DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13688121

Phase

Catalog #: 03018ET3E286TC-W22G

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 : 475 lb
Protection degree : IP55 Moment of inertia (J) : 5.85 sq.ft.lb

Design	=	. 1P33 : B		Moment of Inertia (J) . 5.65 sq.it.ib				
		30	25	25	25	30	30	30
Output [HP]			-	_	-			
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 [RPM	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 torque [%]		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 (%)	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 Factor 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

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

Bearing type : 6311 C3 6211 C3 Max. traction : 892 lb Sealing : V'Ring V'Ring Max. compression : 1367 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

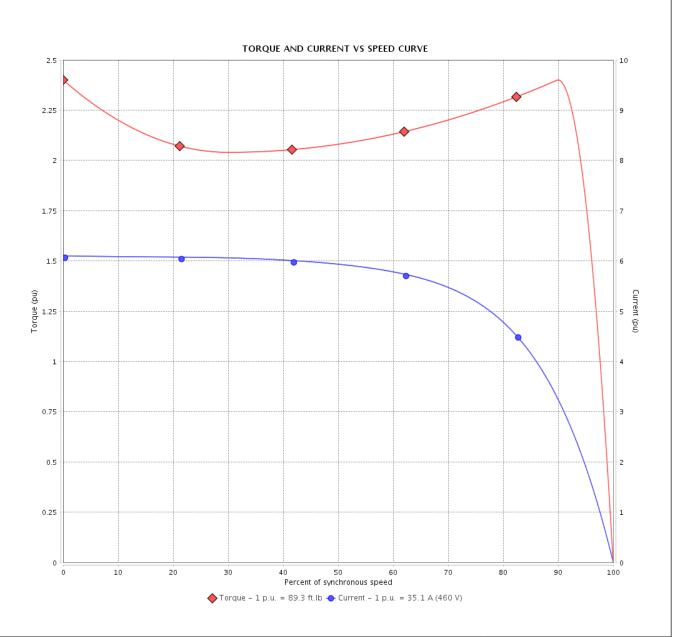


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13688121

Phase

Catalog #: 03018ET3E286TC-W22G



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: 13688121 Catalog #: 03018ET3E286TC-W22G 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. = 89.9 ft.lb ◆ Current - 1 p.u. = 35.7 A (380 V) 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) : 89.9 ft.lb Insulation class Rated torque : F : 200 % Locked rotor torque 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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Three Phase Induction Motor - Squirrel Cage



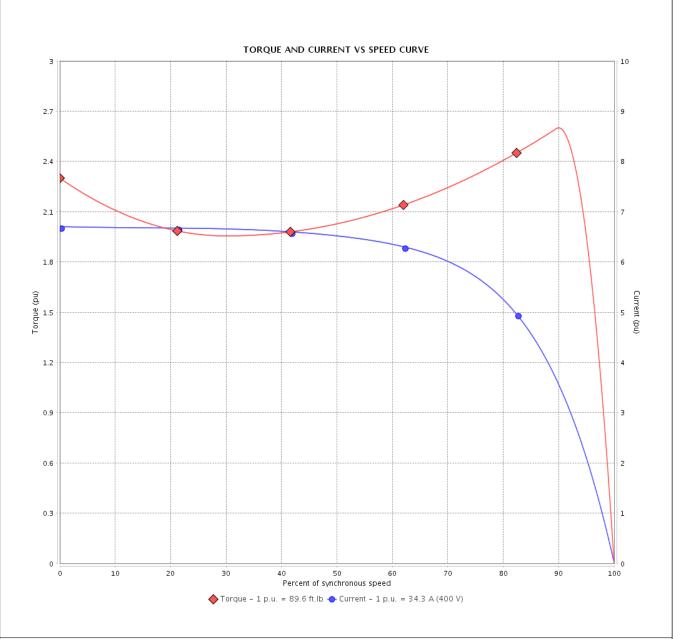
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03018ET3E286TC-W22G

13688121



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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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13688121 Catalog #: 03018ET3E286TC-W22G 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 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

Percent of synchronous speed ◆ Torque - 1 p.u. = 89.3 ft.lb ◆ Current - 1 p.u. = 33.9 A (415 V)

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

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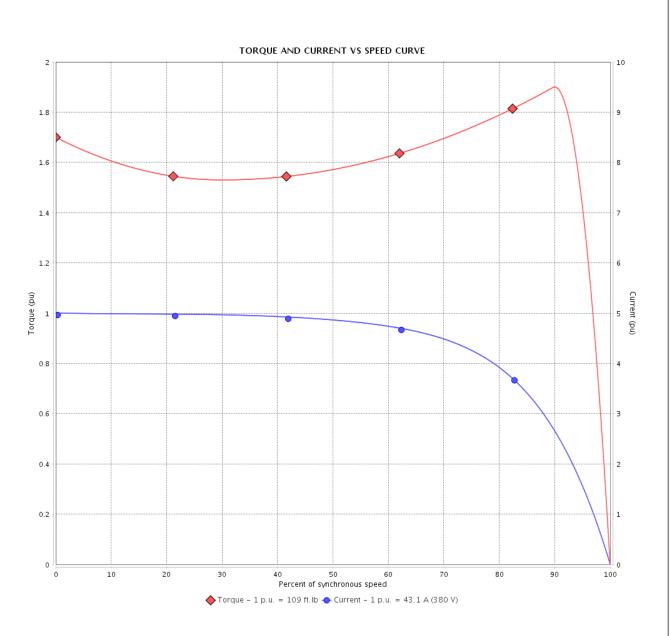


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13688121

Phase

Catalog #: 03018ET3E286TC-W22G



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) Insulation class Rated torque : 109 ft.lb : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 1445 rpm Design : B

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

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1.5

(pd) 1.25

0.5

0.25

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Current (pu)

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13688121 Catalog #: 03018ET3E286TC-W22G TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75

0	10	20 30	40 Percen	50 t of synchronous	60 s speed	70	80	90	100
		♦ Torc	que – 1 p.u. = 108 f	t.lb 🔷 Current	- 1 p.u. = 41.	1 A (400 V)			
Performance		: 400 V 50 Hz	4P IE1						
Rated current		: 41.1 A		Momer	nt of inertia	ı (J)	: 5.85 so	q.ft.lb	
LRC		: 5.6		Duty cy	ycle		: Cont.(S1)	
Rated torque		: 108 ft.lb			ion class		: F	•	
Locked rotor tord	que	: 190 %		Service factor			: 1.00		
Breakdown torqu	•	: 220 %		Tempe	rature rise		: 105 K		
Rated speed		: 1455 rpm		Design			: B		
Locked rotor time	е	: 27s (cold) 1	5s (hot)						
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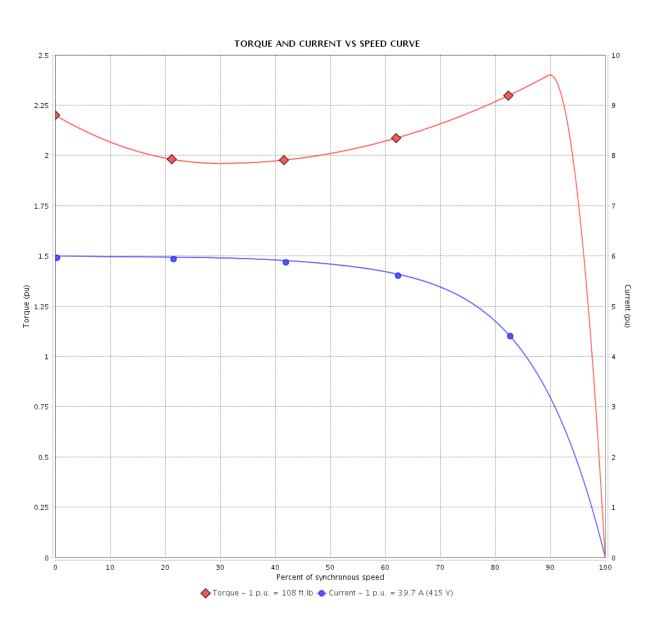


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13688121

Phase

Catalog #: 03018ET3E286TC-W22G



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) : 108 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.00 Breakdown torque : 240 % Temperature rise : 105 K Rated speed : 1460 rpm Design : B

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

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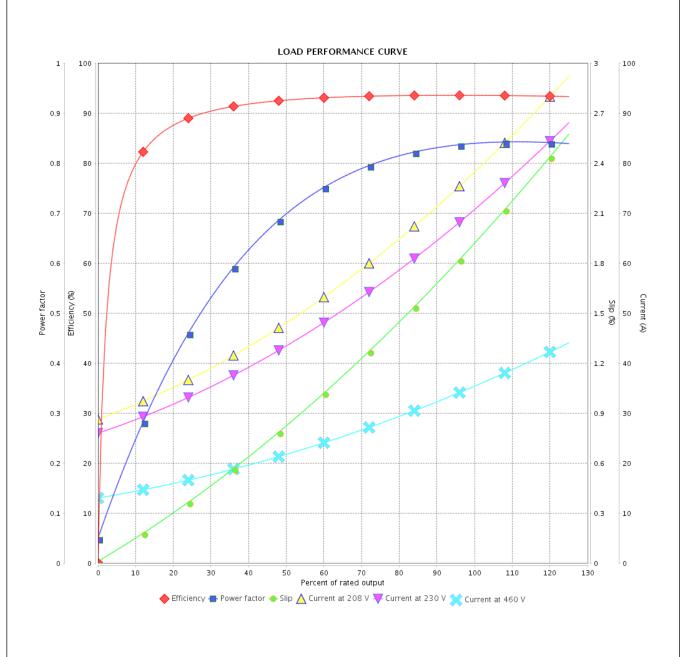


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13688121

Phase

Catalog #: 03018ET3E286TC-W22G



Performance	:	230/460 V 60 Hz 4P				
Rated current	Rated current : 70.2/35.1		Moment o	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 torque	e :	240 %	Service fa	ctor	: 1.25	
Breakdown torque		240 %	Temperature rise		: 80 K	
Rated speed			Design	Design : B		
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Phase

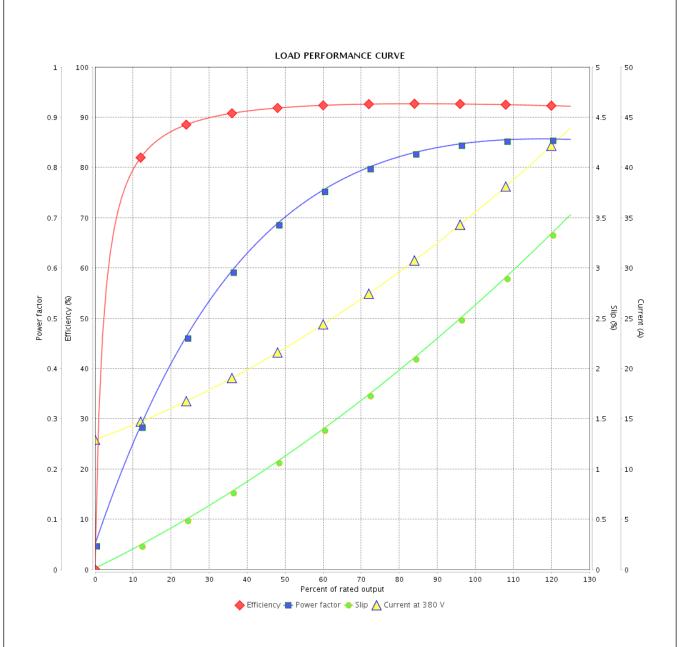
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Performance	: 3	80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 8 jue : 2	5.7 A 6.0 9.9 ft.lb 00 % 29 % 460 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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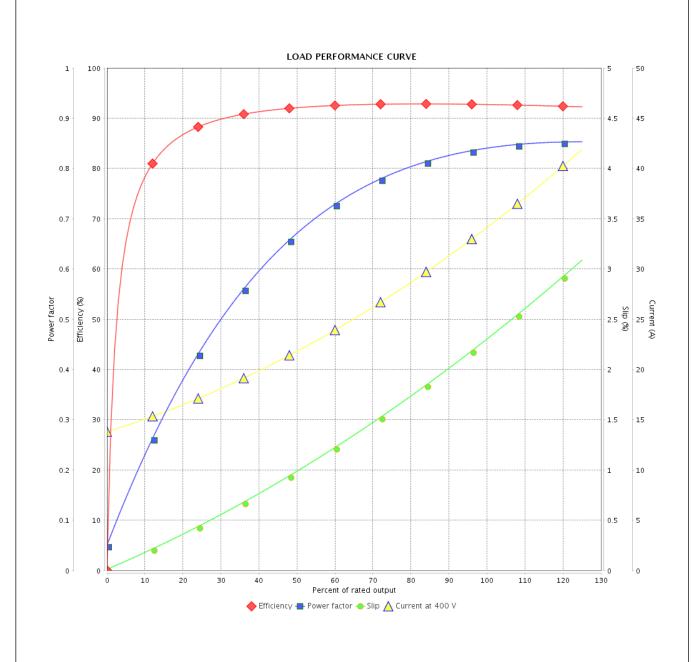


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Product line : NEMA Premium Efficiency Three- Product code : 13688121

Phase

Catalog #: 03018ET3E286TC-W22G



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current	ted current : 34.3 A		Moment o	Moment of inertia (J)		
LRC	: 6	5.7	Duty cycle	;	: Cont.(S1)	
Rated torque	: 8	9.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	29 %	Service fa	ctor	: 1.00	
Breakdown torque : 26		.60 %	Temperati	Temperature rise		
Rated speed : 1465		465 rpm	Design		: B	
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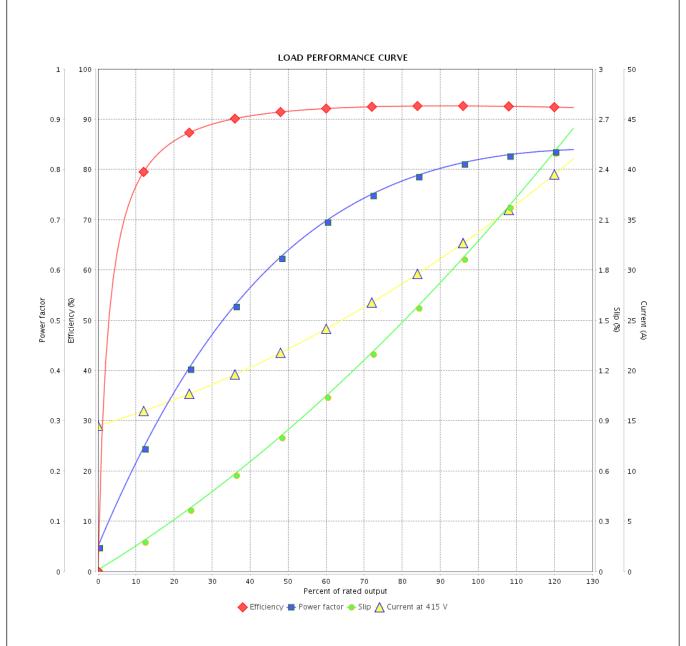
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 13688121

Catalog #: 03018ET3E286TC-W22G



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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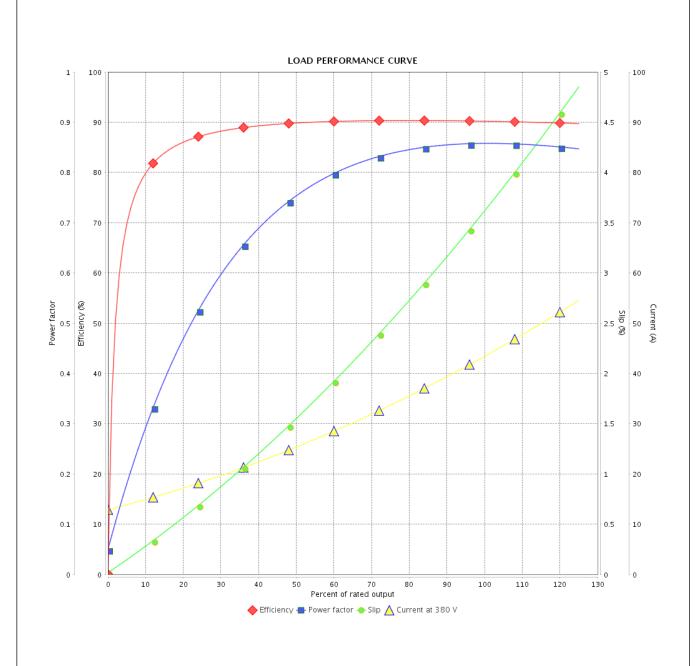


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13688121

Phase

Catalog #: 03018ET3E286TC-W22G



Performance	: 3	380 V 50 Hz 4P IE1				
Rated current	ated current : 43.1 A		Moment o	f inertia (J)	: 5.85 sq.ft.lb	
LRC	: 5	5.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	109 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	170 %	Service fa	ctor	: 1.00	
Breakdown torque : 1		190 %	Temperature rise		: 105 K	
Rated speed : 1445		1445 rpm	Design		: B	
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Phase

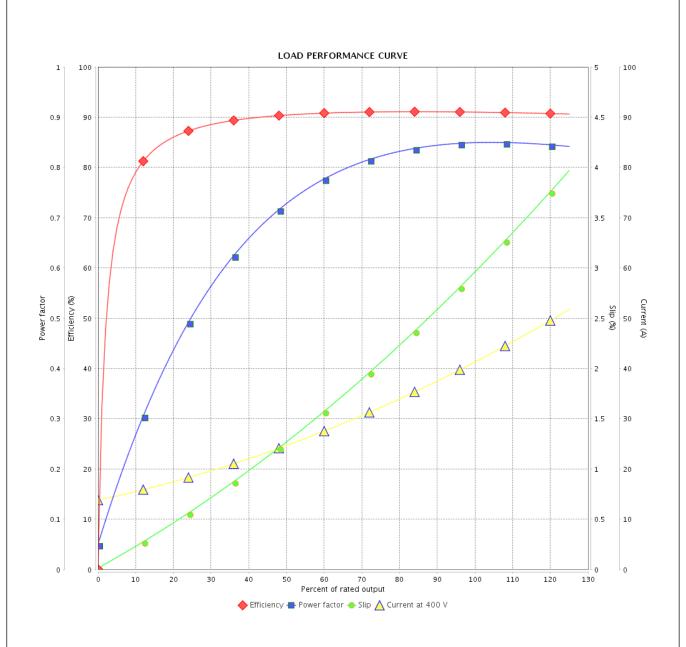
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Performance : 400 V 50 Hz 4P IE1 Rated current : 41.1 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : 108 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 220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

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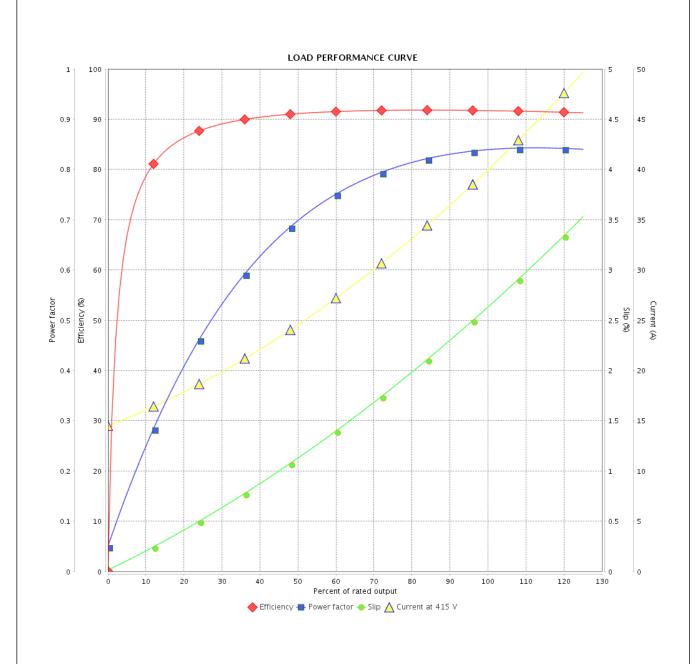


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Product line : NEMA Premium Efficiency Three- Product code : 13688121

Phase

Catalog #: 03018ET3E286TC-W22G



Performance	: 4	115 V 50 Hz 4P IE2				
Rated current	: 3	39.7 A	Moment o	f inertia (J)	: 5.85 sq.ft.lb	
LRC	: 6	3.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	108 ft.lb	Insulation	class	: F	
Locked rotor torque	e :2	220 %	Service fa	ctor	: 1.00	
Breakdown torque :		240 %	Temperati	Temperature rise		
Rated speed	: ′	1460 rpm	Design		: B	
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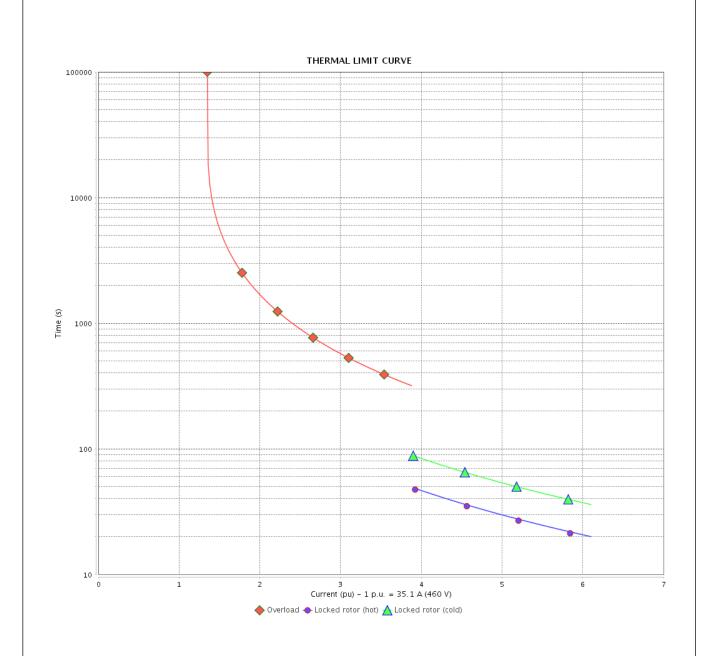


Customer	:			
Product line	: NEMA Premium Efficiency T Phase	Three- Product code : Catalog # :	13688121 03018ET3E2	86TC-W22G
		·		
Performance	: 230/460 V 60 Hz 4P			
Rated current LRC	: 70.2/35.1 A : 6.1	Moment of inertia (J) Duty cycle	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 89.3 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 240 % : 240 %	Service factor Temperature rise	: 1.25 : 80 K	
Rated speed	: 1765 rpm	Design	: B	
Heating constant				
Cooling constant				
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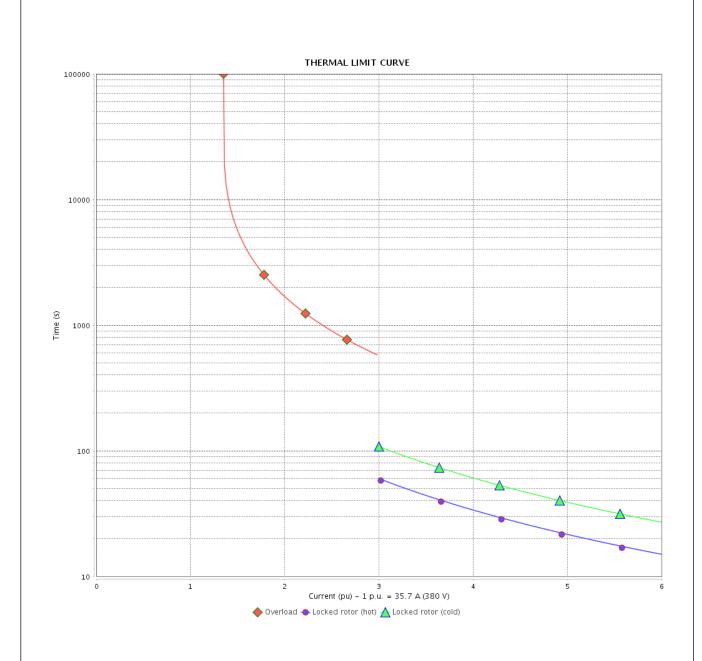


Customer	:			
Product line	: NEMA Premium Efficiency T Phase	Three- Product code : Catalog # :	13688121 03018ET3E28	36TC-W22G
Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 35.7 A	Moment of inertia (J)	: 5.85 sq.ft.lb	
LRC Rated torque	: 6.0 : 89.9 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque Rated speed	: 229 % : 1460 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant				
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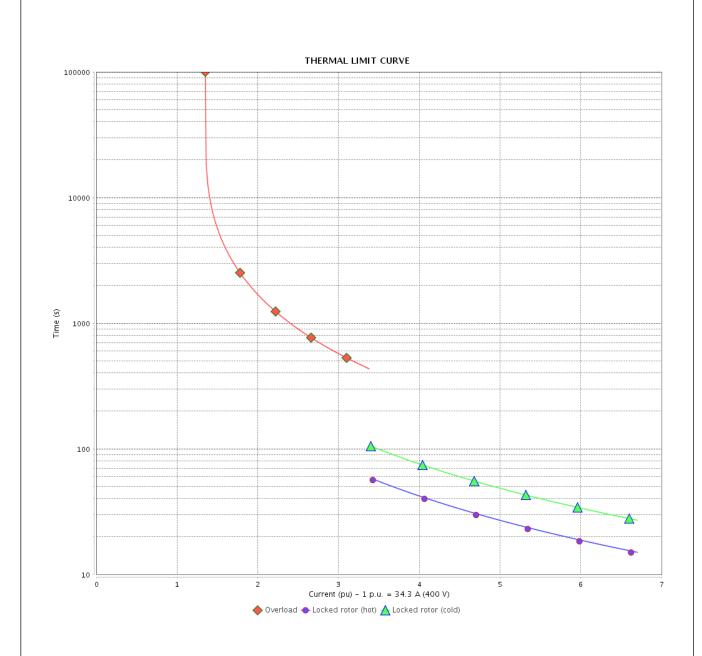


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	13688121	
	P	hase		Catalog # :	03018ET3E28	86TC-W22G
Performance	· 4(00 V 50 Hz 4P IE3				
Rated current	: 34	4.3 A	Moment o	f inertia (J)	: 5.85 sq.ft.lb	
LRC	: 6.		Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torqu		9.6 π.id 29 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 26	60 %	Temperatu		: 80 K	
Rated speed	. 14	465 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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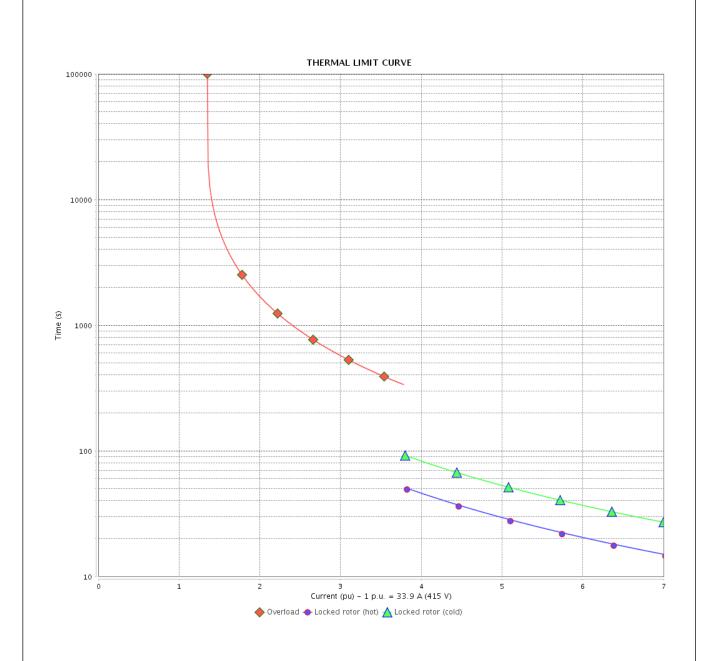


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	13688121 03018ET3E2	86TC-W22G
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed	: : : : : : : : :	415 V 50 Hz 4P IE3 33.9 A 7.0 89.3 ft.lb 260 % 280 % 1470 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 5.85 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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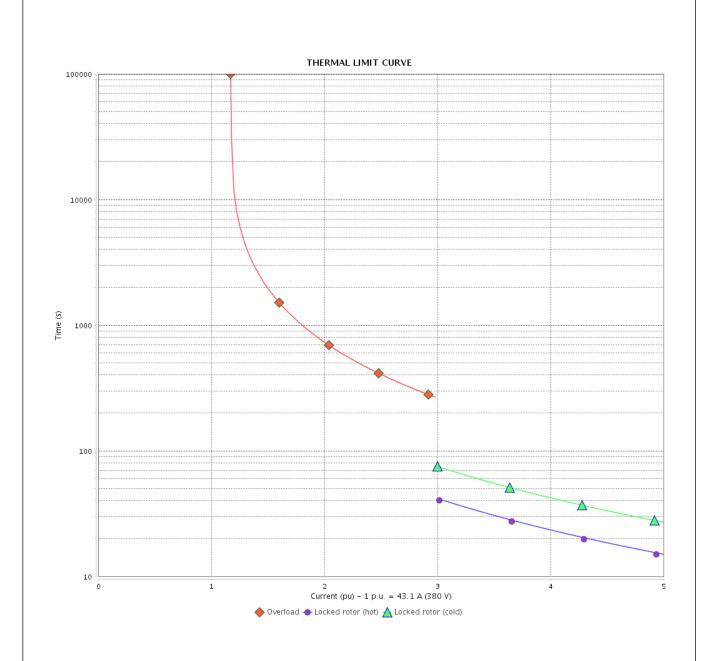


Customer	:				
Product line	: NEMA Premium Efficienc		Product code : Catalog # :	13688121 03018ET3E2	86TC-W22G
Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC	: 43.1 A : 5.0	Moment of Duty cycle	of inertia (J) e	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 109 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 170 % : 190 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed	: 1445 rpm	Design		: B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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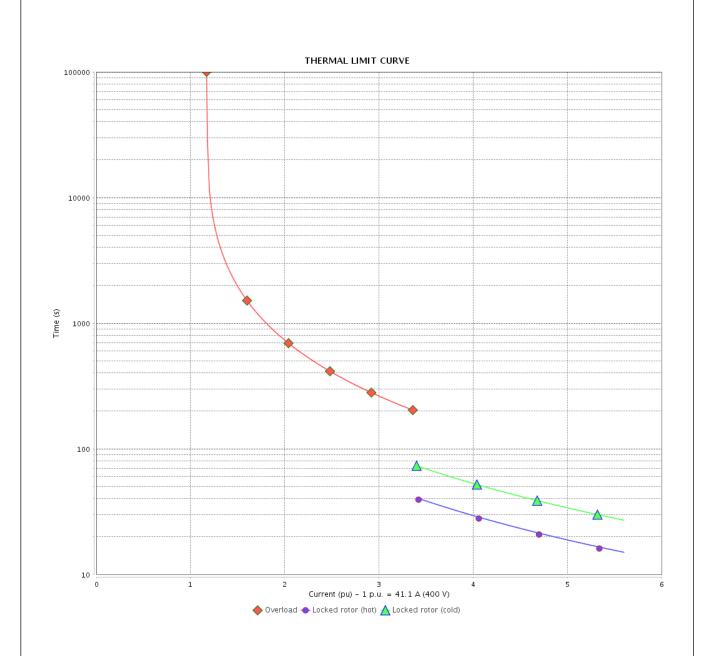


Customer	:				·	
Product line			Three-	Product code :	13688121	
	P	hase		Catalog # :	03018ET3E28	B6TC-W22G
			<u>-</u> -			
Performance		00 V 50 Hz 4P IE1				
Rated current LRC	: 4 ² : 5.	1.1 A 6	Moment of Duty cycle	f inertia (J)	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 10	08 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		90 % 20 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed		455 rpm	Design		: B	
Heating constant						
Cooling constant						
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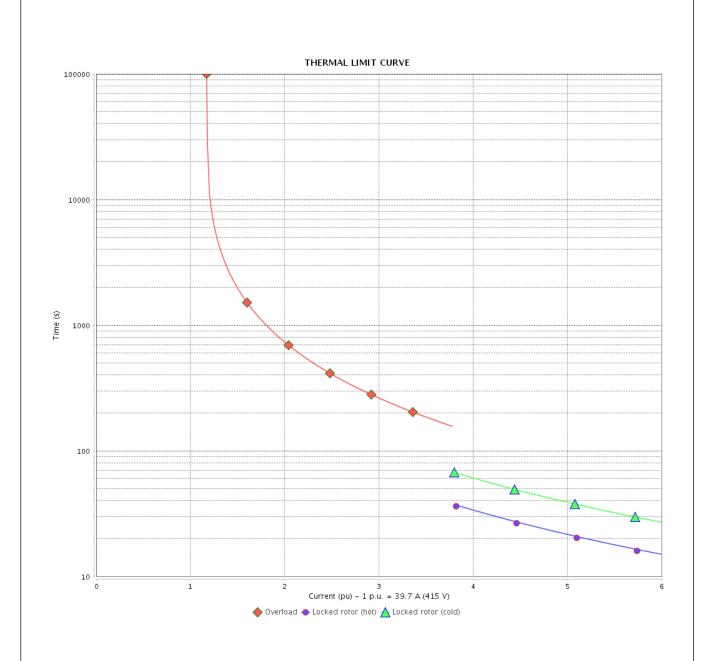


Customer	:			·	
Product line	: NEMA Premium Efficiency	Three-	Product code :	13688121	
	Phase		Catalog # :	03018ET3E2	86TC-\W22G
			Catalog # .	03016E13E2	001C-VV22G
Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC	: 39.7 A : 6.0	Moment o	f inertia (J)	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 108 ft.lb	Insulation	class	: F	
Locked rotor torque	: 220 %	Service fa		: 1.00 : 105 K	
Breakdown torque Rated speed	: 240 % : 1460 rpm	Temperatu Design	ire rise	: 105 K : B	
Heating constant					
Cooling constant					
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Phase

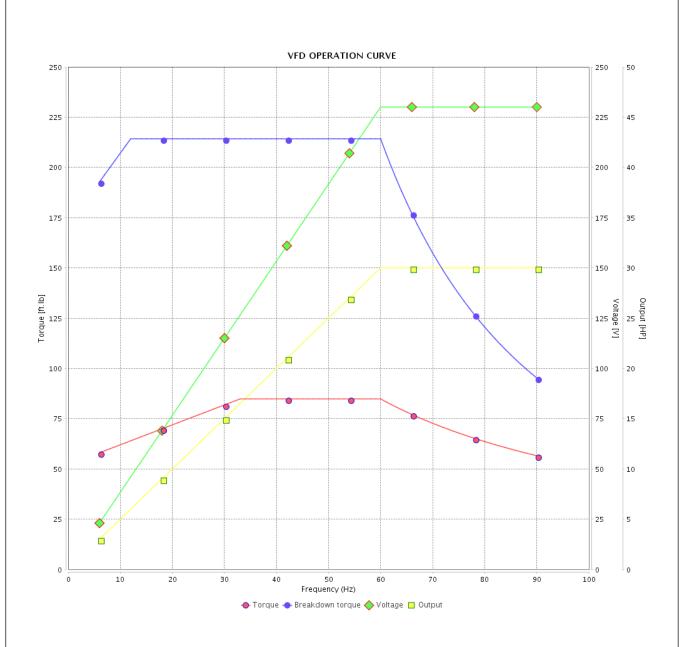
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Performance : 230/460 V 60 Hz 4P : 70.2/35.1 A Rated current Moment of inertia (J) : 5.85 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 Insulation class : 89.3 ft.lb : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque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



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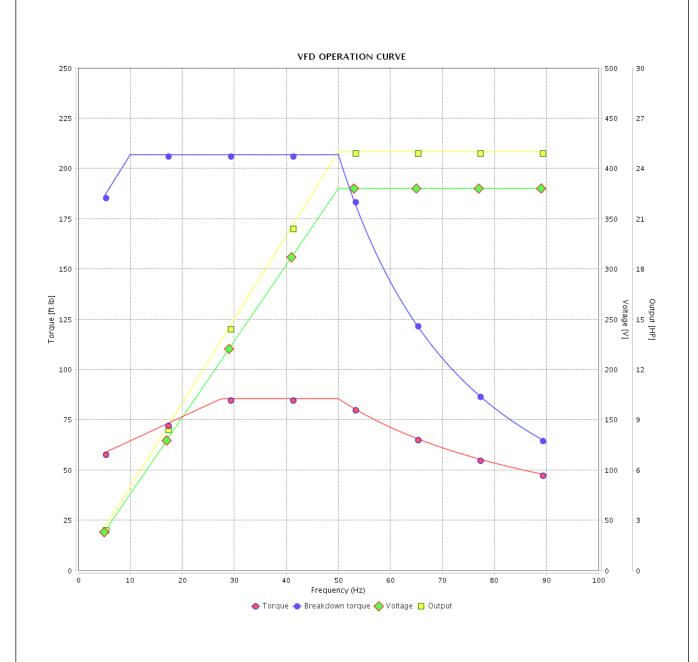
Product line : NEMA Premium Efficiency Three- Pro

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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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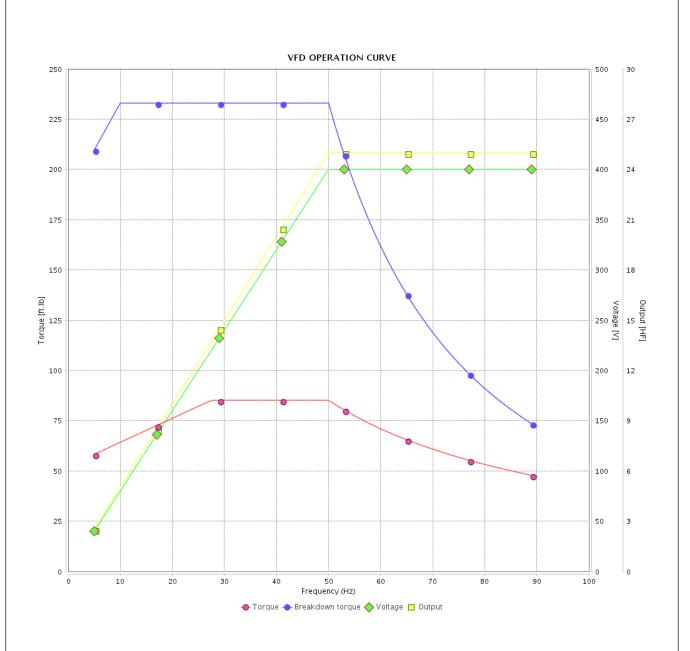
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13688121

Catalog #: 03018ET3E286TC-W22G



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

Three Phase Induction Motor - Squirrel Cage



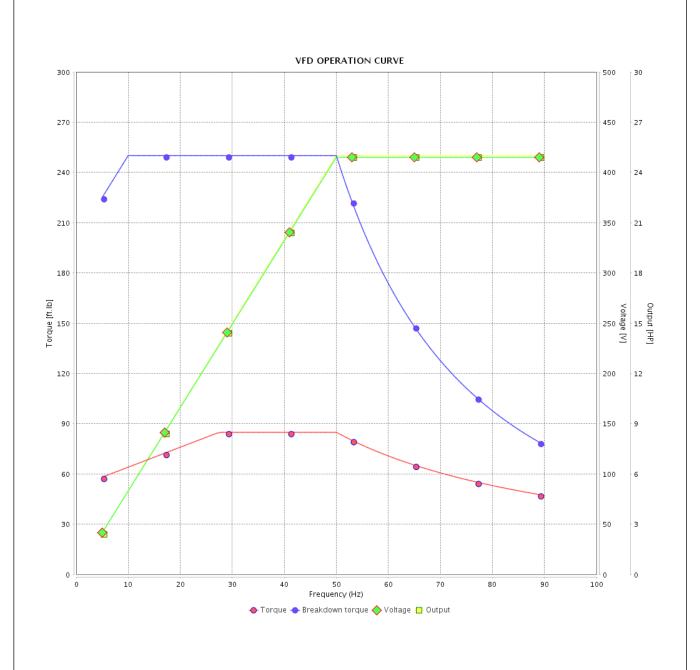
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03018ET3E286TC-W22G

13688121



Performance	:	415 V 50 Hz 4P IE3					
Rated current		33.9 A	Moment o	Moment of inertia (J)			
LRC		7.0	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque	:	89.3 ft.lb	Insulation	class	:F		
Locked rotor torque	e :	260 %	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

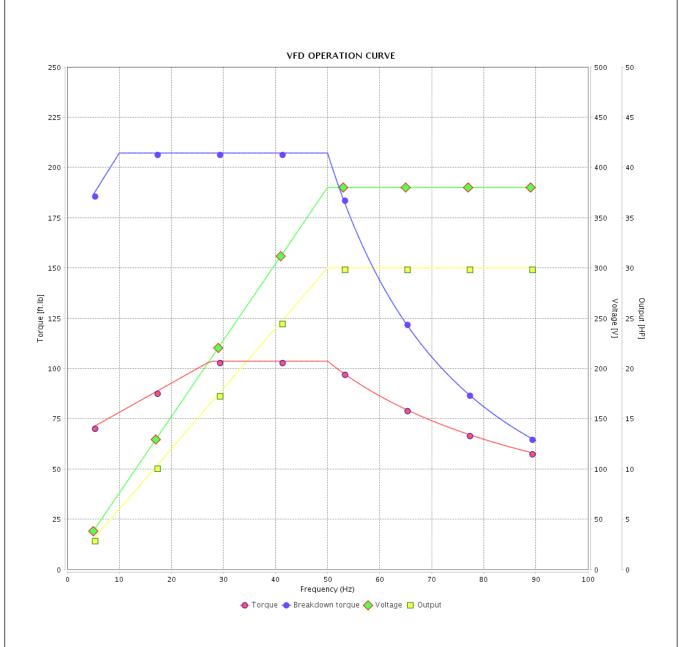
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					·	
Performance	:	380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	43.1 A 5.0 109 ft.lb 170 % 190 % 1445 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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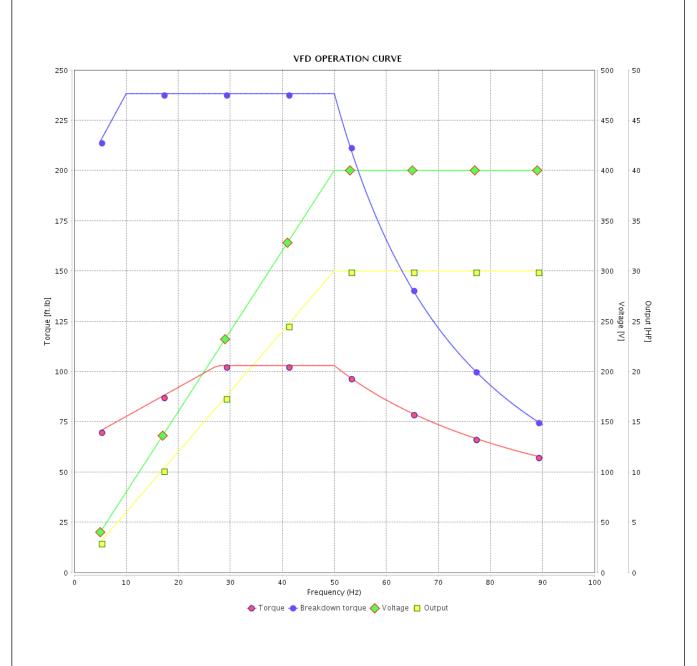


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Product line : NEMA Premium Efficiency Three- Product code : 13688121

Phase

Catalog #: 03018ET3E286TC-W22G



Performance	: 4	00 V 50 Hz 4P IE1				
Rated current : 41		1.1 A	Moment o	f inertia (J)	: 5.85 sq.ft.lb	
LRC : 5.6		.6	Duty cycle	Duty cycle		
Rated torque	Rated torque : 108 ft.lb		Insulation class		: F	
Locked rotor torqu	ie : 1	90 %	90 % Service factor		: 1.00	
Breakdown torque : 2		20 %	Temperature rise		: 105 K	
Rated speed	: 1	455 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three- F

Phase

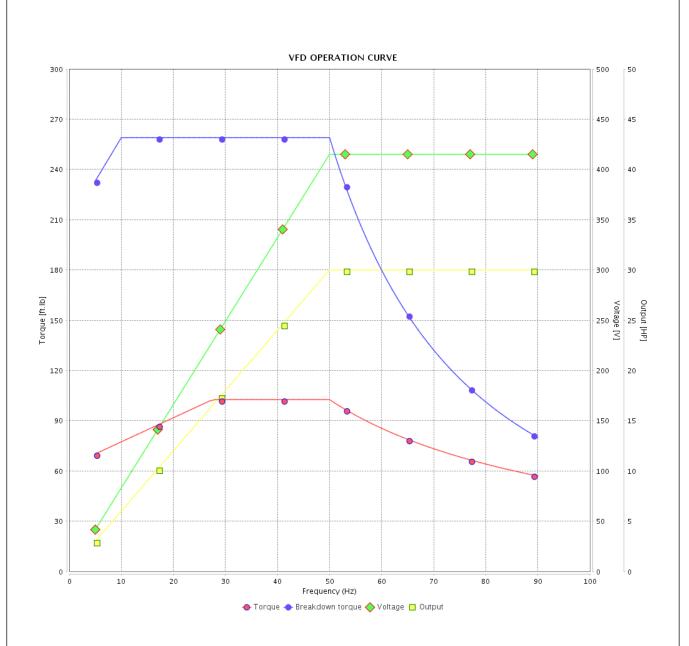
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Performance : 415 V 50 Hz 4P IE2 Rated current : 39.7 A Moment of inertia (J) : 5.85 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) Insulation class : 108 ft.lb : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 240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

