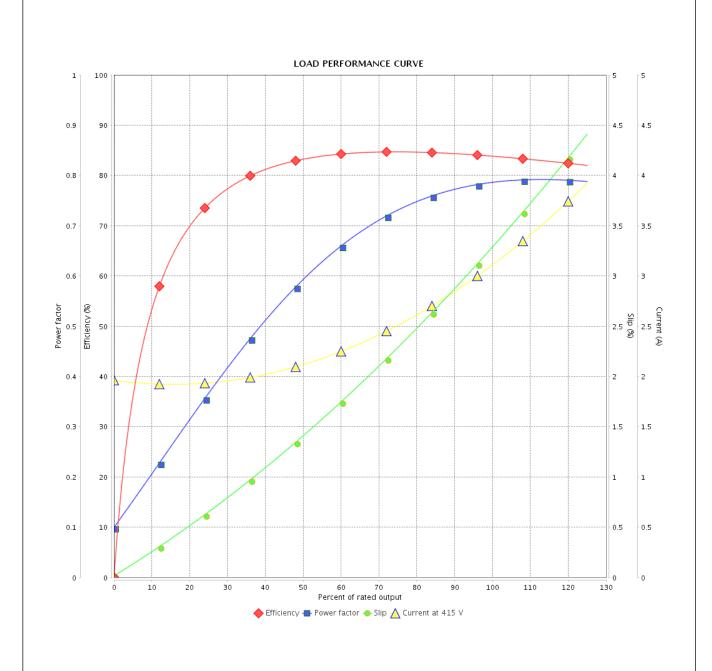
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11458046

Phase



Performance	:	415 V 50 Hz 4P IE2				
Rated current	:	3.14 A	Moment o	f inertia (J)	: 0.1561 sq.ft.l	b
LRC	:	7.3	Duty cycle	;	: Cont.(S1)	
Rated torque	:	7.24 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	250 %	Service fa	ctor	: 1.25	
Breakdown torque	:	290 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1450 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				15 / 36	

### Three Phase Induction Motor - Squirrel Cage

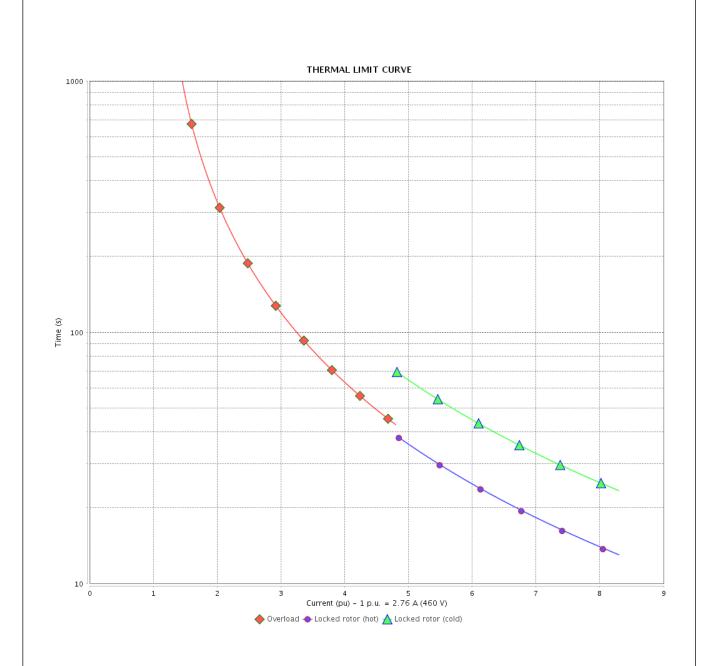


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11458046	
	P	hase		Catalog # :	00218ET3EF	R145TC-W22
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 5. : 8.	52/2.76 A 3	Moment o Duty cycle	f inertia (J)	: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque	: 6.	00 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		70 % 20 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		750 rpm	Design		: B	
Heating constant						
Cooling constant		Channa O		Dorf	Ohl l	D-t-
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
D-1	40/04/0000	1			40./00	

### 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

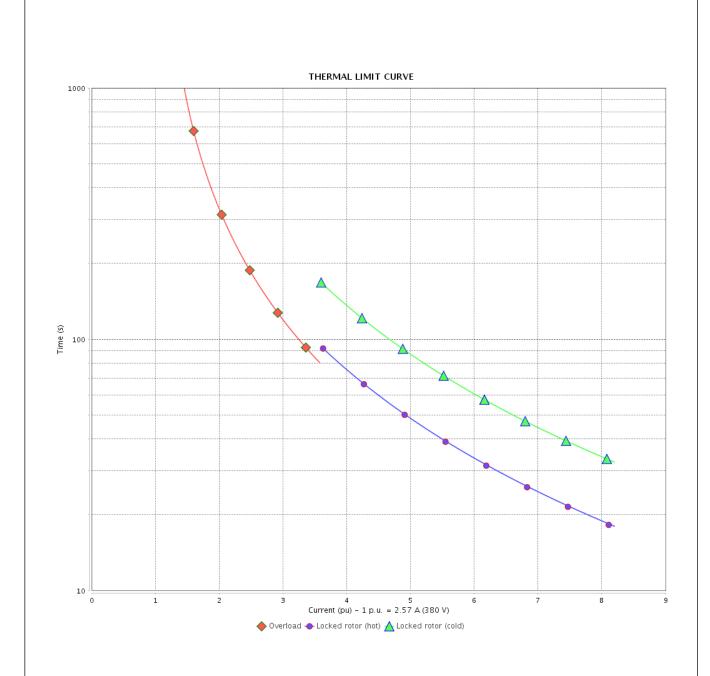


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11458046 00218ET3EF	R145TC-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC		: 2.57 A : 8.2	Duty cycle		: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 5.40 ft.lb : 290 %	Insulation Service fa		: F : 1.25	
Breakdown torqu Rated speed	ue	: 330 % : 1460 rpm	Temperat Design		: 80 K : B	
Heating constan					· <del>-</del>	
Cooling constan						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by	40/04/2005				Page 18 / 36	Revision
Date	13/04/2022	T T			18 / 36	

#### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022	1		19 / 36	

### Three Phase Induction Motor - Squirrel Cage

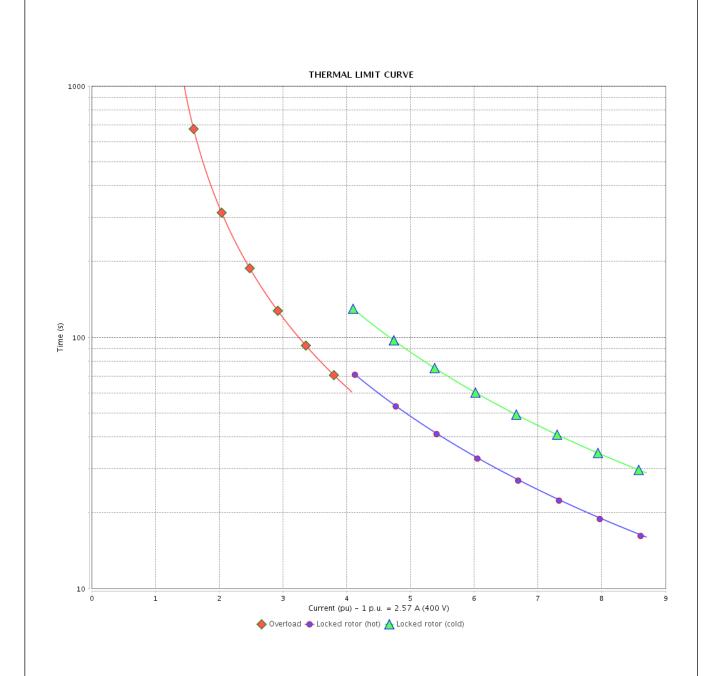


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11458046 00218ET3EF	R145TC-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC	:	: 2.57 A : 8.7	Duty cycle		: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 5.38 ft.lb : 320 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ie :	: 380 %	Temperat		: 80 K	
Rated speed		: 1465 rpm	Design		: B	
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by	13/04/2022				Page 20 / 36	Revision

#### 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

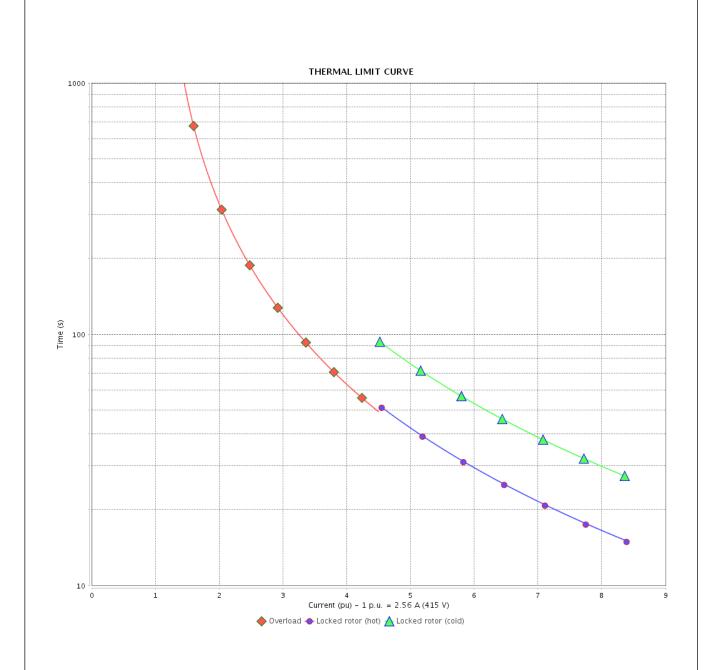


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11458046 00218ET3EF	R145TC-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque		: 2.56 A : 8.4 : 5.38 ft.lb	Moment of Duty cycle Insulation		: 0.1561 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu	que	: 350 % : 409 %	Service fa Temperat	actor	: 1.25 : 80 K	
Rated speed		: 1465 rpm	Design		: B	
Heating constan						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
	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	1		23 / 36	

### Three Phase Induction Motor - Squirrel Cage

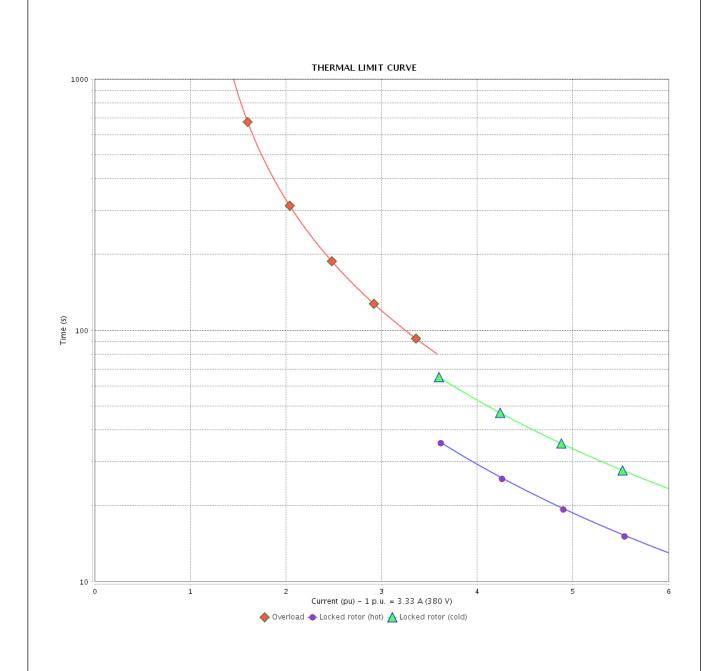


Customer	:				
Product line	: NEMA Premium Efficien Phase		Product code : Catalog # :	11458046 00218ET3EF	R145TC-W22
Performance Rated current	: 380 V 50 Hz 4P IE1 : 3.33 A	Moment o	f inertia (J)	: 0.1561 sq.ft.l	b
LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.0 : 7.32 ft.lb : 220 % : 240 % : 1435 rpm	Duty cycle Insulation Service fa Temperate Design	e class ctor	: Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
Performed by Checked by	W/0000			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			25 / 36	

### Three Phase Induction Motor - Squirrel Cage

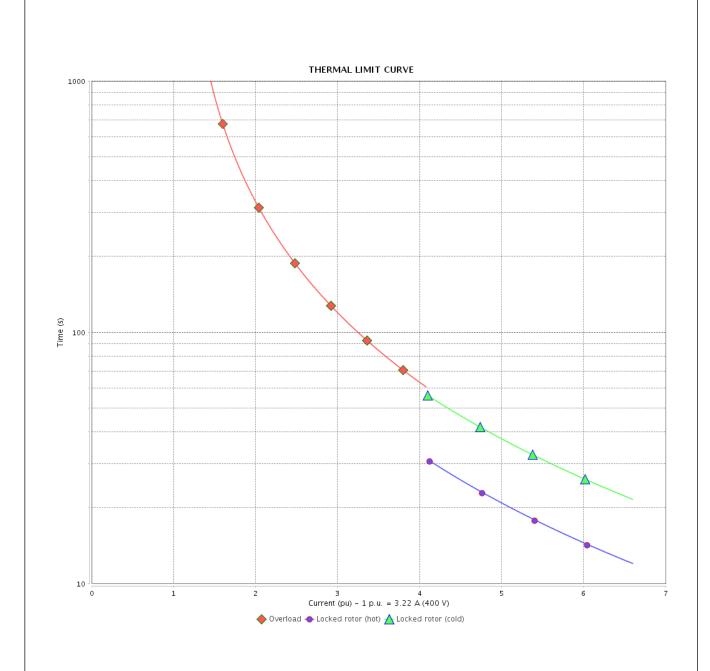


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11458046 00218ET3EF	R145TC-W22
Performance		400 V 50 Hz 4P IE2				
Rated current		3.22 A	Moment o	f inertia (J)	: 0.1561 sq.ft.l	h
LRC	:	6.6	Duty cycle	;	: Cont.(S1)	-
Rated torque		7.29 ft.lb	Insulation		: F	
Locked rotor tord Breakdown torqu		229 % 260 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		1440 rpm	Design	3.0 1100	: B	
Heating constan					,	
Cooling constant	t	01 0				
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				26 / 36	

#### 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

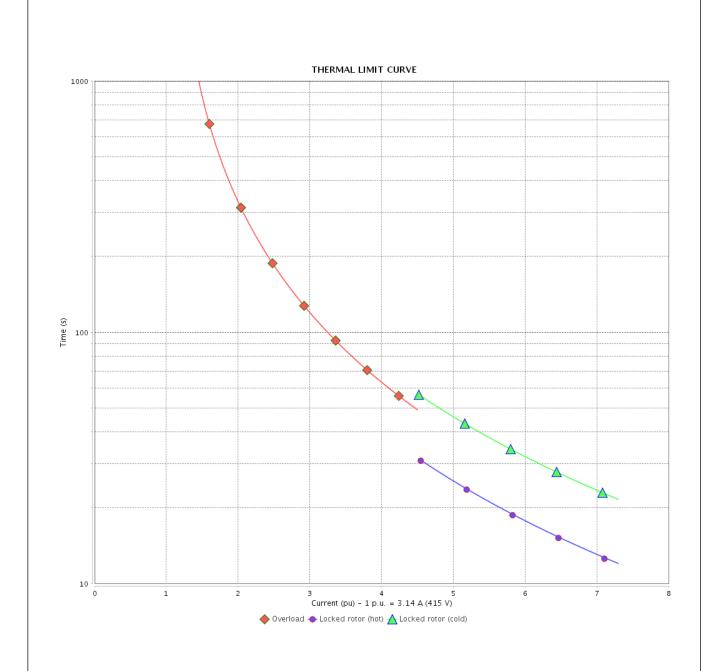


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11458046 00218ET3EF	R145TC-W22
Performance		: 415 V 50 Hz 4P IE2				
Rated current LRC		: 3.14 A : 7.3	Moment of	of inertia (J)	: 0.1561 sq.ft.l : Cont.(S1)	b
Rated torque		: 7.24 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu	ue	: 250 % : 290 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 1450 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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Performed by						
Checked by					Page	Revision
Date	13/04/2022				28 / 36	

### Three Phase Induction Motor - Squirrel Cage



Customer



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

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Produ

Phase

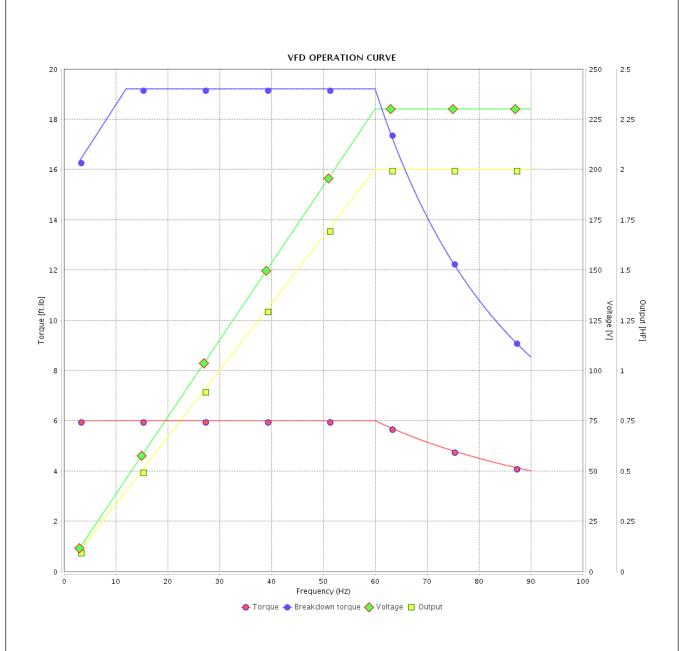
Product code: 11458046

Catalog #: 00218ET3ER145TC-W22

Page

30 / 36

Revision



Performance : 230/460 V 60 Hz 4P Rated current : 5.52/2.76 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.3 : 6.00 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1750 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

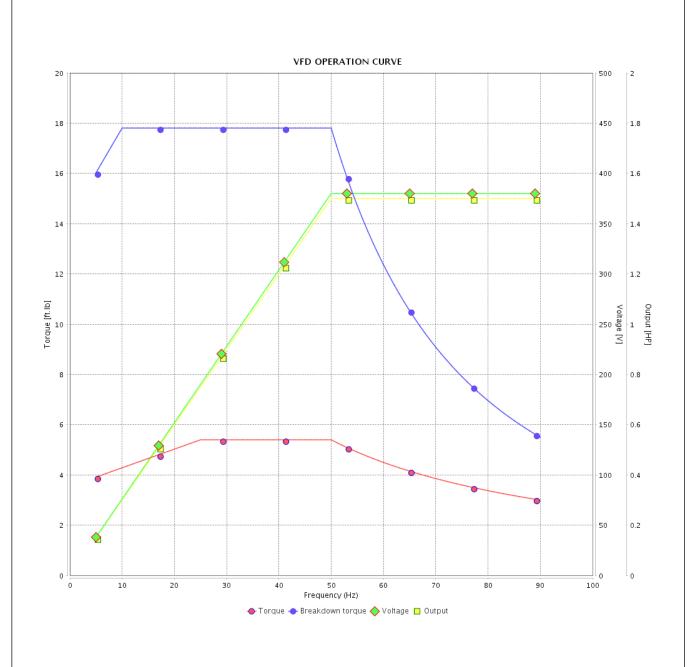
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11458046

Phase



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 2.57 A Mon		Moment o	f inertia (J)	: 0.1561 sq.ft.lb	
LRC	: 8	.2	Duty cycle		: Cont.(S1)	
Rated torque	: 5	.40 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	90 %	Service fa	ctor	: 1.25	
Breakdown torqu	eakdown torque : 330 % Temperature		ıre rise	: 80 K		
Rated speed	: 1	460 rpm	Design		: B	
Rev.	Changes Summary		ту	Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	13/04/2022	1			31 / 36	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

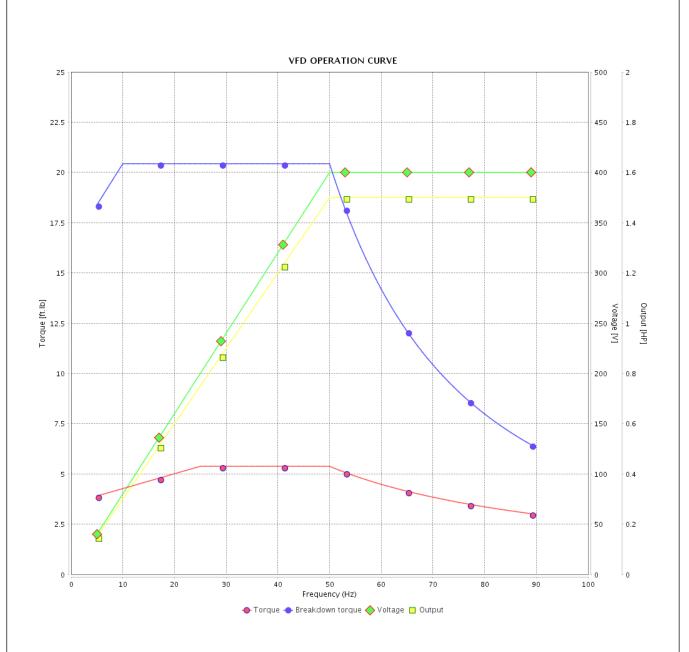
Product code: 11458046

Catalog #: 00218ET3ER145TC-W22

Page

32 / 36

Revision



Performance	: 4	400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	ue ::	2.57 A 8.7 5.38 ft.lb 320 % 380 % 1465 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1561 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	b
Rev.		Changes Summary	'	Performed	Checked	Date
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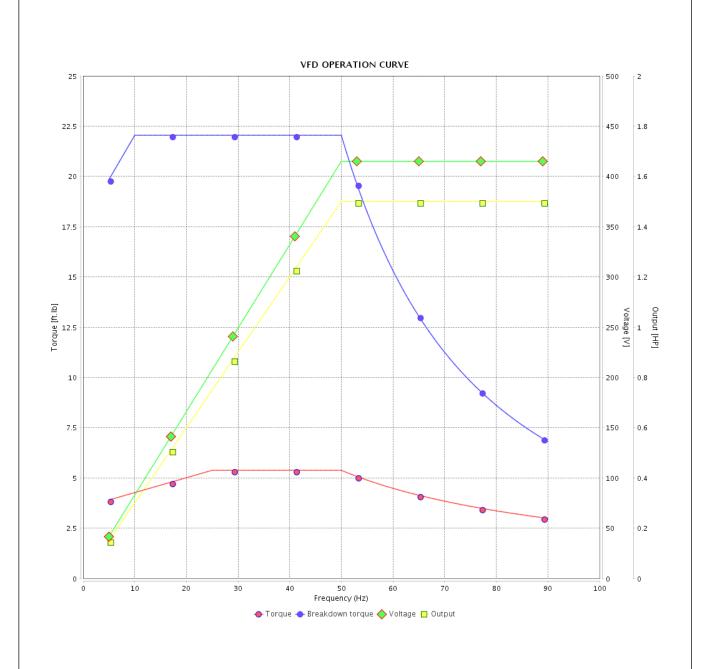
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11458046

Phase



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	Rated current : 2.56 A M		Moment o	f inertia (J)	: 0.1561 sq.ft.lb	
LRC	: 8	.4	Duty cycle	)	: Cont.(S1)	
Rated torque	: 5	.38 ft.lb	Insulation	class	: F	
Locked rotor torque	e :3	50 %	Service fa	ctor	: 1.25	
Breakdown torque : 4		09 %	Temperati	Temperature rise		
Rated speed	: 1	465 rpm	Design		: B	
Rev. Changes Summary		ry	Performed	Checked	Date	
Performed by						
Checked by					Page	Revision
Date	13/04/2022				33 / 36	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

13/04/2022

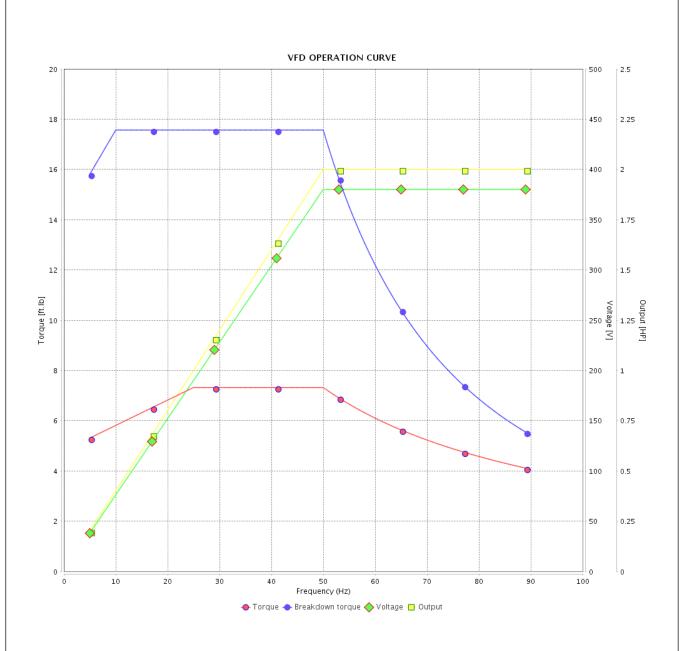
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11458046

Catalog #: 00218ET3ER145TC-W22

34 / 36



Performance : 380 V 50 Hz 4P IE1 Rated current : 3.33 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 7.32 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1435 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

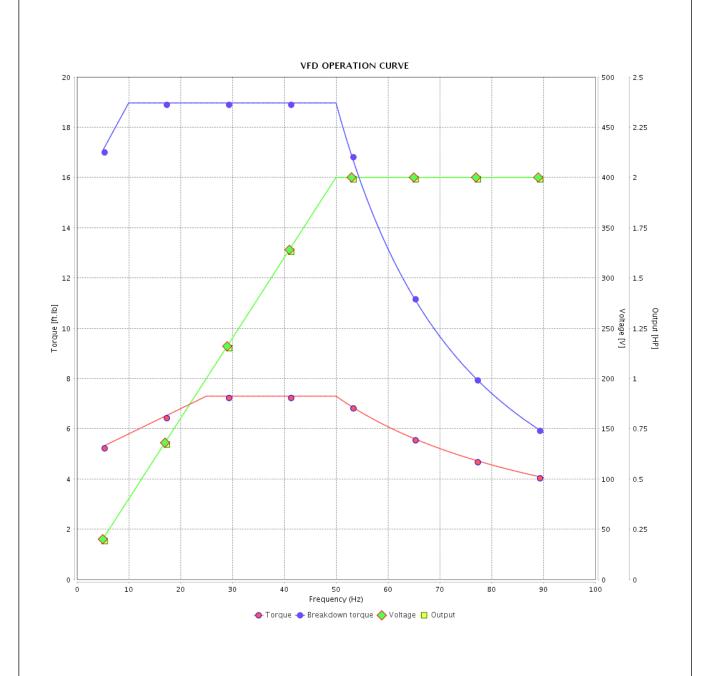
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 11458046

Phase



Performance : 400 V 50 Hz 4P IE2		
Rated current : 3.22 A Moment of inertia (J)	: 0.1561 sq.ft.lb	
LRC : 6.6 Duty cycle	: Cont.(S1)	
Rated torque : 7.29 ft.lb Insulation class	: F	
Locked rotor torque : 229 % Service factor	: 1.25 : 80 K : B	
Breakdown torque : 260 % Temperature rise		
Rated speed : 1440 rpm Design		
Rev. Changes Summary Performed	Checked	Date
Performed by		
Checked by	Page	Revision
Date 13/04/2022	35 / 36	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Date

13/04/2022

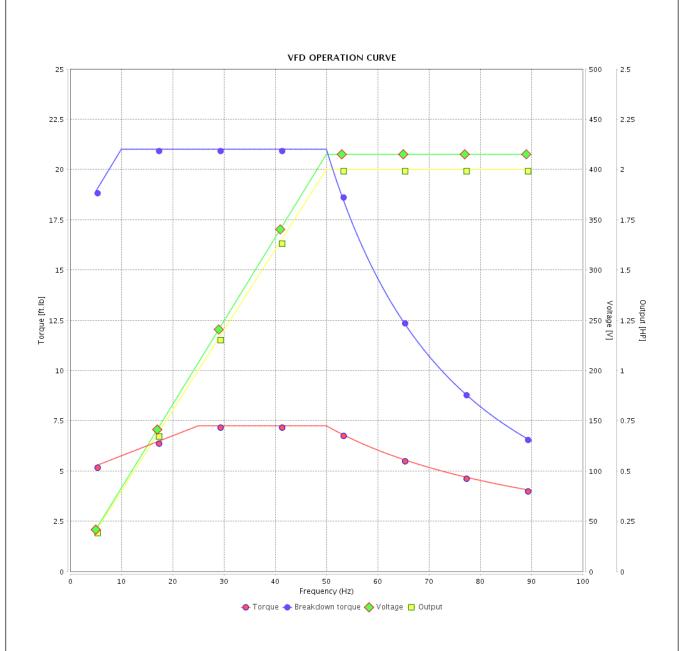
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11458046

Catalog #: 00218ET3ER145TC-W22

36 / 36



Performance : 415 V 50 Hz 4P IE2 Rated current : 3.14 A Moment of inertia (J) : 0.1561 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.3 : 7.24 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

