DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11165651

Phase

Catalog #: 12512ET3ERB445T-W22

Frame : 444/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

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

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 1814 lb

Protection degre	e	: IP55		Momer	nt of inertia (J)) :1	04 sq.ft.lb	
Design		: B						
Output [HP]		125	100	100	100	125	125	125
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		286/143	143	138	130	172	165	160
L. R. Amperes [A]		1830/915	915	980	991	877	941	992
LRC [A]		6.4x(Code	6.4x(Code	7.1x(Code H)	7.6x(Code J)	5.1x(Code E)	5.7x(Code F)	6.2x(Code
		G)	G)					G)
No load current [A]	112/56.0	55.4	59.3	62.3	55.4	59.3	62.3
Rated speed [RPI	<i>/</i> I]	1185	985	985	985	980	980	985
Slip [%]		1.25	1.50	1.50	1.50	2.00	2.00	1.50
Rated torque [ft.lb]		554	533	533	533	670	670	666
Locked rotor torqu	e [%]	210	200	229	250	160	180	200
Breakdown torque	[%]	240	240	260	290	190	210	229
Service factor		1.15	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		34s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)
		19s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)
Noise level ²		69.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)	65.0 dB(A)
	25%	95.2	94.9	94.8	94.8	95.7	95.7	95.7
Efficiency (9/)	50%	95.0	94.8	94.7	94.7	95.0	95.0	95.0
Efficiency (%)	75%	95.4	94.9	94.9	95.1	94.5	94.5	95.0
	100%	95.0	94.6	94.6	94.8	93.6	93.6	94.1
	25%	0.45	0.43	0.40	0.38	0.51	0.47	0.44
Dower Footer	50%	0.70	0.68	0.65	0.62	0.76	0.73	0.70
Power Factor	75%	0.79	0.79	0.77	0.75	0.82	0.81	0.79
	100%	0.83	0.84	0.83	0.81	0.85	0.84	0.83

Drive end Non drive end Foundation loads

Bearing type : NU-319 C3 6316 C3 Max. traction : 3179 lb Sealing : WSeal WSeal Max. compression : 4993 lb Lubrication interval : 9000 h 16000 h

Lubricant amount : 45 g 34 g
Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 316A SF 1.00 SFA 316A

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



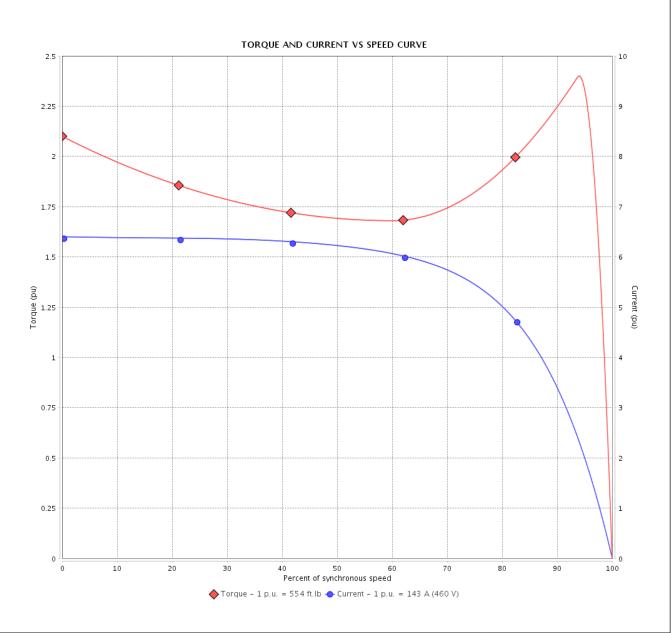
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11165651

Catalog #: 12512ET3ERB445T-W22



Performance : 230/460 V 60 Hz 6P Rated current : 286/143 A Moment of inertia (J) : 104 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 554 ft.lb Insulation class Rated torque : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

Locked rotor time : 34s (cold) 19s (hot)

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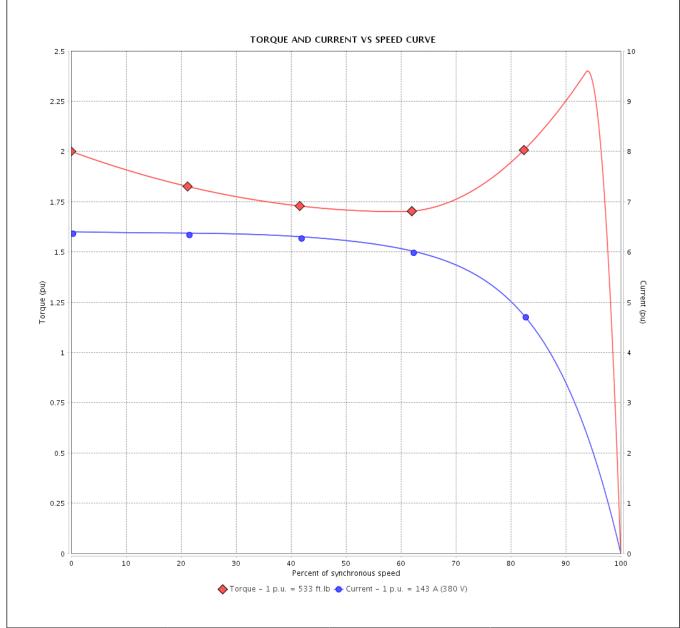
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11165651

Catalog #: 12512ET3ERB445T-W22



Performance	: 380 V 50 Hz 6P IE3		
Rated current	: 143 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 533 ft.lb	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B
Locked roter time	: 27s (sold) 15s (hot)	I	

LOCKEU TOLOT LITTLE	. 2	73 (Cold) 133 (110t)			
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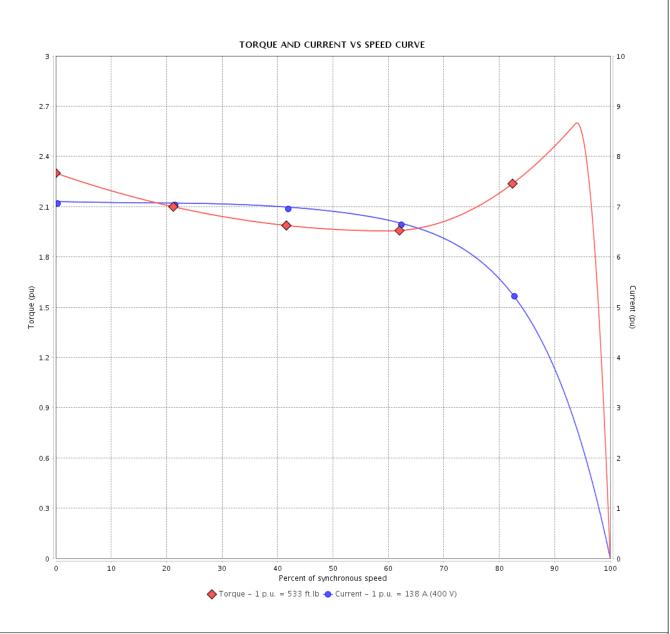
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 12512ET3ERB445T-W22

11165651



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 138 A	Moment of inertia (J)	: 104 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 533 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B
Looked reter time	: 27a (aald) 15a (bat)		

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: 11165651 Catalog #: 12512ET3ERB445T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3

Performance : 415 V 50 Hz 6P IE3 Rated current : 130 A Moment of inertia (J) : 104 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) : 533 ft.lb Insulation class : F Rated torque : 250 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 290 % Temperature rise : B Rated speed : 985 rpm Design

Percent of synchronous speed ◆ Torque - 1 p.u. = 533 ft.lb ◆ Current - 1 p.u. = 130 A (415 V)

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

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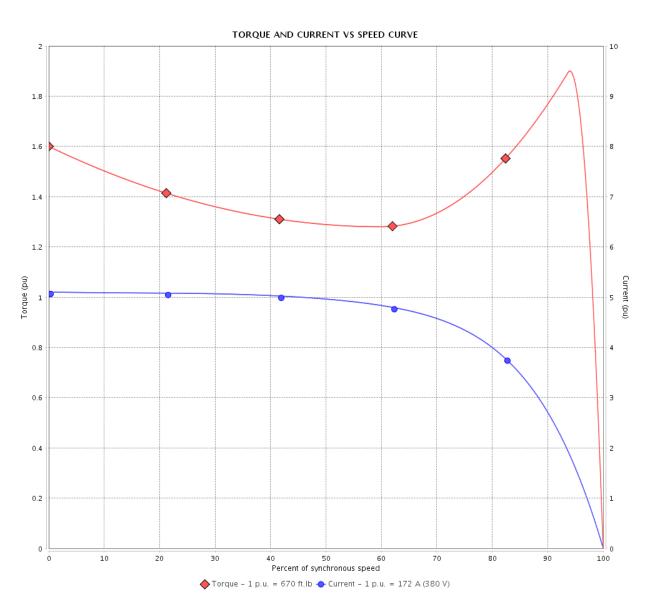


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11165651

Phase

Catalog #: 12512ET3ERB445T-W22



Performance	: 380 V 50 Hz 6P IE1			
Rated current	: 172 A	Moment of inertia (J)	: 104 sq.ft.lb	
LRC	: 5.1	Duty cycle	: Cont.(S1)	
Rated torque	: 670 ft.lb	Insulation class	: F	
Locked rotor torque	: 160 %	Service factor	: 1.00	
Breakdown torque	: 190 %	Temperature rise	: 105 K	
Rated speed	: 980 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (bot)			

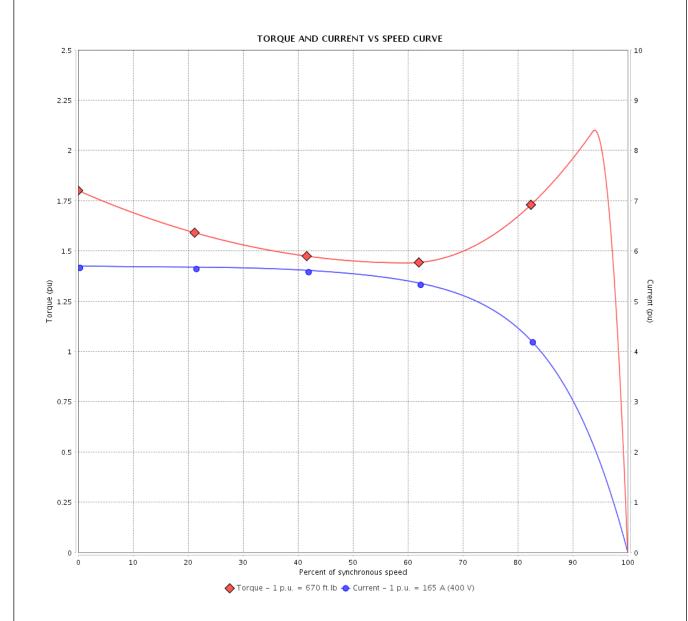
Locked rotor time : 27s (cold) 15s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11165651 Catalog #: 12512ET3ERB445T-W22



Performance : 400 V 50 Hz 6P IE1 Rated current : 165 A Moment of inertia (J) : 104 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) : 670 ft.lb Insulation class : F Rated torque : 1.00 Locked rotor torque : 180 % Service factor Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 980 rpm Design : B Locked rotor time : 27s (cold) 15s (hot)

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Three Phase Induction Motor - Squirrel Cage



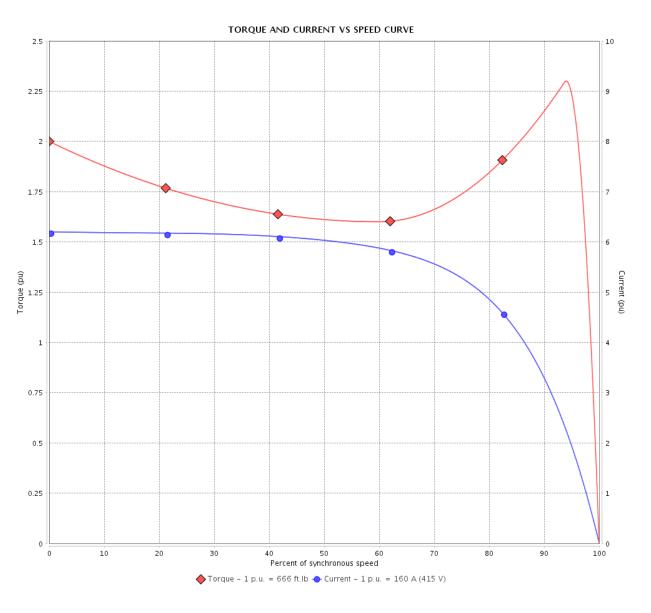
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 12512ET3ERB445T-W22

11165651



Performance	: 415 V 50 Hz 6P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 160 A : 6.2 : 666 ft.lb : 200 % : 229 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Locked rotor time	: 27s (cold) 15s (hot)			

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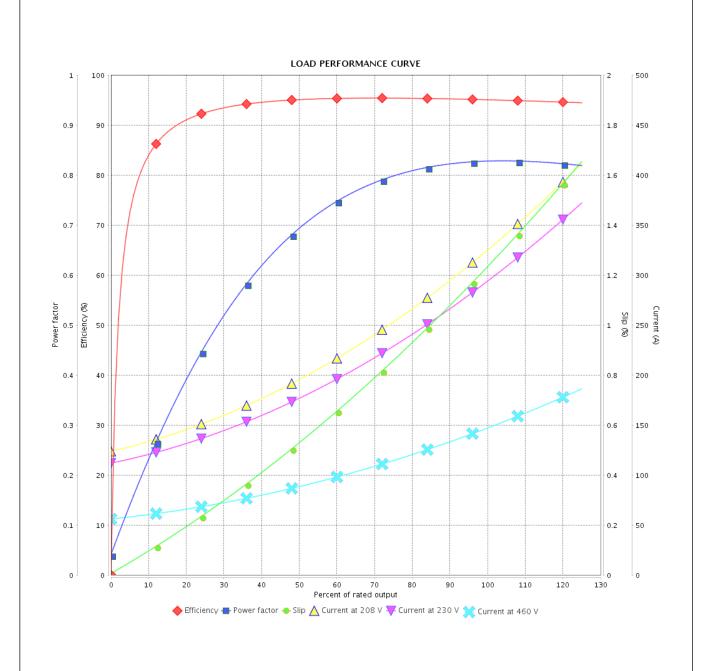


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165651

Phase

Catalog #: 12512ET3ERB445T-W22



Performance	::	230/460 V 60 Hz 6P				
Rated current	::	286/143 A	Moment o	f inertia (J)	: 104 sq.ft.lb	
LRC	: (6.4	Duty cycle	;	: Cont.(S1)	
Rated torque	::	554 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	210 %	Service factor		: 1.15	
Breakdown torque : 240 %		240 %	Temperature rise		: 80 K	
Rated speed	:	1185 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

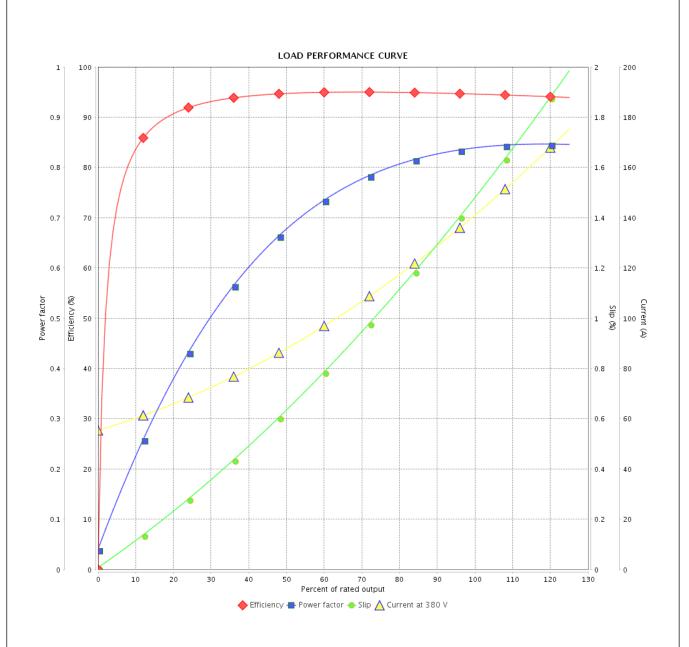
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Performance	: 38	80 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 53 jue : 20 ie : 22	43 A 4 33 ft.lb 00 % 40 % 85 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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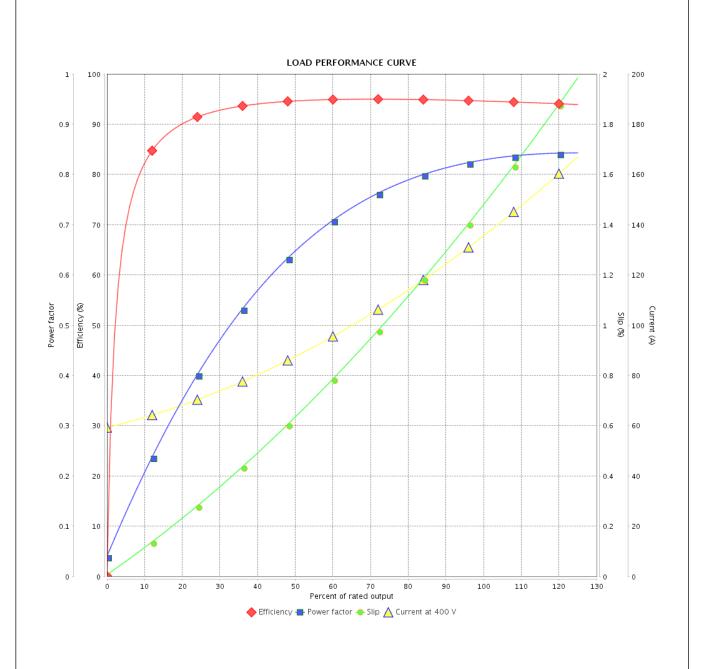


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165651

Phase

Catalog #: 12512ET3ERB445T-W22



Performance	• ,	400 V 50 Hz 6P IE3	2				
renomiance		+00 V 30 HZ 0F IE3)				
Rated current	nt : 138 A Moment		Moment o	f inertia (J)	: 104 sq.ft.lb		
LRC	: 7	7.1	Duty cycle	;	: Cont.(S1)		
Rated torque	: 5	533 ft.lb	Insulation class		: F		
Locked rotor torqu	e :2	229 %	Service factor		: 1.00		
Breakdown torque :		260 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 9	985 rpm	Design		: B		
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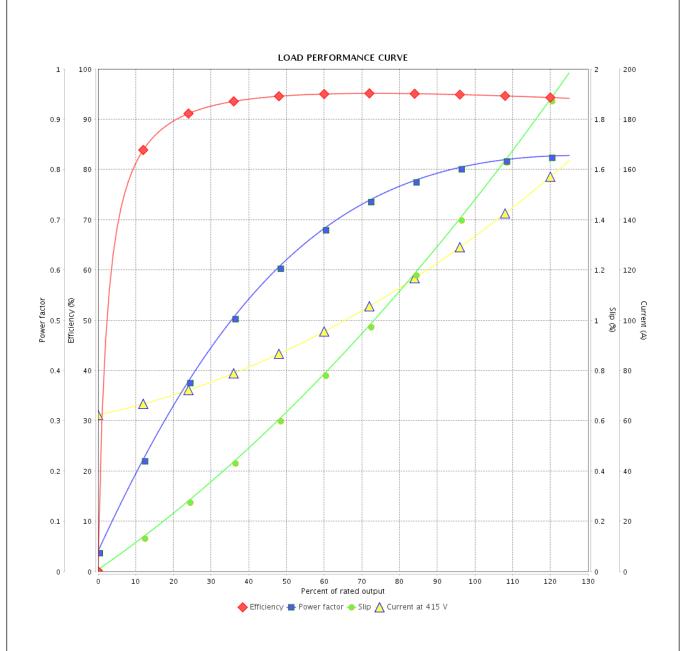
Product line : NEMA Premium Efficiency Three- Pr

Phase

Product code: 11165651

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Destaura	445.7750.11. 00.150			
Performance	: 415 V 50 Hz 6P IE3			
Rated current LRC	: 130 A : 7.6	Moment of inertia (J) Duty cycle		
Rated torque Locked rotor torque	: 533 ft.lb : 250 %	Insulation class Service factor	: Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	: 290 % : 985 rpm	Temperature rise Design	: 80 K : B	
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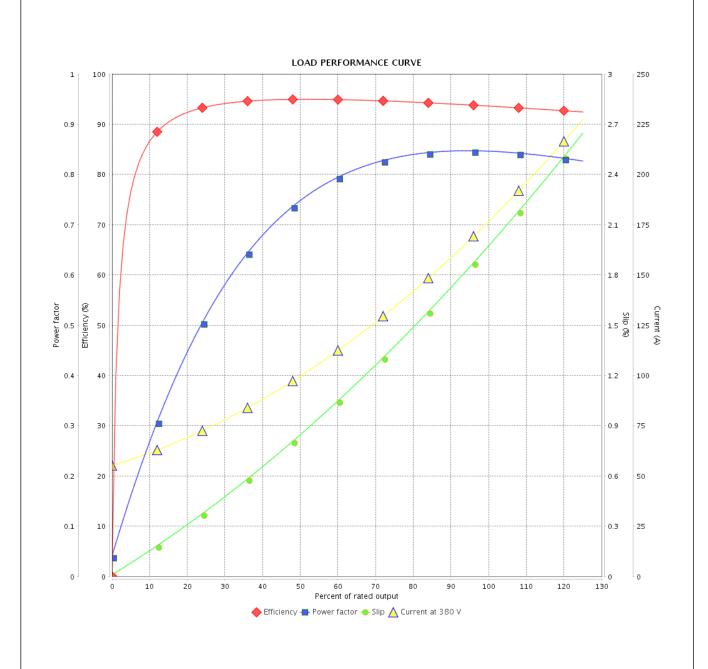


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165651

Phase

Catalog #: 12512ET3ERB445T-W22



Performance	: 3	380 V 50 Hz 6P IE1				
Rated current	: '	172 A	Moment o	f inertia (J)	: 104 sq.ft.lb	
LRC	: 5	: 5.1 Duty cycle			: Cont.(S1)	
Rated torque	: 6	670 ft.lb	Insulation class		: F	
Locked rotor torqu	ie : '	160 %	Service factor		: 1.00	
Breakdown torque	: '	190 %	Temperati	ıre rise	: 105 K	
Rated speed	: 9	980 rpm	Design		: B	
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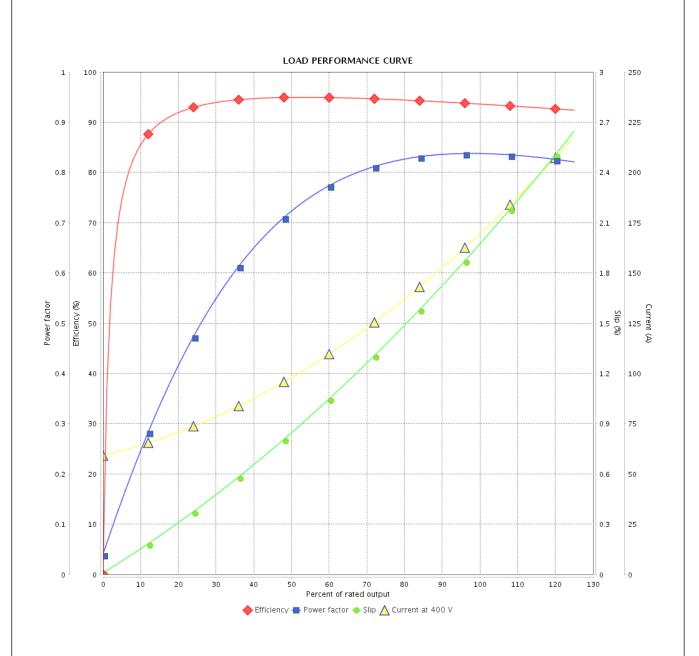
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Phase

Product code: 11165651

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Performance	: 400 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 165 A : 5.7 : 670 ft.lb : 180 % : 210 % : 980 rpm	Moment of ine Duty cycle Insulation clas Service factor Temperature r Design	s	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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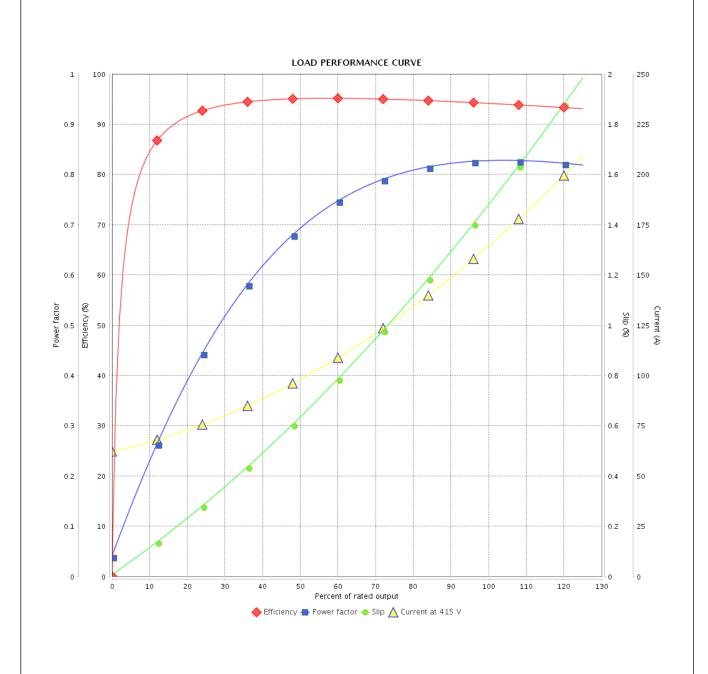


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165651

Phase

Catalog #: 12512ET3ERB445T-W22



Performance	: 4	15 V 50 Hz 6P IE2				
Rated current	: 1	60 A	Moment of	f inertia (J)	: 104 sq.ft.lb	
LRC	: 6	2	Duty cycle	;	: Cont.(S1)	
Rated torque	: 6	66 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	00 %	Service factor		: 1.00	
Breakdown torque		29 %	Temperati	ıre rise	: 105 K	
Rated speed	: 9	85 rpm	Design		: B	
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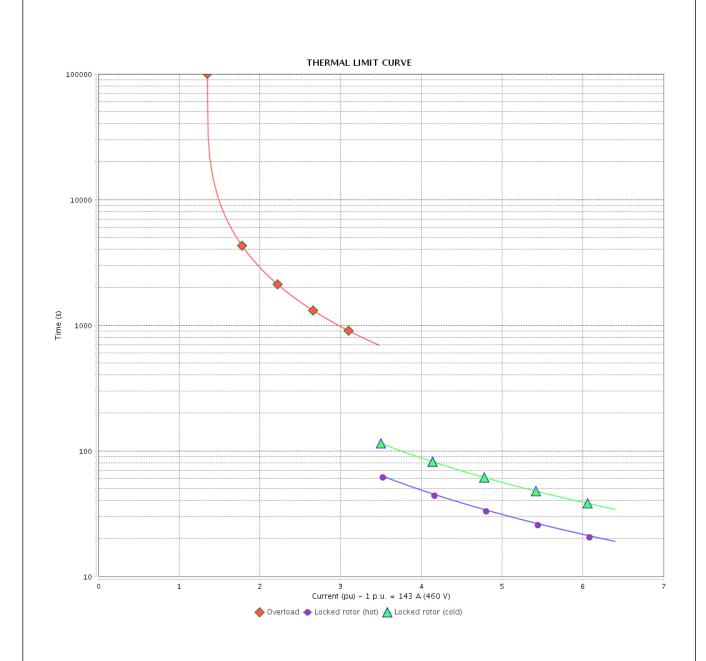


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Product line		NEMA Premium Efficiency hase		Product code :	11165651 12512ET3ER	B445T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28 : 6. : 58 : 2° : 2	30/460 V 60 Hz 6P 36/143 A 4 54 ft.lb 10 % 40 %	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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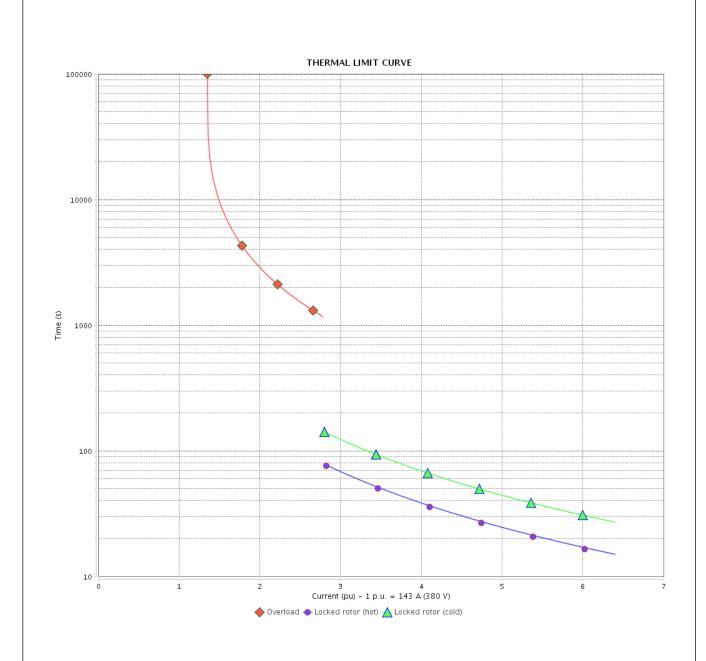


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11165651	
				Catalog # :	12512ET3ER	B445T-W22
Performance		: 380 V 50 Hz 6P IE3	N4	£:	. 404 # 11-	
Rated current LRC		: 143 A : 6.4	Duty cycle		: 104 sq.ft.lb : Cont.(S1)	
Rated torque	:	: 533 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 240 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 985 rpm	Design	5 5	: B	
Heating constant	t					
Cooling constant				,		
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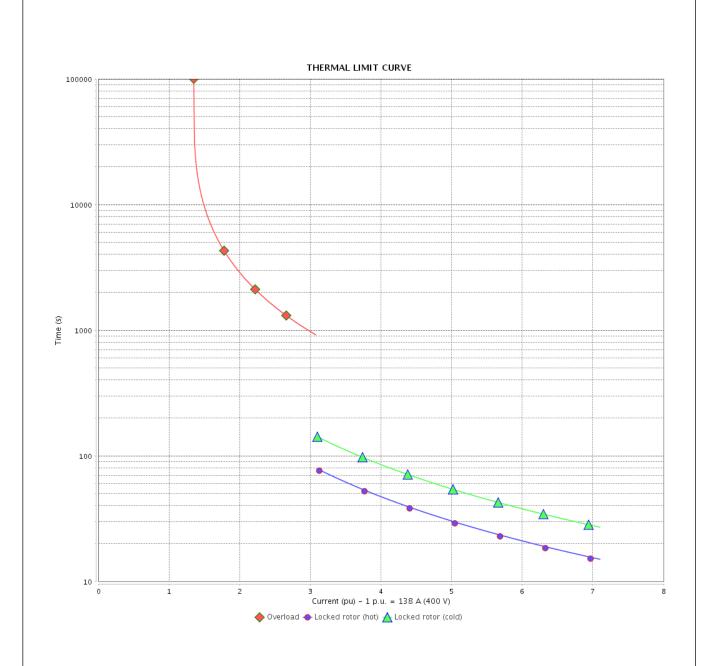


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11165651 12512ET3ER	B445T-W22
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: : que :	400 V 50 Hz 6P IE3 138 A 7.1 533 ft.lb 229 % 260 % 985 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date
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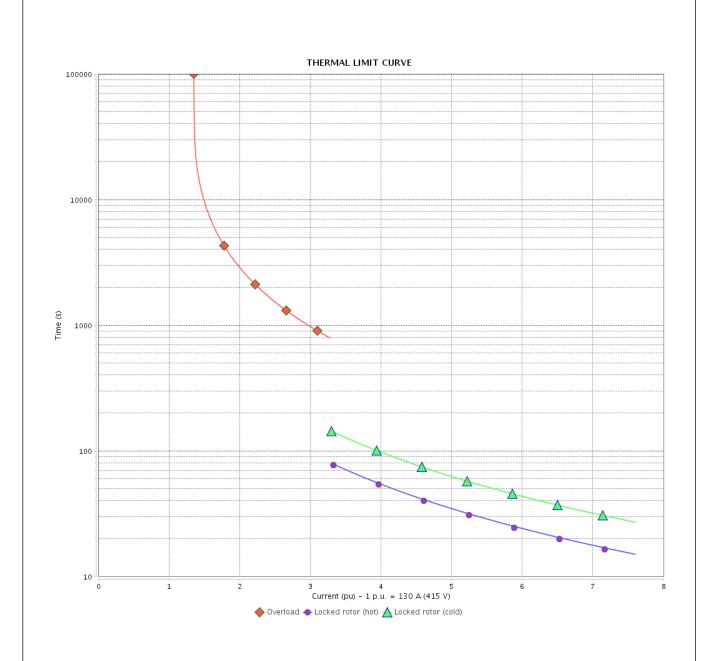


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Product line	: NEMA Premium Efficiency Phase		Product code :	11165651	D445T 14/00
		(Catalog # :	12512ET3ER	B445T-W22
Dorformano	· 415 \/ 50 Uz 6D IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 415 V 50 Hz 6P IE3 : 130 A : 7.6 : 533 ft.lb : 250 % : 290 % : 985 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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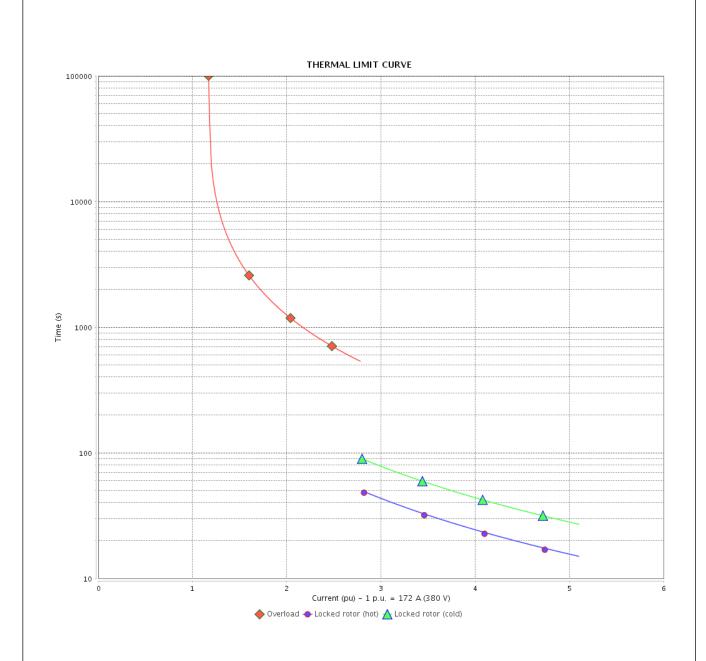


Customer	:				
Product line	: NEMA Premium Efficiency	Three-	Product code :	11165651	
	Phase	(Catalog # :	12512ET3ER	B445T-W22
	: 380 V 50 Hz 6P IE1	N4====================================	f : 4 : (1)	. 404 # 11-	
LRC	: 172 A : 5.1	Duty cycle	f inertia (J)	: 104 sq.ft.lb : Cont.(S1)	
	: 670 ft.lb : 160 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 190 %	Temperatu		: 105 K	
	: 980 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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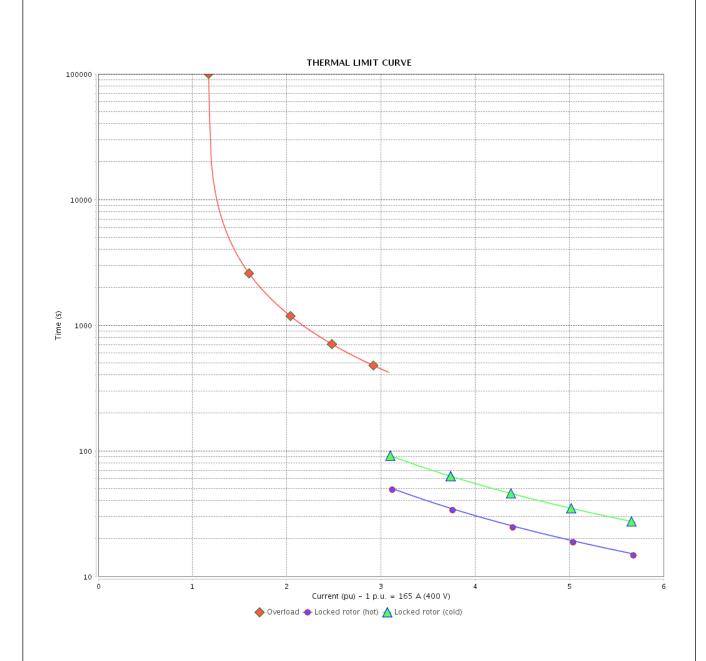


Customer		:				
Product line		: NEMA Premium Efficiency `Phase		Product code :	11165651 12512ET3ER	B445T-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu	: : : que :	400 V 50 Hz 6P IE1 165 A 5.7 670 ft.lb 180 % 210 %	Moment or Duty cycle Insulation Service fa	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K	
Rated speed Heating constant Cooling constant	: t	980 rpm	Design		: B	
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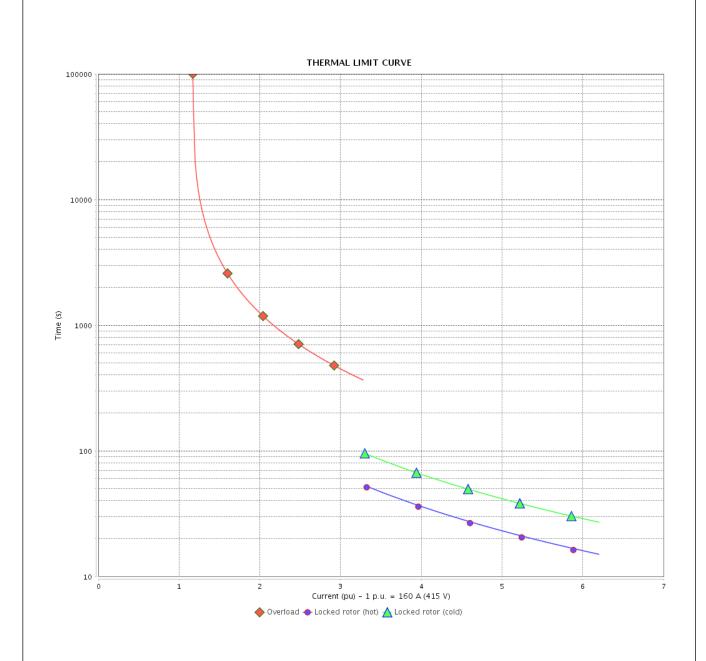


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	•				
Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	11165651	
	i ilase		Catalog # :	12512ET3ER	B445T-W22
Performance	: 415 V 50 Hz 6P IE2	Moment	finartic (I)	, 104 as # II-	
Rated current LRC	: 160 A : 6.2	Moment o	f inertia (J)	: 104 sq.ft.lb : Cont.(S1)	
Rated torque	: 666 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 200 % : 229 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed	: 985 rpm	Design	JI C 115C	: 105 K : B	
Heating constant					
Cooling constant					
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Three Phase Induction Motor - Squirrel Cage



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Customer :

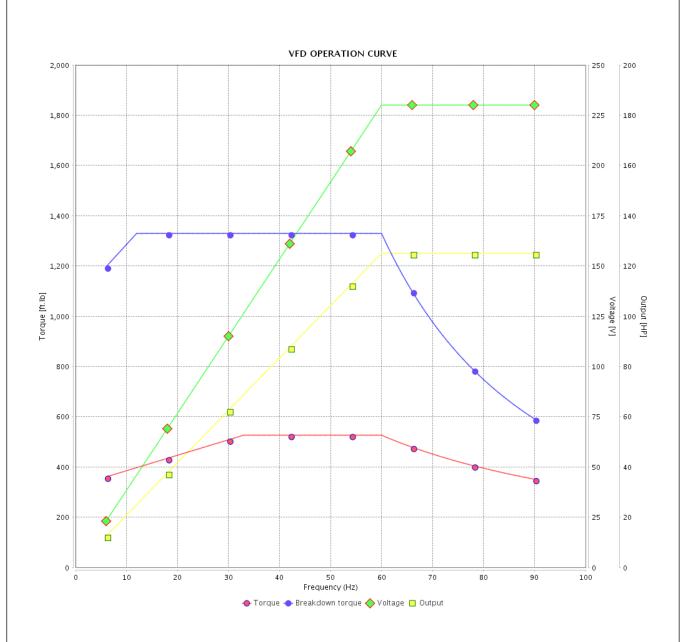
Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 11165651

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Performance	: 230/460	0 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		0	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Char	nges Summary		Performed	Checked	Date
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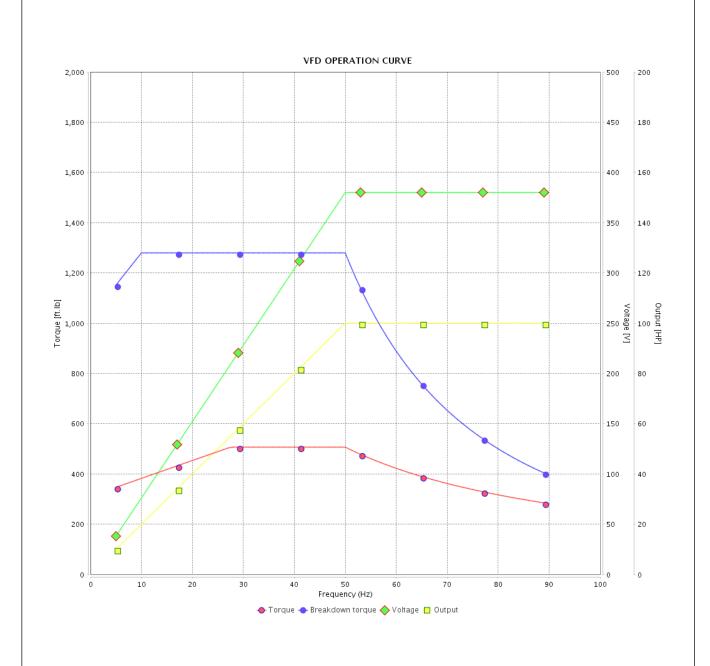
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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 143 A : 6.4 : 533 ft.lb : 200 % : 240 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Product line : NEMA Premium Efficiency Three- Product

Phase

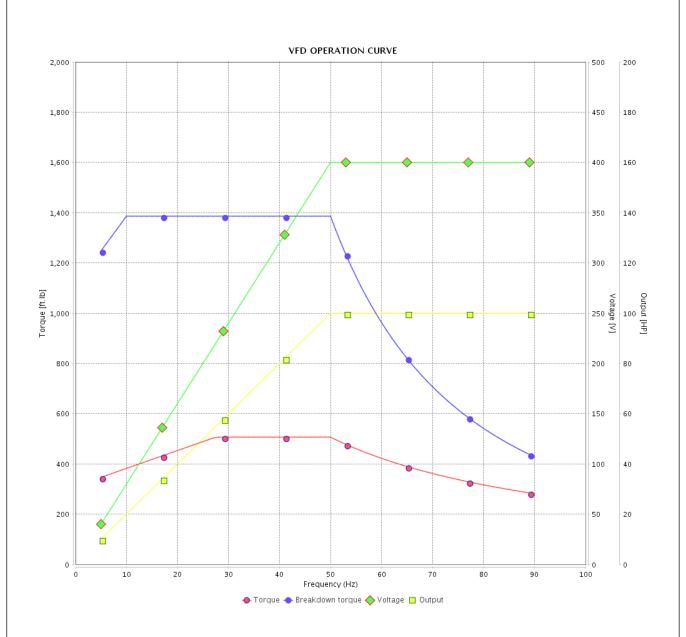
Product code: 11165651

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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 138 A : 7.1 : 533 ft.lb : 229 % : 260 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage

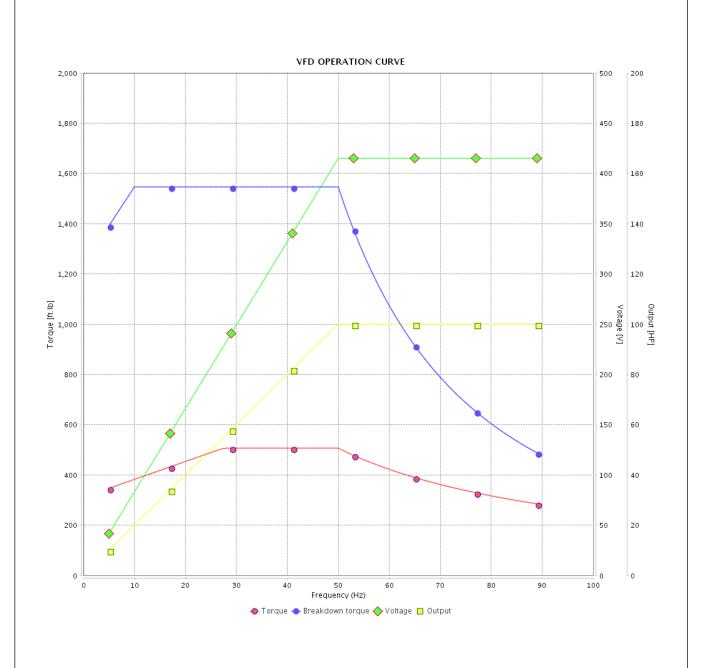


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11165651

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			,			
Performance	: 4	415 V 50 Hz 6P IE3				
Rated current	: 1	Moment of inertia (J)		: 104 sq.ft.lb		
LRC		.6	Duty cycle	Duty cycle		
Rated torque		33 ft.lb	Insulation class		: F	
Locked rotor torque		50 %	Service fa	Service factor		
Breakdown torqu	e : 2	90 %	Temperati	Temperature rise		
Rated speed	: 9	5 rpm Design		: B		
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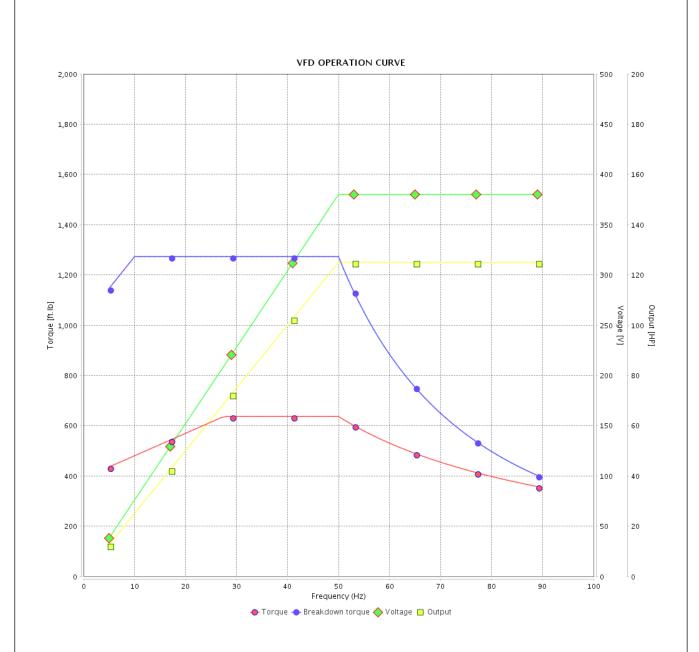
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 38	80 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		72 A .1 70 ft.lb 60 % 90 % 80 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	ı class actor	: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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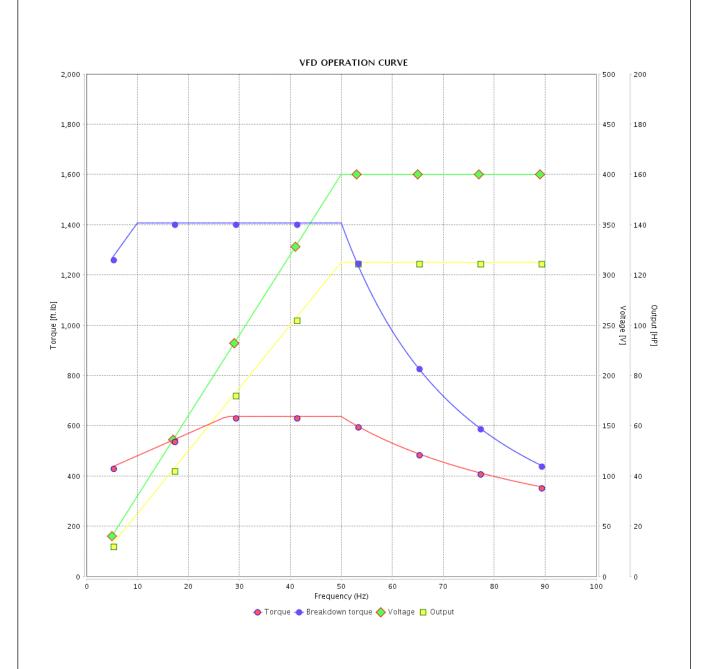


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Product line : NEMA Premium Efficiency Three- Product code : 11165651

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Performance	: 4	: 400 V 50 Hz 6P IE1				
Rated current : 165		65 A	Moment o	f inertia (J)	: 104 sq.ft.lb	
LRC : 5		.7	Duty cycle	Duty cycle		
Rated torque : 6		70 ft.lb	Insulation class		: F	
Locked rotor torque : 1		80 %	Service fa	Service factor		
Breakdown torque		10 %	Temperati	Temperature rise		
Rated speed : 980		80 rpm	om Design		: B	
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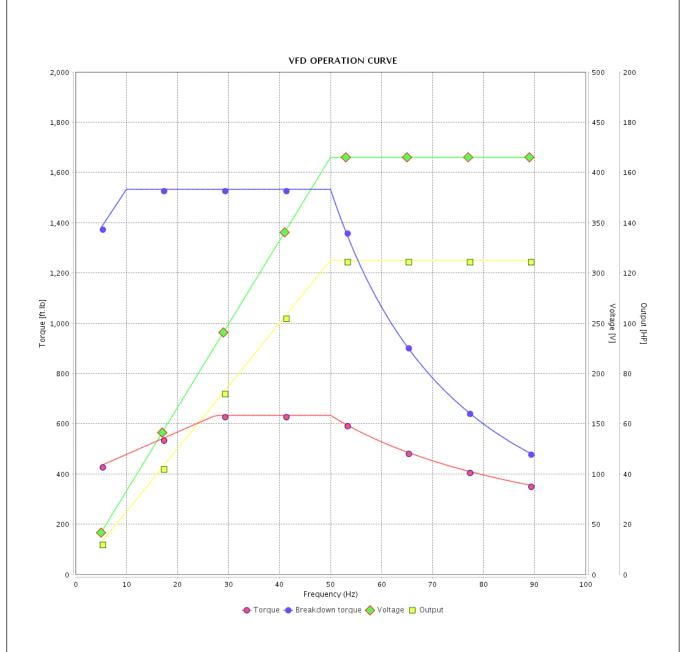
Product line : NEMA Premium Efficiency Three-

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Performance	: 41	15 V 50 Hz 6P IE2				
Rated current : 160 A LRC : 6.2 Rated torque : 666 ft.lb Locked rotor torque : 200 % Breakdown torque : 229 % Rated speed : 985 rpm		2 66 ft.lb 00 % 29 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 104 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Checked by					Page	Revision

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Date

