DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12378662

Catalog #: 00336ET3E182T-W22

Frame : 182/4T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Starting method Ambient temperature : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 86.5 lb

: IP55 Moment of inertia (J) Protection degree : 0.1889 sq.ft.lb

i rotootion dogro	•	00			10 01 11101 114 (0)	,		
Design		: B						
Output [HP]		3	2	2	2	3	3	3
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]		7.26/3.63	3.09	3.00	2.96	4.34	4.17	4.02
L. R. Amperes [A]		62.4/31.2	29.7	32.1	32.9	29.5	31.7	32.6
LRC [A]		8.6x(Code K)	9.6x(Code L)	10.7x(Code	11.1x(Code	6.8x(Code H)	7.6x(Code J)	8.1x(Code J)
				M)	N)			
No load current [A]	2.60/1.30	1.15	1.20	1.30	1.25	1.35	1.30
Rated speed [RPI	/ 1]	3515	2930	2940	2945	2885	2900	2910
Slip [%]		2.36	2.33	2.00	1.83	3.83	3.33	3.00
Rated torque [ft.lb]]	4.48	3.58	3.57	3.57	5.46	5.43	5.41
Locked rotor torqu	e [%]	220	240	280	320	180	200	220
Breakdown torque	[%]	340	380	440	459	250	280	310
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		54s (cold)	68s (cold)	63s (cold)	57s (cold)	55s (cold)	52s (cold)	48s (cold)
		30s (hot)	38s (hot)	35s (hot)	32s (hot)	31s (hot)	29s (hot)	27s (hot)
Noise level ²		66.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%							
Efficiency (%)	50%	82.5	81.0	80.6	79.7	84.0	84.0	84.0
Lineichey (70)	75%	86.5	84.5	84.5	84.1	86.5	86.5	86.5
	100%	86.5	85.8	85.8	85.9	85.5	85.5	86.5
	25%							
Power Factor	50%	0.75	0.68	0.65	0.63	0.80	0.77	0.75
I OWELL ACIOI	75%	0.84	0.79	0.77	0.75	0.87	0.86	0.84
	100%	0.88	0.86	0.84	0.82	0.90	0.89	0.88

Drive end Non drive end Foundation loads

6207 ZZ Bearing type 6206 ZZ Max. traction : 64 lb Sealing V'Ring V'Ring : 150 lb Max. compression

Lubricant amount Lubricant type Mobil Polyrex EM

Notes

Lubrication interval

USABLE @208V 8.01A SF 1.15 SFA 9.21A

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



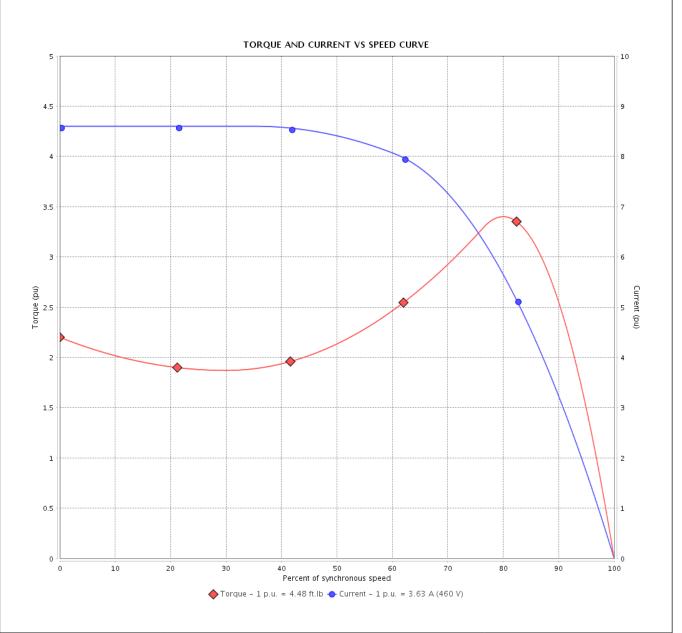
Customer :

Product line : NEMA Premium Efficiency Three- P

Phase

Product code: 12378662

Catalog #: 00336ET3E182T-W22



Performance : 230/460 V 60 Hz 2P Rated current : 7.26/3.63 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 8.6 Duty cycle : Cont.(S1) : F : 4.48 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B

Locked rotor time : 54s (cold) 30s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12378662 Catalog #: 00336ET3E182T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 3.58 ft.lb ◆ Current - 1 p.u. = 3.09 A (380 V) Performance : 380 V 50 Hz 2P IE3 Rated current : 3.09 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 9.6 Duty cycle : Cont.(S1) : 3.58 ft.lb Insulation class : F Rated torque : 240 % Locked rotor torque Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 2930 rpm Design : B Locked rotor time : 68s (cold) 38s (hot) Date Rev. Performed Checked **Changes Summary**

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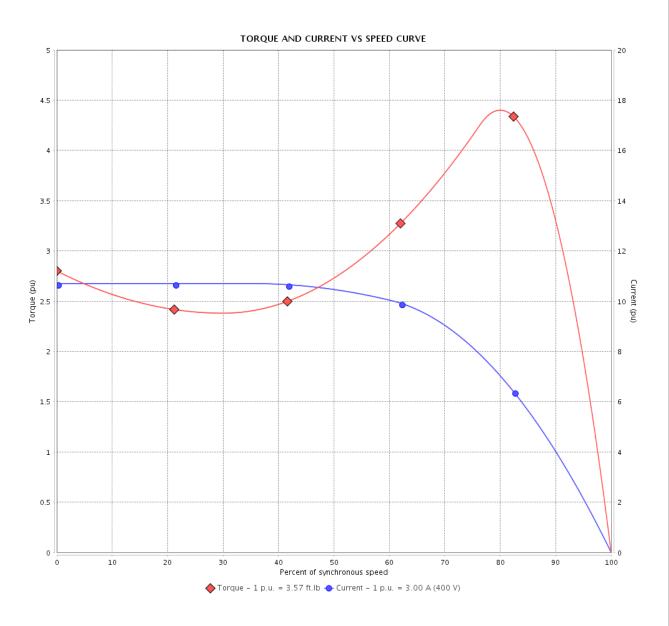


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12378662

Phase

Catalog #: 00336ET3E182T-W22



Performance	: 400 V 50 Hz 2P IE3			
Rated current	: 3.00 A	Moment of inertia (J)	: 0.1889 sq.ft.lb	
LRC	: 10.7	Duty cycle	: Cont.(S1)	
Rated torque	: 3.57 ft.lb	Insulation class	: F	
Locked rotor torque	: 280 %	Service factor	: 1.25	
Breakdown torque	: 440 %	Temperature rise	: 80 K	
Rated speed	: 2940 rpm	Design	: B	
· · · · · · ·				
Locked rotor time	· 63s (cold) 35s (hot)			

Locked rotor time : 63s (cold) 35s (hot)

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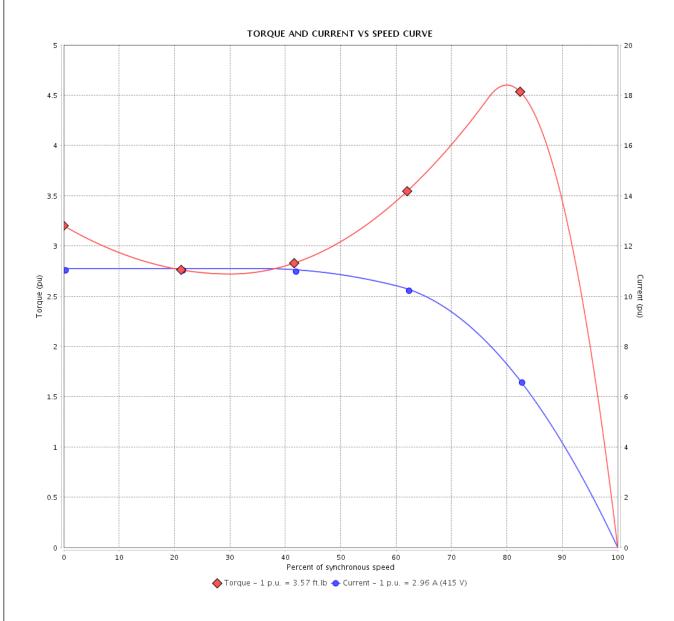
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12378662

Catalog #: 00336ET3E182T-W22



Performance : 415 V 50 Hz 2P IE3 Rated current : 2.96 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 11.1 Duty cycle : Cont.(S1) Rated torque Insulation class : F : 3.57 ft.lb Service factor : 1.25 Locked rotor torque : 320 % : 80 K Breakdown torque : 459 % Temperature rise : B Rated speed : 2945 rpm Design Locked rotor time : 57s (cold) 32s (hot)

LOCKCU TOTOL TITLE		73 (cold) 323 (flot)			
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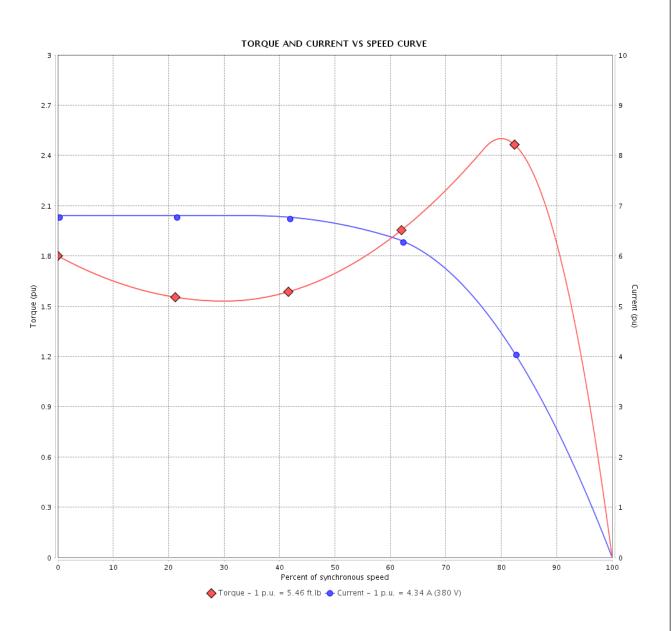
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12378662

Catalog #: 00336ET3E182T-W22



Performance	: 380 V 50 Hz 2P IE2		
Rated current	: 4.34 A	Moment of inertia (J)	: 0.1889 sq.ft.lb
LRC	: 6.8	Duty cycle	: Cont.(S1)
Rated torque	: 5.46 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2885 rpm	Design	: B
Locked rotor time	: 55s (cold) 31s (hot)		

Locked rotor time : 55s (cold) 31s (hot)

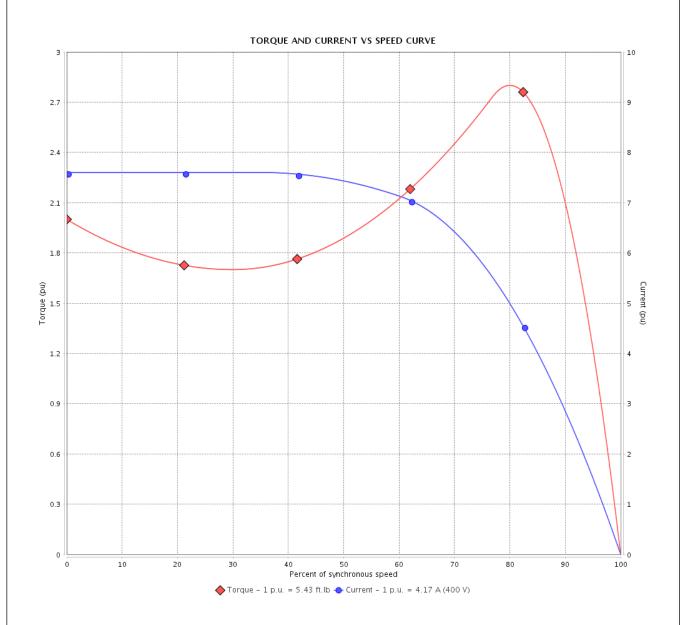
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Customer Product line : NEMA Premium Efficiency Three-Product code: 12378662

> Catalog #: 00336ET3E182T-W22



Performance	: 400 V 50 Hz 2P IE2			
Rated current	: 4.17 A	Moment of inertia (J)	: 0.1889 sq.ft.lb	
LRC	: 7.6	Duty cycle	: Cont.(S1)	
Rated torque	: 5.43 ft.lb	Insulation class	:F ` ´	
Locked rotor torque	: 200 %	Service factor	: 1.25	
Breakdown torque	: 280 %	Temperature rise	: 80 K	
Rated speed	: 2900 rpm	Design	: B	
Locked rotor time	: 52s (cold) 29s (hot)			

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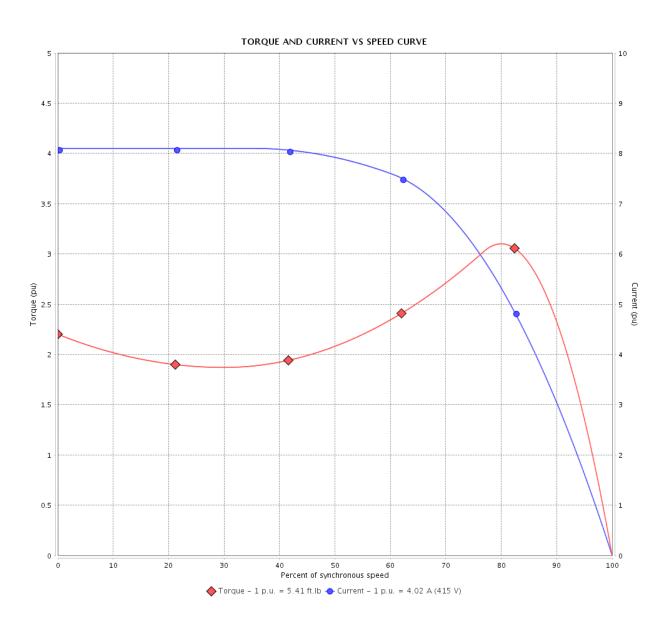
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12378662

Catalog #: 00336ET3E182T-W22



Performance : 415 V 50 Hz 2P IE3 Rated current : 4.02 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 8.1 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 5.41 ft.lb Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2910 rpm Design : B

Locked rotor time : 48s (cold) 27s (hot)

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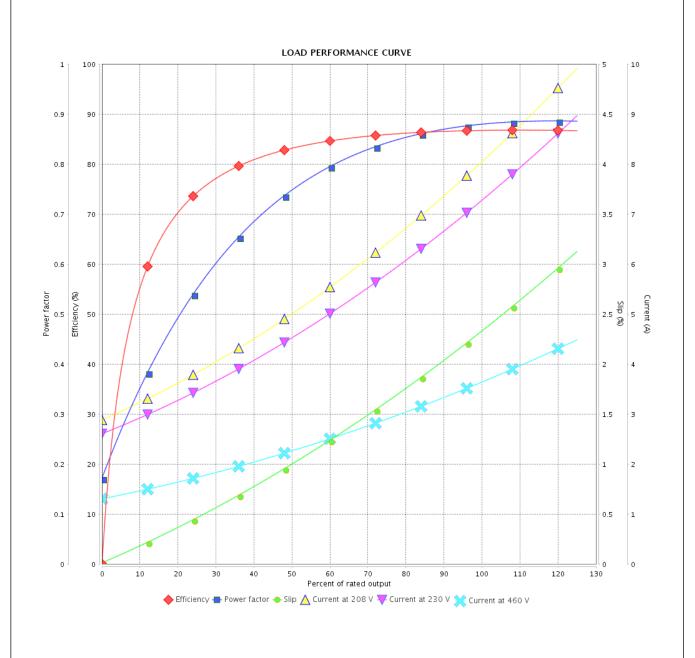


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Product line : NEMA Premium Efficiency Three- Product code : 12378662

Phase

Catalog #: 00336ET3E182T-W22



Performance	: 2	230/460 V 60 Hz 2P				
Rated current	: 7	7.26/3.63 A	Moment o	f inertia (J)	: 0.1889 sq.ft.	.lb
LRC	: 8	3.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	I.48 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	220 %	Service fa	ctor	: 1.25	
Breakdown torque	: 3	340 %	Temperature rise		: 80 K	
Rated speed	: 3	3515 rpm	Design		: B	
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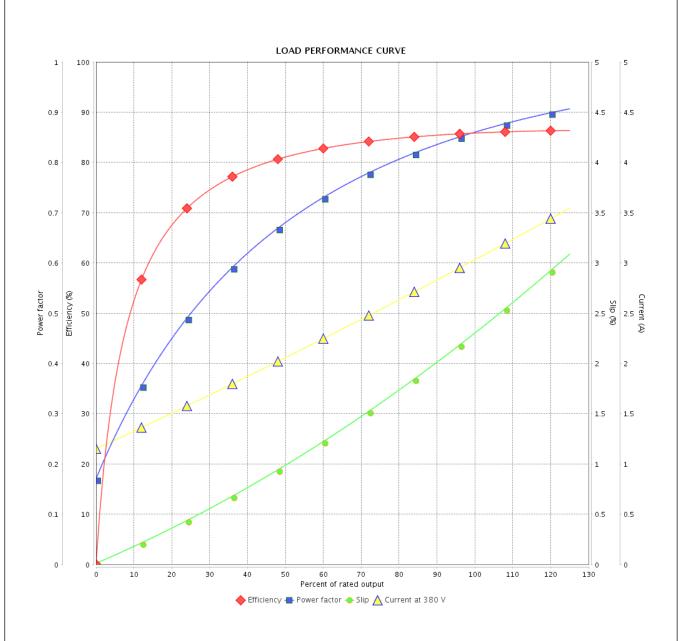
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12378662

Catalog #: 00336ET3E182T-W22



Performance	: 380 V 50 Hz 2P IE3			
Rated current : 3.09 A LRC : 9.6		Moment of inertia (J) Duty cycle	: 0.1889 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque Breakdown torque	: 3.58 ft.lb : 240 % : 380 %	Insulation class Service factor	: F : 1.25 : 80 K	
Rated speed	: 2930 rpm	Temperature rise Design	: B	
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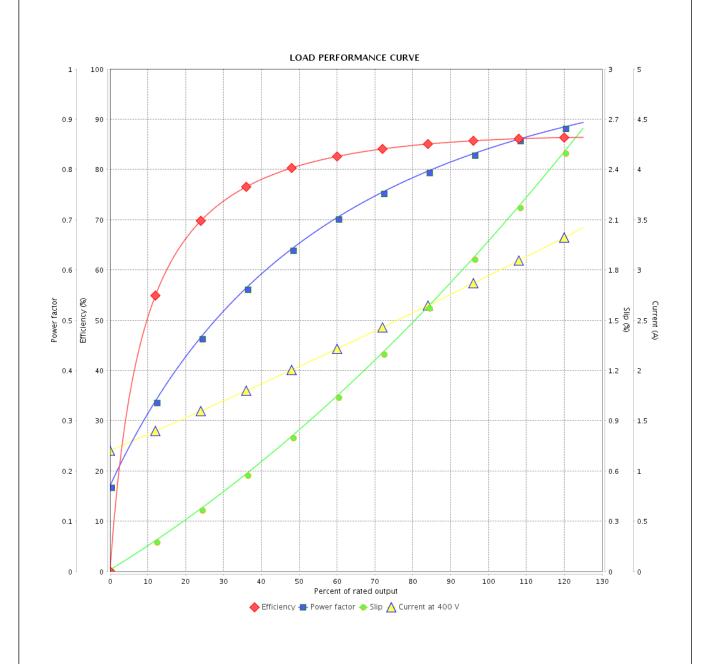


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12378662

Phase

Catalog #: 00336ET3E182T-W22



Performance	: 4	00 V 50 Hz 2P IE3				
Rated current	Rated current : 3.00 A		Moment o	f inertia (J)	: 0.1889 sq.ft.	.lb
LRC	: 1	0.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	.57 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	80 %	Service fa	ctor	: 1.25	
Breakdown torque		40 %	Temperati	Temperature rise		
Rated speed	: 2	940 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Product

Phase

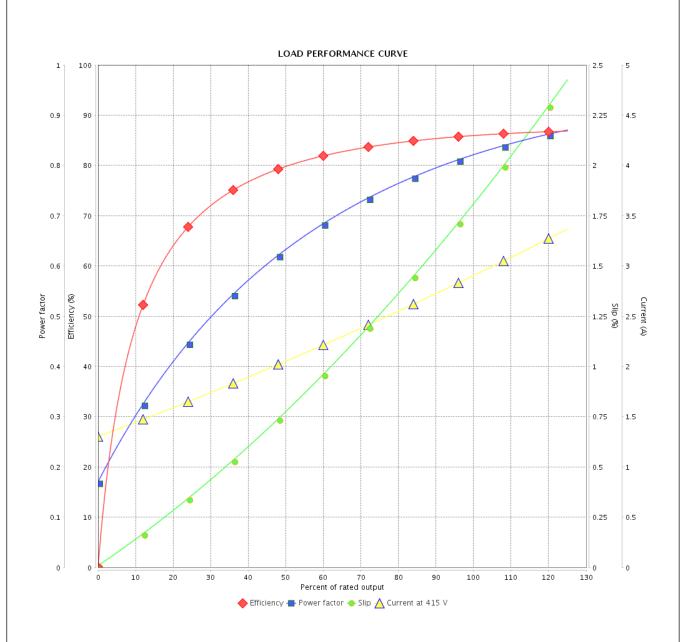
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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.96 A : 11.1 : 3.57 ft.lb : 320 % : 459 % : 2945 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1889 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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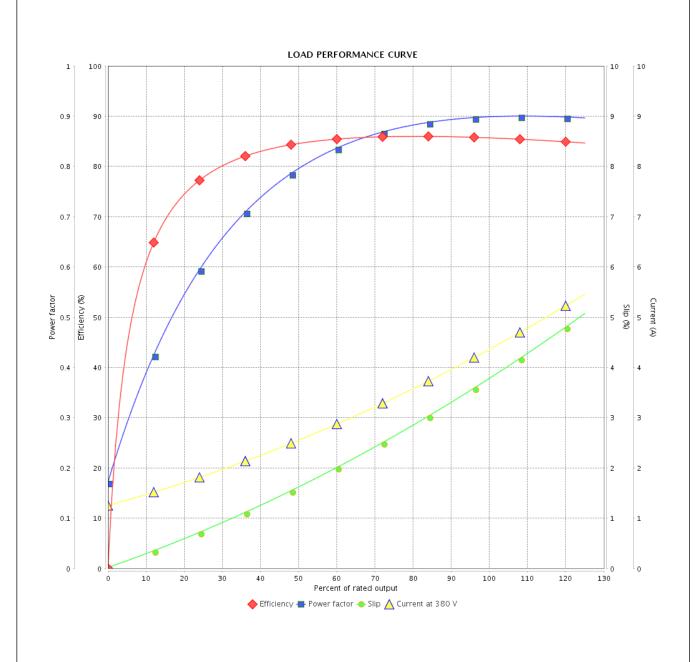
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12378662

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Performance	: 3	80 V 50 Hz 2P IE2				
Rated current	ted current : 4.34 A Mome		Moment o	of inertia (J)	: 0.1889 sq.ft.lb	
LRC	: 6	.8	Duty cycle	9	: Cont.(S1)	
Rated torque	: 5	.46 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 18	80 %	Service fa	ictor	: 1.25	
Breakdown torque	e : 2	50 %	Temperati	Temperature rise		
Rated speed	: 28	885 rpm	Design		: B	
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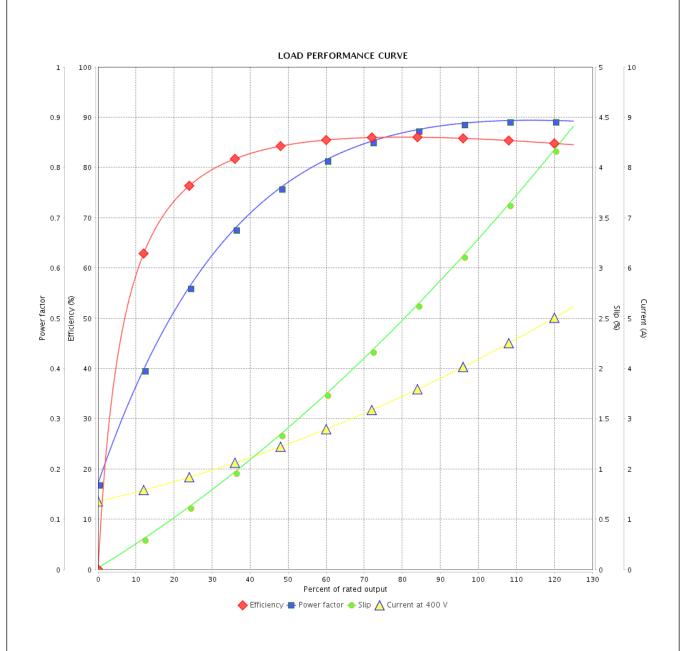
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Product line : NEMA Premium Efficiency Three- Product code : 12378662

Phase

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Performance : 400 V 50 Hz 2P IE2 Rated current : 4.17 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.6 : 5.43 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2900 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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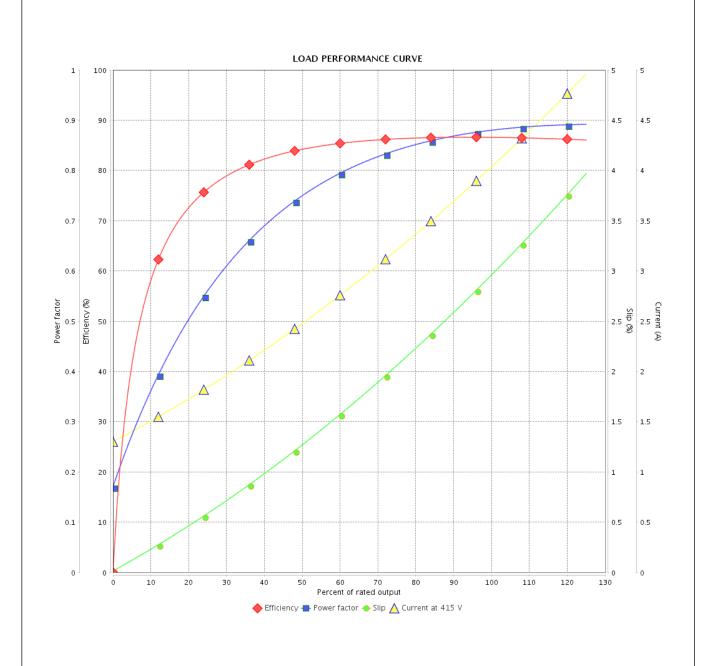
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12378662

Catalog #: 00336ET3E182T-W22



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current	: 4.	02 A	Moment of	of inertia (J)	: 0.1889 sq.ft.	lb
LRC	: 8.	1	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 5.	41 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 22	20 %	Service fa	actor	: 1.25	
Breakdown torqu	ie : 3 ⁻	10 %	Temperati	Temperature rise		
Rated speed	: 29	910 rpm	Design		: B	
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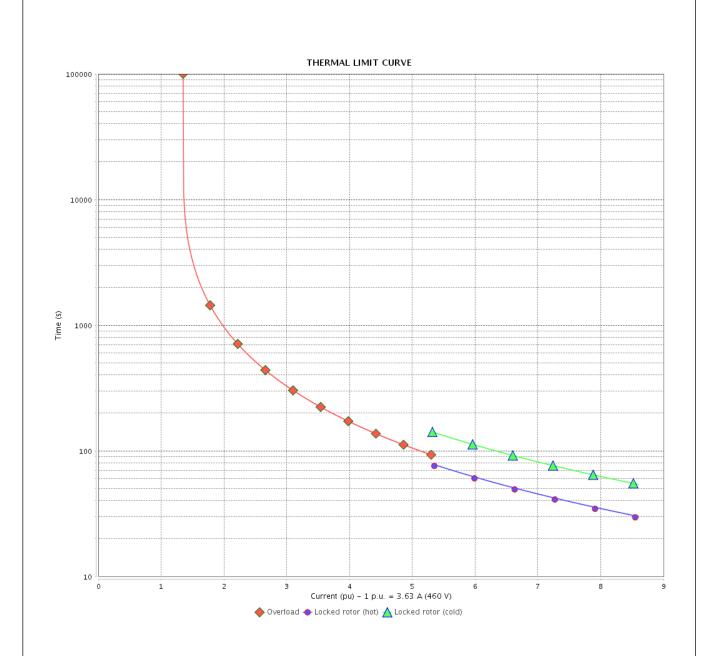


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12378662 00336ET3E1	82T W/22
					000001011	021-4422
Performance		230/460 V 60 Hz 2P	I			
Rated current LRC		: 7.26/3.63 A : 8.6	Moment of Duty cycle	of inertia (J) e	: 0.1889 sq.ft.ll : Cont.(S1)	b
Rated torque	:	: 4.48 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 220 % : 340 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 3515 rpm	Design	·· · -	: B	
Heating constan						
Cooling constant	t T					
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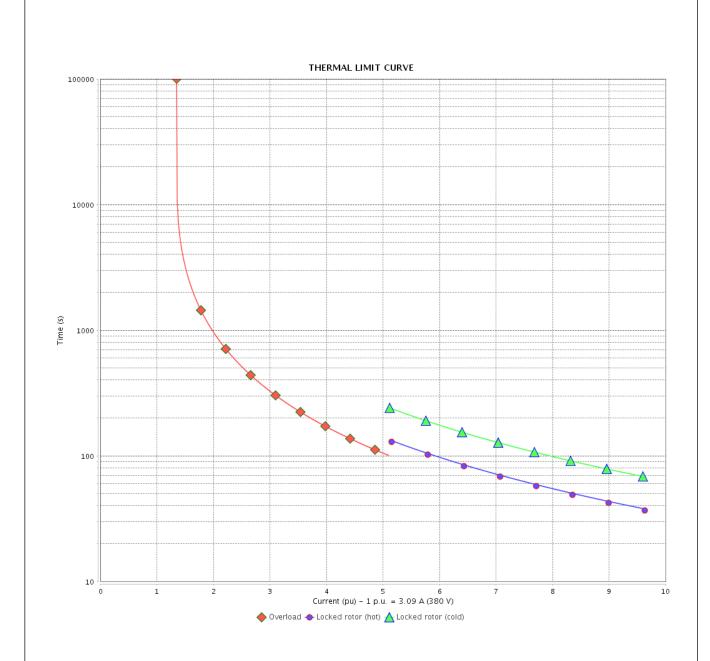


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	12378662 00336ET3E1	82T-W22
Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.09 A : 9.6 : 3.58 ft.lb : 240 % : 380 % : 2930 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class ctor	: 0.1889 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	b
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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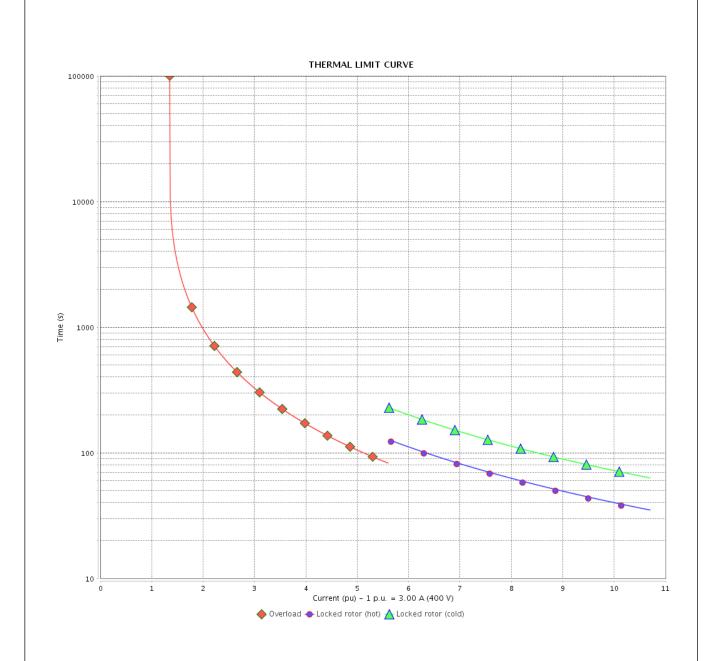


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12378662 00336ET3E1	82T-W22
Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque	: 3.00 A : 10.7 : 3.57 ft.lb	Duty cycle Insulation	class	: 0.1889 sq.ft.l : Cont.(S1) : F	b
Locked rotor torque Breakdown torque Rated speed	: 280 % : 440 % : 2940 rpm	Service far Temperatu Design		: 1.25 : 80 K : B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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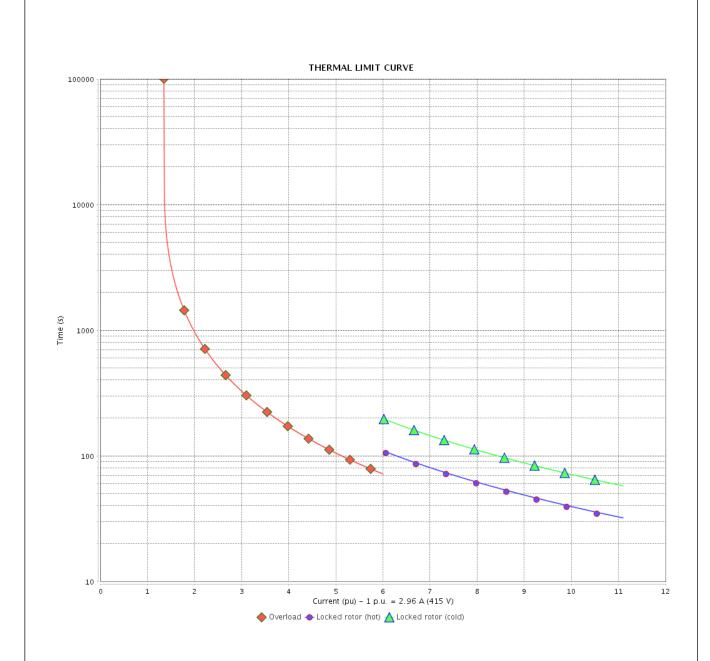


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12378662 00336ET3E1	82T-W22
Performance		: 415 V 50 Hz 2P IE3				
Rated current LRC		: 2.96 A : 11.1	Duty cycle		: 0.1889 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 3.57 ft.lb : 320 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		: 459 %	Temperat		: 80 K	
Rated speed		: 2945 rpm	Design		: B	
Heating constant						
Cooling constant	τ	Changes Summers		Performed	Checked	Date
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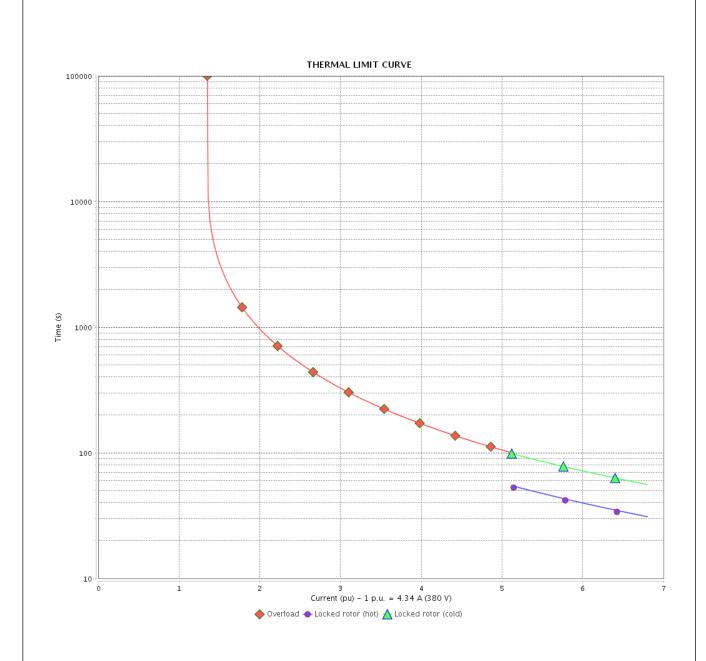


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code Catalog # :	e: 12378662 00336ET3E1	82T-W22
Performance	: 380 V 50 Hz 2P IE2			
Rated current LRC Rated torque	: 4.34 A : 6.8 : 5.46 ft.lb : 180 %	Moment of inertia (J) Duty cycle Insulation class Service factor	: 0.1889 sq.ft.Ⅱ : Cont.(S1) : F : 1.25	b
Locked rotor torque Breakdown torque Rated speed	: 250 % : 2885 rpm	Temperature rise Design	: 1.25 : 80 K : B	
Heating constant				
Cooling constant Rev.	Changes Summary	Performe	ed Checked	Date
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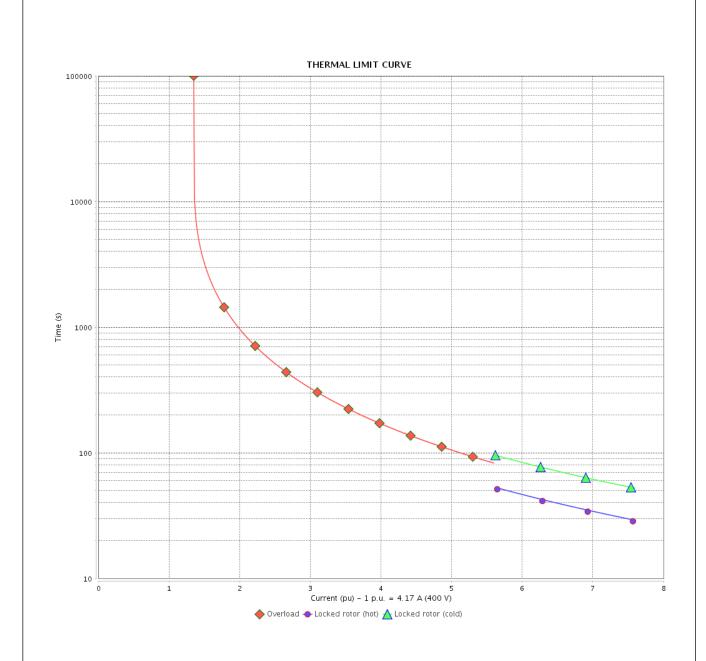


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12378662	
		1 Hase		Catalog # :	00336ET3E1	82T-W22
Performance	:	400 V 50 Hz 2P IE2				
Rated current	:	4.17 A		f inertia (J)	: 0.1889 sq.ft.ll)
LRC Rated torque		7.6 5.43 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq	jue :	200 %	Service fa	ctor	: 1.25	
Breakdown torqu		280 %	Temperati	ure rise	: 80 K	
Rated speed		2900 rpm	Design		: B	
Heating constant Cooling constant						
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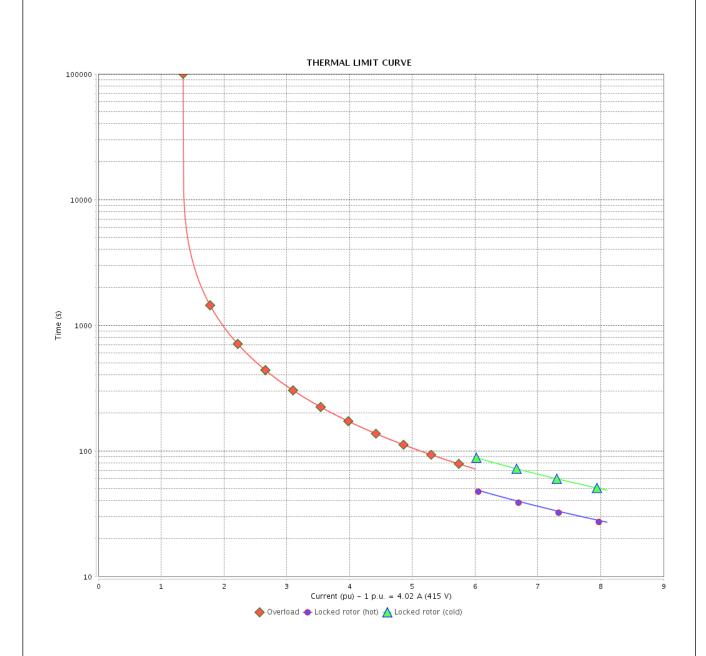


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	12378662	
		Phase				
				Catalog # :	00336ET3E1	82T-W22
Performance		415 V 50 Hz 2P IE3	,			
Rated current		4.02 A	Moment o	of inertia (J)	: 0.1889 sq.ft.l	b
LRC	:	8.1	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torc		5.41 ft.lb 220 %	Insulation Service fa		: F : 1.25	
Breakdown torqu		310 %	Temperati		: 80 K	
Rated speed		2910 rpm	Design		: B	
Heating constant	<u> </u>					
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



Customer



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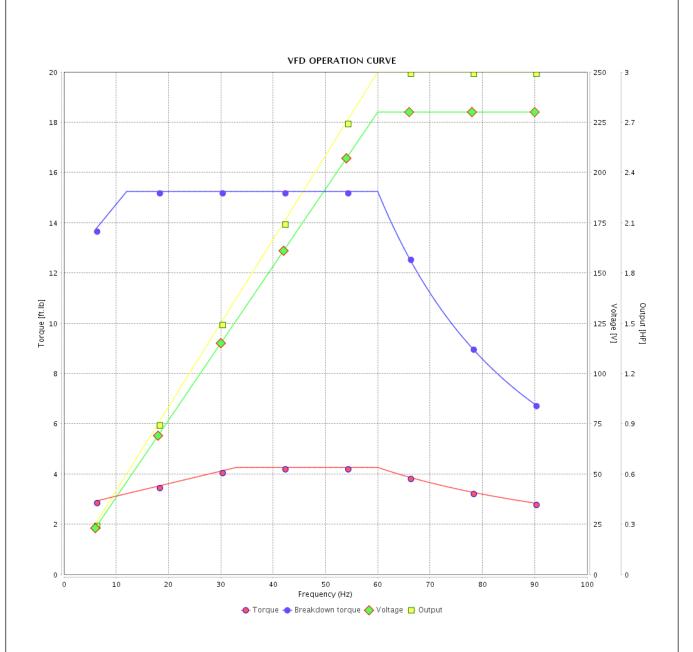
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 00336ET3E182T-W22

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Performance : 230/460 V 60 Hz 2P : 7.26/3.63 A Rated current Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 8.6 : 4.48 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 3515 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



Customer

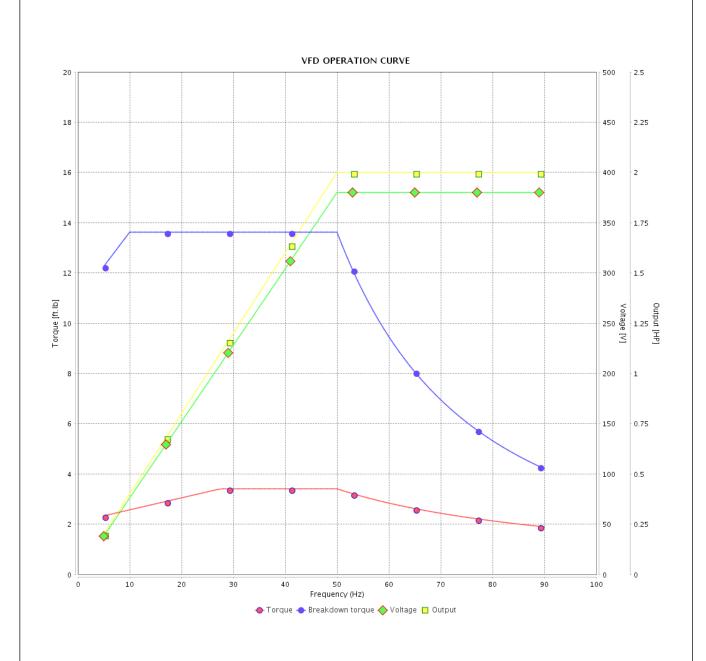
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.09 A : 9.6 : 3.58 ft.lb : 240 % : 380 % : 2930 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 0.1889 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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Checked by				Page	Revision

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Product line : NEMA Premium Efficiency Three-

Phase

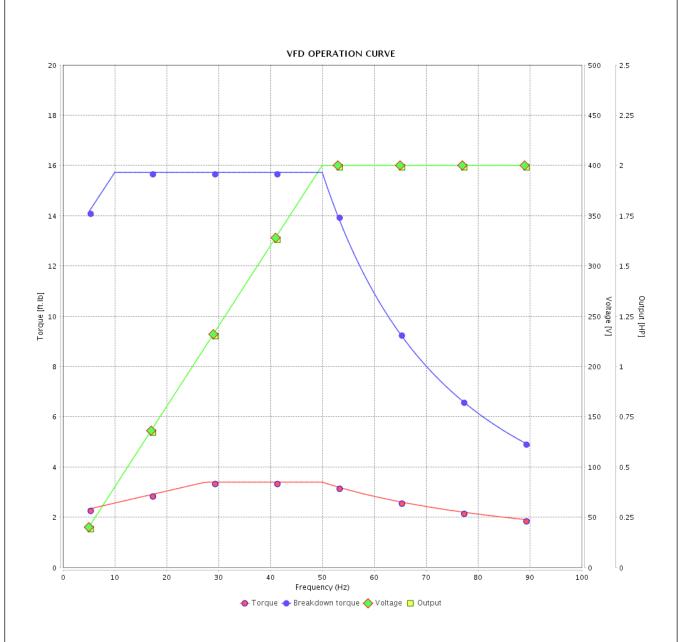
Product code: 12378662

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Performance	: 4	00 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 11 : 3 que : 24	.00 A 0.7 .57 ft.lb 80 % 40 % 940 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.1889 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	lb
Rev.		Changes Summary	'	Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer

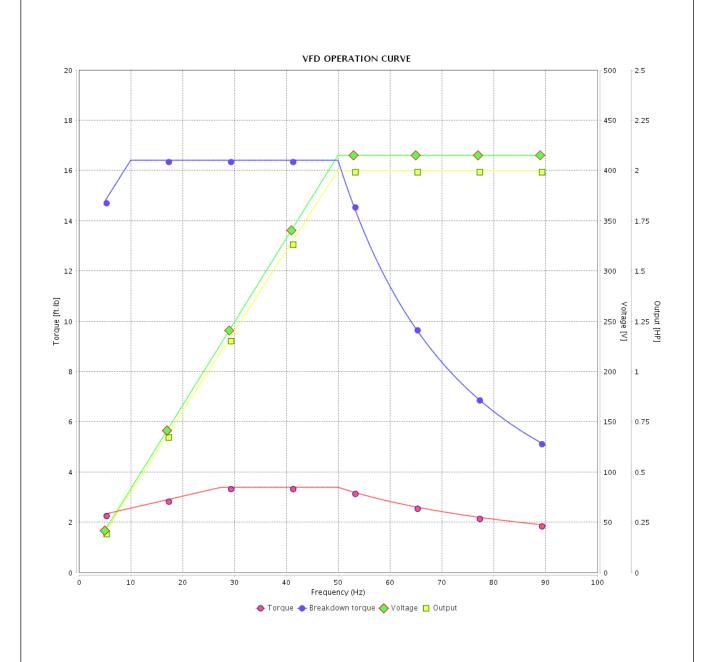
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code : 12378662

Catalog #: 00336ET3E182T-W22

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.96 A : 11.1 : 3.57 ft.lb : 320 % : 459 % : 2945 rpm	Moment of inertial Duty cycle Insulation class Service factor Temperature rise Design	,	: 0.1889 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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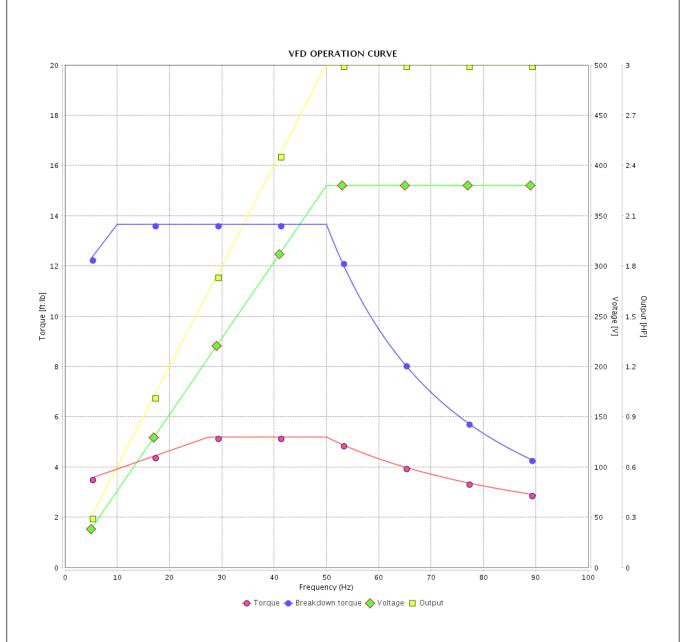
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12378662

Catalog #: 00336ET3E182T-W22



Performance : 380 V 50 Hz 2P IE2 Rated current : 4.34 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 : 5.46 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 2885 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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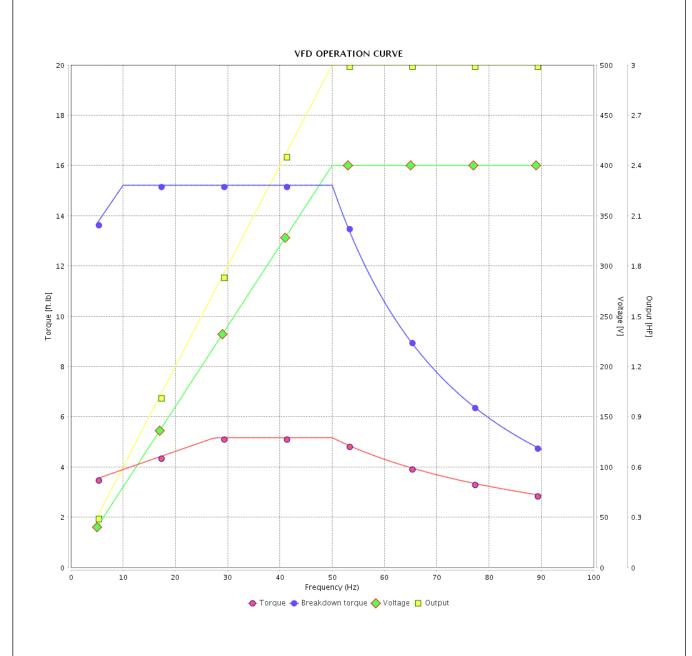
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12378662

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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.17 A : 7.6 : 5.43 ft.lb : 200 % : 280 % : 2900 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1889 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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Checked by				Page	Revision

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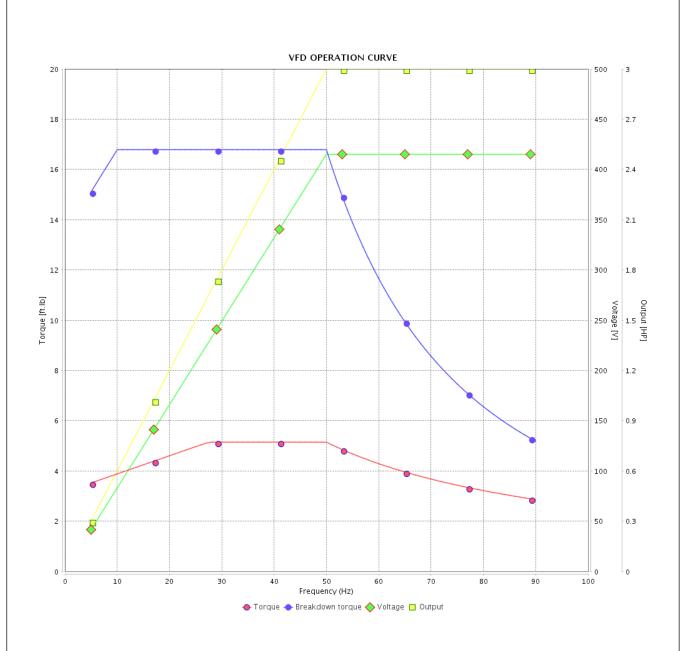
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12378662

Catalog #: 00336ET3E182T-W22



Domformon	. 445 V 50 H= 2D ID2		(
Performance	: 415 V 50 Hz 2P IE3			
Rated current	: 4.02 A	Moment of inertia (J)	: 0.1889 sq.ft.lb	
LRC	: 8.1	Duty cycle	: Cont.(S1)	
Rated torque	: 5.41 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.25	
Breakdown torque	: 310 %	Temperature rise	: 80 K	
Rated speed	: 2910 rpm	Design	: B	
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