DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11625694

03018ET3ER286TC-W22 Catalog #:

Frame : 286TC Cooling method : IC411 - TEFC

Insulation class Mounting : W-6

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

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 471 lb

Ailliude		. 1000 III.a.	S.I.	Applox	t. weigiit	. 4	1 10	
Protection degre	е	: IP55		Momer	nt of inertia (J)	: 5	5.85 sq.ft.lb	
Design		: B						
Output [HP]		30	25	25	25	30	30	30
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]		70.2/35.1	35.7	34.3	33.9	43.1	41.1	39.7
L. R. Amperes [A]		428/214	214	230	237	216	230	238
LRC [A]		6.1x(Code	6.0x(Code	6.7x(Code H)	7.0x(Code H)	5.0x(Code E)	5.6x(Code F)	6.0x(Code
		G)	Ġ)					G)
No load current [A	.]	26.0/13.0	12.9	13.8	14.5	12.9	13.8	14.5
Rated speed [RPI	Л]	1765	1460	1465	1470	1445	1455	1460
Slip [%]		1.94	2.67	2.33	2.00	3.67	3.00	2.67
Rated torque [ft.lb]]	89.3	89.9	89.6	89.3	109	108	108
Locked rotor torqu	ie [%]	240	200	229	260	170	190	220
Breakdown torque	: [%]	240	229	260	280	190	220	240
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		36s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)	27s (cold)
		20s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)	15s (hot)
Noise level ²		63.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
	25%	92.3	91.8	92.0	91.3	89.7	90.2	91.0
Efficiency (9/)	50%	93.0	92.1	92.1	91.6	90.0	90.5	91.2
Efficiency (%)	75%	93.0	92.5	92.8	92.5	90.2	91.0	91.7
	100%	93.6	92.6	92.7	92.6	90.2	91.0	91.7
	25%	0.46	0.46	0.43	0.40	0.52	0.49	0.46
Dower Footer	50%	0.70	0.70	0.67	0.64	0.76	0.73	0.70
Power Factor	75%	0.80	0.81	0.79	0.76	0.83	0.82	0.80
	100%	0.84	0.85	0.84	0.82	0.86	0.85	0.84

Drive end Non drive end Foundation loads

Bearing type 6311 C3 6211 C3 Max. traction : 894 lb Sealing V'Ring V'Ring : 1365 lb Max. compression

15000 h Lubrication interval 17000 h Lubricant amount 18 g 11 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 77.6A SF 1.15 SFA 89.3A

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

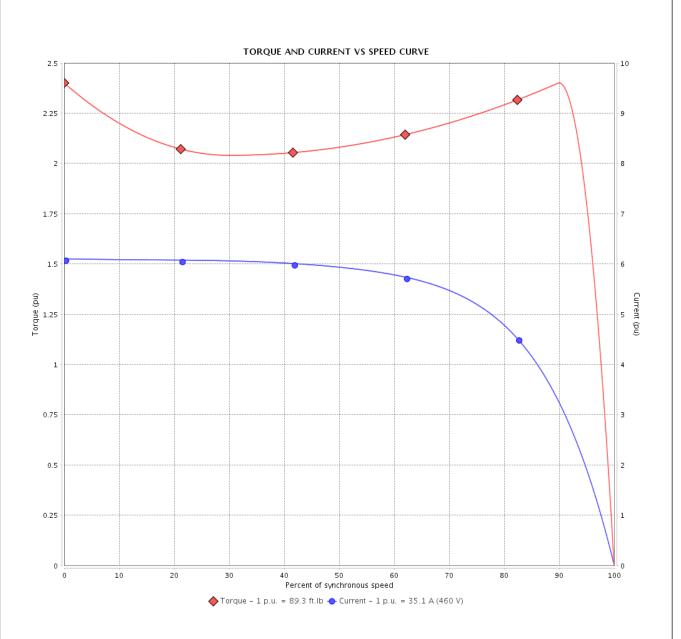


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11625694

Phase

Catalog #: 03018ET3ER286TC-W22



Performance : 230/460 V 60 Hz 4P Rated current : 70.2/35.1 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 89.3 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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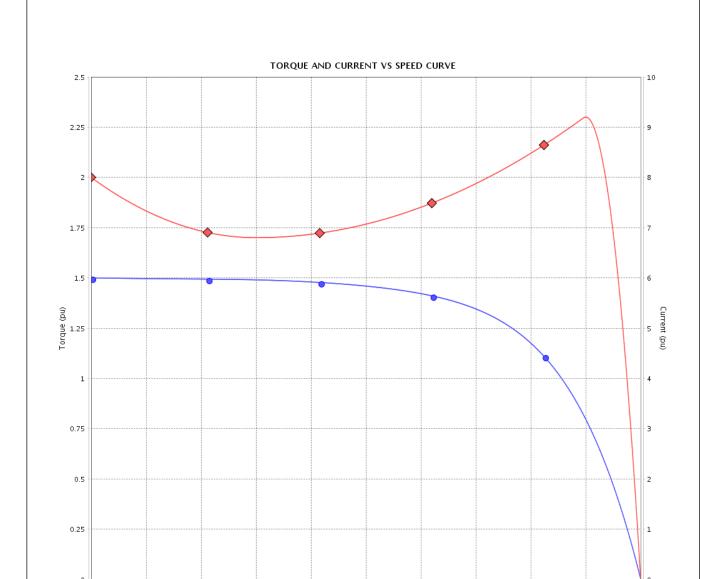


03018ET3ER286TC-W22

Customer Product line

: NEMA Premium Efficiency Three-Product code: 11625694

Catalog #:



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 35.7 A	Moment of inertia (J)	: 5.85 sq.ft.lb	
LRC	: 6.0	Duty cycle	: Cont.(S1)	
Rated torque	: 89.9 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 1460 rpm	Design	: B	

40 50 o. Percent of synchronous speed ◆ Torque – 1 p.u. = 89.9 ft.lb ◆ Current – 1 p.u. = 35.7 A (380 V)

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

LOCKCU TOLOT LITTLE	. 2	73 (cold) 103 (110t)			
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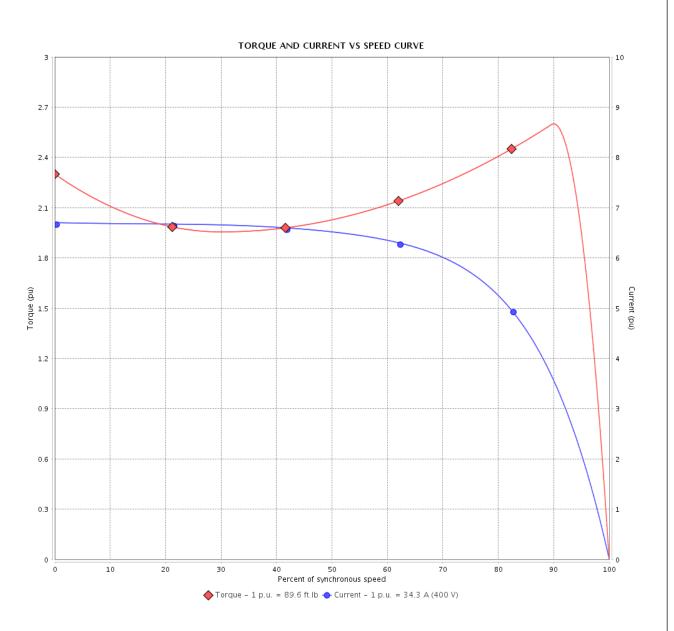
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11625694

Catalog #: 03018ET3ER286TC-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 34.3 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 89.6 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Locked rotor time

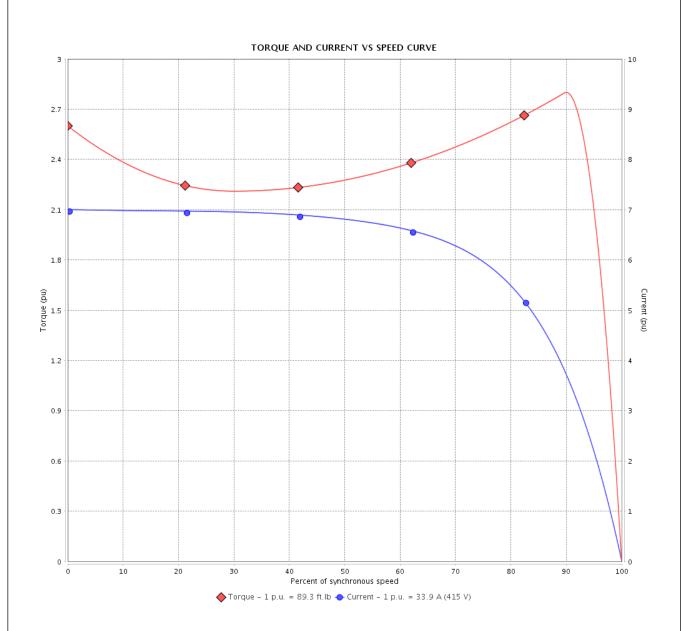
: 27s (cold) 15s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11625694 Catalog #: 03018ET3ER286TC-W22



Performance : 415 V 50 Hz 4P IE3 Rated current : 33.9 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 89.3 ft.lb Insulation class : F Rated torque : 260 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 280 % Temperature rise : B Rated speed : 1470 rpm Design Locked rotor time : 27s (cold) 15s (hot)

LOCKCU TOLOT LITT	. 2	73 (cold) 103 (110t)			
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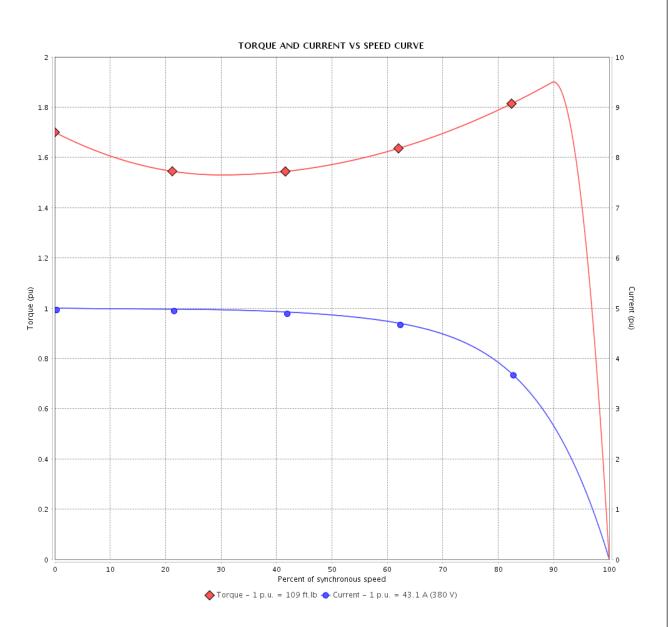


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 03018ET3ER286TC-W22

11625694



Performance	: 380 V 50 Hz 4P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 43.1 A : 5.0 : 109 ft.lb : 170 % : 190 % : 1445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : 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: 11625694 Catalog #: 03018ET3ER286TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25 Percent of synchronous speed ◆ Torque - 1 p.u. = 108 ft.lb ◆ Current - 1 p.u. = 41.1 A (400 V) Performance : 400 V 50 Hz 4P IE1 Rated current : 41.1 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 108 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 : 105 K Breakdown torque : 220 % Temperature rise Rated speed : 1455 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary**

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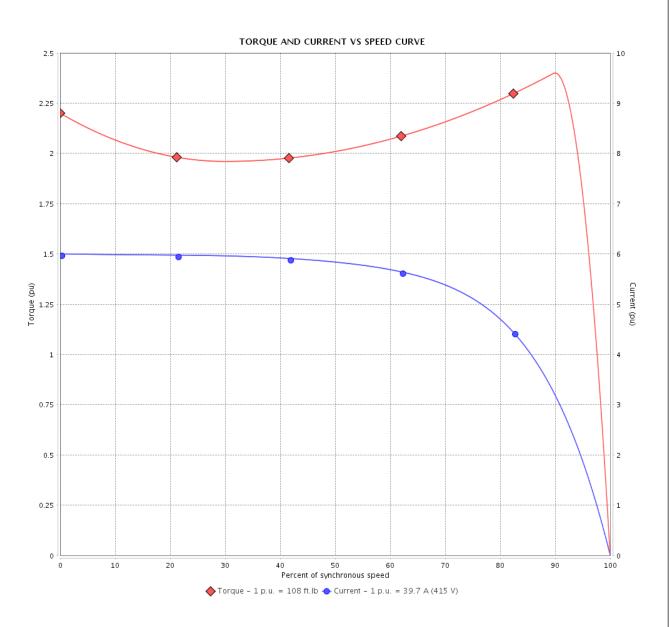


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11625694

Phase

Catalog #: 03018ET3ER286TC-W22



Performance	: 415 V 50 Hz 4P IE2			
Rated current	: 39.7 A	Moment of inertia (J)	: 5.85 sq.ft.lb	
LRC	: 6.0	Duty cycle	: Cont.(S1)	
Rated torque	: 108 ft.lb	Insulation class	: F	
Locked rotor torque	: 220 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 105 K	
Rated speed	: 1460 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)	1		

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

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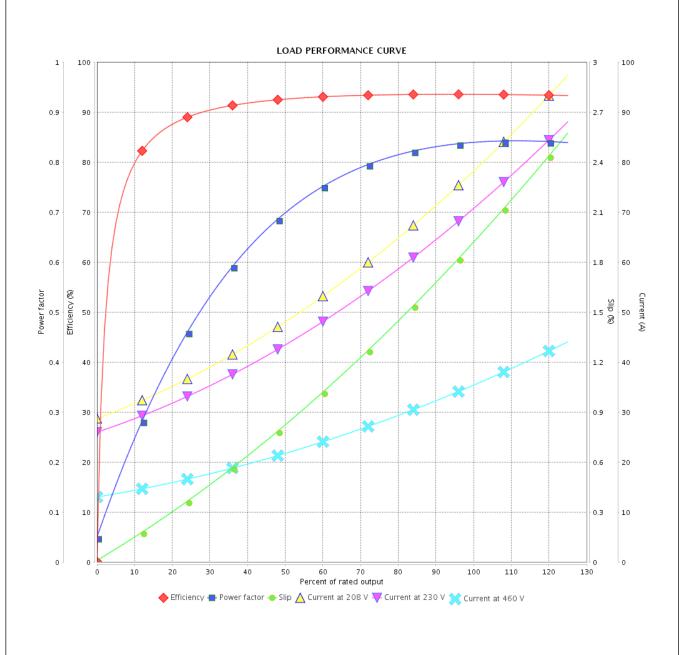


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11625694

Phase

Catalog #: 03018ET3ER286TC-W22



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: 7	70.2/35.1 A	Moment o	f inertia (J)	: 5.85 sq.ft.lb	
LRC	: (6.1	Duty cycle)	: Cont.(S1)	
Rated torque	: 8	39.3 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	240 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	240 %	Temperati	ıre rise	: 80 K	
Rated speed	: '	1765 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

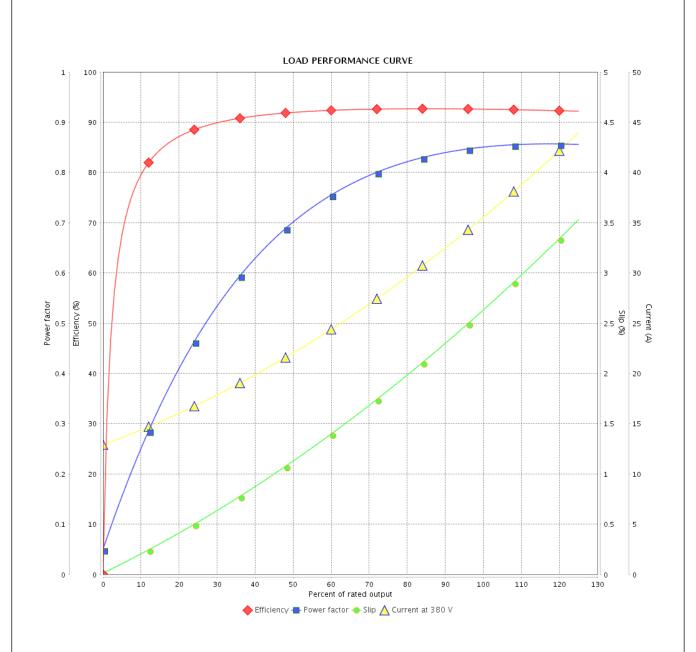
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Performance : 380 V 50 Hz 4P IE3 Rated current : 35.7 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.0 : 89.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

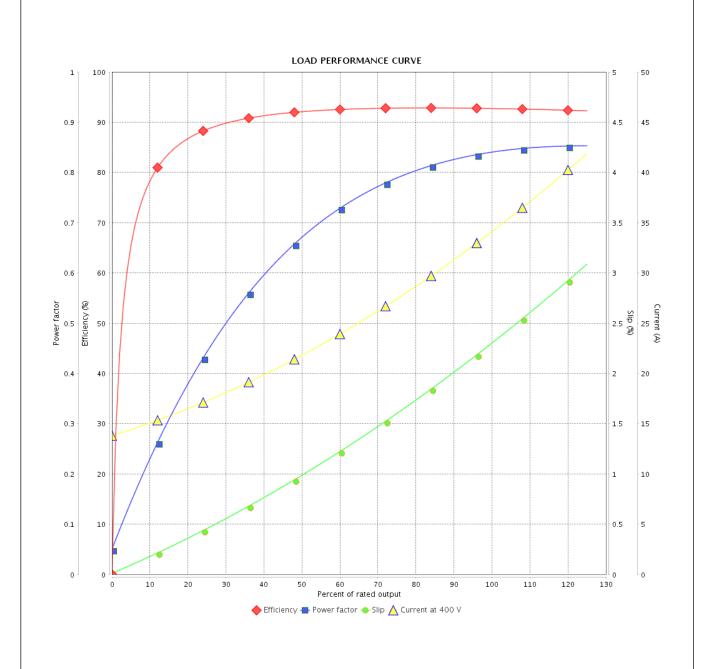
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11625694

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Performance	: 4	00 V 50 Hz 4P IE3	00 V 50 Hz 4P IE3			
Rated current	ated current : 34.3 A Moment of		f inertia (J)	: 5.85 sq.ft.lb		
LRC	: 6	6.7	Duty cycle	;	: Cont.(S1)	
Rated torque			class	: F		
Locked rotor torque		29 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	260 %	Temperati	Temperature rise : 80 K		
Rated speed	: 1	465 rpm	Design		: B	
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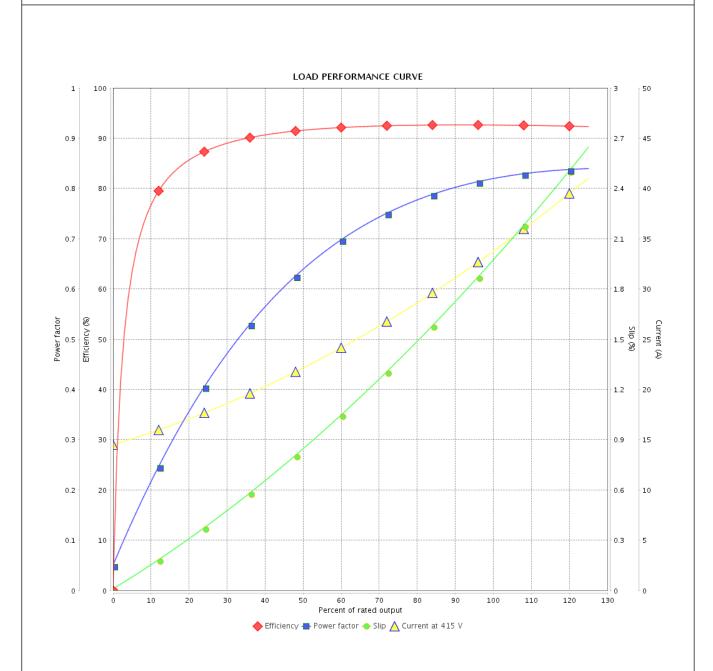
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03018ET3ER286TC-W22

11625694



Performance : 415 V 50 Hz 4P IE3 Rated current : 33.9 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 89.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

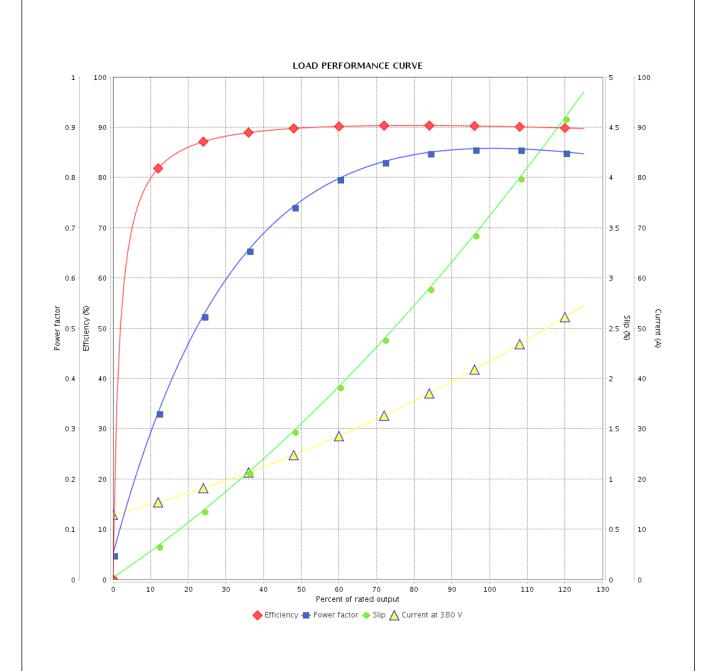


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11625694

Phase

Catalog #: 03018ET3ER286TC-W22



Performance	: :	380 V 50 Hz 4P IE1					
Rated current	d current : 43.1 A		Moment o	f inertia (J)	: 5.85 sq.ft.lb		
LRC	:	5.0	Duty cycle	;	: Cont.(S1)		
Rated torque	: '	109 ft.lb	Insulation	class	: F		
Locked rotor torque		170 %	Service fa	ctor	: 1.00		
Breakdown torque	:	190 %	Temperati	Temperature rise		: 105 K	
Rated speed	: '	1445 rpm	Design		: B		
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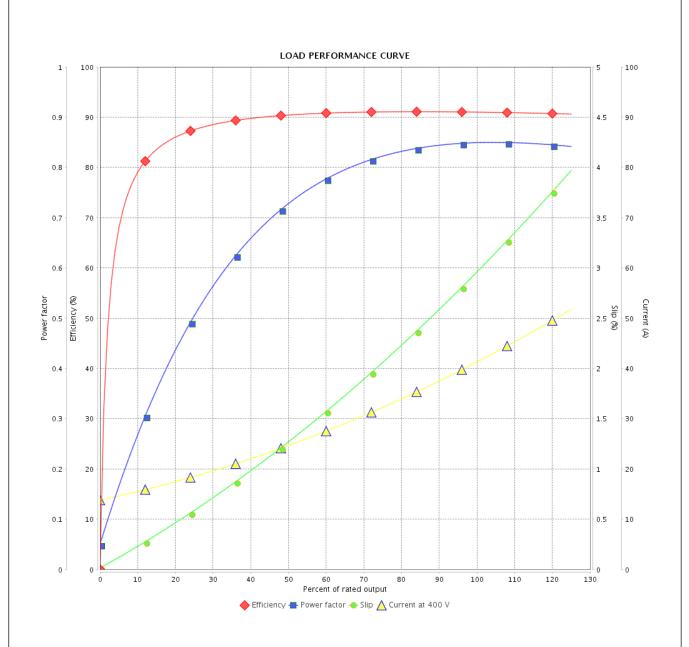
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Performance : 400 V 50 Hz 4P IE1 Rated current : 41.1 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.6 : 108 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 220 % Temperature rise : 105 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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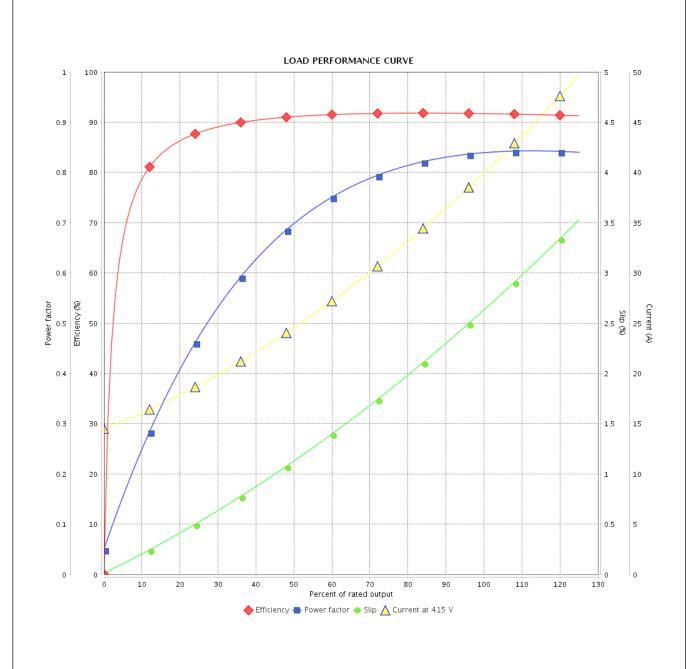


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11625694

Phase

Catalog #: 03018ET3ER286TC-W22



Performance	: 4	415 V 50 Hz 4P IE2				
Rated current	::	39.7 A	Moment o	f inertia (J)	: 5.85 sq.ft.lb	
LRC	: (6.0	Duty cycle)	: Cont.(S1)	
Rated torque	:	108 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	220 %	Service fa	Service factor : 1.00		
Breakdown torque	: :	240 %	Temperati	Temperature rise : 105 K		
Rated speed	:	1460 rpm	Design		: B	
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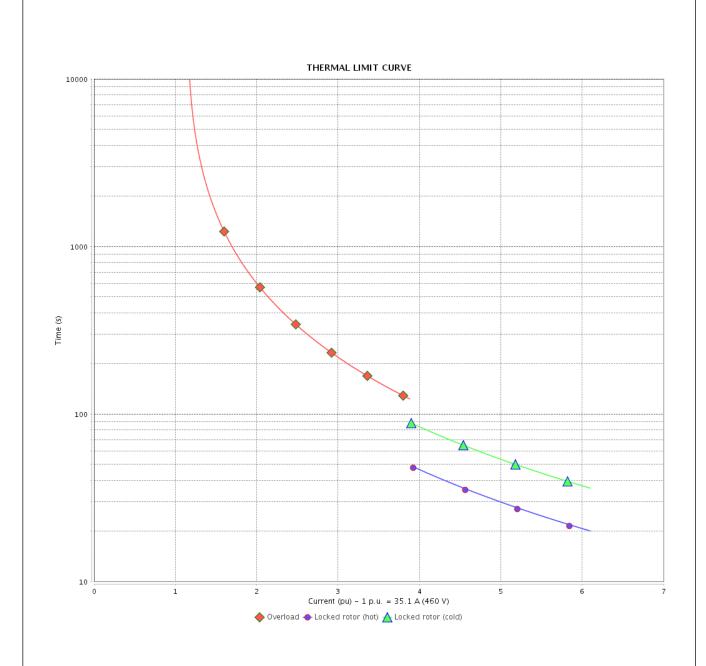


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code :	11625694 03018ET3ER	286TC-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 70 : 6. : 89 : 24 : 22 : 17	30/460 V 60 Hz 4P 0.2/35.1 A 1 9.3 ft.lb 40 % 40 % 765 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 5.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	Date
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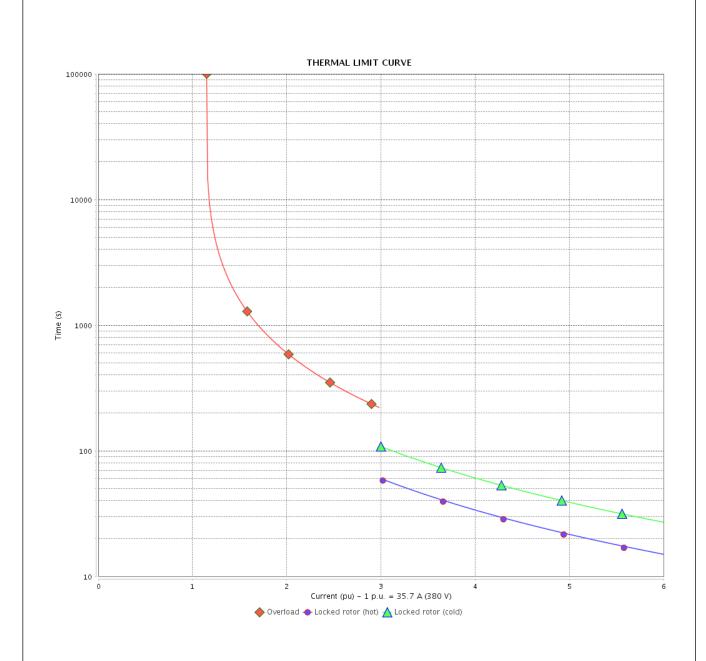


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11625694 03018ET3ER	286TC-W22
Performance Rated current		: 380 V 50 Hz 4P IE3 : 35.7 A	Moment	of inertia (J)	: 5 95 og ft lb	
LRC		: 6.0	Duty cycle	е	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 89.9 ft.lb : 200 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 229 %	Temperat		: 80 K	
Rated speed		: 1460 rpm	Design	· 	: B	
Heating constan						
Cooling constant	t 	Changes Comes		Doutour	Chaslis	Data
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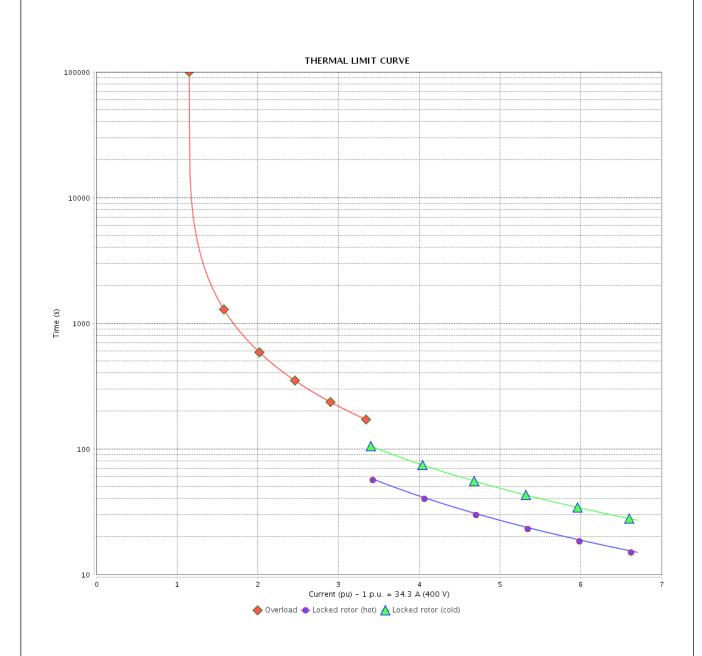


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11625694 03018ET3ER	286TC-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC		: 34.3 A : 6.7	Moment of Duty cycle	of inertia (J) e	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 89.6 ft.lb : 229 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu		: 260 %	Temperat		: 80 K	
Rated speed		: 1465 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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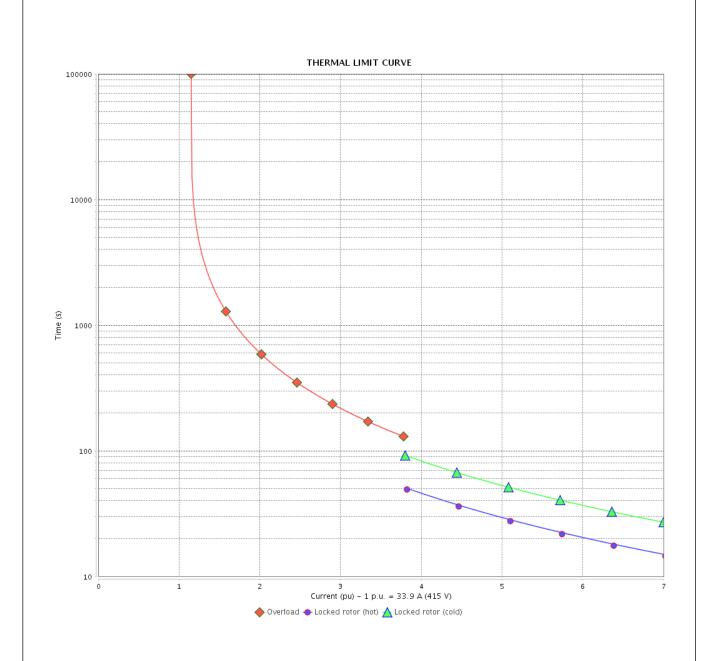


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11625694 03018ET3ER	286TC-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC		: 33.9 A : 7.0	Moment of Duty cycle	of inertia (J)	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque		: 89.3 ft.lb	Insulation	class	: F	
Locked rotor tord		: 260 %	Service fa		: 1.00	
Breakdown torqu Rated speed		: 280 % : 1470 rpm	Temperat Design	uic iise	: 80 K : B	
Heating constan						
Cooling constant	t			Ţ		
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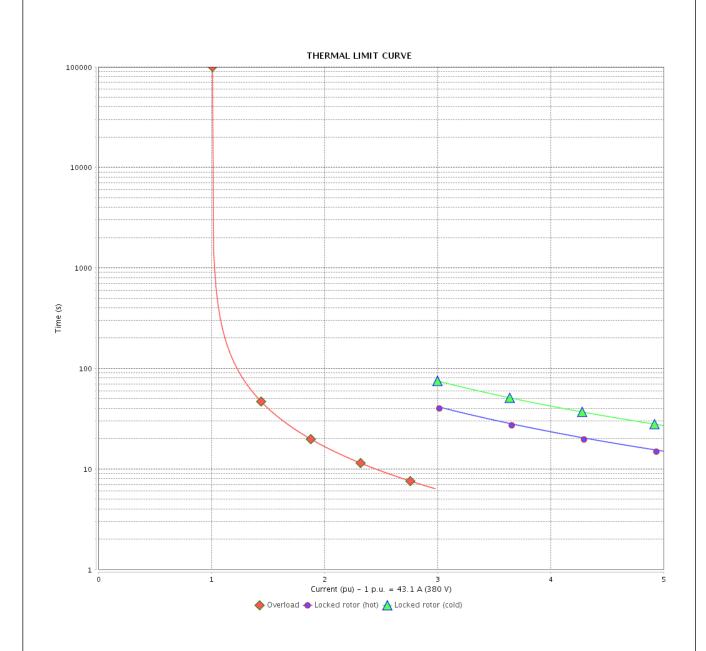


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11625694 03018ET3ER2	286TC-W22
Performance		: 380 V 50 Hz 4P IE1				
Rated current LRC		: 43.1 A : 5.0	Duty cycle		: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 109 ft.lb : 170 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ie	: 190 %	Temperat		: 105 K	
Rated speed		: 1445 rpm	Design		: B	
Heating constant						
Cooling constant	l	Changes Summary		Performed	Checked	Date
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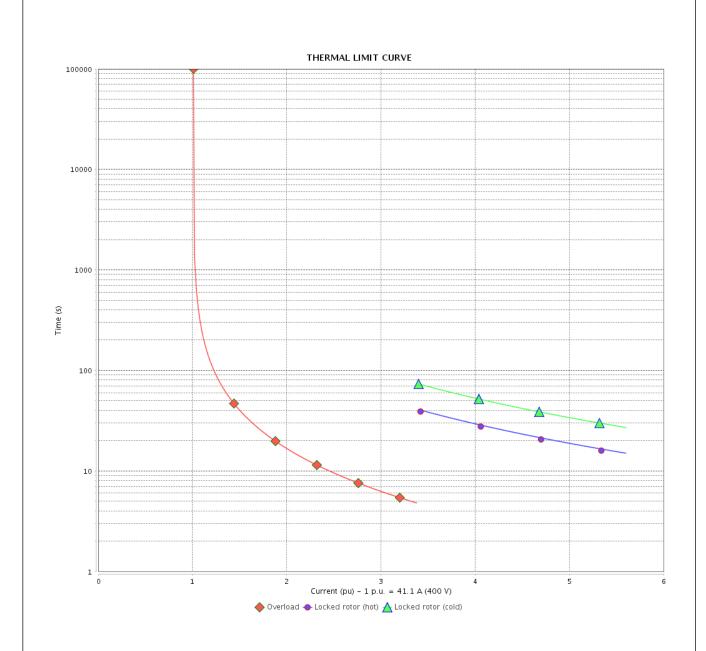


Customer	:					
Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	11625694 03018ET3ER	286TC-W22
Performance		00 V 50 Hz 4P IE1	· · · · · · · · · · · · · · · · · · ·			
Rated current LRC	: 5.		Duty cycle	f inertia (J)	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torqu		08 ft.lb 90 %	Insulation Service fa	class	: F : 1.00	
Breakdown torque	: 22	20 %	Temperatu		: 105 K	
Rated speed Heating constant	: 14	455 rpm	Design		: B	
Cooling constant						
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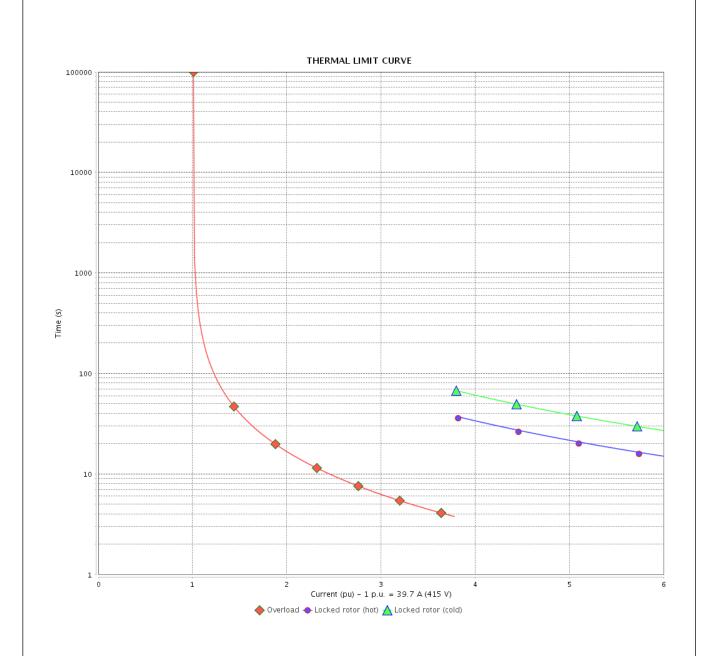


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11625694 03018ET3ER2	286TC-W22
Performance		: 415 V 50 Hz 4P IE2				
Rated current LRC		: 39.7 A : 6.0	Duty cycle		: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 108 ft.lb : 220 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue	: 240 %	Temperat		: 105 K	
Rated speed		: 1460 rpm	Design		: B	
Heating constan						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer



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Product line : NEMA Premium Efficiency Three- Product of

Phase

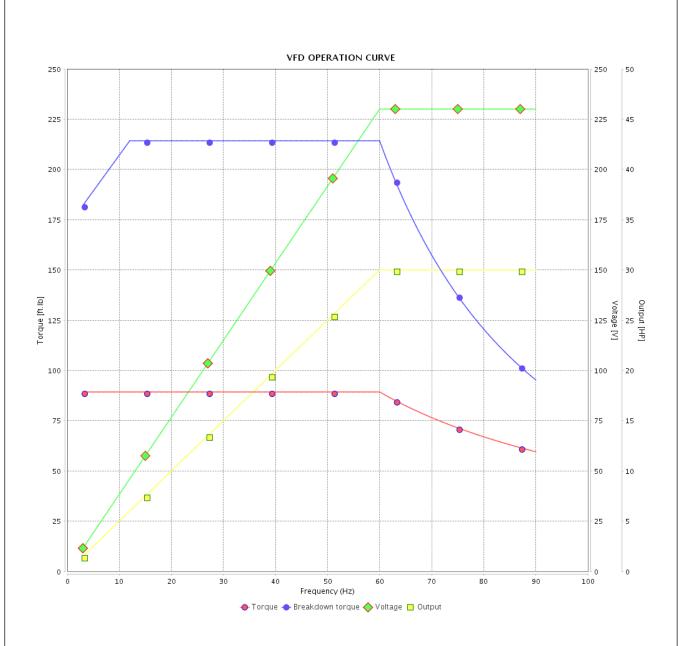
Product code: 11625694

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Performance : 230/460 V 60 Hz 4P : 70.2/35.1 A Rated current Moment of inertia (J) : 5.85 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 Insulation class : 89.3 ft.lb : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

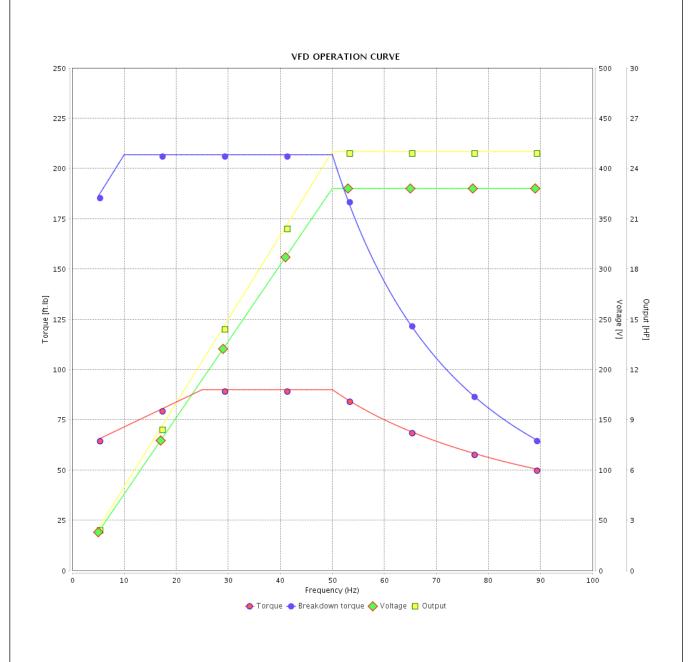


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11625694

Phase

Catalog #: 03018ET3ER286TC-W22



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current : 35		5.7 A	Moment o	Moment of inertia (J)		
LRC	: 6	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 8	9.9 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torque		29 %	Temperati	Temperature rise		
Rated speed	: 1	460 rpm	Design		: B	
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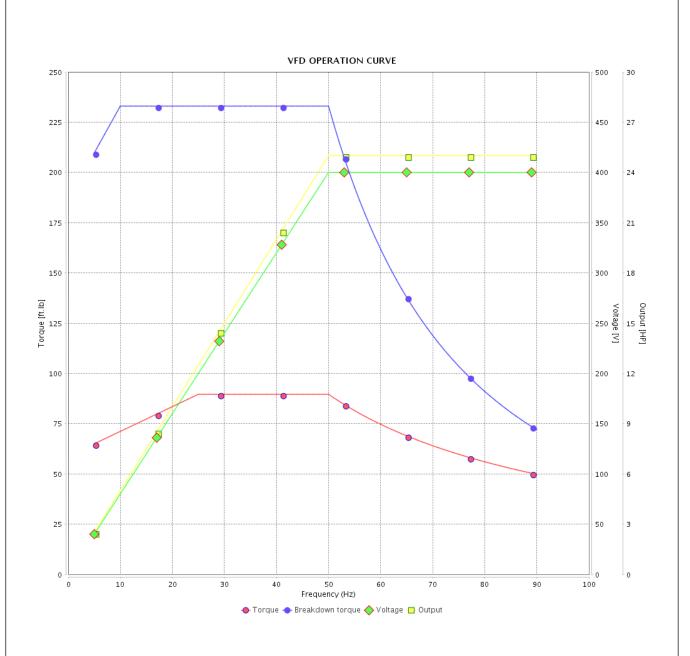
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11625694

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Performance : 400 V 50 Hz 4P IE3 Rated current : 34.3 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class : 89.6 ft.lb : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % 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



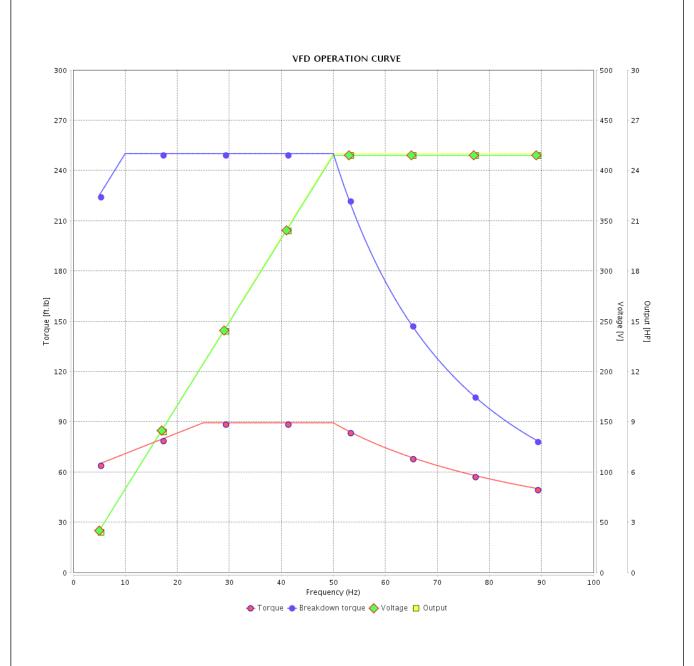
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03018ET3ER286TC-W22

11625694



Performance	:	415 V 50 Hz 4P IE3				
Rated current : 33.9 A		Moment o	Moment of inertia (J)			
LRC	:	7.0	Duty cycle	;	: Cont.(S1)	
Rated torque	:	89.3 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	260 %	Service factor		: 1.00	
Breakdown torque	kdown torque : 280 % Temperature rise		ıre rise	: 80 K		
Rated speed	:	1470 rpm	Design		: B	
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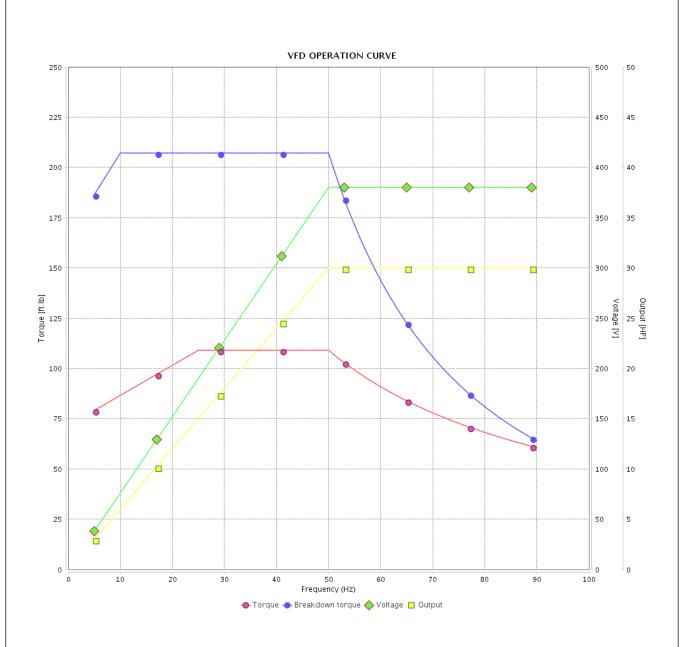
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Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11625694

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Performance : 380 V 50 Hz 4P IE1 Rated current : 43.1 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) : 109 ft.lb Insulation class : F Rated torque Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 1445 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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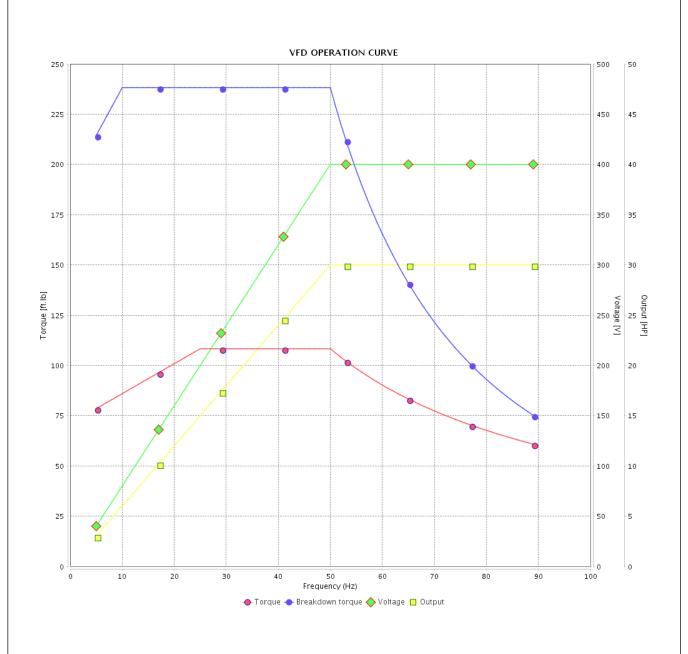
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Product line : NEMA Premium Efficiency Three- Product code : 11625694

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Performance	: 400 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.1 A : 5.6 : 108 ft.lb : 190 % : 220 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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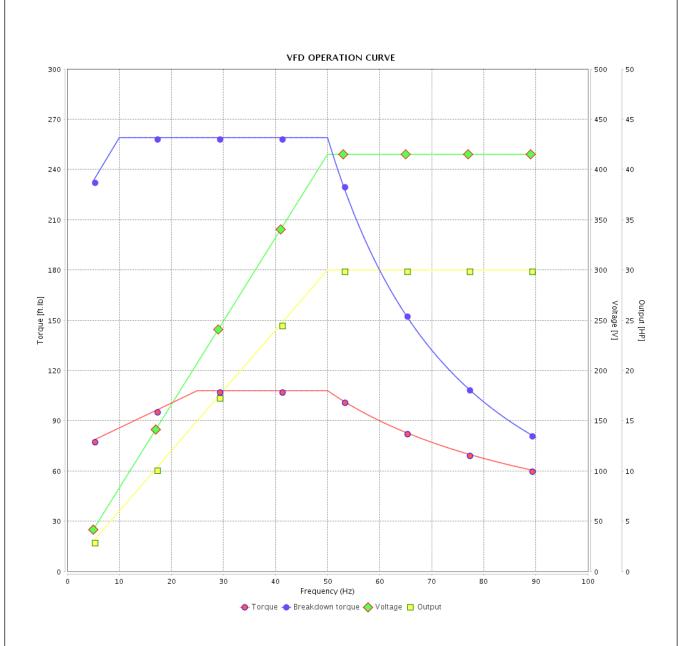
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Performance : 415 V 50 Hz 4P IE2 Rated current : 39.7 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.0 Insulation class : 108 ft.lb : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

