DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11457085

Phase

Catalog #: 03018ET3E286TC-W22

Frame : 284/6TC 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 : 477 lb

Protection degre	e	: 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)	G)					G)
No load current [A]	26.0/13.0	12.9	13.8	14.5	12.9	13.8	14.5
Rated speed [RPN	/ 1]	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	e [%]	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%							
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%							
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 : 891 lb Sealing : V'Ring V'Ring Max. compression : 1368 lb

Lubrication interval : 20000 h 20000 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



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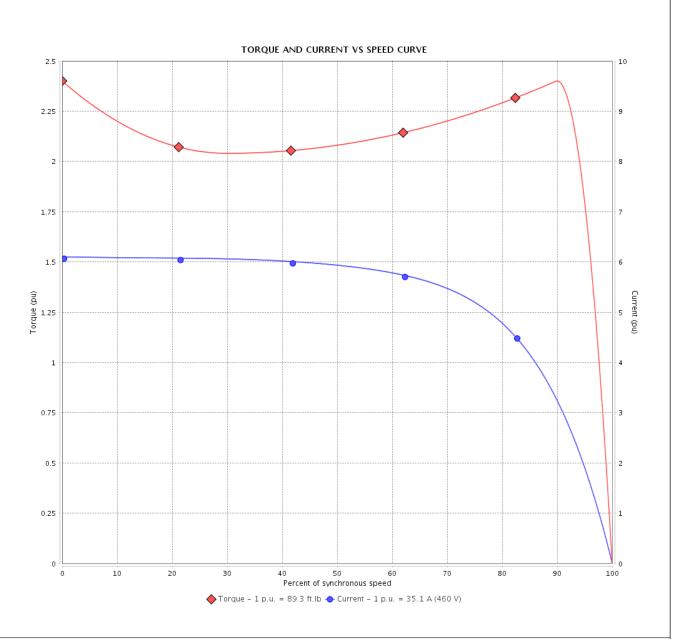
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #:

11457085

03018ET3E286TC-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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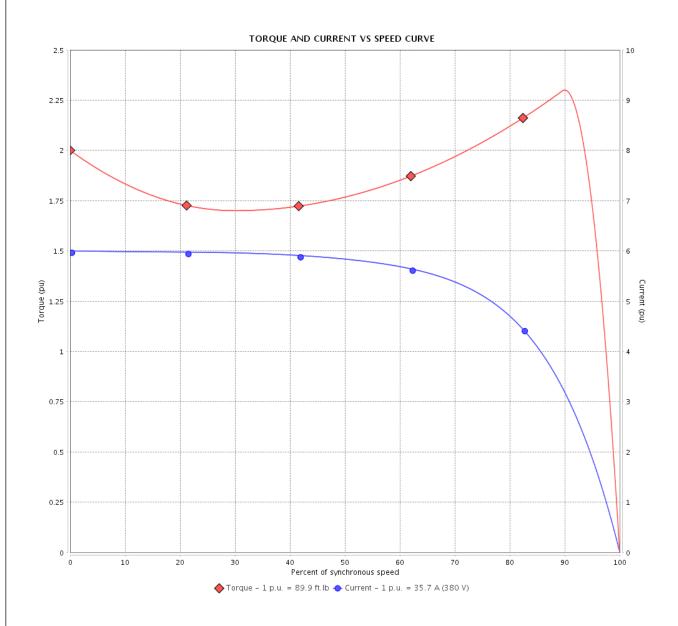
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11457085

Catalog #: 03018ET3E286TC-W22



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

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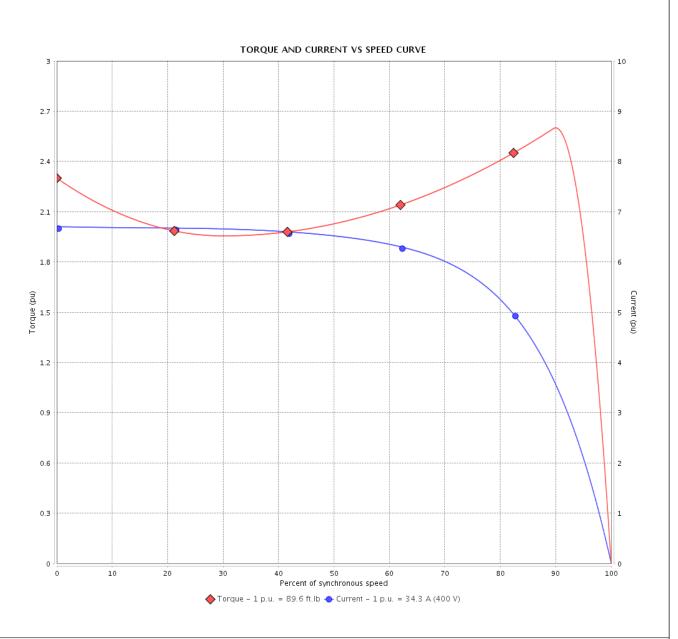


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11457085

Phase

Catalog #: 03018ET3E286TC-W22



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 34.3 A	Moment of inertia (J) Duty cycle Insulation class	: 5.85 sq.ft.lb
LRC	: 6.7		: Cont.(S1)
Rated torque	: 89.6 ft.lb		: F
Locked rotor torque	: 229 %	Service factor Temperature rise Design	: 1.00
Breakdown torque	: 260 %		: 80 K
Rated speed	: 1465 rpm		: 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: 11457085 Catalog #: 03018ET3E286TC-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 40 50 6. Percent of synchronous speed ◆ Torque - 1 p.u. = 89.3 ft.lb ◆ Current - 1 p.u. = 33.9 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current · 33 9 A Moment of inertia (.I) · 5 85 sq ft lb

LRC Rated torque Locked rotor torq Breakdown torqu	: 89 lue : 26 le : 28	: 7.0 : 89.3 ft.lb : 260 % : 280 %		Duty cycle Insulation class Service factor Temperature rise		
Rated speed Locked rotor time		470 rpm 	Design		: B	
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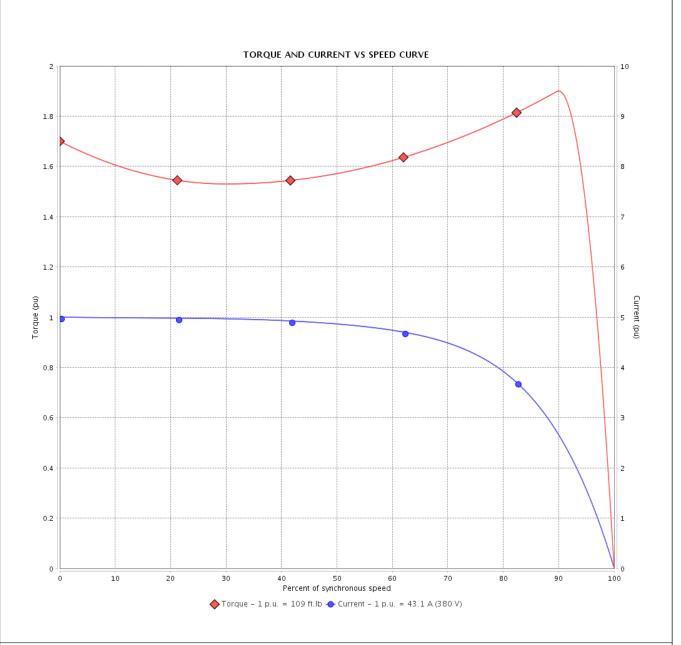


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11457085

Phase

Catalog #: 03018ET3E286TC-W22



Performance	: 380 V 50 Hz 4P IE1			
Rated current	: 43.1 A	Moment of inertia (J)	: 5.85 sq.ft.lb	
LRC Rated torque	: 5.0 : 109 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 170 %	Service factor	: 1.00	
Breakdown torque	: 190 %	Temperature rise	: 105 K	
Rated speed	: 1445 rpm	Design	: B	
Looked votov times	. 27a (aald) 45a (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: 11457085 Catalog #: 03018ET3E286TC-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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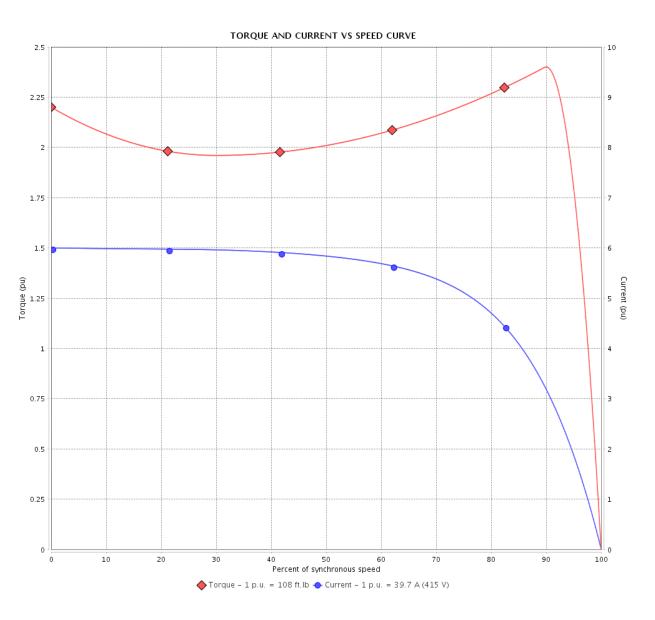


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11457085

Catalog #: 03018ET3E286TC-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 Locked rotor torque	: 108 ft.lb : 220 %	Insulation class Service factor	: F : 1.00	
Breakdown torque	: 240 %	Temperature rise	: 105 K	
Rated speed	: 1460 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)	I		

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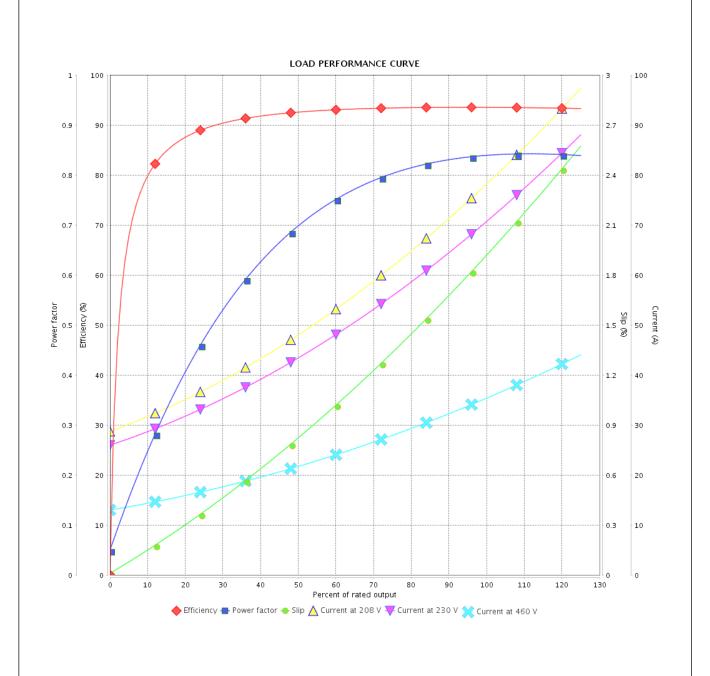


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11457085

Phase

Catalog #: 03018ET3E286TC-W22



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

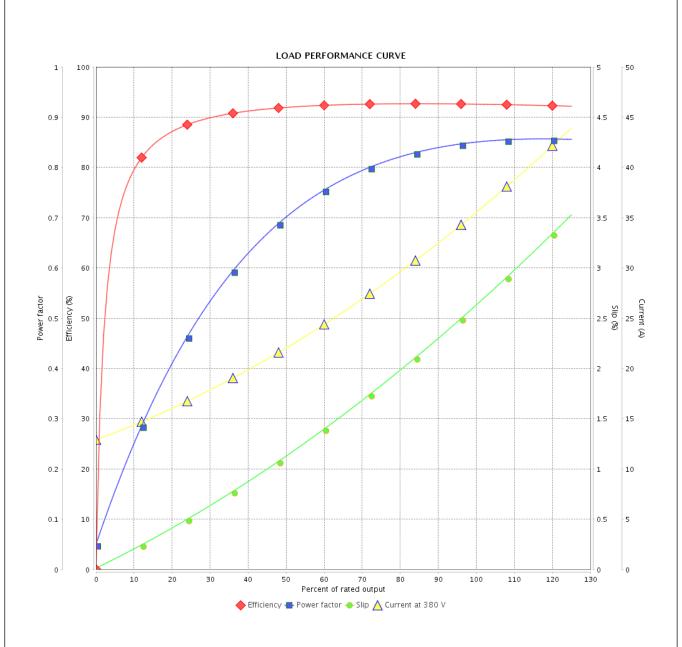
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Performance : 380 V 50 Hz 4P IE3 Rated current : 35.7 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.0 : 89.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.00 Breakdown torque : 229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

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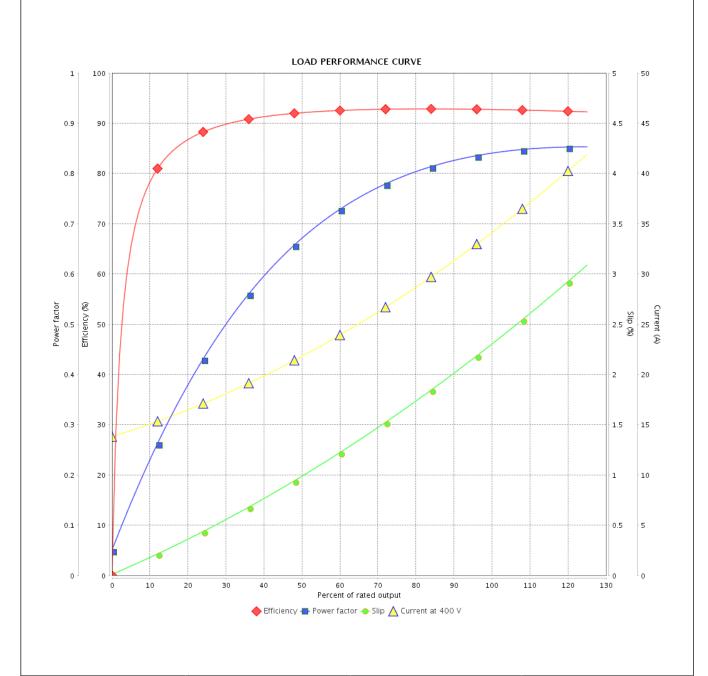
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03018ET3E286TC-W22

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Performance	:	400 V 50 Hz 4P IE3				
Rated current	::	34.3 A	Moment o	f inertia (J)	: 5.85 sq.ft.lb	
LRC	: (6.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: :	89.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue ::	229 %	Service fa	ctor	: 1.00	
Breakdown torque	e ::	260 %	Temperati	ure rise	: 80 K	
Rated speed	:	1465 rpm	Design		: B	
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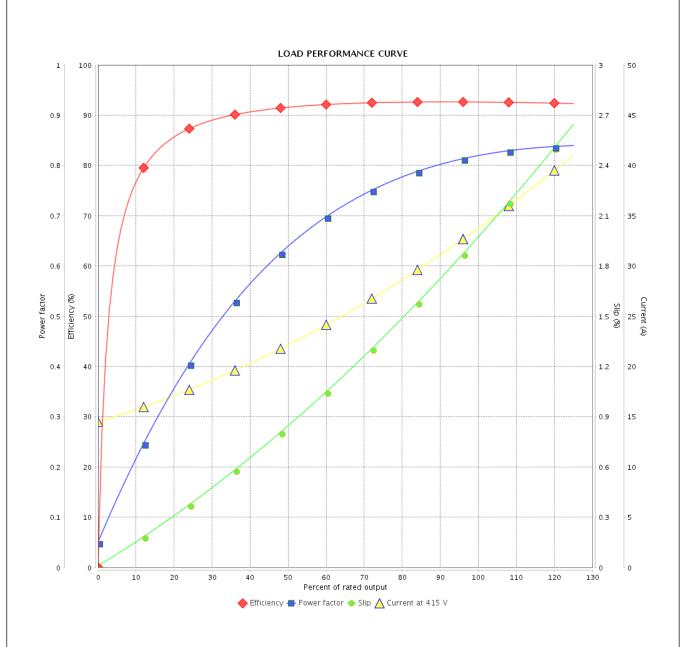
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Phase

Product code: 11457085

Catalog #: 03018ET3E286TC-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 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

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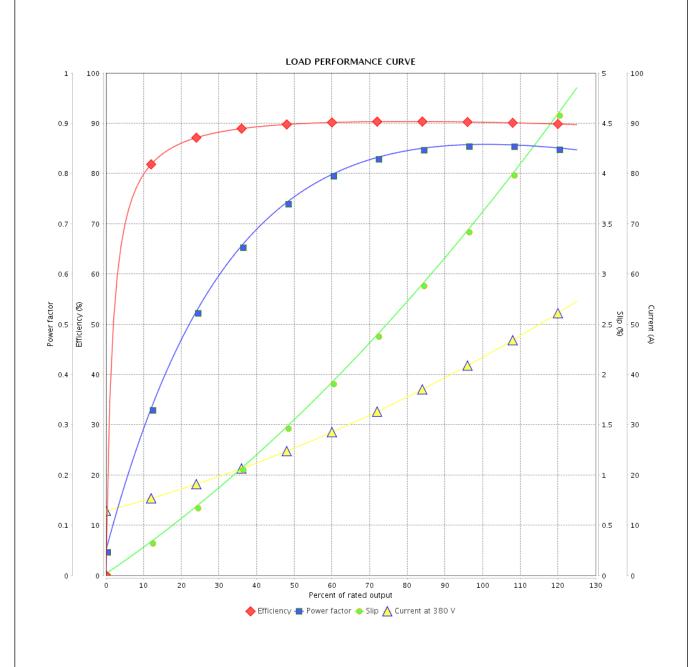


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11457085

Phase

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Performance	: :	380 V 50 Hz 4P IE1				
Rated current	: 4	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 torqu	e : '	170 %	Service fa	ctor	: 1.00	
Breakdown torque	:	190 %	Temperati	ıre rise	: 105 K	
Rated speed	: '	1445 rpm	Design		: B	
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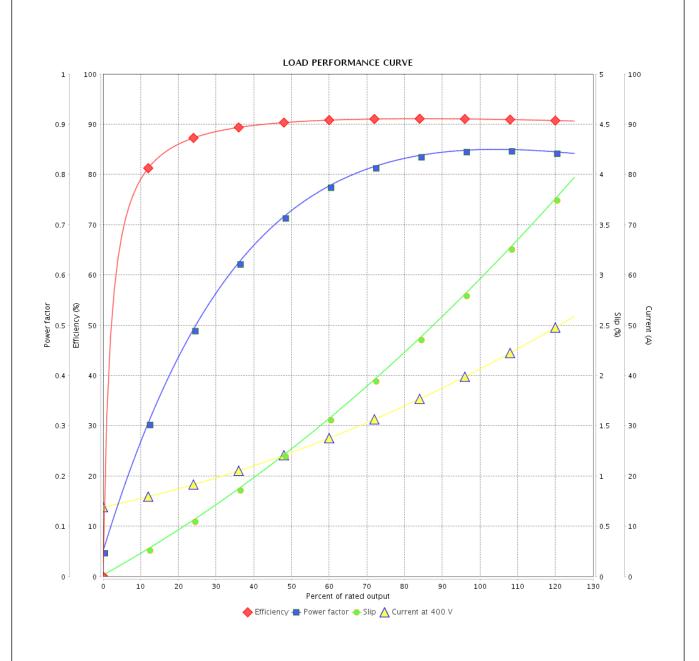
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Phase

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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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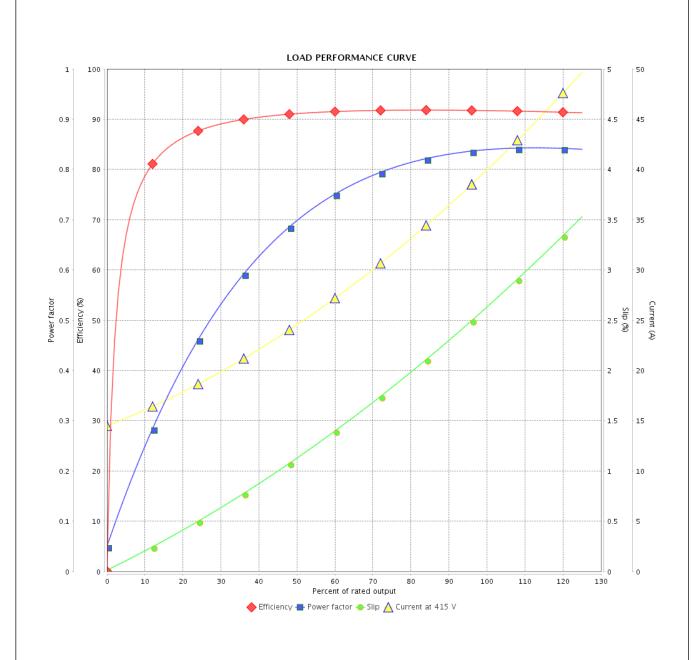
Customer

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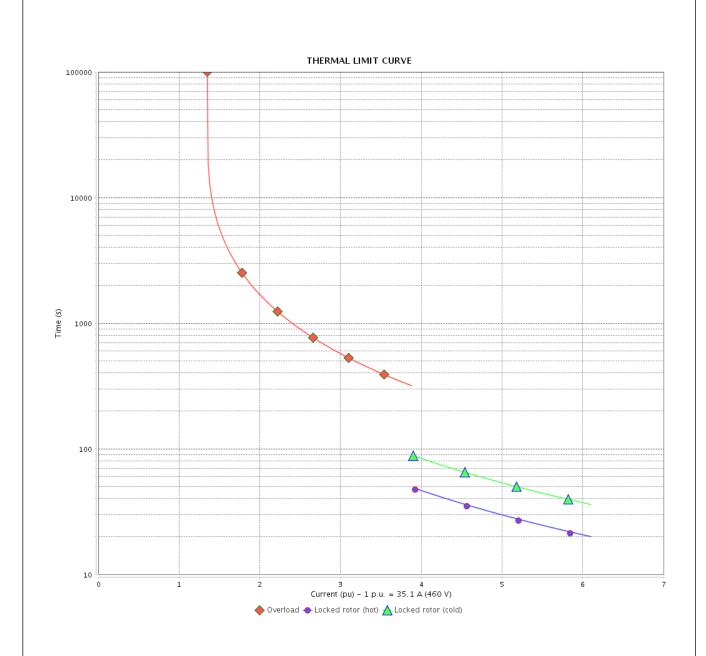


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Product line	:1	NEMA Premium Efficiency	Three-	Product code :	11457085	
		hase				OCTO MOO
				Catalog # :	03018ET3E28	361C-VV22
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 70 : 6.	0.2/35.1 A 1	Moment o	f inertia (J)	: 5.85 sq.ft.lb	
Rated torque	: 89	9.3 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque		40 % 40 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		40 % 765 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant		<u> </u>				
Cooling constant						
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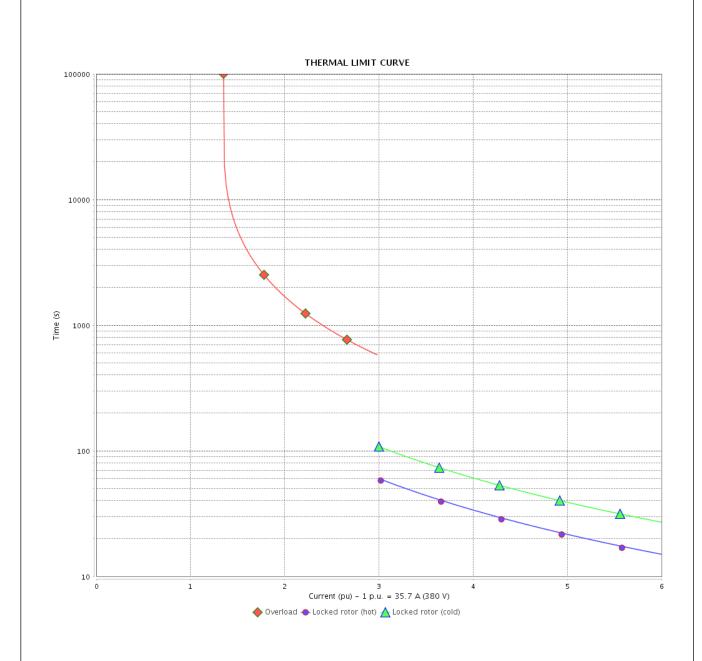


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11457085 03018ET3E28	86TC-W22
					00010210220	
Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC		: 35.7 A : 6.0	Moment of Duty cycle	of inertia (J)	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque		: 89.9 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 229 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 1460 rpm	Design	· 	: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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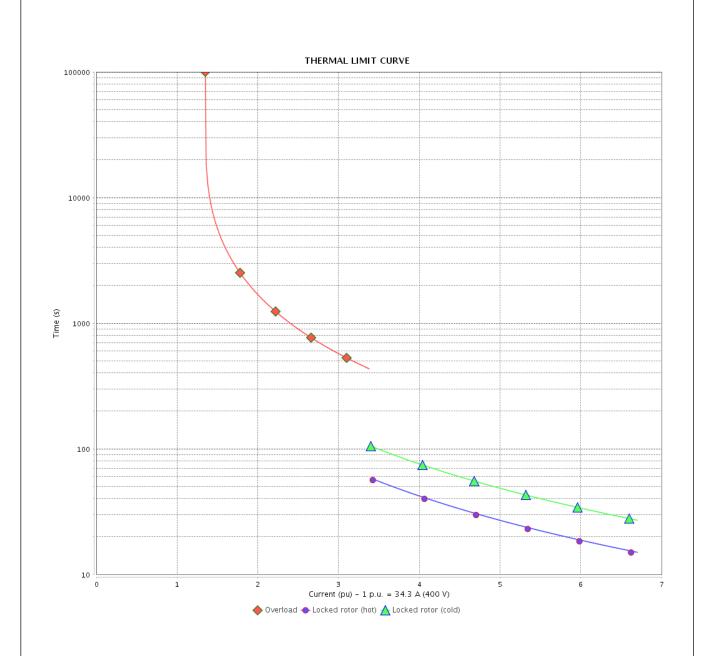


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11457085 03018ET3E2	 36TC-W22
			-		
Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC	: 34.3 A : 6.7	Moment o Duty cycle	f inertia (J)	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 89.6 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 229 % : 260 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed	: 1465 rpm	Design	2.01100	: B	
Heating constant					
Cooling constant					
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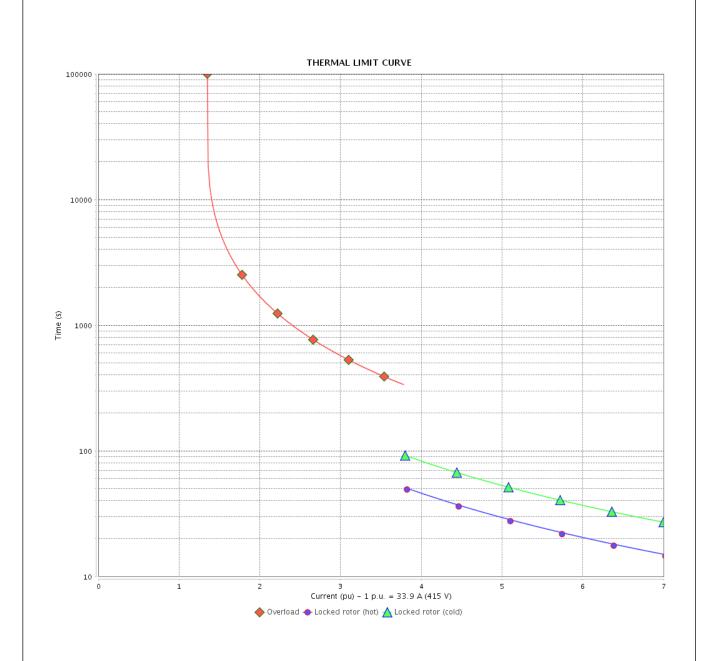


Rated current LRC : 7.0 Rated torque : 89.3 ft.lb Locked rotor torque : 260 % Breakdown torque : 280 % Rated speed : 1470 rpm Cooling constant Rev. Changes Summary Performed by Checked by Moment of inertia (J) : 5.85 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B Performed Checked Date					
Performance	Customer	:			
Performance	Product line	: NEMA Premium Efficiency Phase			
Rated current LRC : 7.0 Rated torque : 89.3 ft.lb Locked rotor torque : 260 % Breakdown torque : 280 % Rated speed : 1470 rpm Cooling constant Rev. Changes Summary Performed by Checked by Moment of inertia (J) : 5.85 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B Performed Checked Date			Catalog # :	03018ET3E286	STC-W22
Rated current LRC : 7.0 Rated torque : 89.3 ft.lb Locked rotor torque : 260 % Breakdown torque : 280 % Rated speed : 1470 rpm Cooling constant Rev. Changes Summary Performed by Checked by Moment of inertia (J) : 5.85 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B Performed Checked Date					
LRC : 7.0 Duty cycle : Cont.(S1) Rated torque : 89.3 ft.lb Insulation class : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by	Performance	: 415 V 50 Hz 4P IE3			
Heating constant Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision	Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.0 : 89.3 ft.lb : 260 % : 280 %	Duty cycle Insulation class Service factor Temperature rise	: Cont.(S1) : F : 1.00 : 80 K	
Cooling constant Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision		r-			
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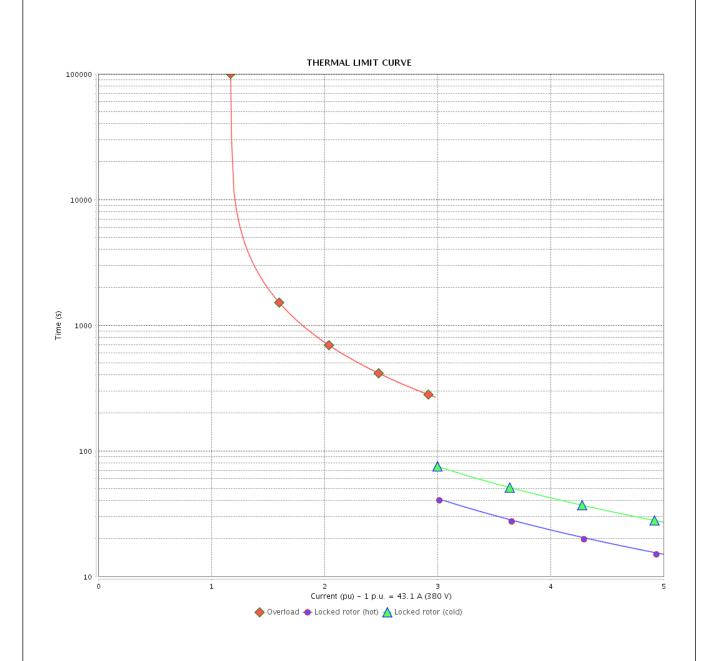


Customer	:				-	
Product line	1:	NEMA Premium Efficiency	Three-	Product code :	11457085	
	P	hase		Catalog # :	03018ET3E28	86TC-W22
					03010213220	0010-4422
Performance	: 38	80 V 50 Hz 4P IE1				
Rated current		3.1 A	Moment o	f inertia (J)	: 5.85 sq.ft.lb	
LRC Rated torque	: 5. : 10	.0 09 ft.lb	Duty cycle Insulation	: class	: Cont.(S1) : F	
Locked rotor torqu	e : 17	70 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed		90 % 445 rpm	Temperatu Design	ire rise	: 105 K : B	
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Heating constant Cooling constant						
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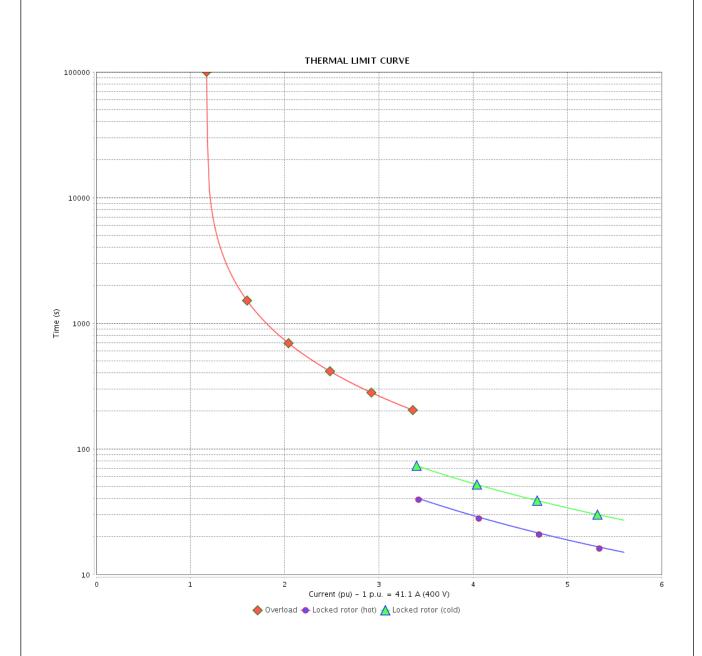


Customer	:			·	
Product line	: NEMA Premium Efficier	ncy Three-	Product code :	11457085	
	Phase		Catalog # :	03018ET3E2	96TC \N/22
			Catalog # .	03016E13E2	001G-VVZZ
Performance	: 400 V 50 Hz 4P IE1				
Rated current LRC	: 41.1 A : 5.6	Moment of Duty cycle	of inertia (J)	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 108 ft.lb	Insulation	class	: F	
Locked rotor torque	: 190 % : 220 %	Service fa		: 1.00 : 105 K	
Breakdown torque Rated speed	: 220 % : 1455 rpm	Temperati Design	uic IISC	: 105 K : B	
Heating constant					
Cooling constant					
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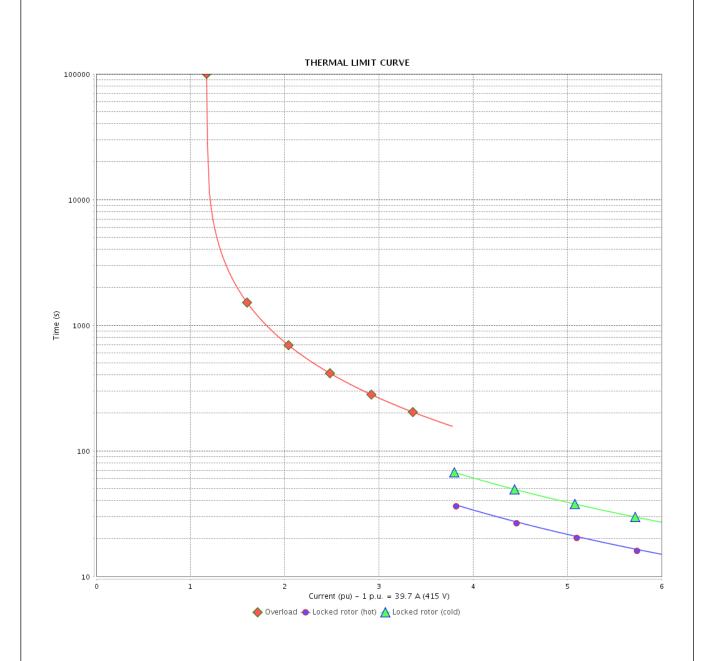


Customer		:				
Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	11457085 03018ET3E2	86TC-W22
Performance Rated current LRC	:	415 V 50 Hz 4P IE2 39.7 A 6.0	Moment o	f inertia (J)	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord Breakdown torqu Rated speed	: que : sue :	108 ft.lb 220 % 240 % 1460 rpm	Insulation Service fa Temperatu Design	class ctor	: Cont.(ST) : F : 1.00 : 105 K : B	
Heating constant		Changes Owner		Dants	Ohaalia	Dete
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Phase

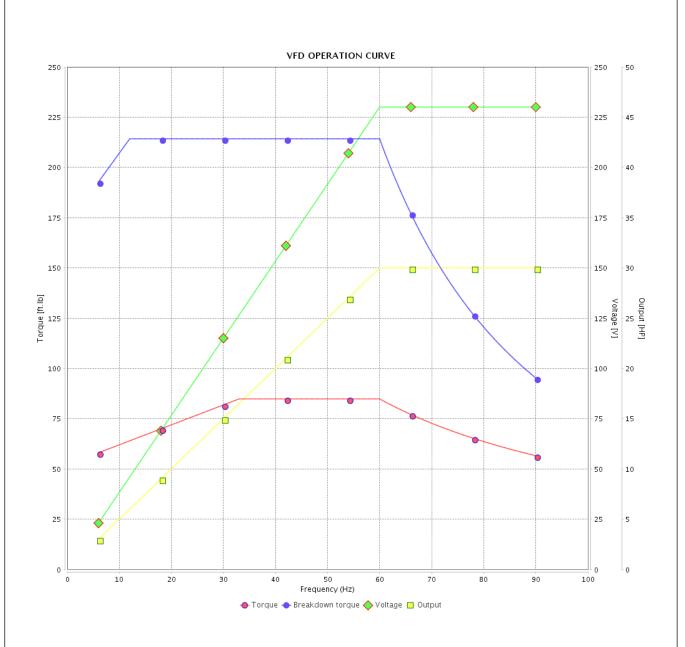
Product code: 11457085

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Performance		: 230/460 V 60 Hz 4	.P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	ue e	: 70.2/35.1 A : 6.1 : 89.3 ft.lb : 240 % : 240 % : 1765 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ector	: 5.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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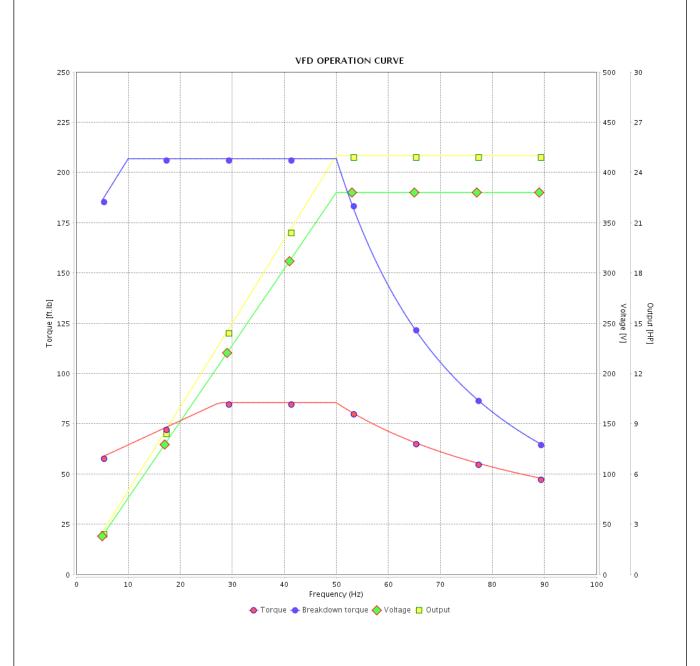
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.7 A : 6.0 : 89.9 ft.lb : 200 % : 229 % : 1460 rpm	Moment of in Duty cycle Insulation con Service factor Temperature Design	lass	: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Product line : NEMA Premium Efficiency Three- P

Phase

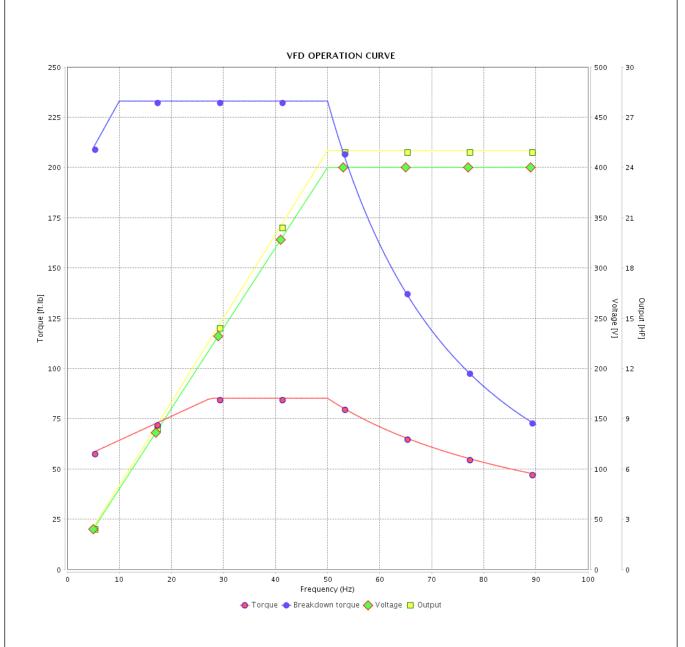
Product code: 11457085

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Performance		: 400 V 50 Hz 4P II	≣3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	lue le	: 34.3 A : 6.7 : 89.6 ft.lb : 229 % : 260 % : 1465 rpm	Duty of Insula Service	ion class e factor rature rise	: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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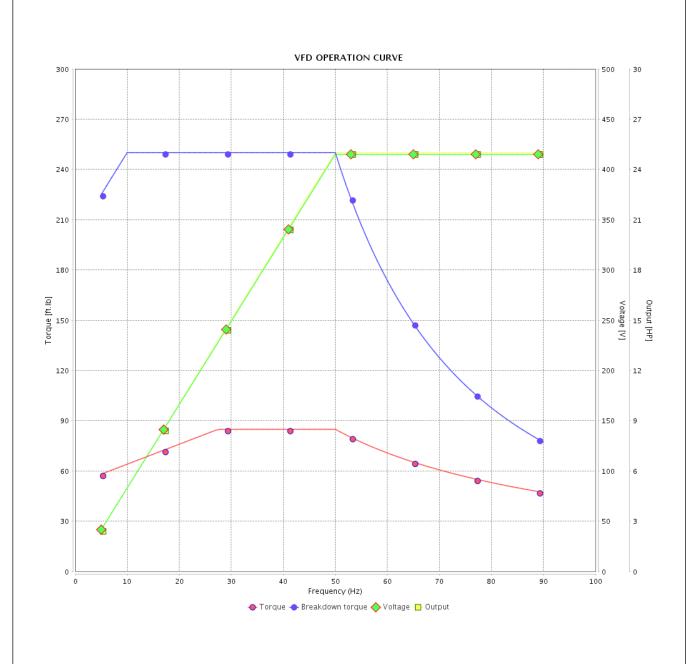
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Product line : NEMA Premium Efficiency Three- Product code : 11457085

Phase

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Performance	: 415 V 50 Hz 4P IE3					
Rated current	: 33.9 A	Moment of inerti	a (J)	: 5.85 sq.ft.lb		
LRC	: 7.0	Duty cycle		: Cont.(S1)		
Rated torque	: 89.3 ft.lb	Insulation class		: F		
Locked rotor torque	: 260 %	Service factor		Service factor : 1.00		
Breakdown torque	: 280 %	Temperature rise		: 80 K		
Rated speed	: 1470 rpm	Design		: B		
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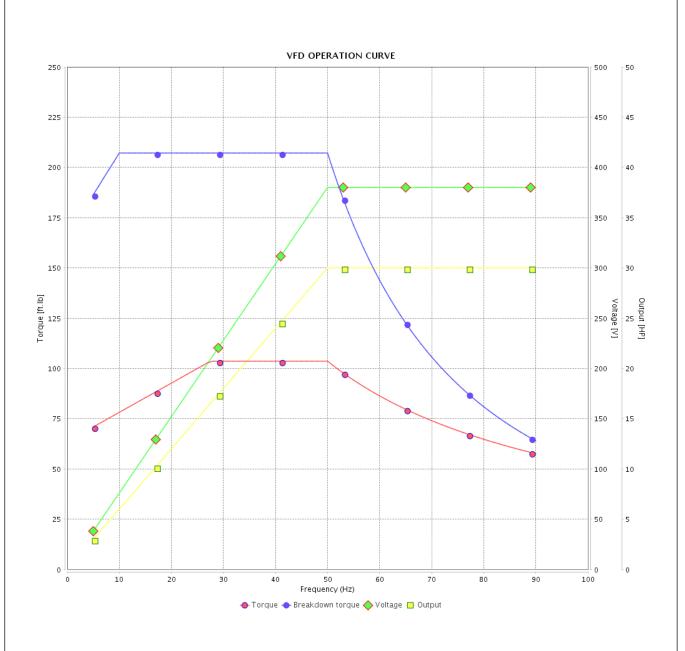
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11457085

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					.	
Performance	: 38	30 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor tord	: 5. : 10	3.1 A 0 09 ft.lb 70 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00	
Breakdown torqu Rated speed	ue : 19	90 % 445 rpm	Temperature rise Design		: 105 K : B	
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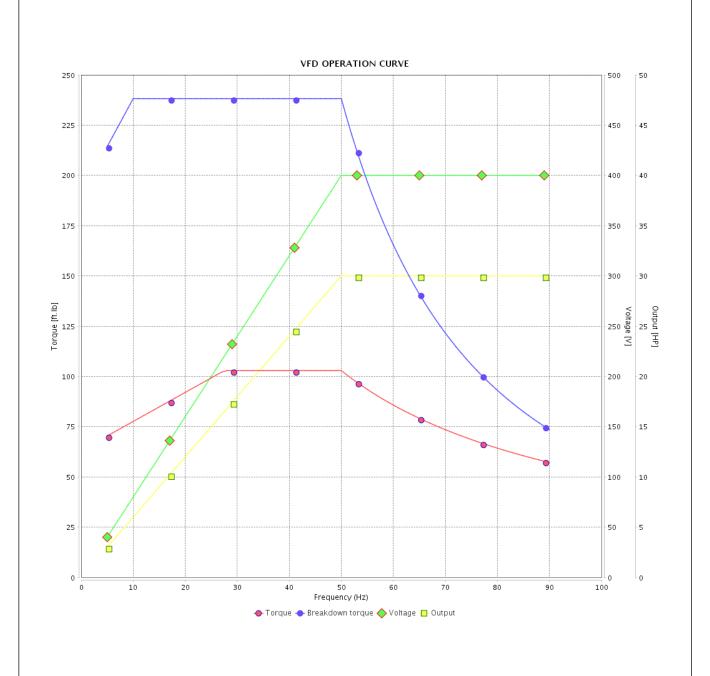


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11457085

Phase

Catalog #: 03018ET3E286TC-W22



Performance		: 400 V 50 Hz 4P IE1							
Rated current	: .	41.1 A	A Moment of inertia (J)		: 5.85 sq.ft.lb				
LRC	:	5.6	Duty cycle	Duty cycle		: Cont.(S1)			
Rated torque	:	108 ft.lb	Insulation class		:F				
Locked rotor torqu	ue :	190 %	Service fa	Service factor		: 1.00			
Breakdown torque	e ::	220 %	Temperati	Temperature rise					
Rated speed	:	1455 rpm Design		: B					
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Product line : NEMA Premium Efficiency Three-

Phase

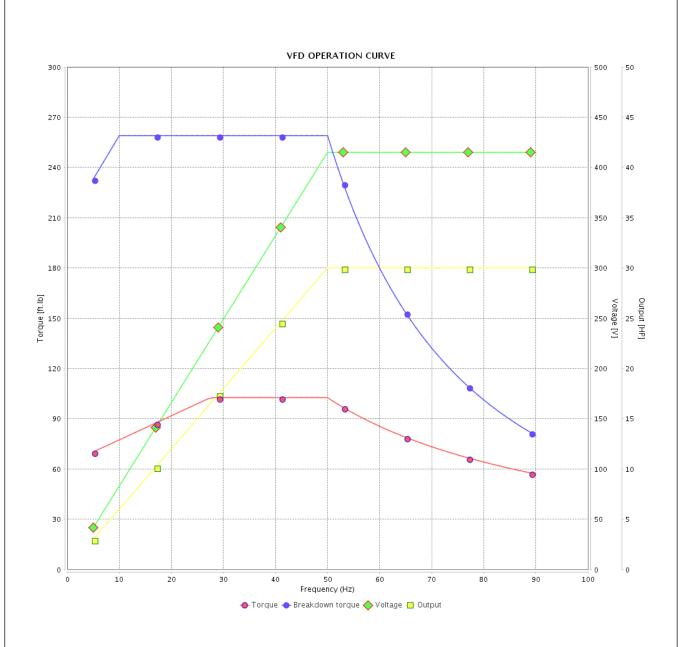
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Performance		: 415 V 50 Hz 4P	IE2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 39.7 A : 6.0 : 108 ft.lb : 220 % : 240 % : 1460 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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