DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11580967

Phase

Catalog #: 02012ET3E286TC-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 : 447 lb

Protection degre	е	: IP55		Momer	nt of inertia (J)) : 9	.16 sq.ft.lb	
Design		: B						
Output [HP]		20	15	15	15	20	20	20
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		48.4/24.2	22.0	21.2	20.8	29.9	28.1	27.2
L. R. Amperes [A]		300/150	147	155	156	141	149	158
LRC [A]		6.2x(Code	6.7x(Code H)	7.3x(Code J)	7.5x(Code J)	4.7x(Code E)	5.3x(Code F)	5.8x(Code
		G)						G)
No load current [A]	19.0/9.50	9.40	10.0	10.6	9.40	10.0	10.6
Rated speed [RPN	/ 1]	1175	980	982	983	965	970	975
Slip [%]		2.08	2.00	1.80	1.70	3.50	3.00	2.50
Rated torque [ft.lb]		89.4	80.4	80.2	80.1	109	108	108
Locked rotor torqu	e [%]	229	229	270	280	170	200	210
Breakdown torque		260	270	290	320	200	220	240
Service factor		1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	80 K
Locked rotor time		28s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)
		16s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)
Noise level ²		59.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
	25%							
Efficiency (9/)	50%	91.0	90.0	89.3	89.3	90.2	90.2	90.2
Efficiency (%)	75%	91.7	90.3	90.3	90.6	90.2	90.2	91.0
	100%	91.7	90.3	90.3	90.8	88.5	89.5	90.2
	25%							
Dower Footer	50%	0.70	0.66	0.63	0.60	0.76	0.73	0.70
Power Factor	75%	0.80	0.79	0.76	0.73	0.83	0.82	0.80
	100%	0.85	0.84	0.83	0.81	0.86	0.86	0.85

Drive end Non drive end Foundation loads

Bearing type : 6311 C3 6211 C3 Max. traction : 904 lb
Sealing : V'Ring V'Ring Max. compression : 1351 lb

20000 h

Lubricant amount : 18 g 11 g Lubricant type : Mobil Polyrex EM

20000 h

Notes

Lubrication interval

USABLE @208V 53.5A SF 1.15 SFA 61.5A

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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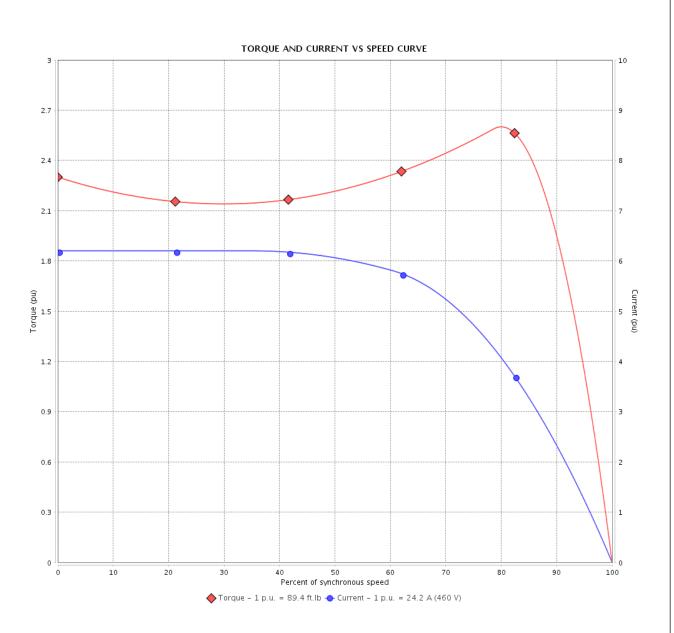
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11580967

Catalog #: 02012ET3E286TC-W22



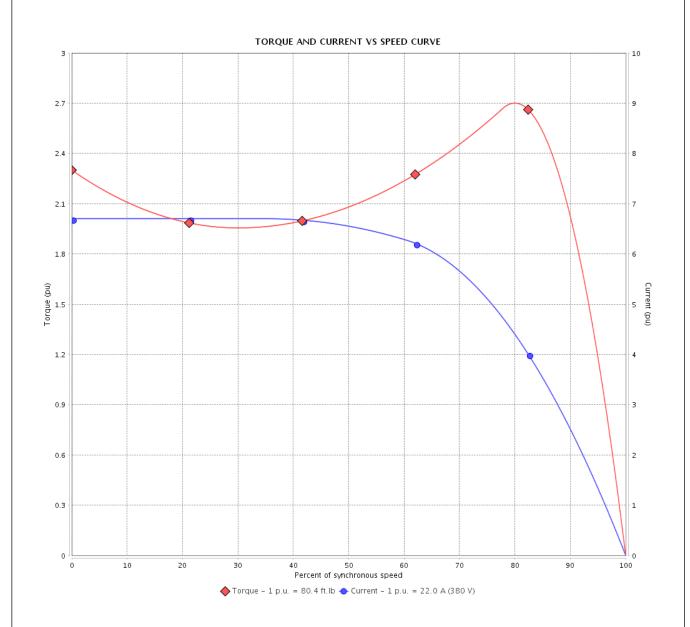
Performance	: 230/460 V 60 Hz 6P			
Rated current LRC	: 48.4/24.2 A : 6.2	Moment of inertia (J) Duty cycle	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 89.4 ft.lb : 229 %	Insulation class Service factor	: F : 1.25	
Breakdown torque Rated speed	: 260 % : 1175 rpm	Temperature rise Design	: 80 K : B	
Locked rotor time	: 28s (cold) 16s (hot)			

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Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11580967 Catalog #: 02012ET3E286TC-W22



Performance : 380 V 50 Hz 6P IE3 Rated current : 22.0 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 80.4 ft.lb Insulation class Rated torque : F : 229 % Locked rotor torque Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K : B Rated speed : 980 rpm Design

Lookou rotor tiiri		10 (0010) 120 (1101)			
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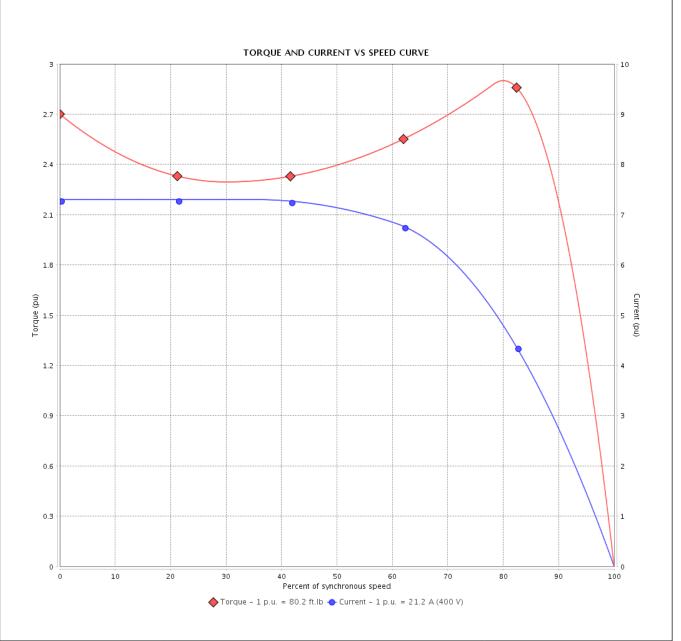
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02012ET3E286TC-W22

11580967



Performance	: 400 V 50 Hz 6P IE3		
Rated current LRC Rated torque	: 21.2 A : 7.3 : 80.2 ft.lb	Moment of inertia (J) Duty cycle Insulation class	: 9.16 sq.ft.lb : Cont.(S1) : F
Locked rotor torque Breakdown torque Rated speed	: 270 % : 290 % : 982 rpm	Service factor Temperature rise Design	: 1.15 : 80 K : B
Locked reter time	: 21s (cold) 12s (hot)		

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11580967 Catalog #: 02012ET3E286TC-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 80.1 ft.lb ◆ Current - 1 p.u. = 20.8 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 20.8 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : 80.1 ft.lb Insulation class Rated torque : F : 280 % Locked rotor torque Service factor : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 983 rpm Design : B Locked rotor time : 21s (cold) 12s (hot) Date Rev. Performed Checked **Changes Summary**

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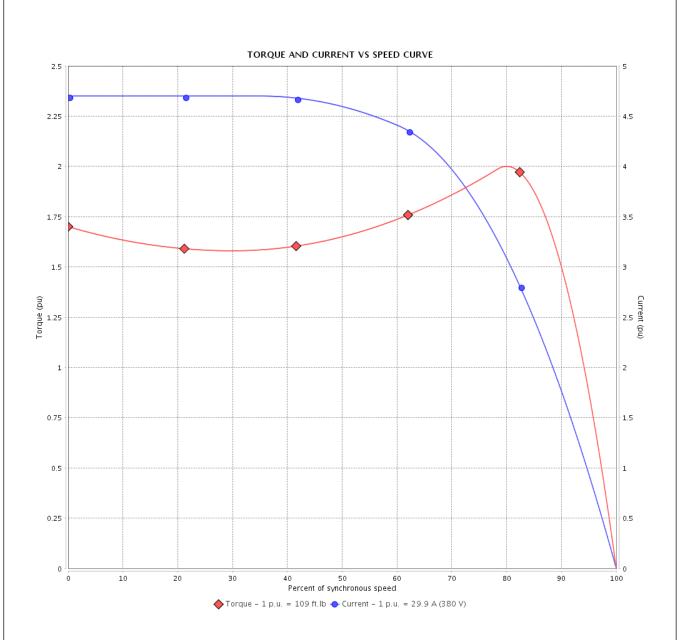


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Product line : NEMA Premium Efficiency Three- Product code : 11580967

Phase

Catalog #: 02012ET3E286TC-W22



Performance : 380 V 50 Hz 6P IE1 Rated current : 29.9 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 4.7 Duty cycle : Cont.(S1) : 109 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 965 rpm Design : B

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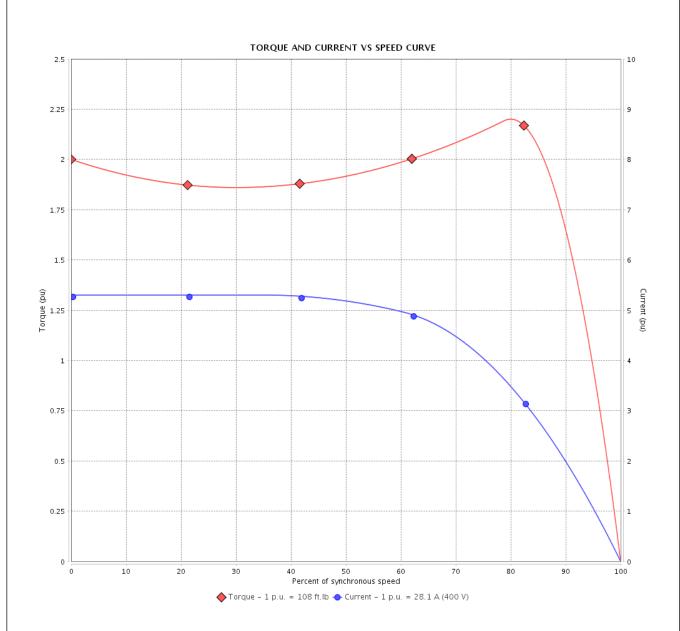
Product line



Customer :

: NEMA Premium Efficiency Three- Product code : 11580967

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Performance	: 400 V 50 Hz 6P IE1			
Rated current	: 28.1 A	Moment of inertia (J)	: 9.16 sq.ft.lb	
LRC	: 5.3	Duty cycle	: Cont.(S1)	
Rated torque	: 108 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.15	
Breakdown torque	: 220 %	Temperature rise	: 105 K	
Rated speed	: 970 rpm	Design	: B	

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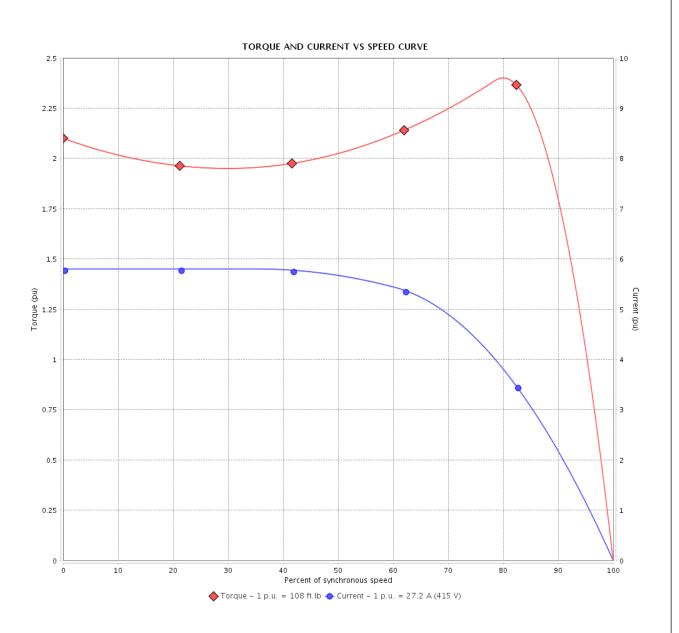


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11580967

Phase

Catalog #: 02012ET3E286TC-W22



Performance : 415 V 50 Hz 6P IE2 Rated current : 27.2 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 108 ft.lb : F Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 975 rpm Design : B

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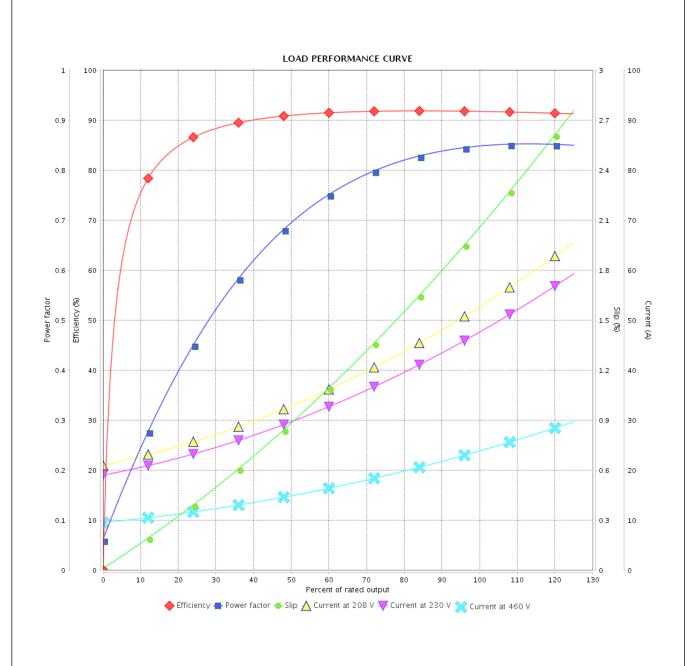


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11580967

Phase

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Performance	:	230/460 V 60 Hz 6P				
Rated current	:	48.4/24.2 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	:	6.2	Duty cycle	:	: Cont.(S1)	
Rated torque	:	89.4 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	229 %	Service fa	ctor	: 1.25	
Breakdown torque	:	260 %	Temperati	ıre rise	: 80 K	
Rated speed	:	1175 rpm	Design		: B	
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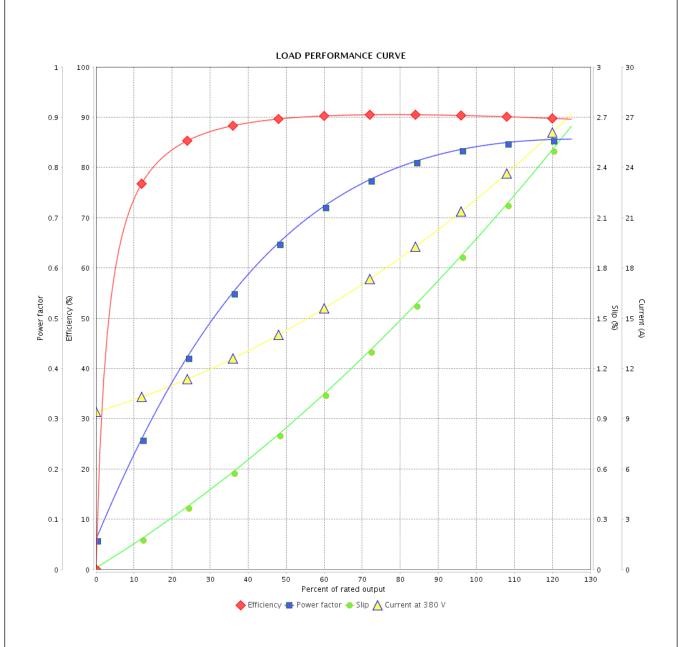
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Phase

Product code: 11580967

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Performance	:	380 V 50 Hz 6P IE	:3			
l '	RC : 6.7 Duty cycle Rated torque : 80.4 ft.lb Insulation ocked rotor torque : 229 % Service fa Breakdown torque : 270 % Temperatu		class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
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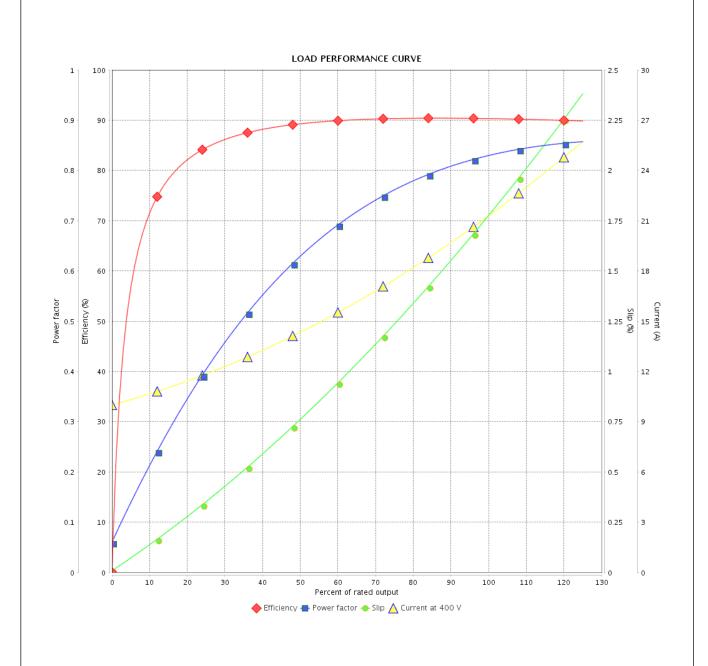
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Performance	: 4	400 V 50 Hz 6P IE3	<u> </u>			
Rated current	: 2	21.2 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 7	7.3	Duty cycle)	: Cont.(S1)	
Rated torque	: 8	80.2 ft.lb	Insulation	class	: F	
Locked rotor torque		270 %	Service fa	ctor	: 1.15	
Breakdown torqu	ue : 2	290 %	7 Temperature rise		: 80 K	
Rated speed	: 9	982 rpm	Design		: B	
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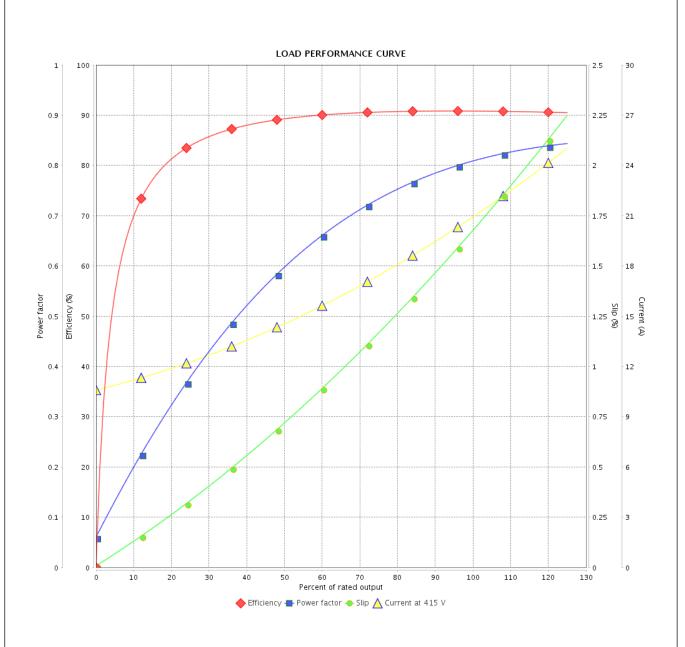
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Phase

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Performance	: 415 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.8 A : 7.5 : 80.1 ft.lb : 280 % : 320 % : 983 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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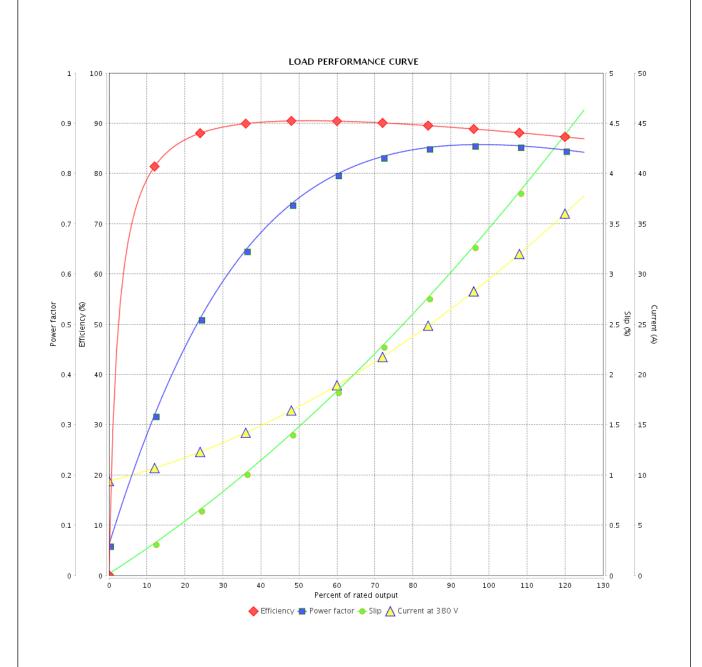


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11580967

Phase

Catalog #: 02012ET3E286TC-W22



Performance	: 3	380 V 50 Hz 6P IE1					
Rated current	ated current : 29.9 A		Moment o	f inertia (J)	: 9.16 sq.ft.lb		
LRC	: 4	l.7	Duty cycle		: Cont.(S1)		
Rated torque	: 1	09 ft.lb	Insulation	class	: F		
Locked rotor torqu	ie : 1	170 %	Service fa	ctor	: 1.00		
Breakdown torque		200 %	Temperatu	Temperature rise		: 105 K	
Rated speed	: 9	965 rpm	Design		: B		
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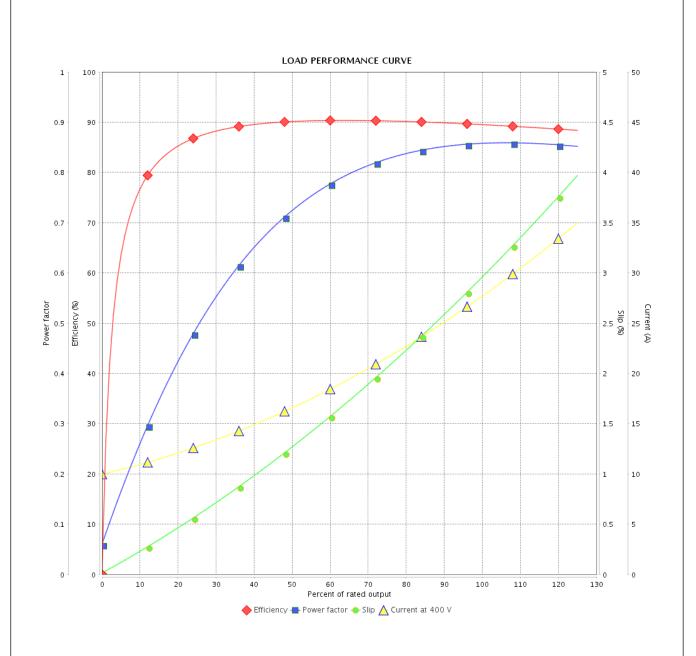
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Phase

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Performance	: 400 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.1 A : 5.3 : 108 ft.lb : 200 % : 220 % : 970 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K : B	
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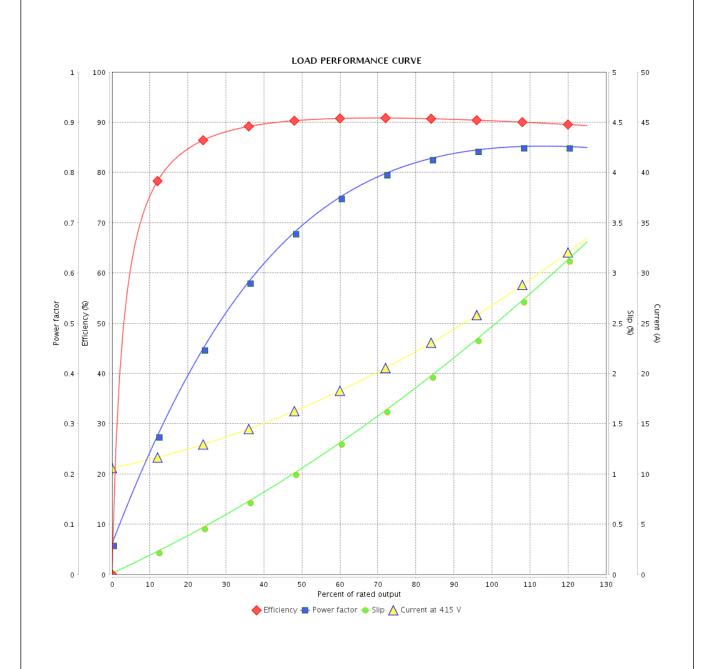
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11580967

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Performance	: 4	: 415 V 50 Hz 6P IE2				
Rated current	Rated current : 27.2 A		Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 5	5.8	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	08 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	10 %	Service fa	ctor	: 1.15	
Breakdown torque		40 %	Temperati	Temperature rise		
Rated speed	: 9	75 rpm	Design		: B	
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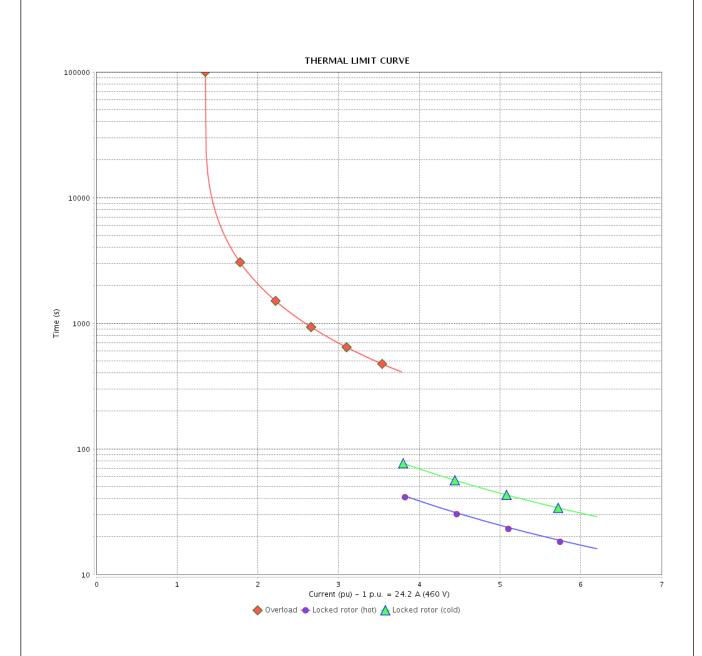


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Product line		NEMA Premium Efficiency ⁻ Phase		Product code :	11580967 02012ET3E28	86TC-W22
Performance		30/460 V 60 Hz 6P				
Rated current LRC	: 6		Duty cycle	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torq		9.4 ft.lb 29 %	Insulation Service fac		: F : 1.25	
Breakdown torqu Rated speed	ie : 2	260 % 175 rpm	Temperatu Design	re rise	: 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Cumman	Г	Performed	Checked	Date
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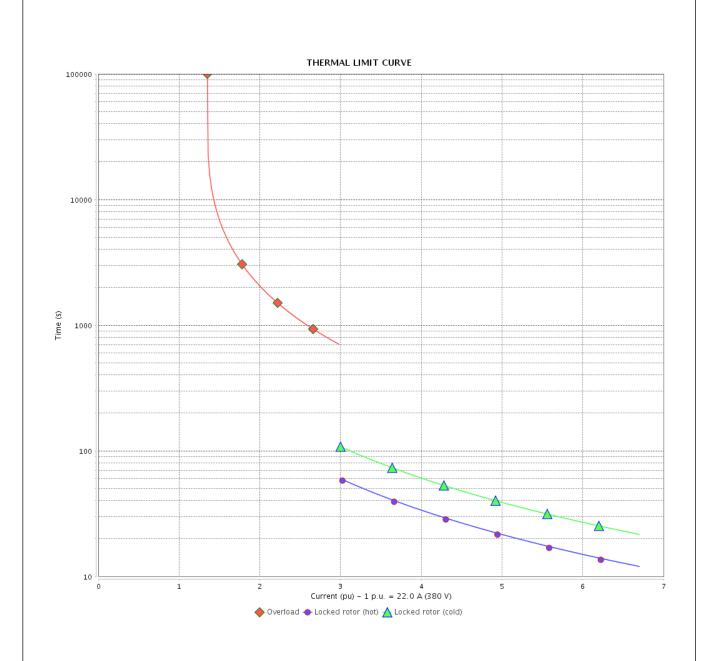


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Ousionici	•				
Product line	: NEMA Premium Efficiency Phase	y Three-	Product code :	11580967	
	Tildac		Catalog # :	02012ET3E28	36TC-W22
Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22.0 A : 6.7 : 80.4 ft.lb : 229 % : 270 % : 980 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
	· · · · ·	3.2 3.3			
Heating constant Cooling constant					
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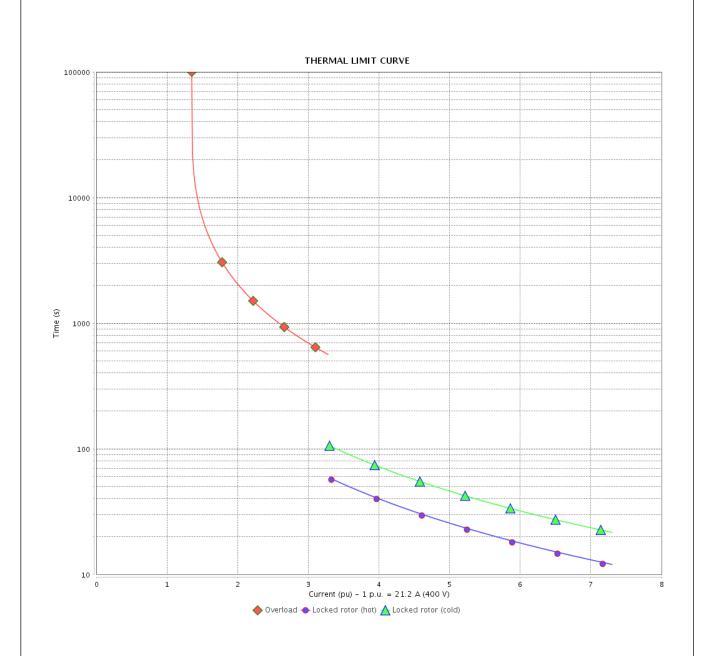


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Product line		NEMA Premium Efficiency	Three-	Product code :	11580967	
	Pl	hase		Catalog # :	02012ET3E28	RATC-W22
					0201221022	7010 1122
Performance	· 40	00 V 50 Hz 6P IE3				
Rated current		1.2 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 7.	3	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torq		0.2 ft.lb 70 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	e : 29	90 %	Temperatu		: 80 K	
Rated speed	: 98	32 rpm	Design		: B	
Heating constant						
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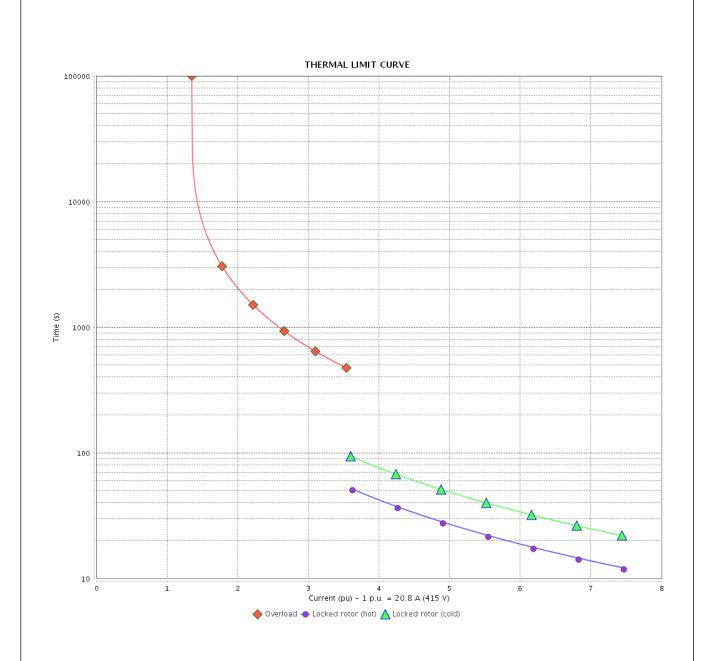


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11580967 02012ET3E28	86TC-W22
Performance		: 415 V 50 Hz 6P IE3				
Rated current		: 20.8 A	Moment o	of inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque		: 7.5 : 80.1 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord Breakdown torqu		: 280 % : 320 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 983 rpm	Design	uic lise	: B	
Heating constan						
Cooling constant	t					
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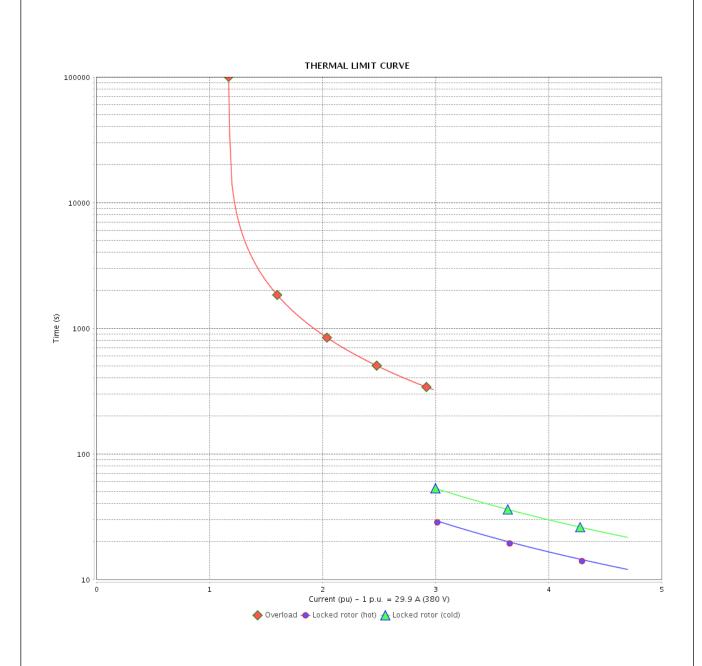


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11580967 02012ET3E28	86TC-W22
Performance		: 380 V 50 Hz 6P IE1				
Rated current LRC		: 29.9 A : 4.7	Moment of Duty cycle	of inertia (J) e	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque		: 109 ft.lb : 170 %	Insulation Service fa		: F : 1.00	
Locked rotor tord Breakdown torqu		: 200 %	Temperat		: 1.00 : 105 K	
Rated speed		: 965 rpm	Design	· 	: B	
Heating constan						
Cooling constant	τ	Changes Summers		Performed	Checked	Date
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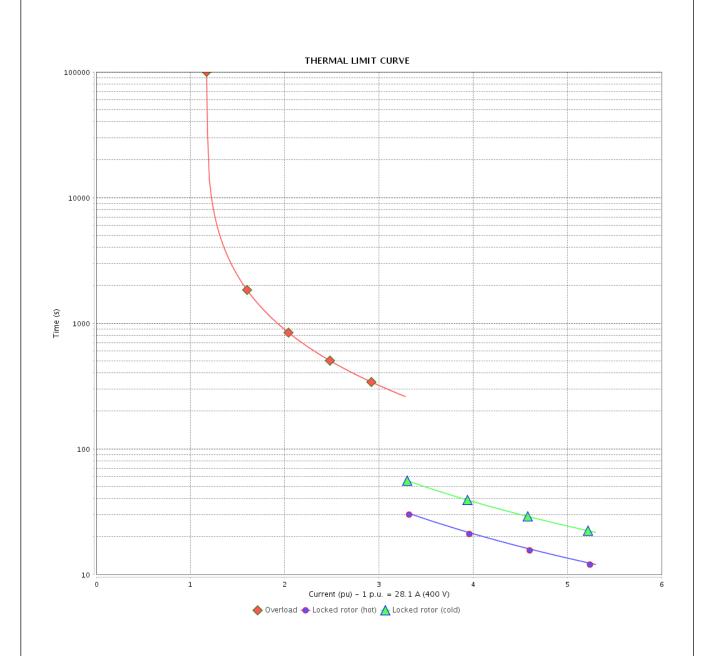


Customer	:				
Product line	: NEMA Premium Efficien	cy Three-	Product code :	11580967	
	Phase		Catalog # :	02012ET3E2	PRETC MISS
			Catalog # .	02012E13E2	.601C-VV22
Performance	: 400 V 50 Hz 6P IE1				
Rated current LRC	: 28.1 A : 5.3	Moment of Duty cycle	of inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque	: 108 ft.lb	Insulation	class	: F	
Locked rotor torque	: 200 % : 220 %	Service fa		: 1.15 : 105 K	
Breakdown torque Rated speed	: 220 % : 970 rpm	Temperat Design	uie lise	: 105 K : B	
Heating constant		-			
Cooling constant					
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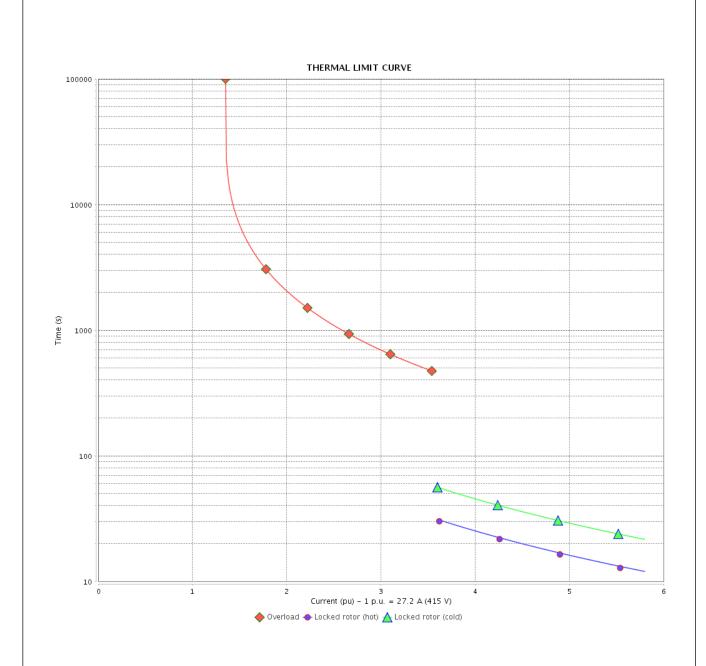


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Product line		NEMA Premium Efficiency	Three- I	Product code :	11580967	
	PI	hase	(Catalog # :	02012ET3E28	36TC-W22
Performance	: 4′	15 V 50 Hz 6P IE2				
Rated current		7.2 A	Moment or	f inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque	: 5. : 10	8 08 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torq	ue : 21	10 %	Service fa	ctor	: 1.15	
Breakdown torqu Rated speed		40 % 75 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant		•				
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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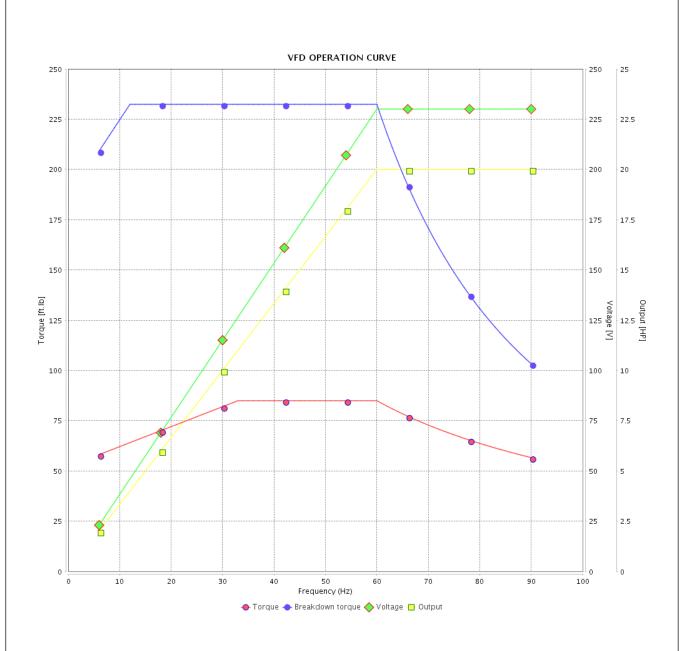
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11580967

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Performance : 230/460 V 60 Hz 6P Rated current : 48.4/24.2 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 Insulation class Rated torque : 89.4 ft.lb : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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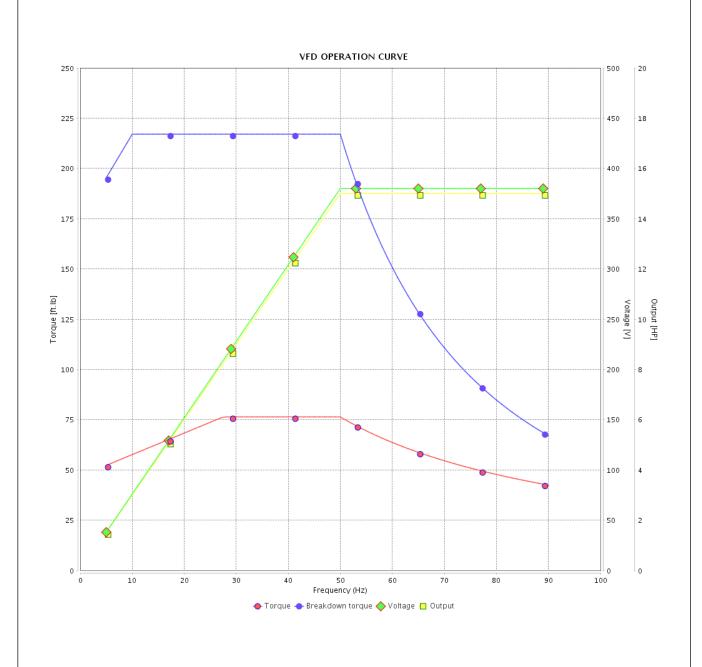
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Performance	: 3	30 V 50 Hz 6P IE3	80 V 50 Hz 6P IE3			
Rated current	ed current : 22.0 A Moment of inertia (J)		f inertia (J)	: 9.16 sq.ft.lb		
LRC	: 6	7	Duty cycle)	: Cont.(S1)	
Rated torque	: 80	0.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2:	29 %	Service factor		: 1.00	
Breakdown torque		70 %	Temperati	Temperature rise		
Rated speed	: 98	30 rpm	Design	Design		
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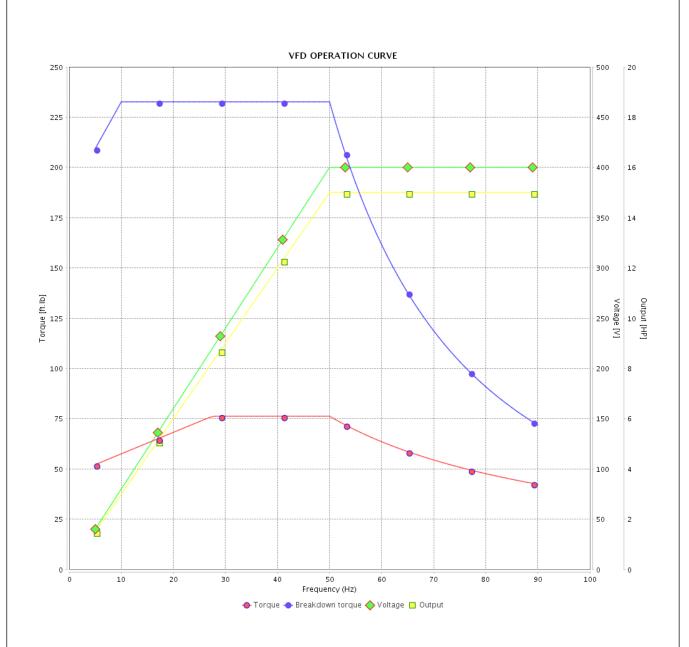
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Performance		: 400 V 50 Hz	z 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 21.2 A : 7.3 : 80.2 ft.lb : 270 % : 290 % : 982 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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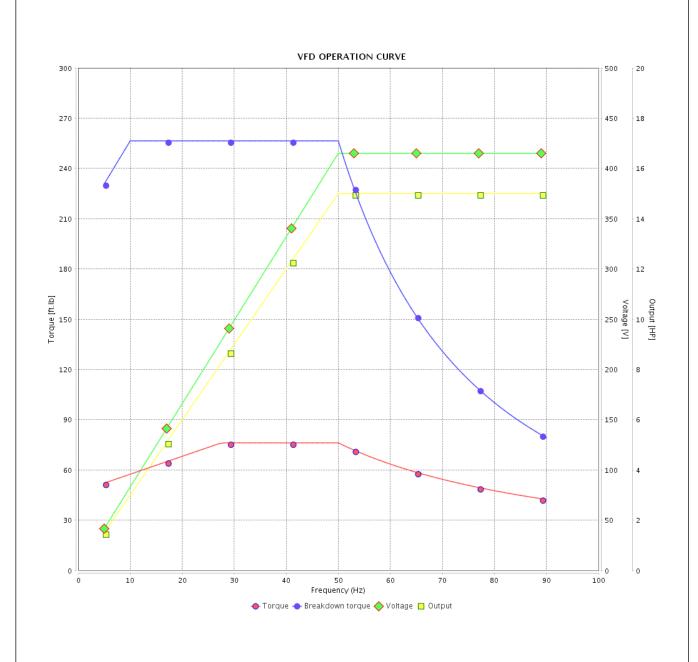
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

roduct code: 11580967

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Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 2	.0.8 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC : 7.5		7.5	Duty cycle	Duty cycle		
Rated torque : 80.		0.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	80 %	Service fa	ctor	: 1.15	
Breakdown torque	: 3	20 %	Temperatu	Temperature rise : 8		
Rated speed		183 rpm	Design	Design : B		
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Phase

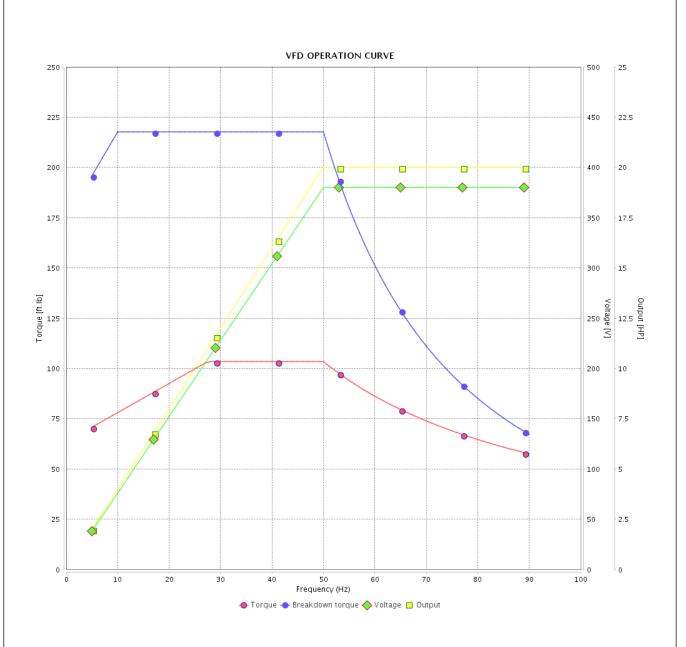
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Performance : 380 V 50 Hz 6P IE1 Rated current : 29.9 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 4.7 Duty cycle : Cont.(S1) : 109 ft.lb Insulation class : F Rated torque Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

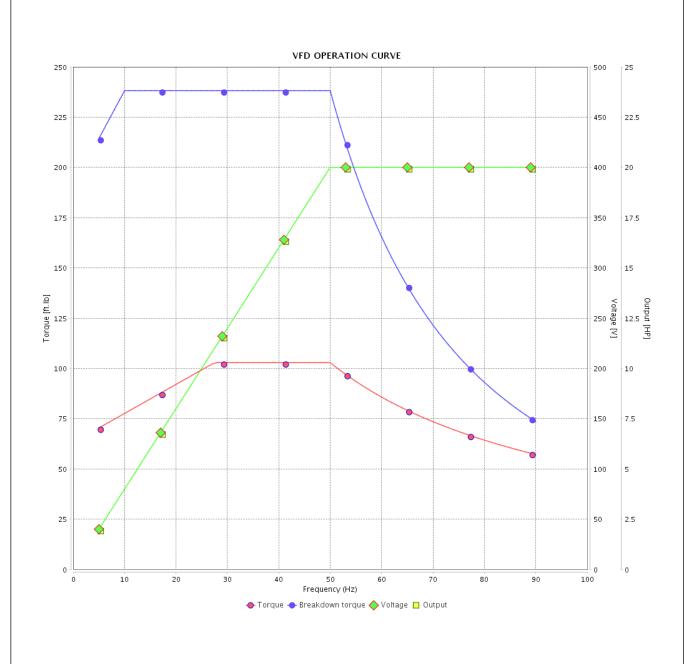


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Performance	:	: 400 V 50 Hz 6P IE1					
Rated current	:	28.1 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb		
LRC	:	5.3	Duty cycle)	: Cont.(S1)		
Rated torque	:	108 ft.lb	Insulation	class	: F		
Locked rotor torque	e :	200 %	Service fa	Service factor : 1.15			
Breakdown torque	:	220 %	Temperati	Temperature rise : 105 K			
Rated speed	:	970 rpm	Design : B		: B		
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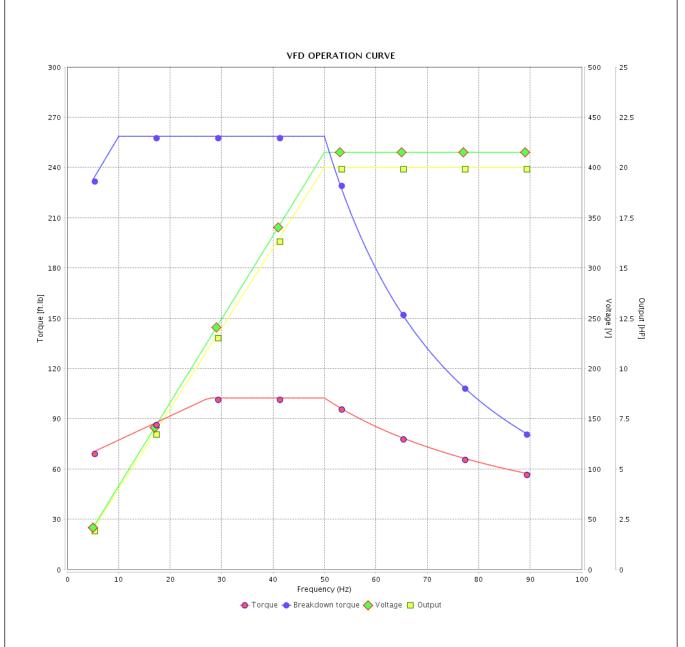
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Performance		: 415 V 50 Hz 6P II	E2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 27.2 A : 5.8 : 108 ft.lb : 210 % : 240 % : 975 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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