### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12821880

Phase

Catalog #: 00136ET3ER143TC-W22

Frame : 143TC Cooling method : IC411 - TEFC

Insulation class : F Mounting : W-6

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : 20°C to +40°C Starting method : Direct On Line

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m a s I Approx weight<sup>3</sup> : 39.8 lb

Altitude		: 1000 m.a.s	s.l.	Approx	k. weight³	: 3	9.8 lb	
Protection degree	е	: IP55		Mome	nt of inertia (J)	: 0	.0332 sq.ft.lb	
Output [HP]		1	0.75	0.75	0.75	1	1	1
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		2.88/1.44	1.31	1.30	1.30	1.68	1.65	1.63
L. R. Amperes [A]		23.6/11.8	11.3	11.7	12.2	11.3	11.9	12.6
LRC [A]		8.2x(Code L)	8.6x(Code M)	9.0x(Code M)	9.4x(Code N)	6.7x(Code J)	7.2x(Code K)	7.7x(Code L)
No load current [A]	]	1.42/0.710	0.700	0.750	0.800	0.700	0.750	0.800
Rated speed [RPN	1]	3500	2910	2920	2925	2865	2880	2895
Slip [%]		2.78	3.00	2.67	2.50	4.50	4.00	3.50
Rated torque [ft.lb]		1.50	1.35	1.35	1.35	1.83	1.82	1.81
Locked rotor torqu	e [%]	320	330	370	409	240	270	300
Breakdown torque	[%]	400	400	450	500	280	320	350
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K						
Locked rotor time		39s (cold) 22s (hot)	27s (cold) 15s (hot)					
Noise level <sup>2</sup>		68.0 dB(A)	62.0 dB(A)					
	25%	72.7	69.6	69.0	68.4	75.4	75.4	75.4
Efficiency (%)	50%	75.0	72.9	72.3	71.7	77.0	77.0	77.0
Linciency (70)	75%	79.0	77.6	77.6	77.6	78.5	78.5	78.5
	100%	81.5	81.5	81.5	81.5	80.0	80.0	80.0
	25%	0.39	0.36	0.33	0.30	0.43	0.39	0.37
Power Factor	50%	0.63	0.58	0.53	0.50	0.68	0.63	0.60
1 OWCI I actor	75%	0.74	0.70	0.66	0.63	0.78	0.75	0.72
	100%	0.80	0.78	0.75	0.72	0.85	0.82	0.80
1								

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6205 ZZ 6204 ZZ Max. traction : 35 lb Sealing : V'Ring V'Ring Max. compression : 75 lb

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 3.16A SF 1.15 SFA 3.64A

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

Catalog #: 00136ET3ER143TC-W22

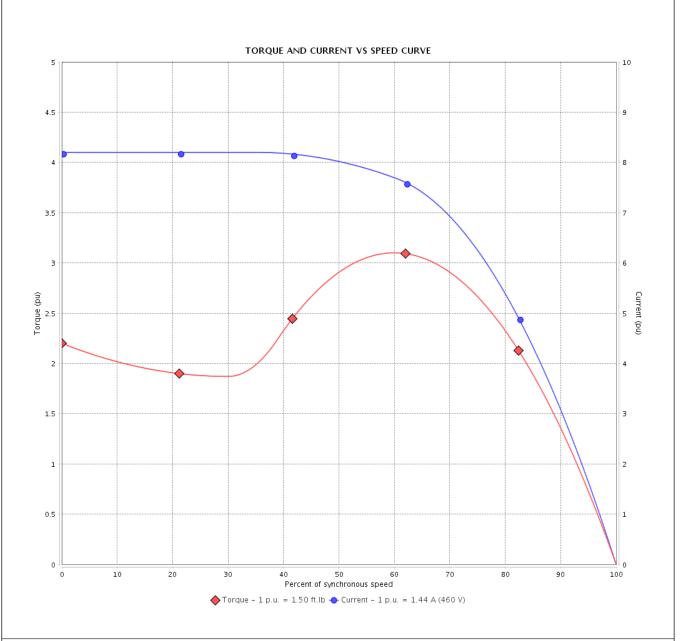
: Cont.(S1)

: F

: 1.25

: 80 K

12821880



 Performance
 : 230/460 V 60 Hz 2P

 Rated current
 : 2.88/1.44 A
 Moment of inertia (J)
 : 0.0332 sq.ft.lb

Rated current : 2.88/1.44 A Moment of inertia (J)

LRC : 8.2 Duty cycle

Rated torque : 1.50 ft.lb Insulation class

Locked rotor torque : 320 % Service factor

Breakdown torque : 400 % Temperature rise

Rated speed : 3500 rpm

Locked rotor time : 39s (cold) 22s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



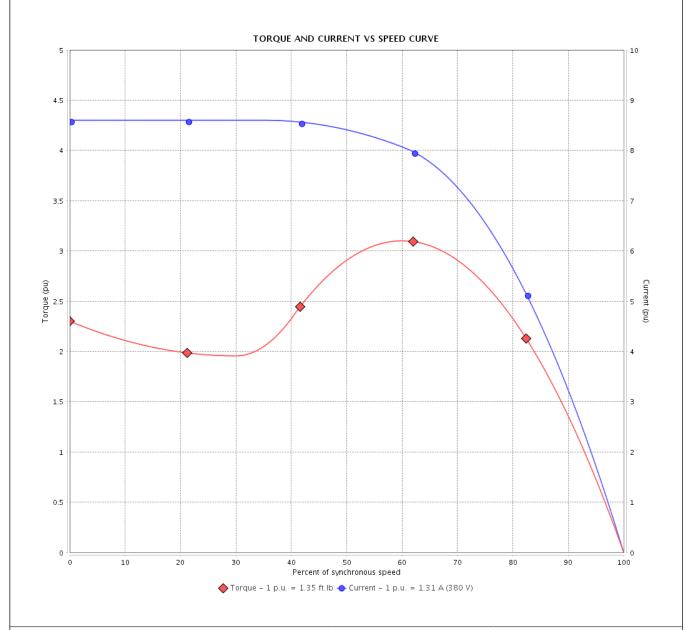
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12821880

Catalog #: 00136ET3ER143TC-W22



Performance : 380 V 50 Hz 2P IE4 Rated current : 1.31 A Moment of inertia (J) : 0.0332 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.35 ft.lb : F Locked rotor torque : 330 % Service factor : 1.25 Breakdown torque : 400 % Temperature rise : 80 K Rated speed : 2910 rpm Locked rotor time : 27s (cold) 15s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



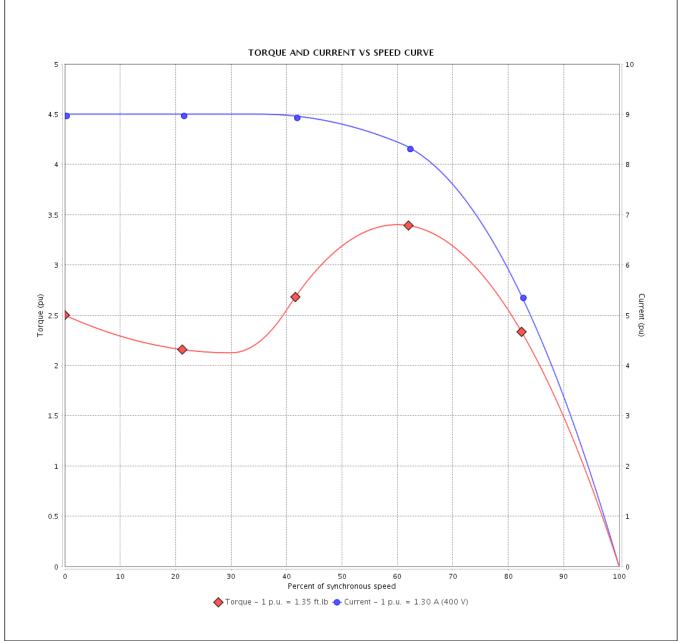
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00136ET3ER143TC-W22

12821880



Performance : 400 V 50 Hz 2P IE4 Rated current : 1.30 A Moment of inertia (J) : 0.0332 sq.ft.lb **LRC** : 9.0 Duty cycle : Cont.(S1) : 1.35 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 370 % : 1.25 Breakdown torque : 450 % Temperature rise : 80 K Rated speed : 2920 rpm

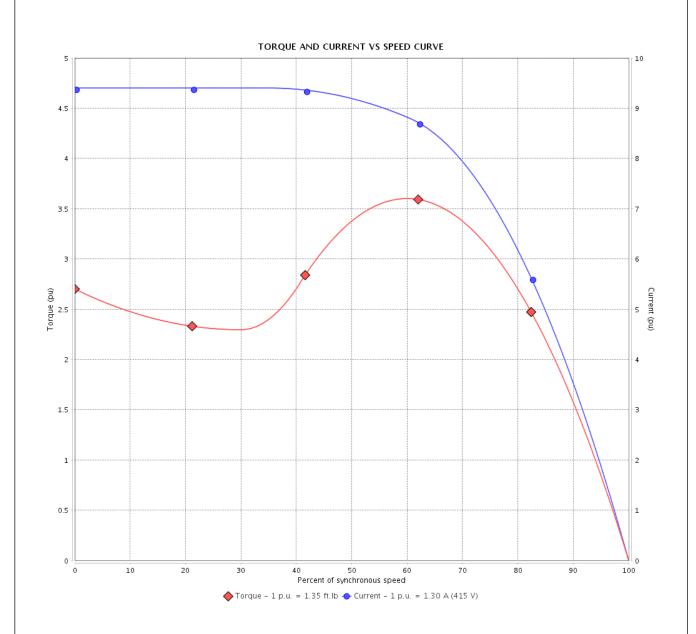
Locked rotor time : 27s (cold) 15s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12821880 Catalog #: 00136ET3ER143TC-W22



Performance : 415 V 50 Hz 2P IE4 Rated current : 1.30 A Moment of inertia (J) : 0.0332 sq.ft.lb **LRC** : 9.4 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 1.35 ft.lb Locked rotor torque : 409 % Service factor : 1.25 Breakdown torque : 500 % Temperature rise : 80 K Rated speed : 2925 rpm

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

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#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-

Product code: 12821880

Catalog #: 00136ET3ER143TC-W22

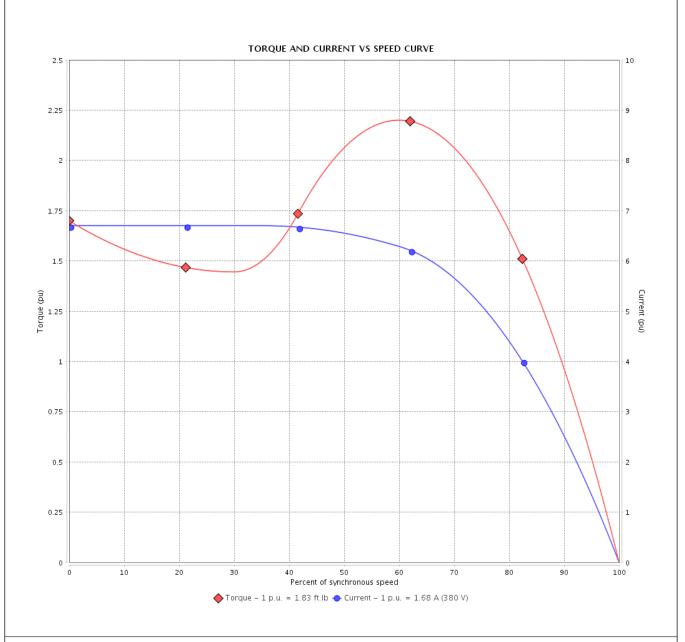
: 0.0332 sq.ft.lb

: Cont.(S1)

: F

: 1.25

: 80 K



Performance : 380 V 50 Hz 2P IE2 Rated current : 1.68 A Moment of inertia (J) **LRC** : 6.7 Duty cycle Insulation class Rated torque : 1.83 ft.lb Locked rotor torque : 240 % Service factor

Locked rotor time

: 280 %

: 2865 rpm

Breakdown torque

Rated speed

: 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page 6/36 11/04/2022 Date

Temperature rise



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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12821880 Catalog #: 00136ET3ER143TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 1.82 ft.lb ◆ Current - 1 p.u. = 1.65 A (400 V) Performance : 400 V 50 Hz 2P IE2 Rated current : 1.65 A Moment of inertia (J) : 0.0332 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 1.82 ft.lb Service factor Locked rotor torque : 270 % : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 2880 rpm Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary** 

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#### Three Phase Induction Motor - Squirrel Cage



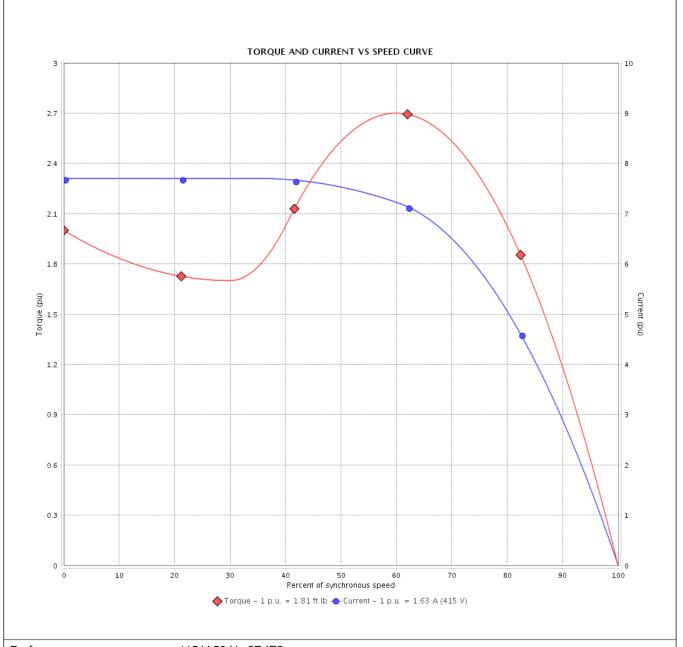
Customer :

Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 12821880

Catalog #: 00136ET3ER143TC-W22



Performance : 415 V 50 Hz 2P IE2

Rated current : 1.63 A Moment of inertia (J) : 0.033

LRC : 7.7
Rated torque : 1.81 ft.lb
Locked rotor torque : 300 %
Breakdown torque : 350 %
Rated speed : 2895 rpm

Moment of inertia (J) : 0.0332 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F

Service factor : 1.25
Temperature rise : 80 K

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

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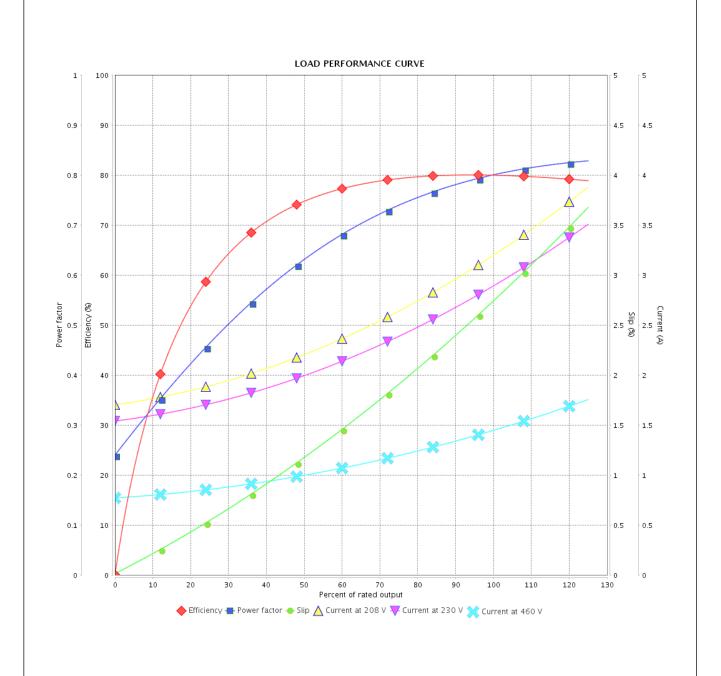
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Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.88/1.44 A : 8.2 : 1.50 ft.lb : 320 % : 400 % : 3500 rpm	Moment of ine Duty cycle Insulation clas Service factor Temperature r	ss	: 0.0332 sq.ft.lt : Cont.(S1) : F : 1.25 : 80 K	0
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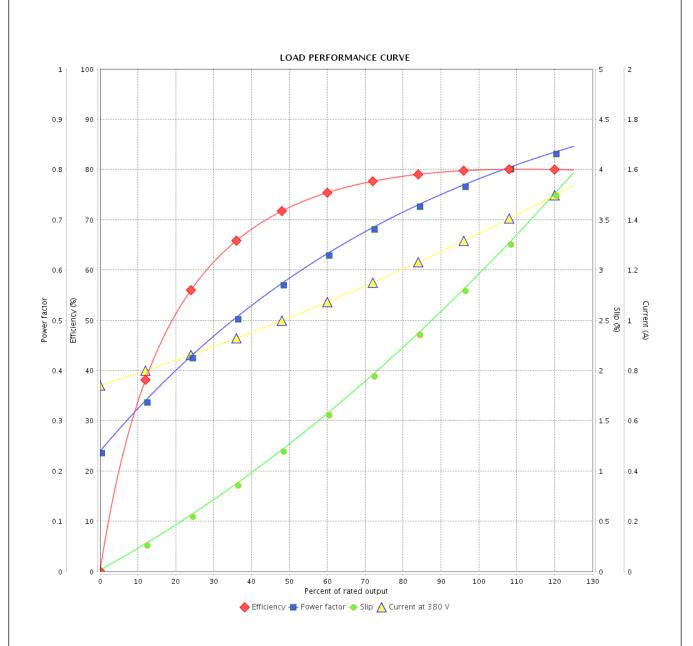
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance : 380 V 50 Hz 2P IE4 : 1.31 A Rated current Moment of inertia (J) : 0.0332 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.6 : 1.35 ft.lb Insulation class Rated torque : F Locked rotor torque : 330 % Service factor : 1.25 Breakdown torque : 400 % Temperature rise : 80 K Rated speed : 2910 rpm

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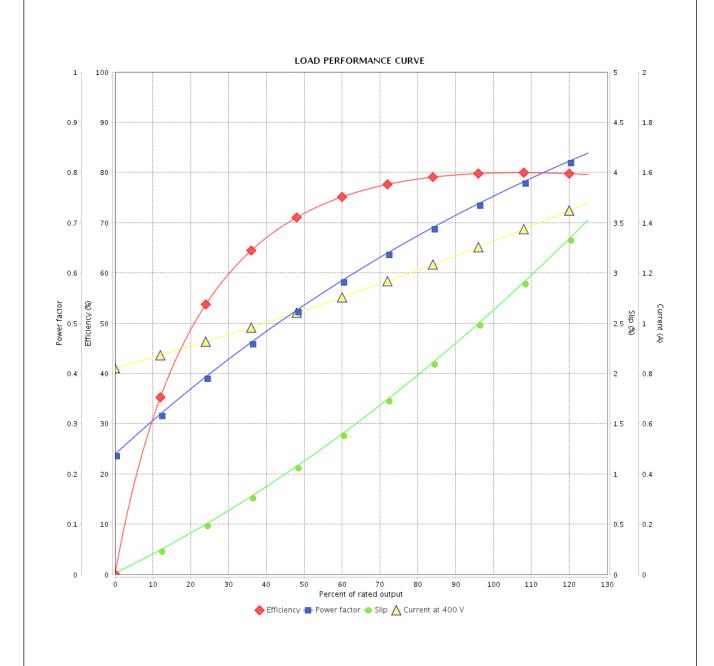
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Performance	: 400 V 50 Hz 2P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.30 A : 9.0 : 1.35 ft.lb : 370 % : 450 % : 2920 rpm	Moment of Duty cycle Insulation Service fa	class ctor	: 0.0332 sq.ft. : Cont.(S1) : F : 1.25 : 80 K	lb
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#### Three Phase Induction Motor - Squirrel Cage



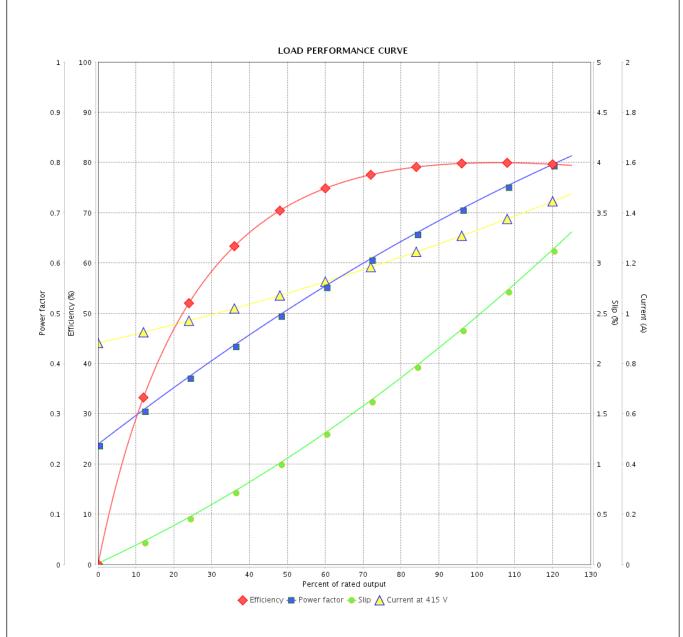
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

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12821880



Performance : 415 V 50 Hz 2P IE4 : 1.30 A Rated current Moment of inertia (J) : 0.0332 sq.ft.lb **LRC** : 9.4 Duty cycle : Cont.(S1) : 1.35 ft.lb Insulation class Rated torque : F Locked rotor torque : 409 % Service factor : 1.25 Breakdown torque : 500 % Temperature rise : 80 K Rated speed : 2925 rpm

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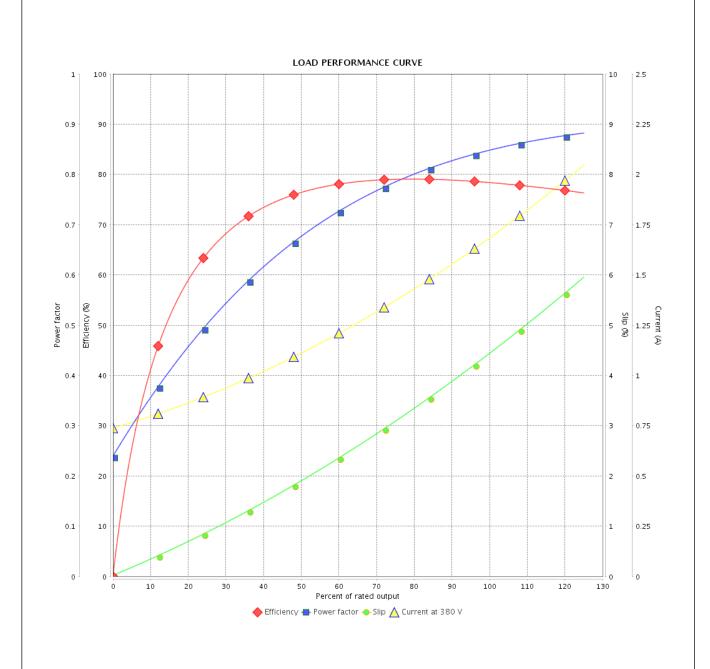


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821880

Phase

Catalog #: 00136ET3ER143TC-W22



Rated current : 1.68 A	Performance		: 380 V 50 Hz 2P IE2	2			
Rev. Changes Summary Performed Checked Date	LRC Rated torque Locked rotor tord Breakdown torqu	que ie	: 6.7 : 1.83 ft.lb : 240 % : 280 %	Duty cycle Insulation Service fa	class ctor	: Cont.(S1) : F : 1.25	.lb
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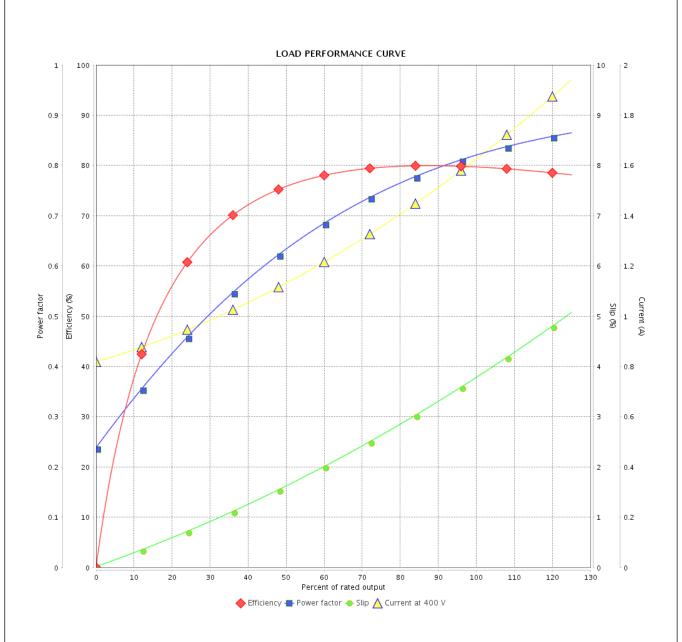
Customer :

Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 12821880

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Performance : 400 V 50 Hz 2P IE2 : 1.65 A Rated current Moment of inertia (J) : 0.0332 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.2 : 1.82 ft.lb Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 2880 rpm

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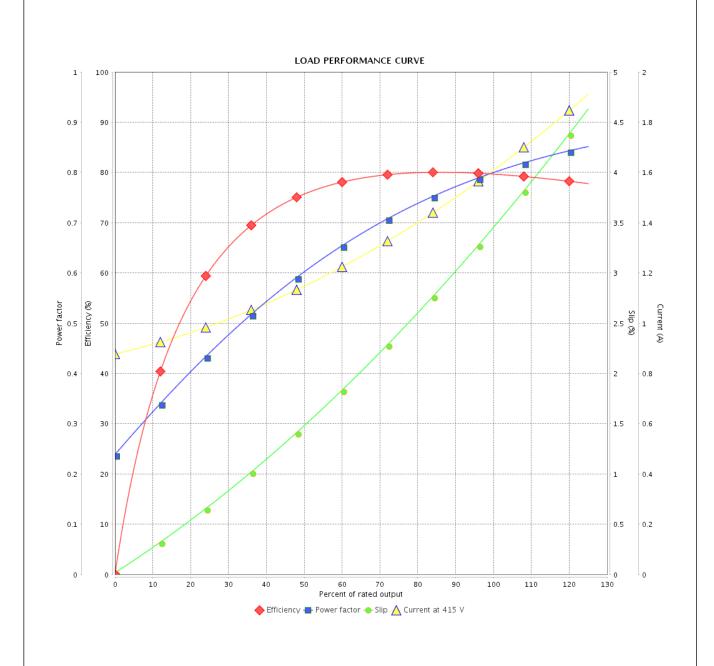
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821880

Phase

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Performance	: 415 V 50 Hz 2P IE2				
Rated current	Rated current : 1.63 A		Moment of inertia (J)		lb
LRC	: 7.7	Duty cycle		: Cont.(S1)	
Rated torque	: 1.81 ft.lb	Insulation	class	: F ` ´	
Locked rotor torque	: 300 %	Service factor		: 1.25	
Breakdown torque	: 350 %	Temperature rise		: 80 K	
Rated speed	: 2895 rpm	·			
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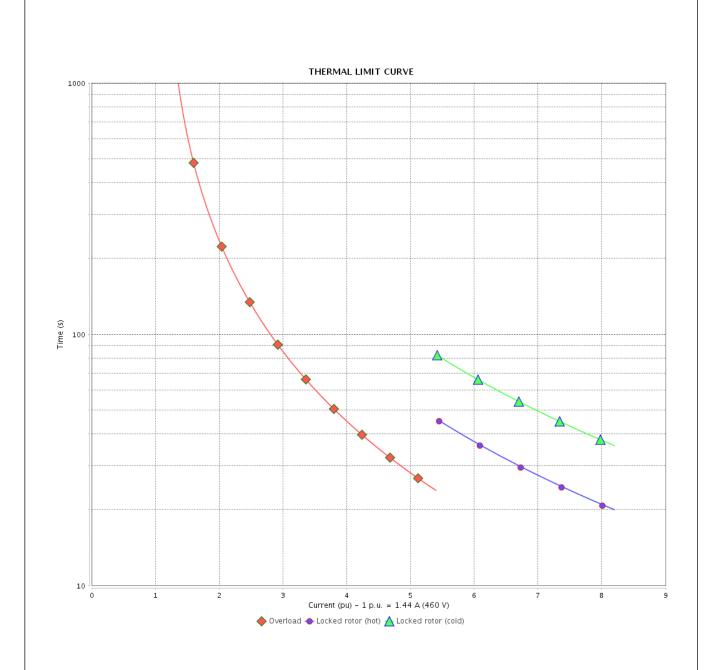


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12821880	
	Р	hase	1	Catalog # :	00136ET3EF	R143TC-W22
Performance	. 24	30/460 V 60 Hz 2P				
Rated current		.88/1.44 A	Moment o	f inertia (J)	: 0.0332 sq.ft.l	b
LRC	: 8.	2	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torque		.50 ft.lb 20 %	Insulation Service fa		: F : 1.25	
Breakdown torque	e : 40	00 %	Temperatu		: 80 K	
Rated speed	: 38	500 rpm				
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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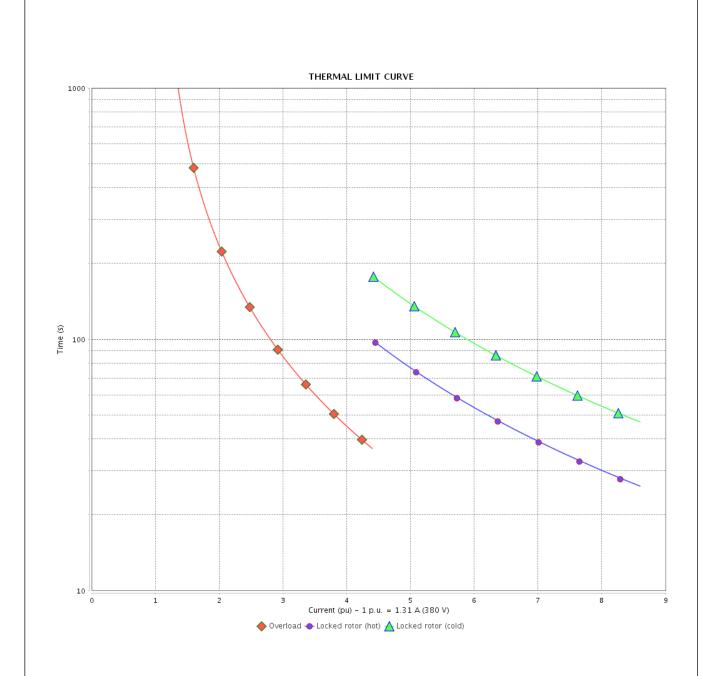


Customer	:			
Product line	: NEMA Premium Efficiency <sup>-</sup> Phase		12821880	2142TC W22
		Catalog # :	00136ET3EF	(14310-7722
Performance	: 380 V 50 Hz 2P IE4			
Rated current	: 1.31 A	Moment of inertia (J)	: 0.0332 sq.ft.l	b
LRC	: 8.6	Duty cycle	: Cont.(S1)	
Rated torque Locked rotor torque	: 1.35 ft.lb : 330 %	Insulation class Service factor	: F : 1.25	
Breakdown torque	: 400 %	Temperature rise	: 80 K	
Rated speed	: 2910 rpm			
Heating constant				
Cooling constant				
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## Three Phase Induction Motor - Squirrel Cage



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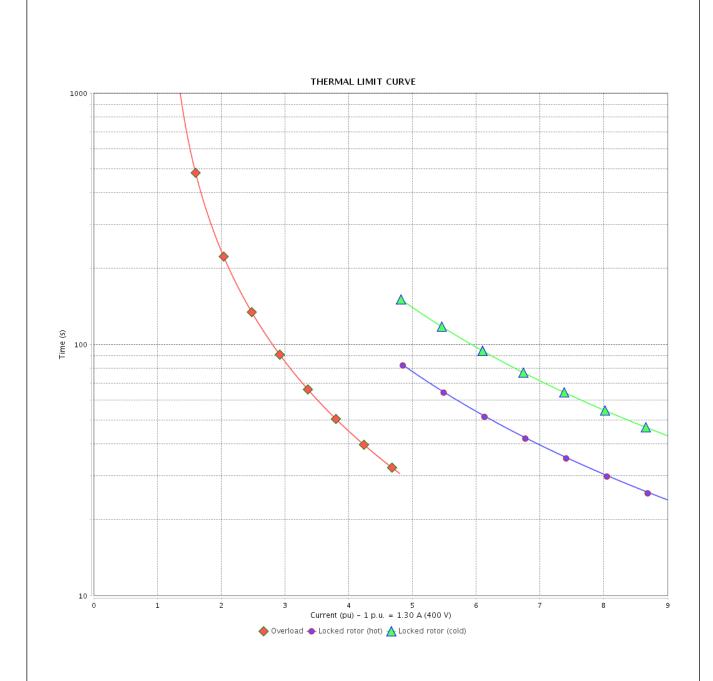


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12821880	
	P	hase		Catalog # :	00136ET3EF	R143TC-W22
Performance		00 V 50 Hz 2P IE4				
Rated current LRC	: 1. : 9.	.30 A .0	Moment of Duty cycle	f inertia (J)	: 0.0332 sq.ft.l : Cont.(S1)	b
Rated torque	: 1.	35 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		70 % 50 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		920 rpm	Tomperati	1100	. 00 K	
Heating constant						
Cooling constant						
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## Three Phase Induction Motor - Squirrel Cage



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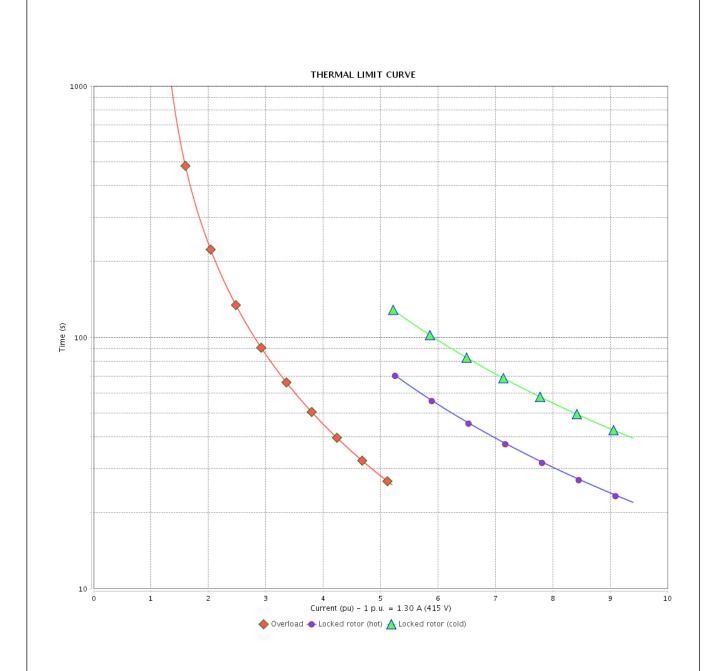


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12821880 00136ET3EF	R143TC-W22
Performance	:	: 415 V 50 Hz 2P IE4				
Rated current LRC Rated torque	:	: 1.30 A : 9.4 : 1.35 ft.lb	Duty cycle Insulation	class	: 0.0332 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu Rated speed	ue :	: 409 % : 500 % : 2925 rpm	Service fa Temperat		: 1.25 : 80 K	
Heating constan	t					
Cooling constant	t	Changes Summary		Performed	Checked	Date
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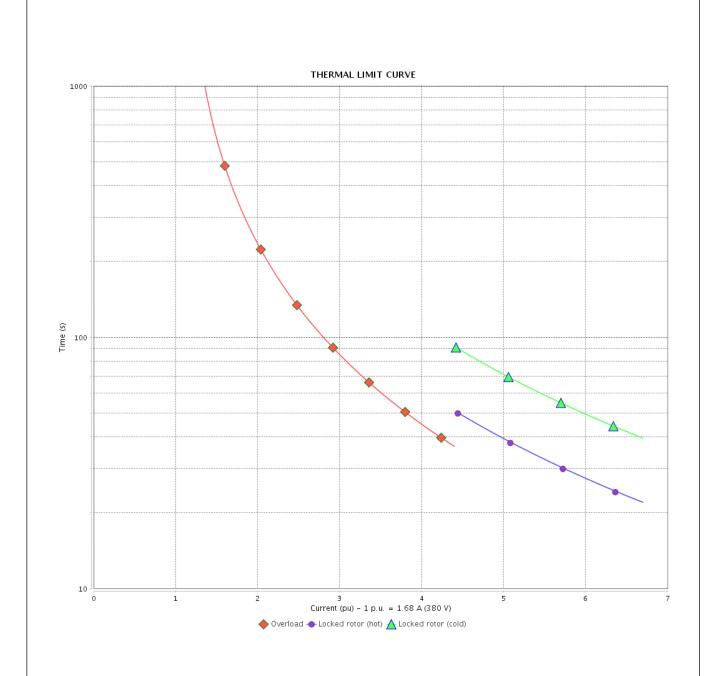


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12821880	
	Р	hase		Catalog # :	00136ET3EF	R143TC-W22
				-		
Performance	· 38	80 V 50 Hz 2P IE2				
Rated current		.68 A	Moment o	f inertia (J)	: 0.0332 sq.ft.l	b
LRC	: 6. : 1	.7 .83 ft.lb	Duty cycle	<b>;</b>	: Cont.(S1) : F	
Rated torque Locked rotor torque	e : 24	40 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed	: 28	80 % 865 rpm	Temperatu	ıre rise	: 80 K	
	. 20	865 rpm				
Heating constant Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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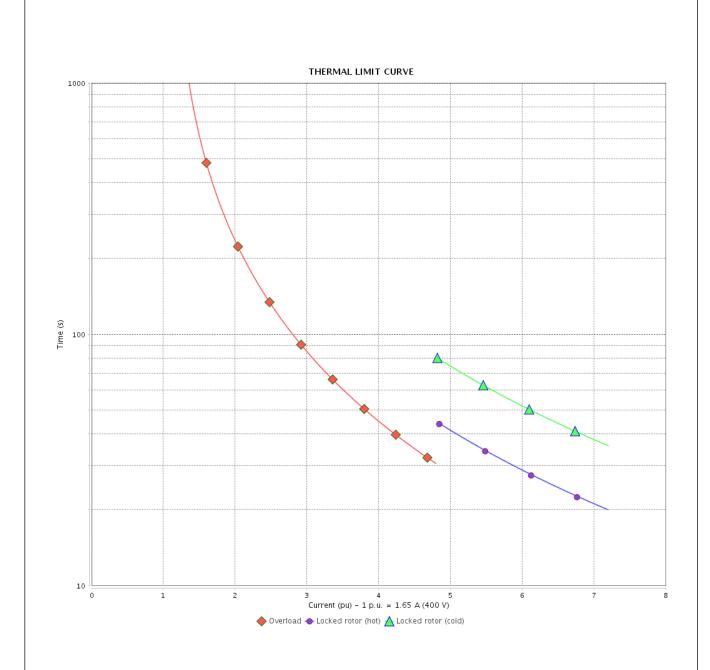


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12821880 00136ET3ER	143TC-W22
Performance		: 400 V 50 Hz 2P IE2				
Rated current LRC		: 1.65 A : 7.2	Moment o	of inertia (J)	: 0.0332 sq.ft.ll : Cont.(S1)	D
Rated torque	:	: 1.82 ft.lb	Insulation	class	: F	
Locked rotor tord		: 270 %	Service fa		: 1.25	
Breakdown torqu Rated speed		: 320 % : 2880 rpm	Temperat	ure rise	: 80 K	
Heating constant						
Cooling constant	l	Change - Comm		De-f	Obl !	D-4-
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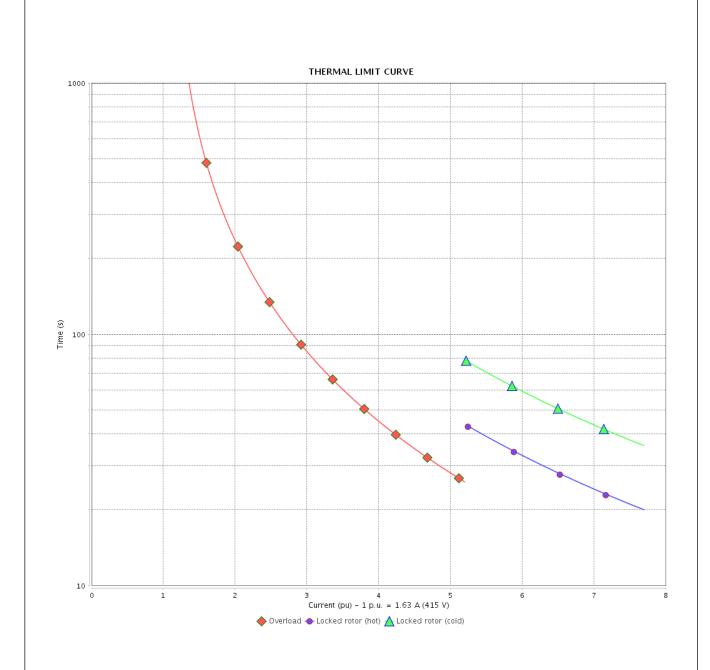


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12821880	
	Р	hase		Catalog # :	00136FT3FF	R143TC-W22
					0010021021	(11010 1122
Performance	· 4·	15 V 50 Hz 2P IE2				
Rated current		.63 A	Moment o	f inertia (J)	: 0.0332 sq.ft.l	b
LRC	: 7.	.7	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torqu		.81 ft.lb 00 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 3	50 %	Temperatu		: 80 K	
Rated speed	: 28	895 rpm				
Heating constant						
Cooling constant		Changas Summani		Performed	Charked	Doto
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## Three Phase Induction Motor - Squirrel Cage



Customer



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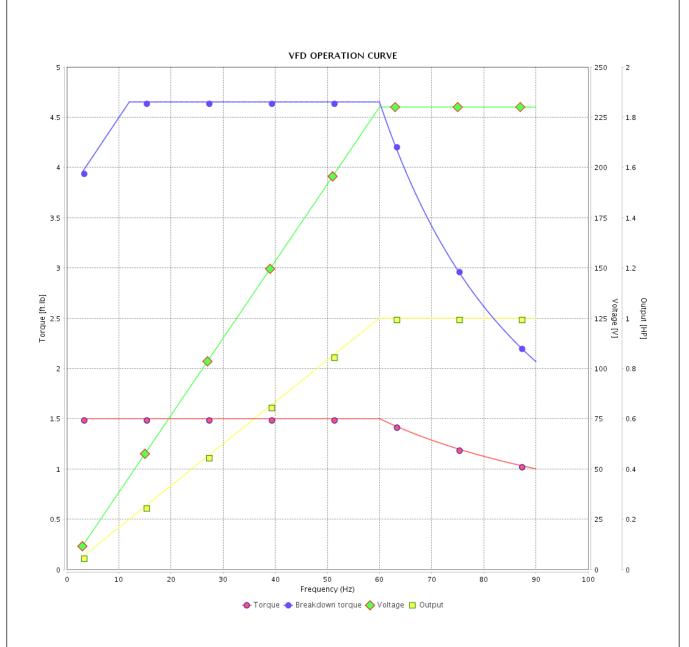
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12821880

Catalog #: 00136ET3ER143TC-W22



Performance : 230/460 V 60 Hz 2P : 2.88/1.44 A Rated current Moment of inertia (J) : 0.0332 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.50 ft.lb : F : 320 % Locked rotor torque Service factor : 1.25 Breakdown torque : 400 % Temperature rise : 80 K Rated speed : 3500 rpm

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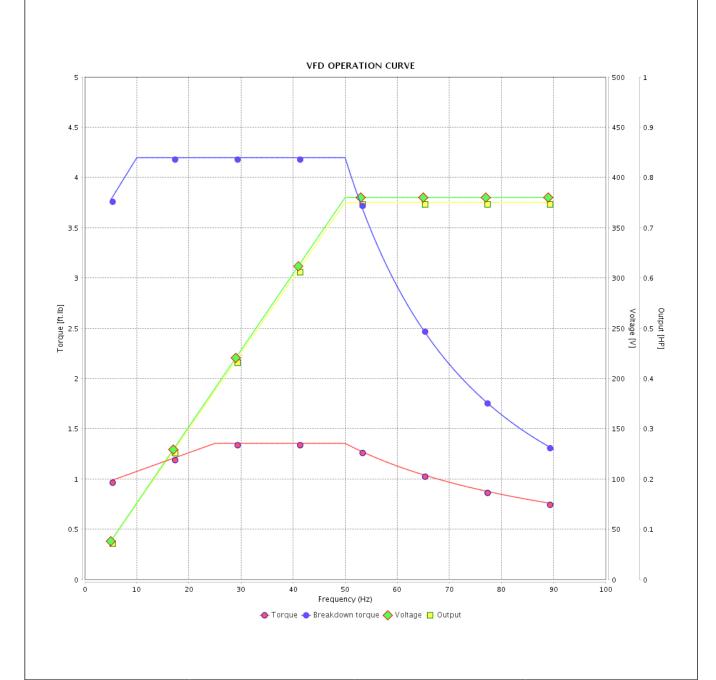


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821880

Phase

Catalog #: 00136ET3ER143TC-W22



Performance : 380 V 50 Hz 2P IE4

Rated current : 1.31 A Moment of inertia (J) : 0.0332 sq.ft.lb

**LRC** : 8.6 Duty cycle : Cont.(S1) : 1.35 ft.lb Insulation class : F Rated torque Locked rotor torque : 330 % Service factor : 1.25 Breakdown torque : 400 % Temperature rise : 80 K Rated speed : 2910 rpm

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#### Three Phase Induction Motor - Squirrel Cage



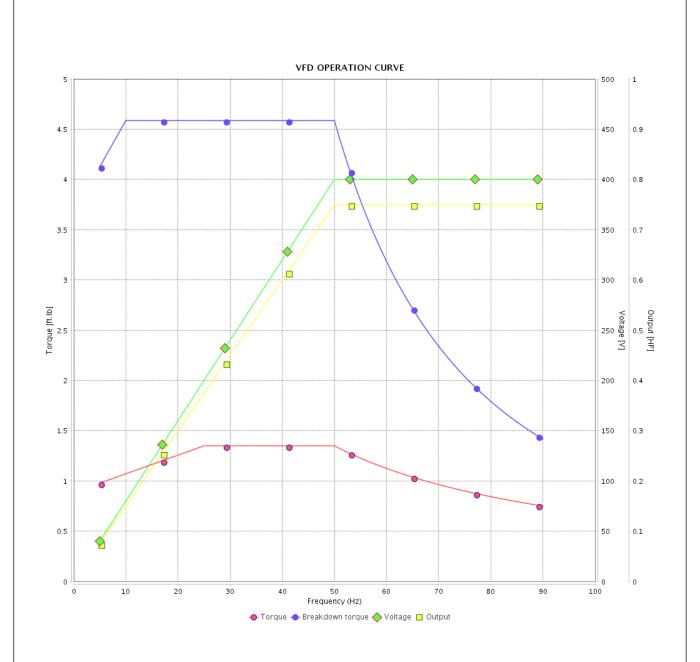
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00136ET3ER143TC-W22

12821880



Performance : 400 V 50 Hz 2P IE4 : 1.30 A Rated current Moment of inertia (J) : 0.0332 sq.ft.lb **LRC** : 9.0 Duty cycle : Cont.(S1) : 1.35 ft.lb Insulation class : F Rated torque Locked rotor torque : 370 % Service factor : 1.25 Breakdown torque : 450 % Temperature rise : 80 K Rated speed : 2920 rpm

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#### Three Phase Induction Motor - Squirrel Cage

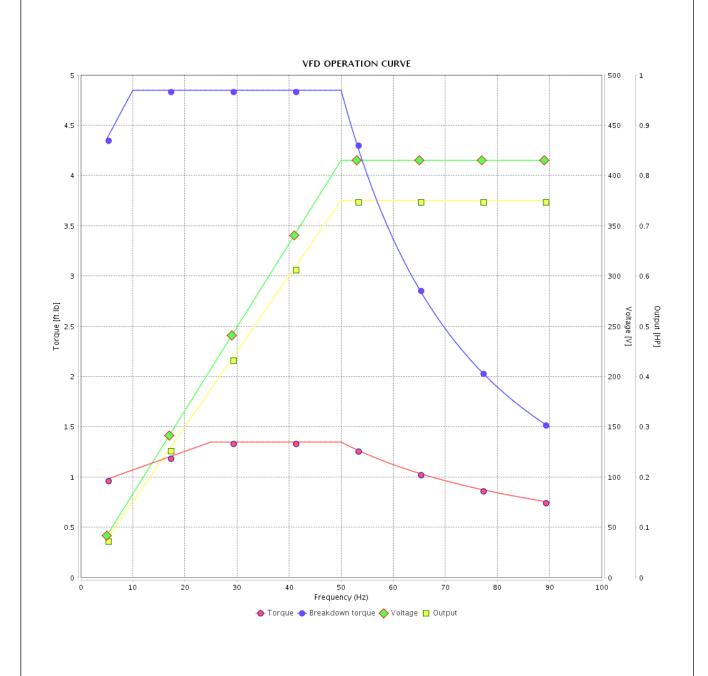


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821880

Phase

Catalog #: 00136ET3ER143TC-W22



Performance : 415 V 50 Hz 2P IE4 : 1.30 A Rated current Moment of inertia (J) : 0.0332 sq.ft.lb **LRC** : 9.4 Duty cycle : Cont.(S1) : 1.35 ft.lb : F Rated torque Insulation class Locked rotor torque : 409 % Service factor : 1.25 Breakdown torque : 500 % Temperature rise : 80 K Rated speed : 2925 rpm

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#### Three Phase Induction Motor - Squirrel Cage



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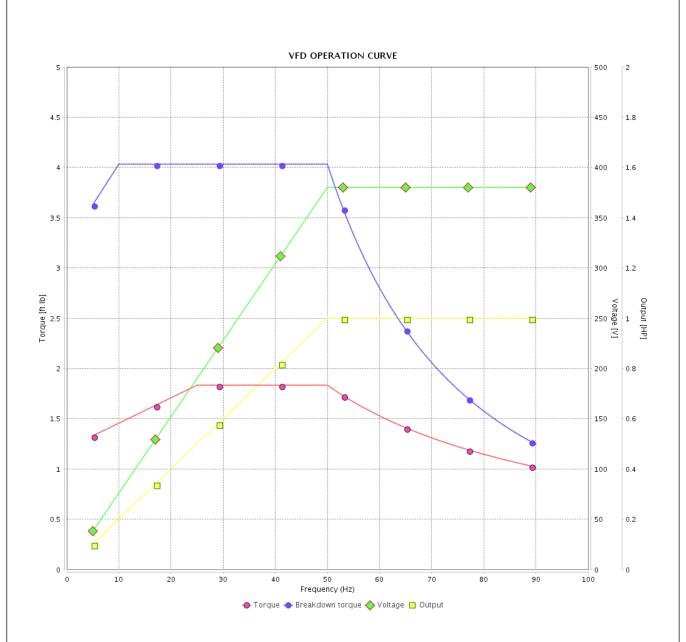
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12821880

Catalog #: 00136ET3ER143TC-W22

: 0.0332 sq.ft.lb



Performance : 380 V 50 Hz 2P IE2

Rated current : 1.68 A Moment of inertia (J)
LRC : 6.7 Duty cycle

LRC: 6.7Duty cycle: Cont.(S1)Rated torque: 1.83 ft.lbInsulation class: FLocked rotor torque: 240 %Service factor: 1.25Breakdown torque: 280 %Temperature rise: 80 K

Rated speed : 2865 rpm

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### Three Phase Induction Motor - Squirrel Cage

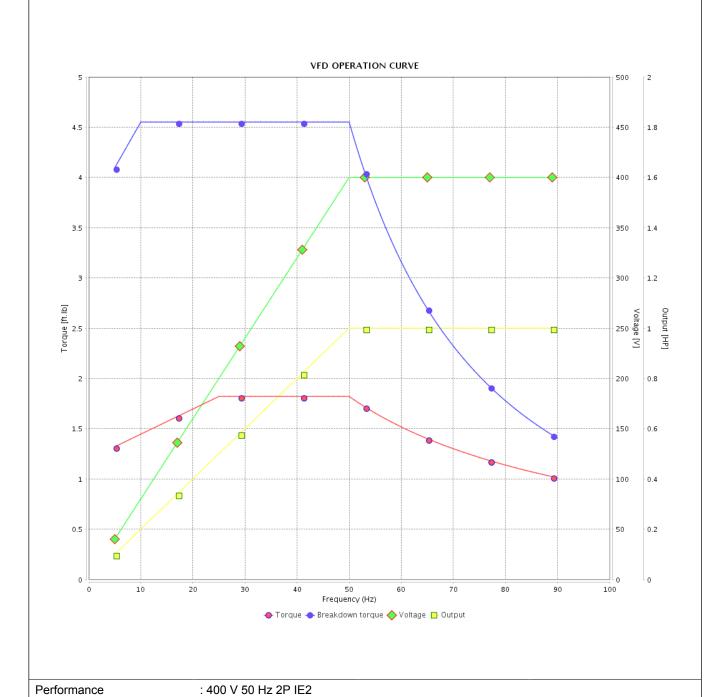


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12821880

Phase

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Rated current LRC Rated torque Locked rotor torque Breakdown torque		1.65 A 7.2 1.82 ft.lb 270 % 320 %	Moment of Duty cycle Insulation Service fa	class ctor	: 0.0332 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K	
Rated speed	:	2880 rpm				
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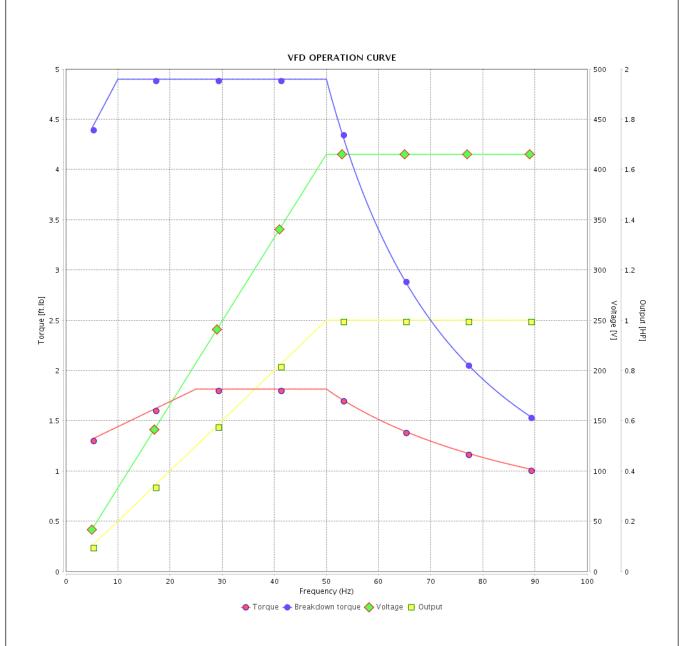
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 12821880

Catalog #: 00136ET3ER143TC-W22



Performance : 415 V 50 Hz 2P IE2

Rated current : 1.63 A Moment of inertia (J) : 0.0332 sq.ft.lb LRC : 7.7 Duty cycle : Cont.(S1)

Rated torque : 1.81 ft.lb Insulation class : F
Locked rotor torque : 300 % Service factor : 1.25
Breakdown torque : 350 % Temperature rise : 80 K

Rated speed : 2895 rpm

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