DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11457167

Catalog #: 03018ET3E286TS-W22

Frame : 284/6TS Cooling method : IC411 - TEFC

Insulation class 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 : 465 lb

/ tititude		. 1000 111.4.	J.I.	/ tppio/	. weigin		00 10	
Protection degre	е	: IP55		Momer	nt of inertia (J)) : 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	/ []	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%	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
Lilloleticy (70)	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

Non drive end Drive end Foundation loads

0.67

0.79

0.84

0.64

0.76

0.82

6311 C3 6211 C3 Bearing type Max. traction : 897 lb Sealing V'Ring V'Ring Max. compression : 1362 lb 20000 h 20000 h

0.70

0.81

0.85

Lubricant amount 18 g 11 g Mobil Polyrex EM Lubricant type

0.70

0.80

0.84

Notes

Power Factor

Lubrication interval

USABLE @208V 77.6A SF 1.15 SFA 89.3A

50%

75%

100%

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.

0.76

0.83

0.86

0.73

0.82

0.85

0.70

0.80

0.84

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Three Phase Induction Motor - Squirrel Cage



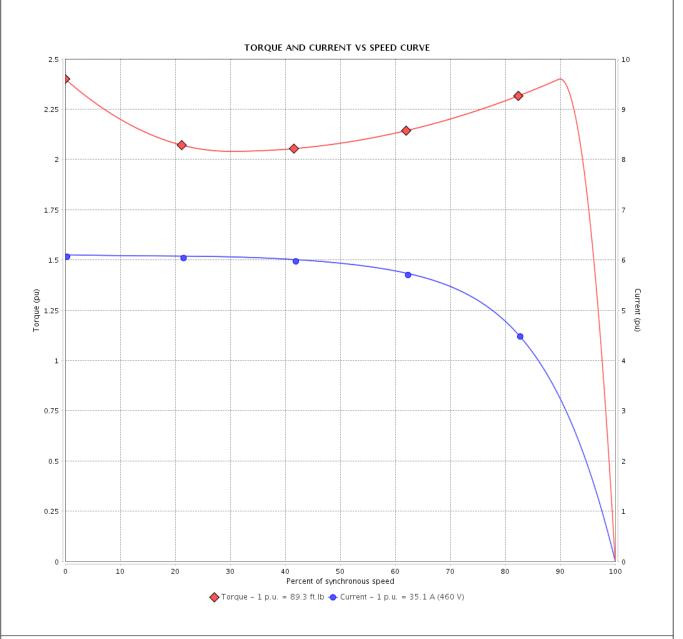
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11457167

Catalog #: 03018ET3E286TS-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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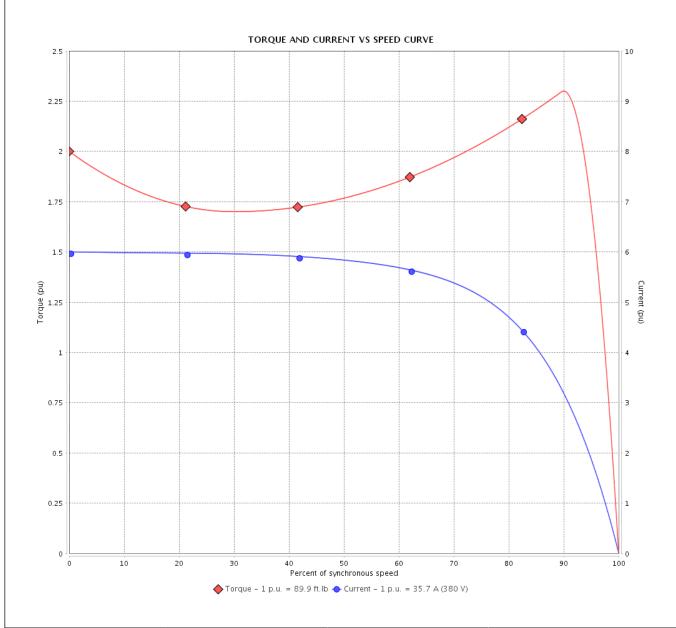
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11457167

Catalog #: 03018ET3E286TS-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 roter time	: 27s (cold) 15s (bot)		

LOCKED TOLOT LITTLE	. 2	73 (Cold) 133 (110t)			
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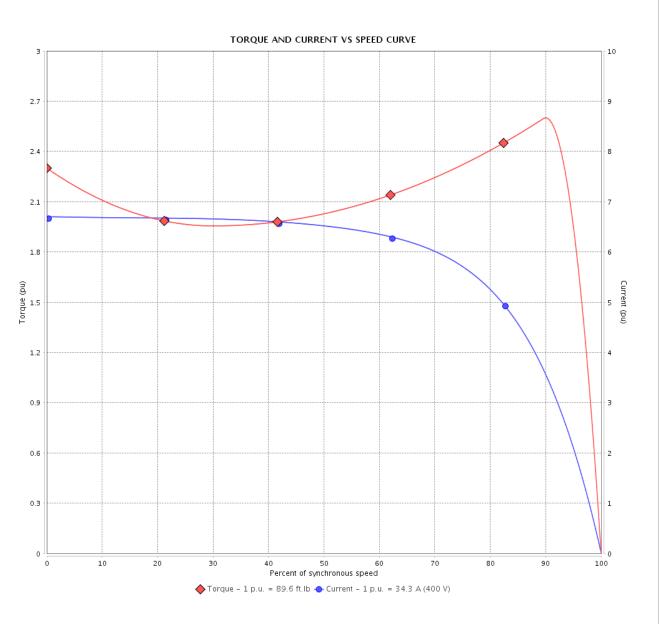
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #:

11457167

03018ET3E286TS-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 Service factor Locked rotor torque : 229 % : 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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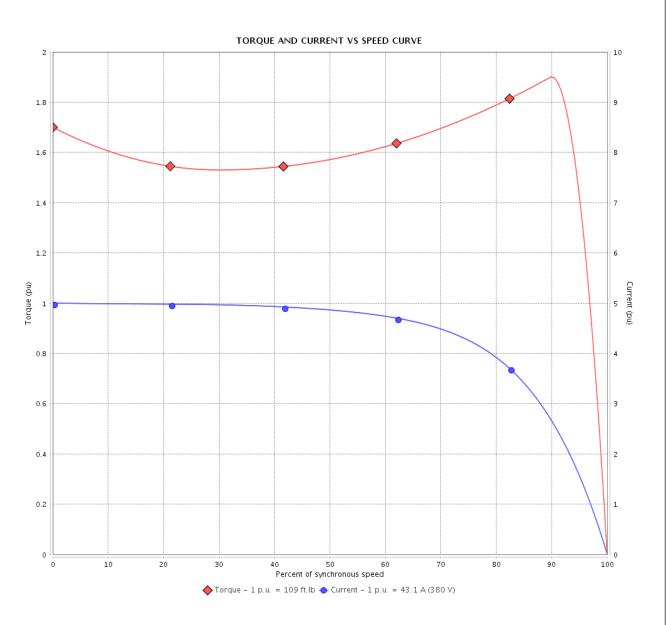


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11457167

Phase

Catalog #: 03018ET3E286TS-W22



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: 11457167 Catalog #: 03018ET3E286TS-W22 TORQUE AND CURRENT VS SPEED CURVE 2.25 1.75 1.5 (pd) 1.25 Current 0.5 0.25

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) Rated torque : 108 ft.lb Insulation class : F : 190 % : 1.00 Locked rotor torque Service factor Breakdown torque : 220 % Temperature rise : 105 K : B Rated speed : 1455 rpm Design

Percent of synchronous speed ◆ Torque - 1 p.u. = 108 ft.lb ◆ Current - 1 p.u. = 41.1 A (400 V)

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

LOCKCU TOLOT LITT	. 2	73 (cold) 103 (110t)			
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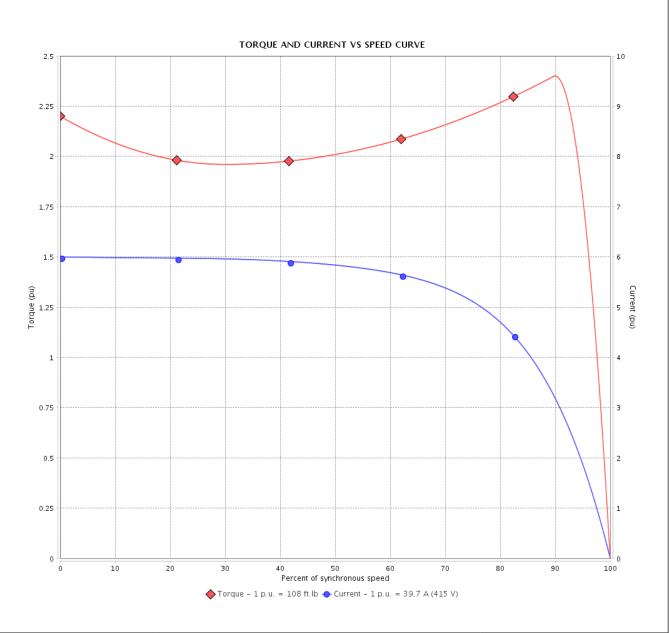
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Product line : NEMA Premium Efficiency Three- Product c

Phase

Product code: 11457167

Catalog #: 03018ET3E286TS-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) Insulation class Rated torque : 108 ft.lb : 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)

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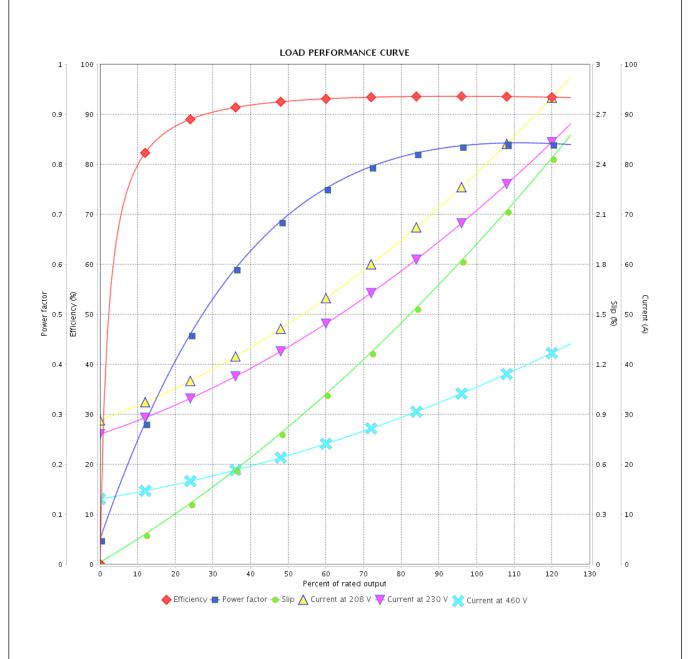


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11457167

Phase

Catalog #: 03018ET3E286TS-W22



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	: 7	: 70.2/35.1 A Moment of inertia (J)		: 5.85 sq.ft.lb		
LRC	: 6	.1	Duty cycle	:	: Cont.(S1)	
Rated torque	: 8	9.3 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	40 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	40 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	765 rpm	Design		: B	
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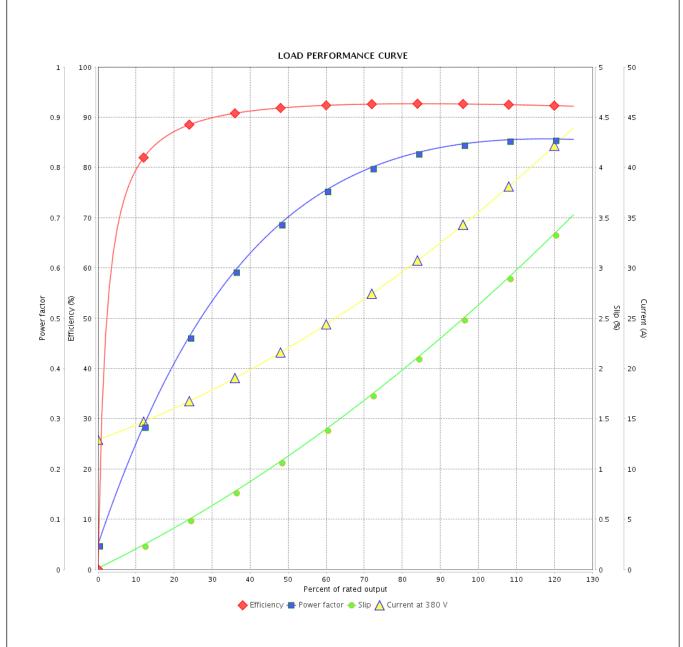
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 03018ET3E286TS-W22

11457167



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**

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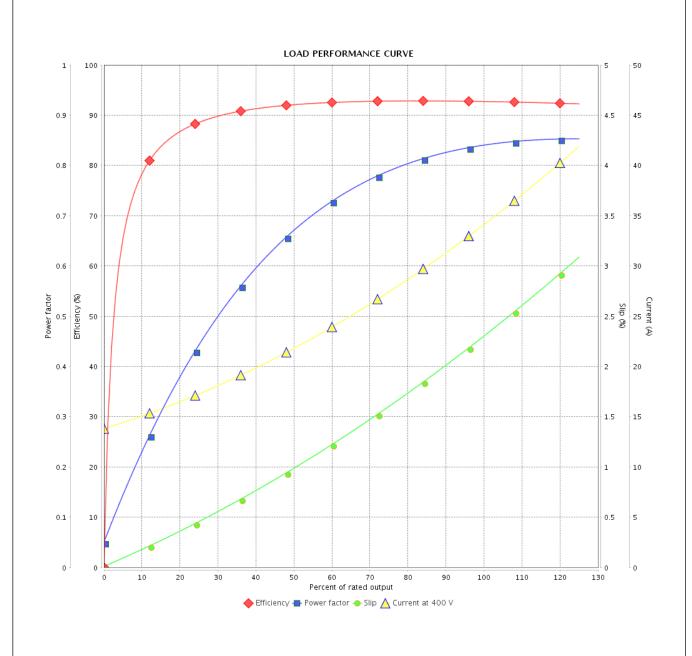
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Phase

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.3 A : 6.7 : 89.6 ft.lb : 229 % : 260 % : 1465 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	
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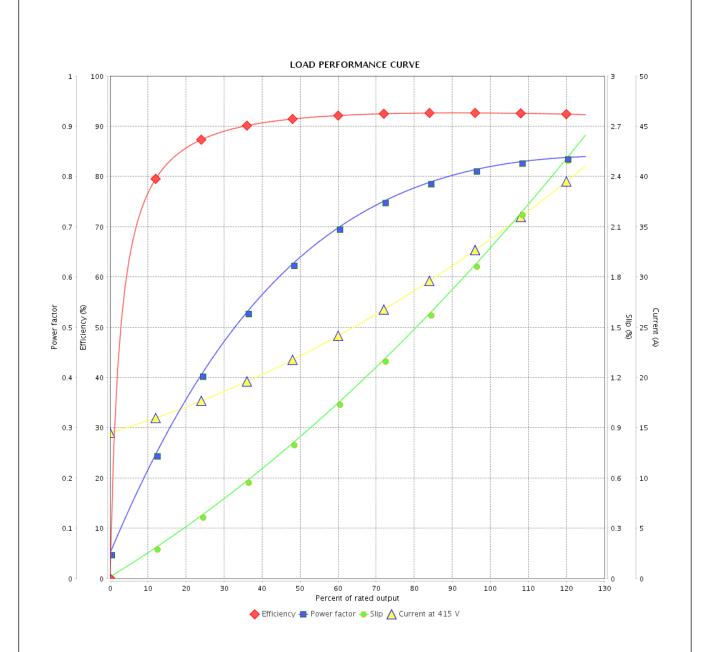
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Phase

Catalog #: 03018ET3E286TS-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

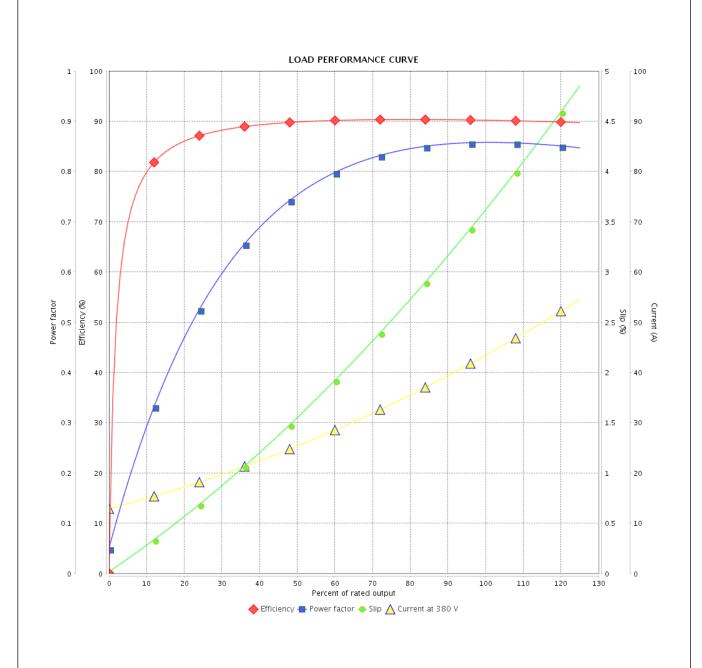
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11457167

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Performance	: 38	30 V 50 Hz 4P IE1				
Rated current	: 43	3.1 A	1 A Moment of inertia (J)		: 5.85 sq.ft.lb	
LRC	: 5.	0	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 10	09 ft.lb	Insulation	class	: F	
Locked rotor torg	jue : 1	70 %	% Service factor		: 1.00	
Breakdown torqu	wn torque : 190 % Temperatu		ure rise	: 105 K		
Rated speed	: 14	145 rpm	Design		: B	
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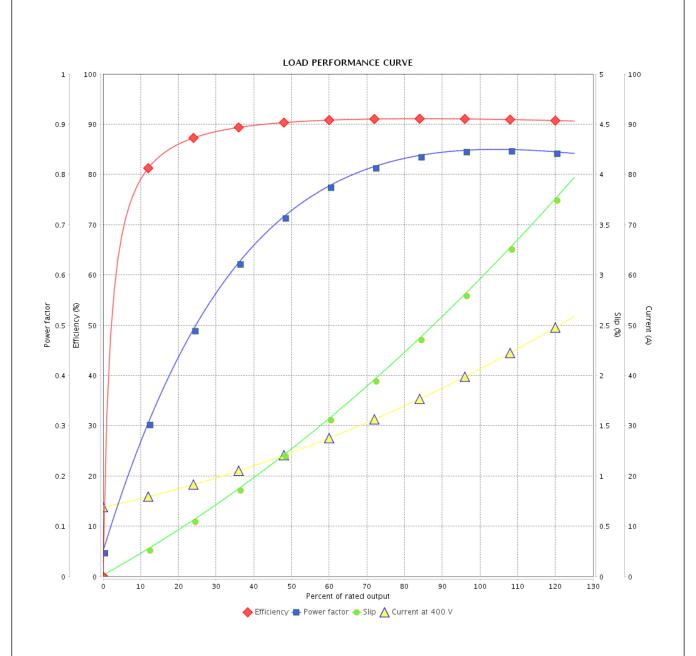
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11457167

Phase

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Performance	: 400 V 50 Hz 4P IE1				
Rated current	: 41.1 A	Moment of in	ertia (J)	: 5.85 sq.ft.lb	
LRC	: 5.6	Duty cycle		: Cont.(S1)	
Rated torque	: 108 ft.lb	Insulation cla	ISS	: F	
Locked rotor torque	: 190 %	Service factor		: 1.00	
Breakdown torque	: 220 %	Temperature rise		: 105 K	
Rated speed	: 1455 rpm	Design		: B	
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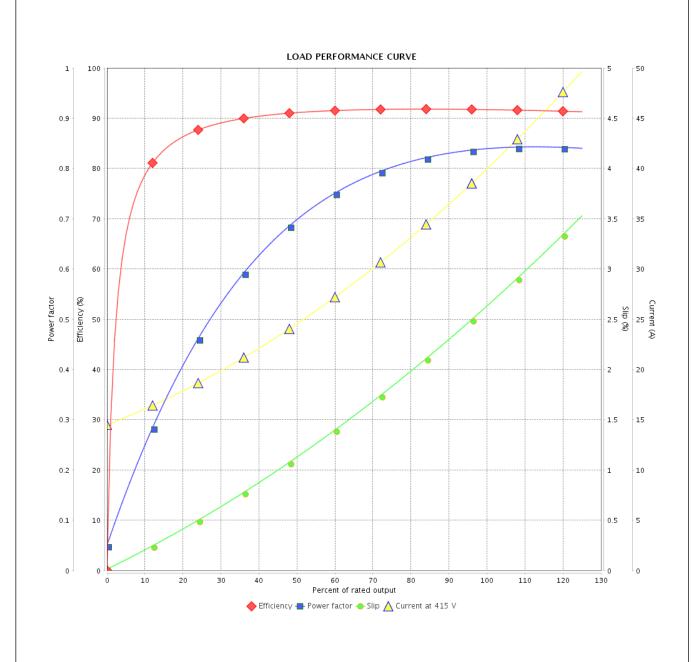


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11457167

Phase

Catalog #: 03018ET3E286TS-W22



Performance	: 4	15 V 50 Hz 4P IE2					
Rated current	: 3	9.7 A	7 A Moment of inertia (J)		: 5.85 sq.ft.lb		
LRC	: 6	.0	Duty cycle		: Cont.(S1)		
Rated torque	: 1	08 ft.lb	Insulation	class	: F		
Locked rotor torqu	e : 2	20 %	Service factor		: 1.00		
Breakdown torque		40 %	Temperatu	Temperature rise		: 105 K	
Rated speed	: 1	460 rpm	Design		: B		
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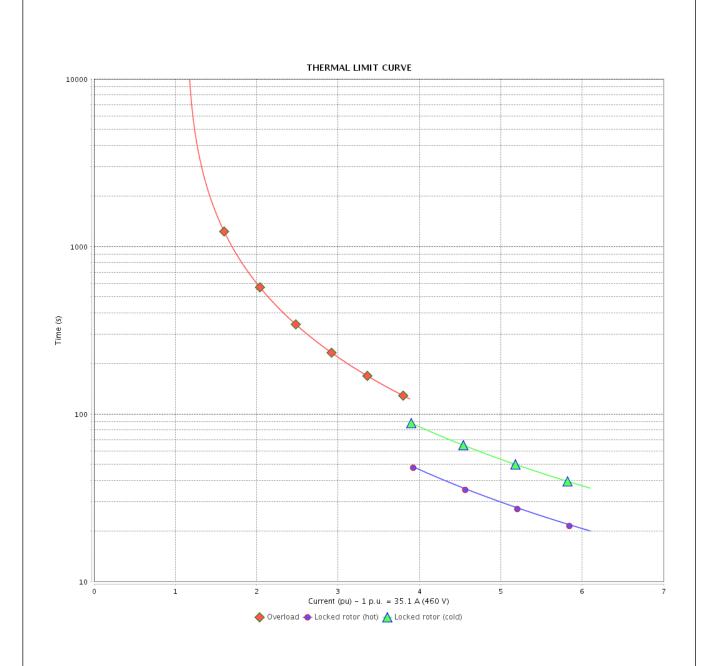


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11457167	
	PI	hase		Catalog # :	03018ET3E28	86TS-W22
Performance		30/460 V 60 Hz 4P				
Rated current LRC	: 70 : 6.	0.2/35.1 A 1	Moment of Duty cycle	f inertia (J)	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 89	9.3 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		40 % 40 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		765 rpm	Design	110 113 0	: B	
Heating constant						
Cooling constant						
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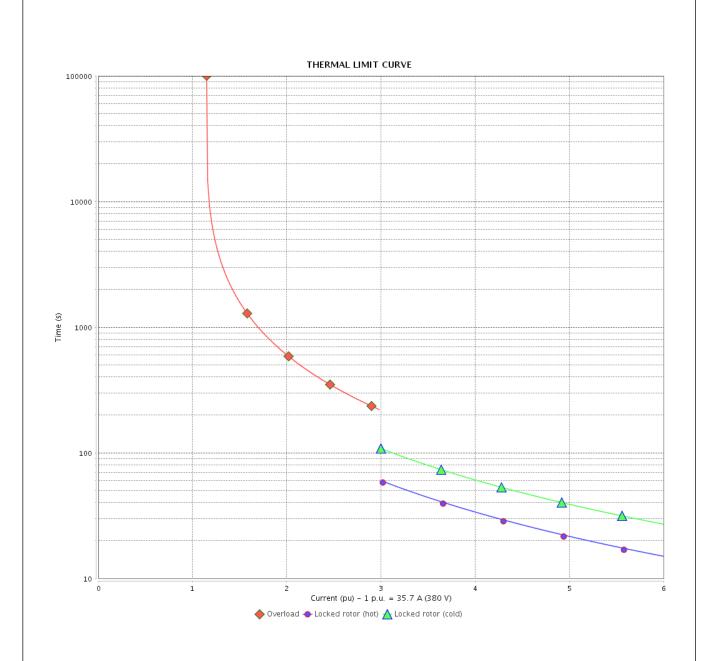


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11457167 03018ET3E28	86TS-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 35.7 A	Moment of	of inertia (J)	: 5.85 sq.ft.lb	
LRC Rated torque		: 6.0 : 89.9 ft.lb	Duty cycle Insulation	е	: Cont.(S1) : F	
Locked rotor tord	que	: 200 %	Service fa	actor	: 1.00	
Breakdown torqu Rated speed	ue :	: 229 % : 1460 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant			2001911			
Cooling constant						
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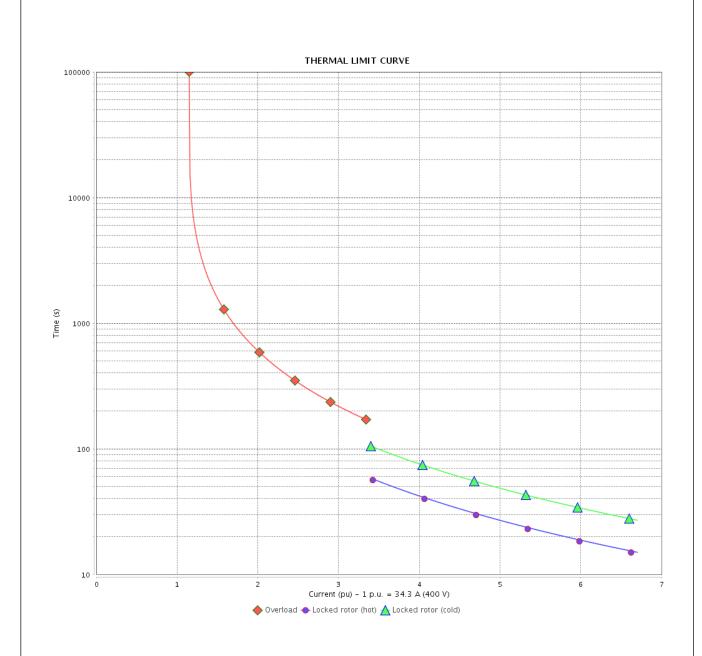


Customer	:			
Product line	: NEMA Premium Efficiency Phase		11457167	
		Catalog #:	03018ET3E2	86TS-W22
Performance	: 400 V 50 Hz 4P IE3	T		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 34.3 A : 6.7 : 89.6 ft.lb : 229 % : 260 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	•	-		
Heating constant				
Cooling constant Rev.	Changes Summary	Performed	Checked	Date
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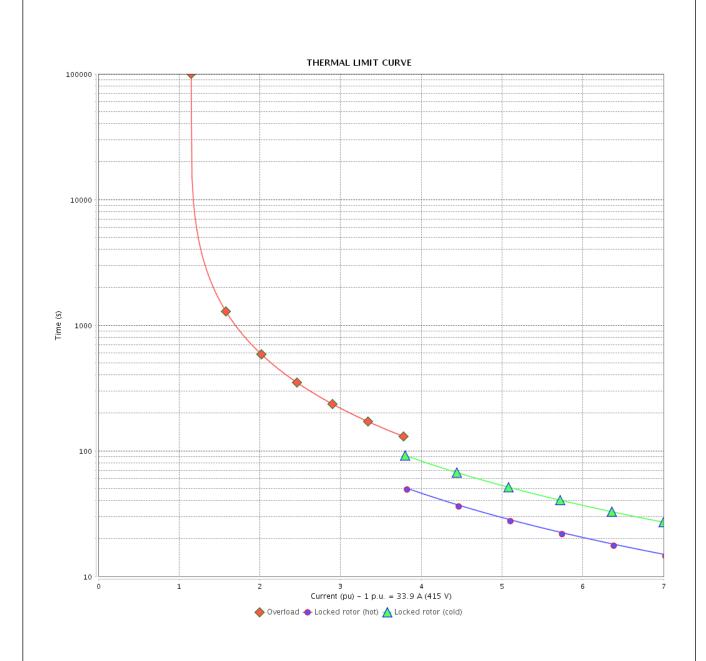


Customer	<u> </u>			
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Product line	: NEMA Premium Efficiency	Three- Product code :	11457167	
-	Phase			06TC M/00
		Catalog # :	03018ET3E2	თი⊺S-VV22
Performance	: 415 V 50 Hz 4P IE3	T		
Rated current LRC	: 33.9 A : 7.0	Moment of inertia (J) Duty cycle	: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 89.3 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 260 % : 280 %	Service factor Temperature rise	: 1.00 : 80 K	
Rated speed	: 1470 rpm	Design	: B	
Heating constant				
Cooling constant				
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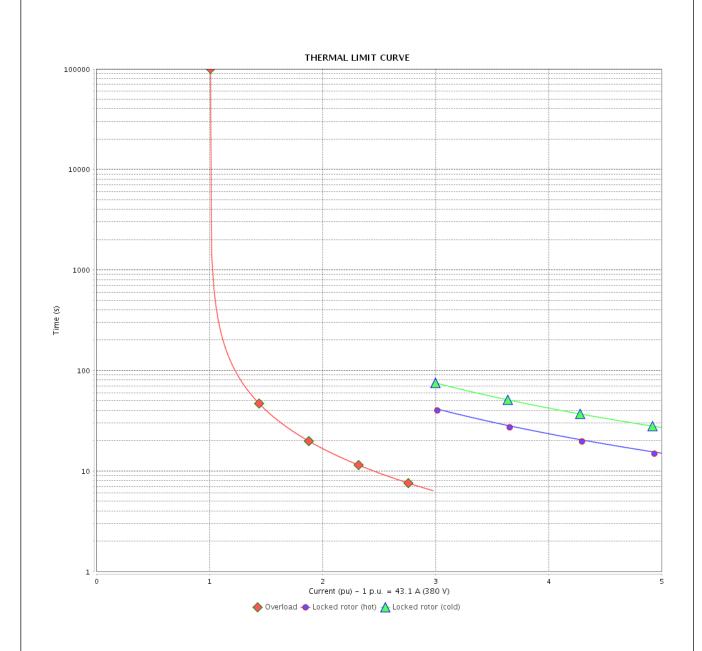


Customer	:				
Cuotomor	•				
Product line	: NEMA Premium Efficiency	Three-	Product code :	11457167	
	Phase		Catalog # :	03018ET3E28	86TS-W22
Performance	: 380 V 50 Hz 4P IE1				
Rated current	: 43.1 A	Moment o	f inertia (J)	: 5.85 sq.ft.lb	
LRC Rated torque	: 5.0 : 109 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 170 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed	: 190 % : 1445 rpm	Temperatu Design	ure rise	: 105 K : B	
Heating constant					
Cooling constant					
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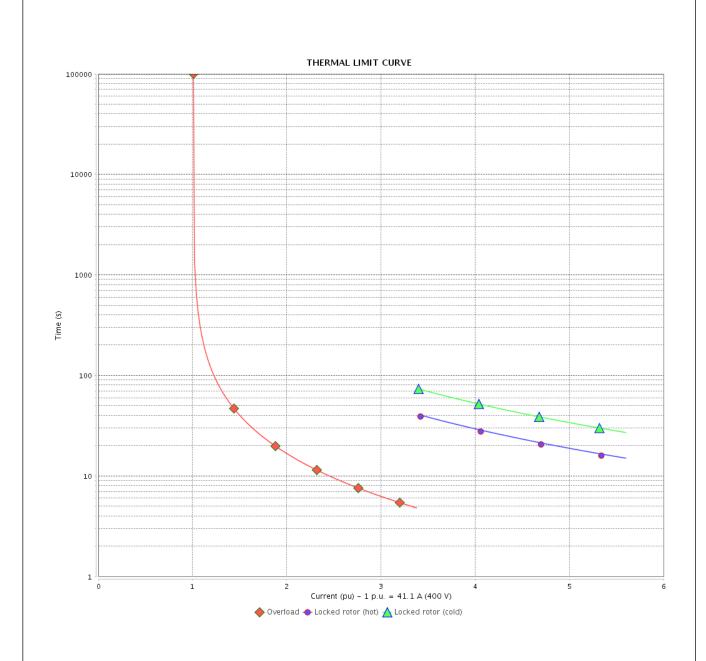


Customer	:					
Product line		NEMA Premium Efficiency Thase		Product code :	11457167 03018ET3E28	86TS-W22
Performance	: 40	00 V 50 Hz 4P IE1				
Rated current LRC Rated torque	: 5.	1.1 A 6 08 ft.lb	Moment of Duty cycle Insulation		: 5.85 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque	ue : 19	90 % 20 %	Service fac Temperatu	ctor	: 1.00 : 105 K	
Rated speed		455 rpm	Design		: B	
Heating constant Cooling constant						
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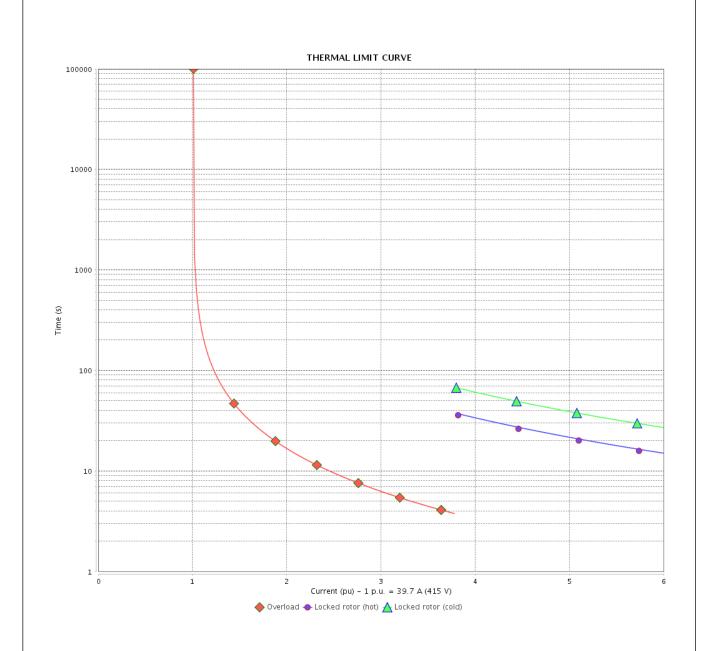


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11457167 03018ET3E28	86TS-W22
Performance	: 415 V 50 Hz 4P IE2				
Rated current	: 39.7 A	Moment o	f inertia (J)	: 5.85 sq.ft.lb	
LRC Rated torque	: 6.0 : 108 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque	: 220 %	Service fa	ctor	: 1.00	
Breakdown torque Rated speed	: 240 % : 1460 rpm	Temperatu Design	ire rise	: 105 K : B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product c

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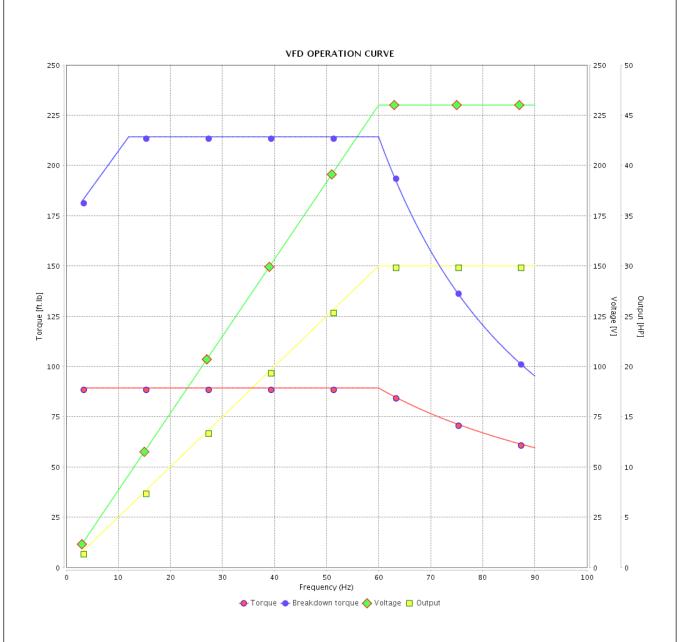
Product code: 11457167

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	-1					
Performance		: 230/460 V 60 Hz 4F				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 70.2/35.1 A : 6.1 : 89.3 ft.lb : 240 % : 240 % : 1765 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 5.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



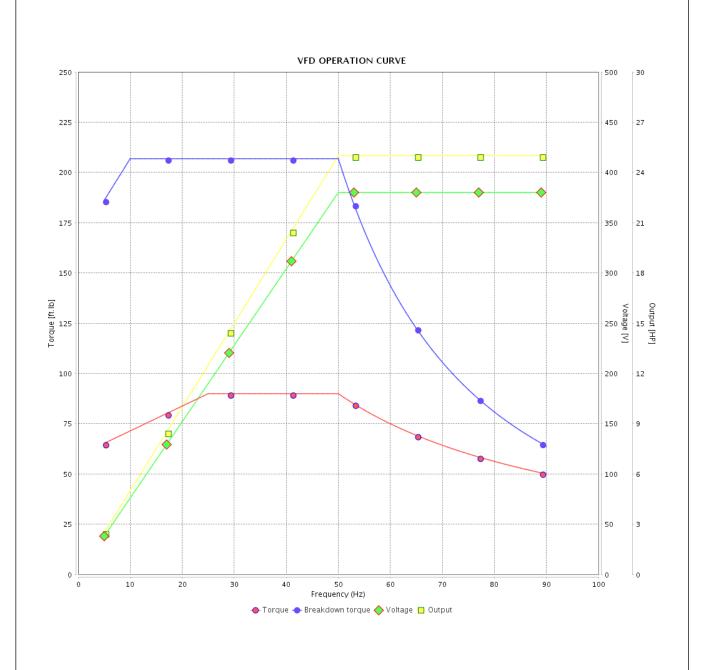
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Product line : NEMA Premium Efficiency Three- Product code : 11457167

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Moment of inertia (J) Duty cycle Insulation class		5 sq.ft.lb nt.(S1)
Insulation class		nt.(S1)
	: F	
0		
Service factor : 1.0		0
Temperature rise	emperature rise : 80 K	
Design	: B	
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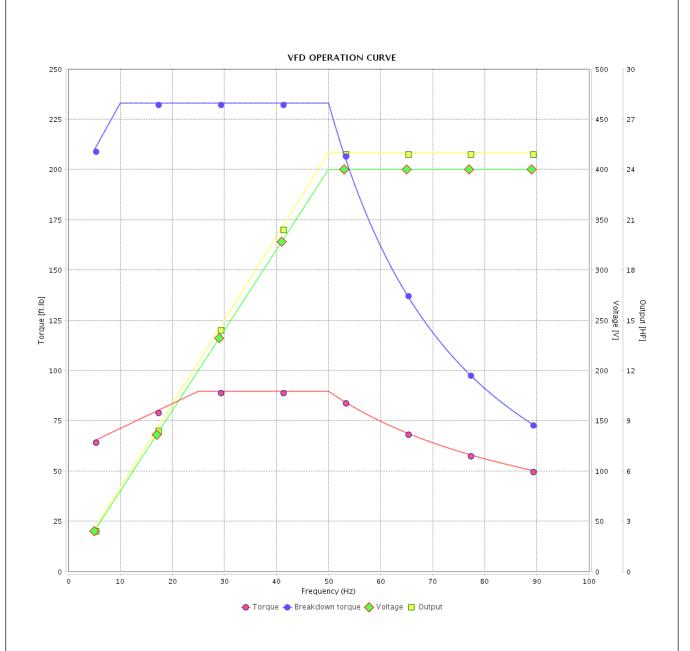
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11457167

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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 Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



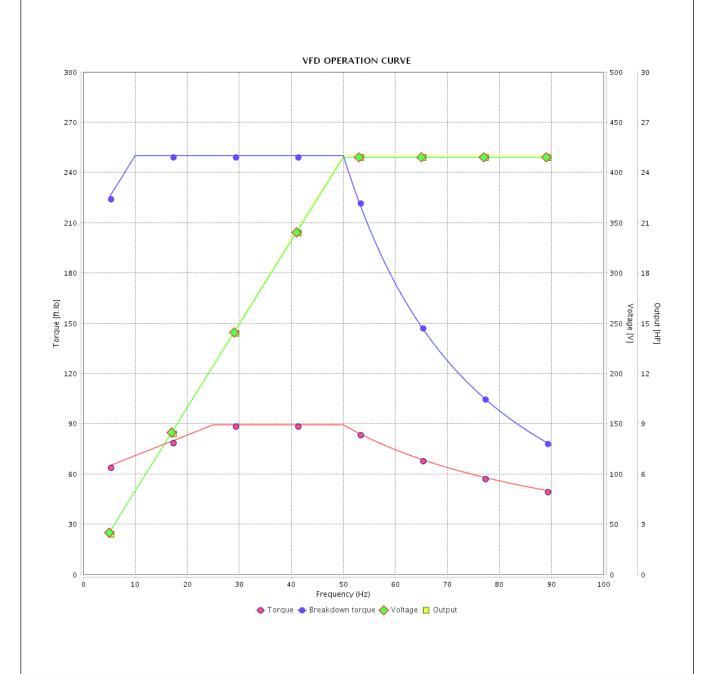
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Product line : NEMA Premium Efficiency Three- Prod

Phase

Product code: 11457167

Catalog #: 03018ET3E286TS-W22



Performance : 415 V 50 Hz 4P IE3						
Rated current : 33.9 A		Moment o	f inertia (J)	: 5.85 sq.ft.lb		
LRC : 7.0		' .0	Duty cycle	•	: Cont.(S1)	
Rated torque : 89		9.3 ft.lb	Insulation	Insulation class		
•		.60 %	Service fa	Service factor		
Breakdown torque		80 %	Temperati	Temperature rise		
Rated speed		470 rpm	Design	Design		
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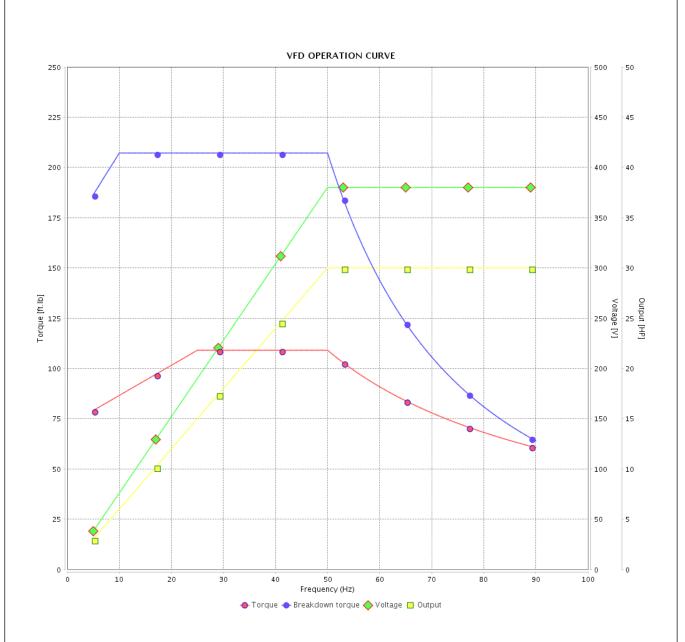
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11457167

Catalog #: 03018ET3E286TS-W22



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 Page Checked by Revision

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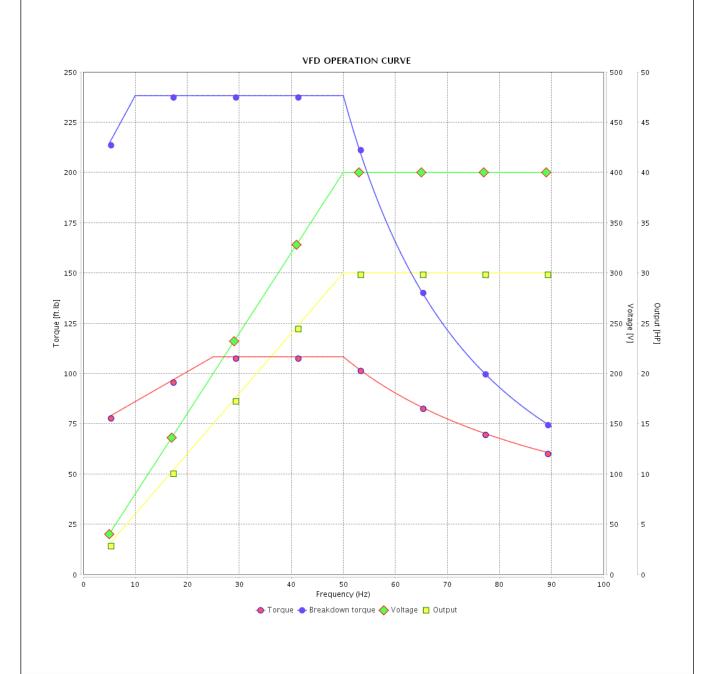


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Product line : NEMA Premium Efficiency Three- Product code : 11457167

Phase

Catalog #: 03018ET3E286TS-W22



Performance : 400 V 50 Hz 4		400 V 50 Hz 4P IE1				
Rated current : 41		41.1 A	Moment o	Moment of inertia (J)		
LRC :5		5.6	Duty cycle	Duty cycle		
Rated torque		108 ft.lb	Insulation	Insulation class		
Locked rotor torque		190 %	Service fa	ctor	: 1.00	
Breakdown torque		220 %	Temperati	Temperature rise		
Rated speed		1455 rpm	Design	Design		
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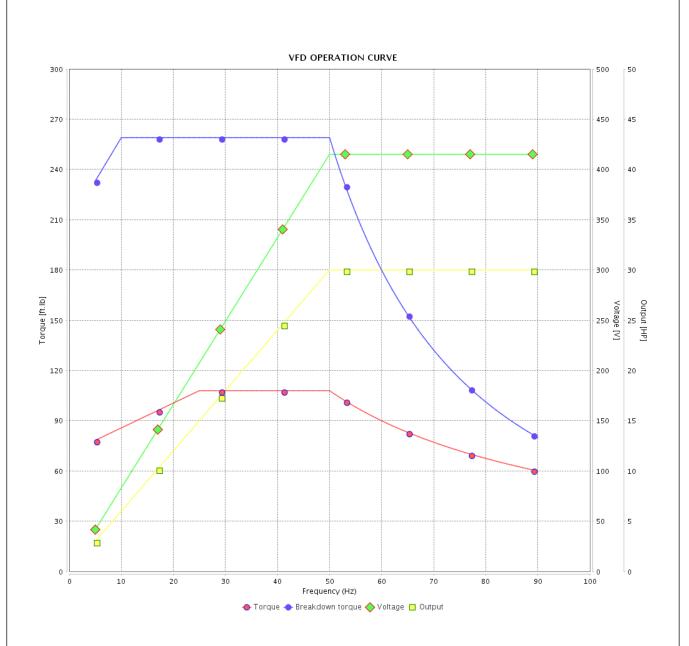
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11457167

Catalog #: 03018ET3E286TS-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) 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

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