### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12598765

Phase

Catalog #: 01512ET3E284JM-W22

Frame : 284/6JM 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

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

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Altitude		: 1000 m.a.	s.l.	Approx	. weight <sup>3</sup>	: 4	22 lb	
Protection degree	е	: IP55		Momer	nt of inertia (J)	: 7	.85 sq.ft.lb	
Design		: B						
Output [HP]		15	10	10	10	15	15	15
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]		35.8/17.9	15.5	15.1	14.9	22.0	20.9	20.2
L. R. Amperes [A]		229/115	112	119	124	103	111	115
LRC [A]		6.4x(Code G)	7.2x(Code J)	7.9x(Code K)	8.3x(Code K)	4.7x(Code E)	5.3x(Code F)	5.7x(Code F)
No load current [A]		14.0/7.00	7.00	7.40	7.70	7.00	7.40	7.70
Rated speed [RPM	1]	1175	985	985	985	965	970	975
Slip [%]		2.08	1.50	1.50	1.50	3.50	3.00	2.50
Rated torque [ft.lb]		67.0	53.3	53.3	53.3	81.6	81.2	80.8
Locked rotor torque	e [%]	229	270	300	330	170	200	220
Breakdown torque	[%]	260	300	340	360	210	229	250
Service factor		1.25	1.25	1.25	1.25	1.00	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		36s (cold)	61s (cold)	54s (cold)	52s (cold)	27s (cold)	27s (cold)	27s (cold)
		20s (hot)	34s (hot)	30s (hot)	29s (hot)	15s (hot)	15s (hot)	15s (hot)
Noise level <sup>2</sup>		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%	90.8	88.9	89.0	89.0	92.4	90.6	90.7
Efficiency (%)	50%	91.0	89.0	89.1	89.1	91.0	90.2	90.2
Liliototicy (70)	75%	91.7	89.4	89.5	89.5	90.2	90.2	91.0
	100%	91.7	89.4	89.5	89.5	88.5	89.5	90.2

Drive end Non drive end Foundation loads

0.36

0.61

0.73

0.80

0.34

0.58

0.71

0.78

Bearing type : 6311 C3 6211 C3 Max. traction : 670 lb Sealing : V'Ring V'Ring Max. compression : 1092 lb

0.39

0.64

0.76

0.82

Lubrication interval : 20000 h 20000 h Lubricant amount : 18 g 11 g Lubricant type : Mobil Polyrex EM

0.44

0.69

0.80

0.84

Notes

Power Factor

USABLE @208V 39.6A SF 1.15 SFA 45.5A

25%

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.

0.50

0.75

0.84

0.86

0.47

0.72

0.82

0.85

0.45

0.70

0.81

0.84

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#### Three Phase Induction Motor - Squirrel Cage



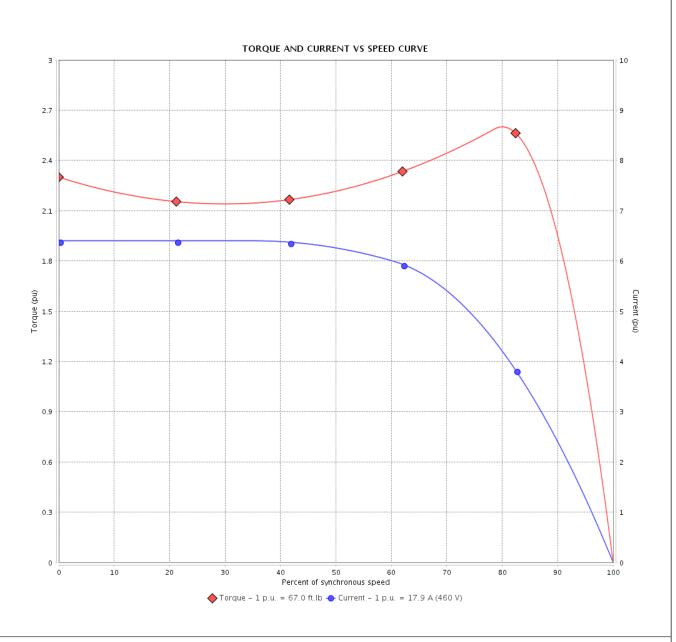
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12598765

Catalog #: 01512ET3E284JM-W22



Performance : 230/460 V 60 Hz 6P Rated current : 35.8/17.9 A Moment of inertia (J) : 7.85 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 67.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

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

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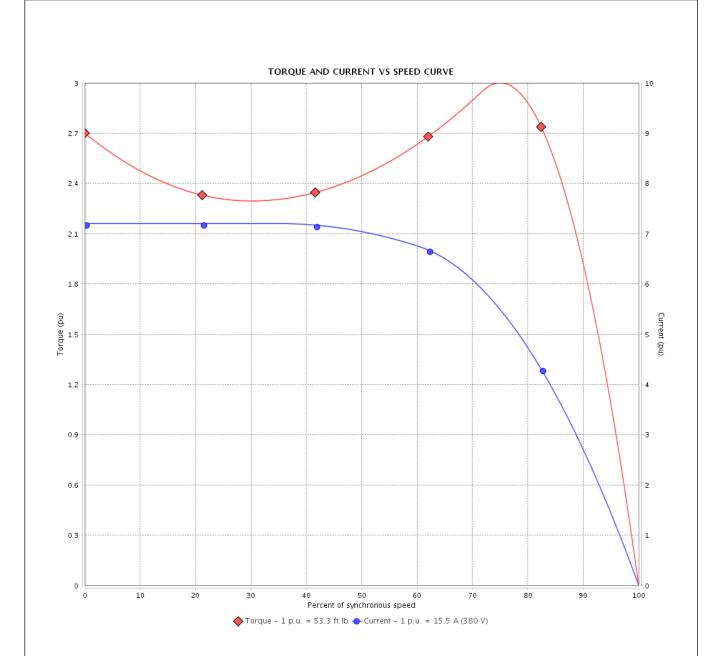
#### Three Phase Induction Motor - Squirrel Cage



01512ET3E284JM-W22

Customer Product line : NEMA Premium Efficiency Three-Product code: 12598765

Catalog #:



Performance : 380 V 50 Hz 6P IE3 Rated current : 15.5 A Moment of inertia (J) : 7.85 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 53.3 ft.lb : 270 % : 1.25 Locked rotor torque Service factor : 300 % Breakdown torque Temperature rise : 80 K : B Rated speed : 985 rpm Design Locked rotor time : 61s (cold) 34s (hot)

Lockou rotor tim		10 (0010) 0 10 (1101)			
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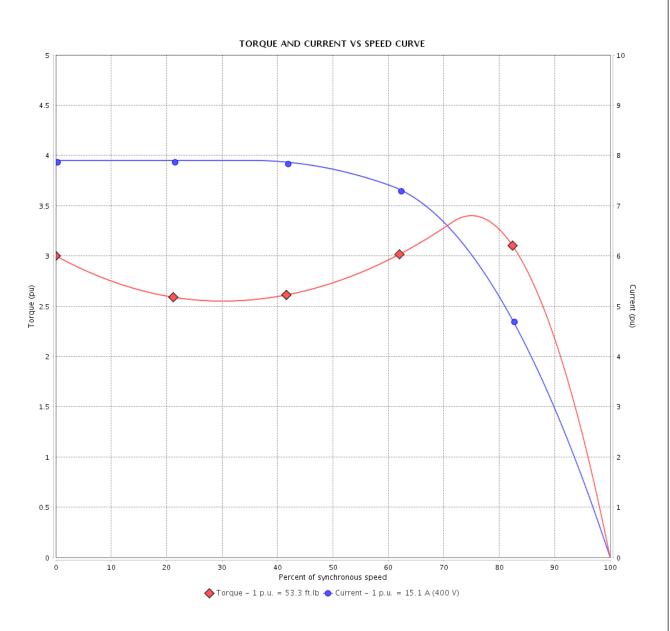
Customer :

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 12598765

Catalog #: 01512ET3E284JM-W22



Performance : 400 V 50 Hz 6P IE3 Rated current : 15.1 A Moment of inertia (J) : 7.85 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.3 ft.lb : F Service factor Locked rotor torque : 300 % : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

Locked rotor time : 54s (cold) 30s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12598765 Catalog #: 01512ET3E284JM-W22 TORQUE AND CURRENT VS SPEED CURVE

		•									
4											
3.5						4			•		
3											
		<b>•</b>		•							
2.5									•		!-!
2											
									\		
1.5											
1											
0.5										\	<b>\</b>  :
										\	
0 1	10	20	30	40	50	60	7	0 1	B0	90	100

Performance : 415 V 50 Hz 6P IE3 Rated current : 14.9 A Moment of inertia (J) : 7.85 sq.ft.lb LRC : 8.3 Duty cycle : Cont.(S1) Rated torque Insulation class : F : 53.3 ft.lb : 330 % : 1.25 Locked rotor torque Service factor : 360 % Breakdown torque Temperature rise : 80 K : B Rated speed : 985 rpm Design

Locked rotor time : 52s (cold) 29s (hot)

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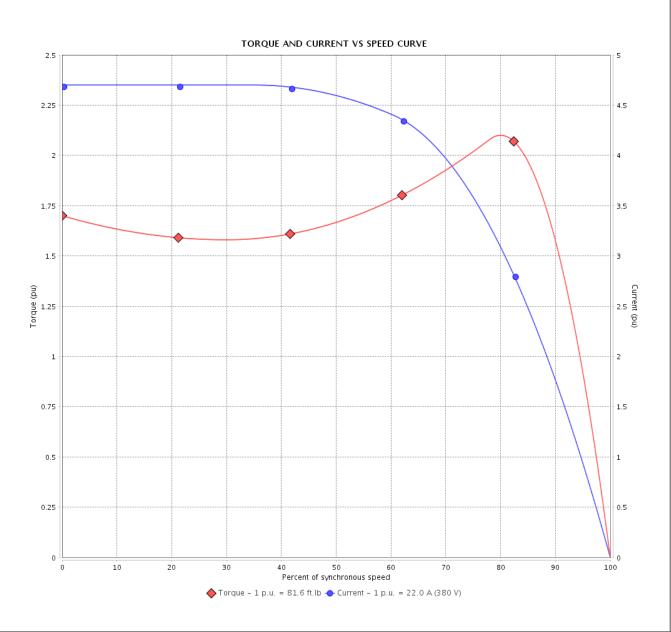
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 12598765

Catalog #: 01512ET3E284JM-W22



Performance : 380 V 50 Hz 6P IE1 Rated current : 22.0 A Moment of inertia (J) : 7.85 sq.ft.lb **LRC** : 4.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 81.6 ft.lb : F Service factor Locked rotor torque : 170 % : 1.00 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 965 rpm Design : B

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

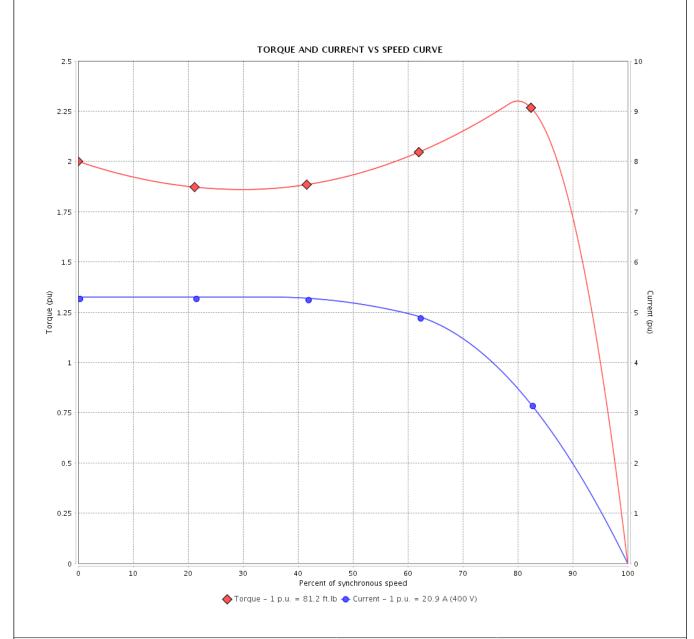
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Customer :

Product line : NEMA Premium Efficiency Three-Product code : 12598765
Phase Catalog # : 01512ET3E284JM-W22



Performance	: 400 V 50 Hz 6P IE2			
Rated current	: 20.9 A	Moment of inertia (J)	: 7.85 sq.ft.lb	
LRC	: 5.3	Duty cycle	: Cont.(S1)	
Rated torque	: 81.2 ft.lb	Insulation class	:F	
Locked rotor torque	: 200 %	Service factor	: 1.15	
Breakdown torque	: 229 %	Temperature rise	: 80 K	
Rated speed	: 970 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			

Locked Total tilli	. 2	73 (6014) 133 (1101)			
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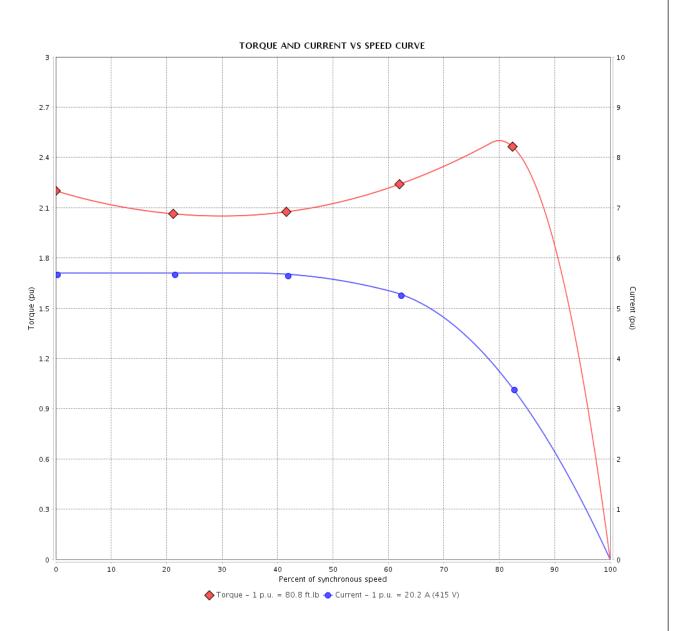


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12598765

Phase

Catalog #: 01512ET3E284JM-W22



Performance : 415 V 50 Hz 6P IE2 Rated current : 20.2 A Moment of inertia (J) : 7.85 sq.ft.lb **LRC** : 5.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 80.8 ft.lb : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 975 rpm Design : B Locked rotor time : 27s (cold) 15s (hot)

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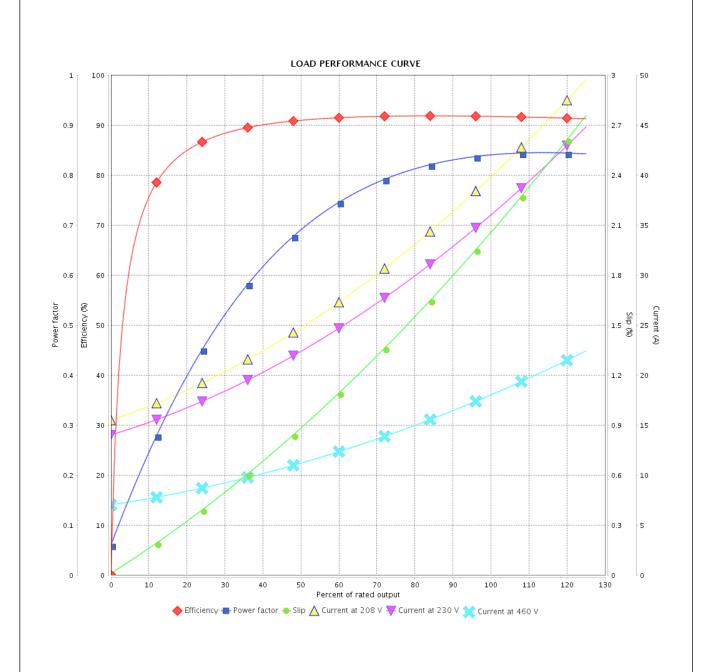
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12598765

Catalog #: 01512ET3E284JM-W22



Performance	: 2	230/460 V 60 Hz 6P					
Rated current : 35		35.8/17.9 A	Moment o	f inertia (J)	: 7.85 sq.ft.lb		
LRC	: 6	6.4	Duty cycle	<b>;</b>	: Cont.(S1)		
Rated torque			class	: F			
Locked rotor torqu	ıe : 2	229 %	Service factor		: 1.25		
Breakdown torque : 2		260 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	175 rpm	Design		: B		
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

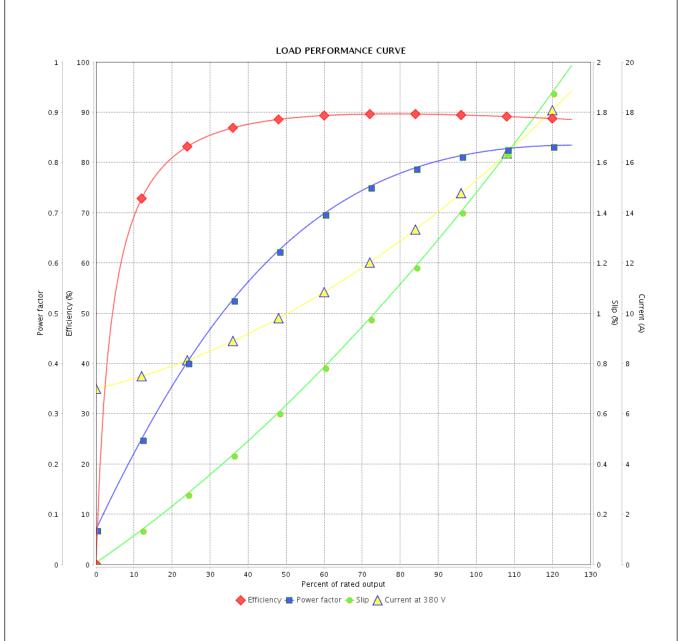
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Performance	: 380 V 50 Hz 6F	PIE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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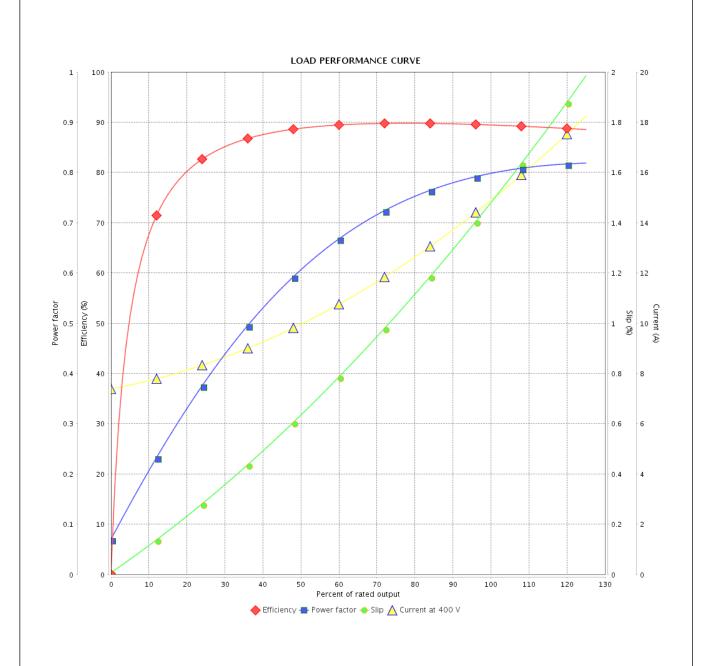
Customer

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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.1 A : 7.9 : 53.3 ft.lb : 300 % : 340 % : 985 rpm	Moment of ir Duty cycle Insulation cla Service facto Temperature Design	ass	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Phase

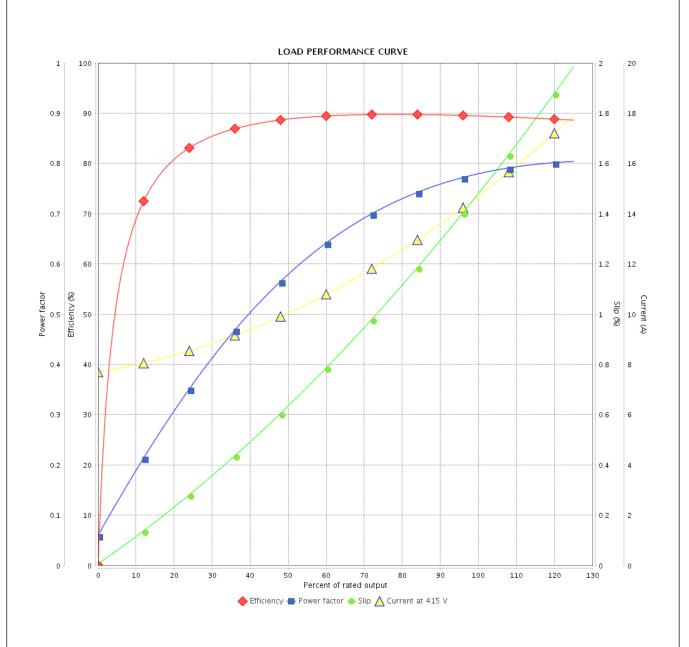
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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.9 A : 8.3 : 53.3 ft.lb : 330 % : 360 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



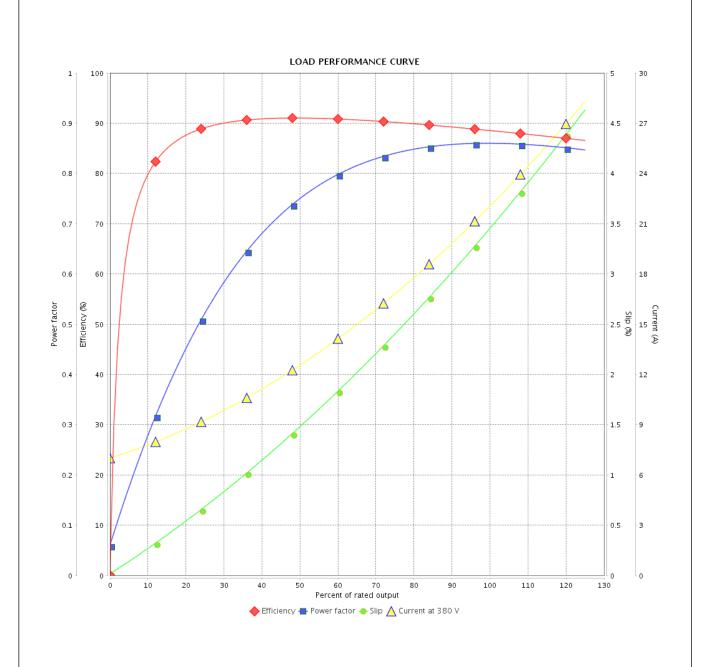
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598765

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Performance	: 380 V 50 Hz 6P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22.0 A : 4.7 : 81.6 ft.lb : 170 % : 210 % : 965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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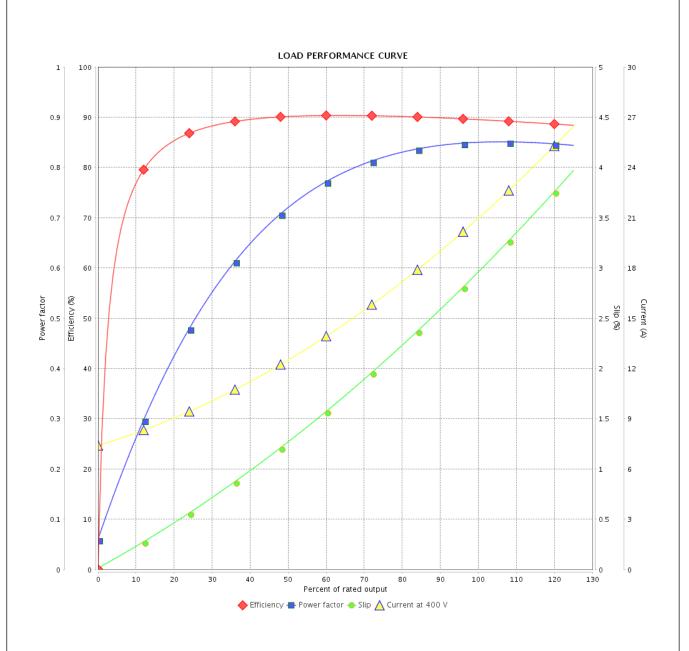
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Product code: 12598765

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D. f.	400 1/ 50 11 00 150	·			
Performance	: 400 V 50 Hz 6P IE2				
ated current : 20.9 A RC : 5.3 tated torque : 81.2 ft.lb		Moment of inertia (J)  Duty cycle Insulation class		: 7.85 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	cked rotor torque : 200 % Service fact eakdown torque : 229 % Temperature			: 1.15 : 80 K : B	
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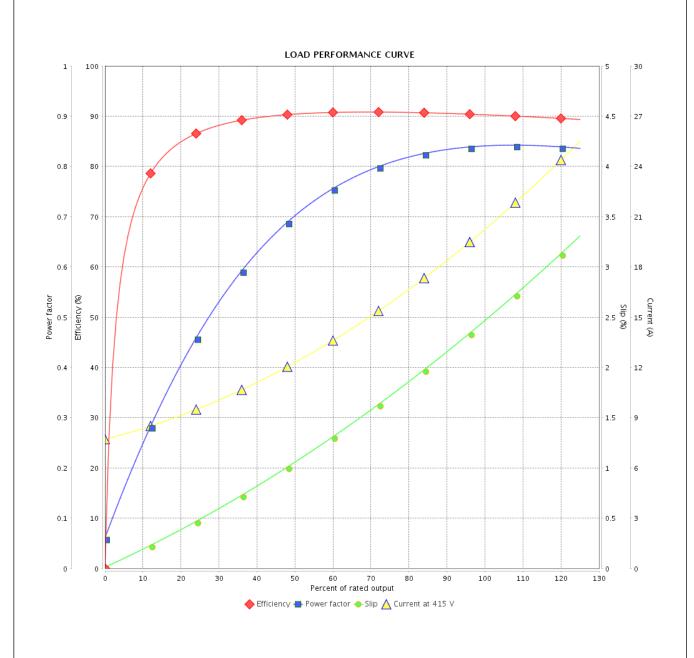
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598765

Phase

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Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.2 A : 5.7 : 80.8 ft.lb : 220 % : 250 % : 975 rpm	Moment of Duty cycle Insulation of Service fac Temperatur Design	lass tor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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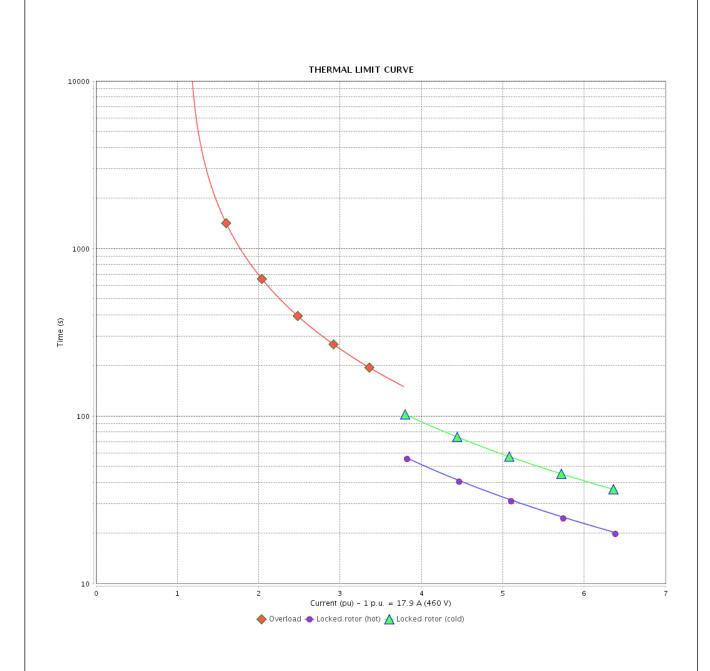


Customer	:					
Product line	: 1	NEMA Premium Efficiency	Three-	Product code :	12598765	
		hase		Catalog # :	01512ET3E28	24 IM M22
				Catalog # .	01312E13E26	04JIVI-VVZZ
Performance	: 23	30/460 V 60 Hz 6P				
Rated current		5.8/17.9 A	Moment o	f inertia (J)	: 7.85 sq.ft.lb	
LRC Rated torque	: 6. : 67	4 7.0 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 22	29 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		60 % 175 rpm	Temperatu Design	ıre rise	: 80 K : B	
	. ! !	· · - · · · · · · · · · · · · · · · · ·	_ 55.911		- <del>-</del>	
Heating constant Cooling constant						
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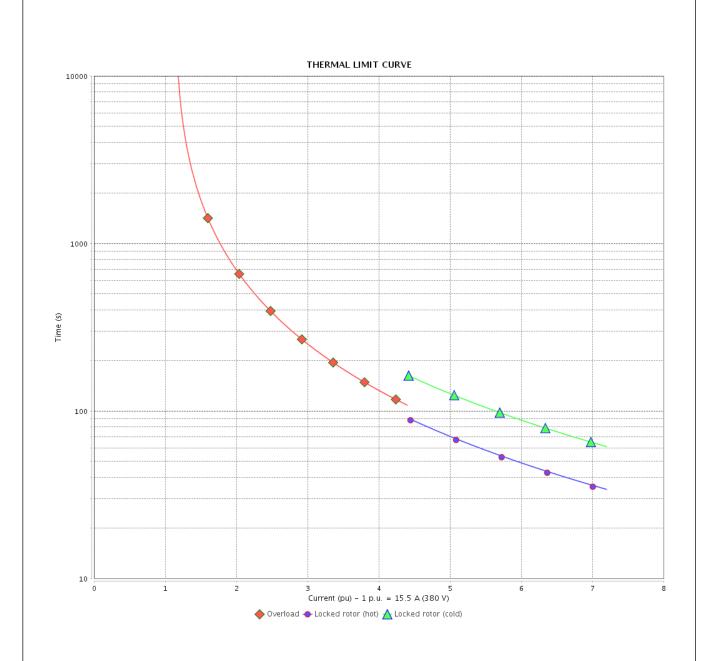


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598765 01512ET3E28	34.IM-W22
					01012210220	710101 7722
Performance		: 380 V 50 Hz 6P IE3				
Rated current		: 15.5 A	Moment o	of inertia (J)	: 7.85 sq.ft.lb	
LRC Rated torque		: 7.2 : 53.3 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 270 %	Service fa		: 1.25	
Breakdown torqu Rated speed		: 300 % : 985 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan	t					
Cooling constant	t					
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Customer



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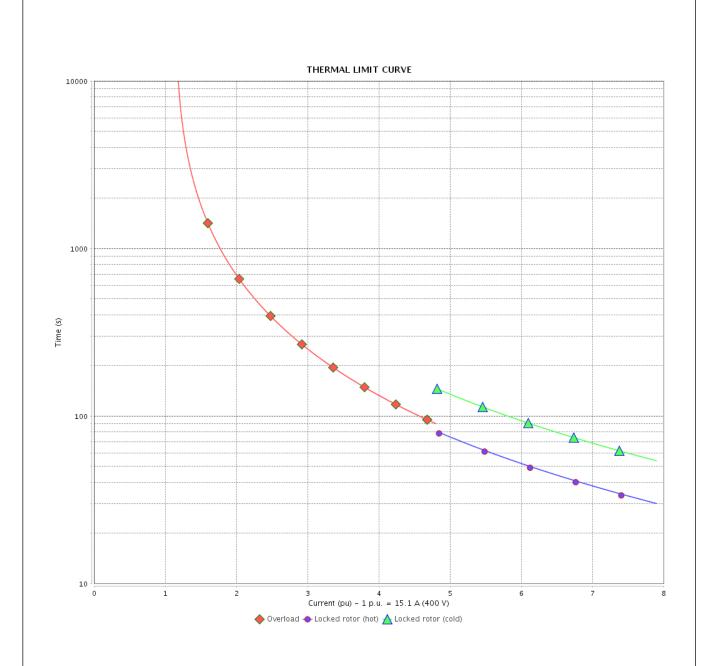


Customer	:				<del>.</del>	
Product line	1:	NEMA Premium Efficiency	Three-	Product code :	12598765	
		hase		Catalog # :	01512ET3E28	24 IM M22
				Catalog # .	01312E13E26	04JIVI-VVZZ
Performance	: 40	00 V 50 Hz 6P IE3				
Rated current		5.1 A	Moment o	f inertia (J)	: 7.85 sq.ft.lb	
LRC Rated torque	: 7. : 53	.9 3.3 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torq	ue : 30	00 %	Service fa	ctor	: 1.25	
Breakdown torqu Rated speed		40 % 85 rpm	Temperatu Design	ıre rise	: 80 K : B	
			Design			
Heating constant Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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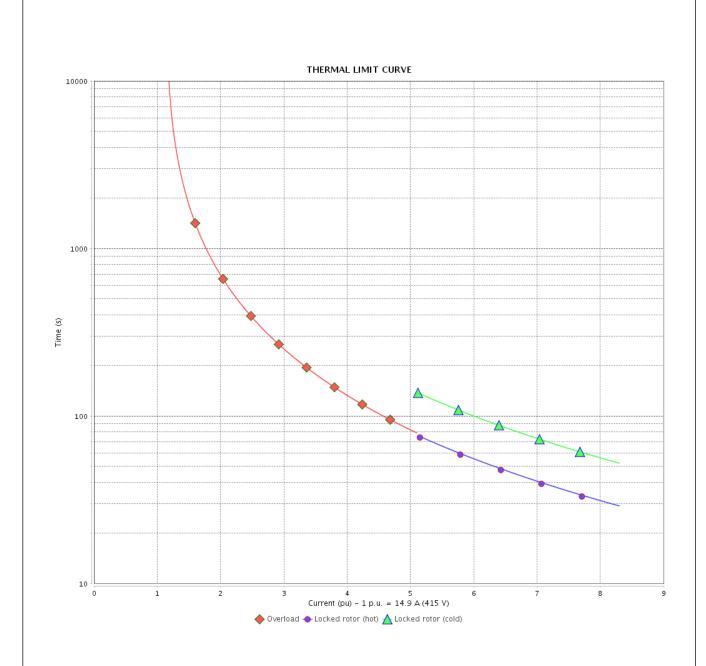


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598765 01512ET3E28	34JM-W22
Performance		: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque		: 14.9 A : 8.3 : 53.3 ft.lb	Moment of Duty cycle Insulation		: 7.85 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que :	: 330 %	Service fa	actor	: 1.25	
Breakdown torqu Rated speed		: 360 % : 985 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

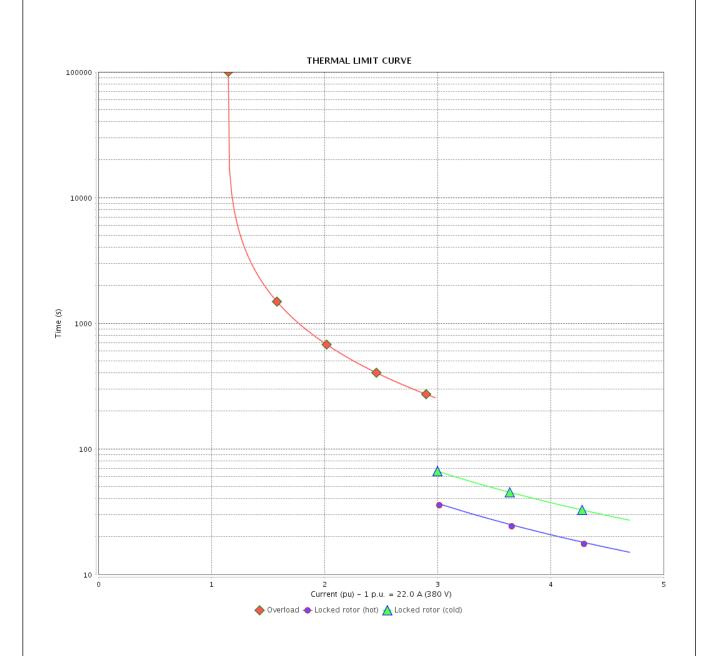


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598765 01512ET3E28	84 IM-W/22
					0101221022	710111 1122
Performance		: 380 V 50 Hz 6P IE1				
Rated current LRC		: 22.0 A : 4.7	Moment of Duty cycle	of inertia (J)	: 7.85 sq.ft.lb : Cont.(S1)	
Rated torque		: 81.6 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 170 % : 210 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 965 rpm	Design	J. 5 1.00	: B	
Heating constan						
Cooling constant	t					
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#### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

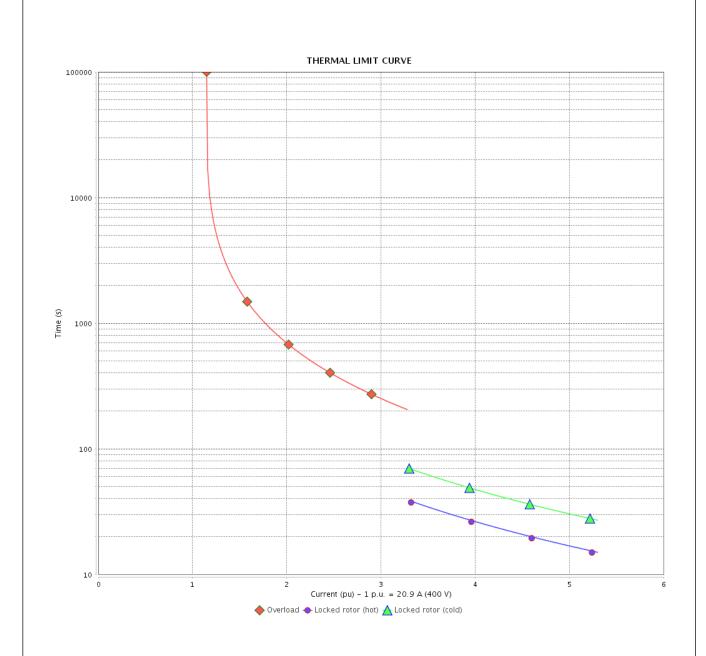


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12598765 01512ET3E28	34JM-W22
Performance		: 400 V 50 Hz 6P IE2				
Rated current LRC		: 20.9 A : 5.3	Moment of	of inertia (J)	: 7.85 sq.ft.lb : Cont.(S1)	
Rated torque		: 81.2 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 200 % : 229 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 970 rpm	Design	ui o 1100	: B	
Heating constan						
Cooling constant	τ	Changes Summers		Performed	Checked	Doto
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#### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

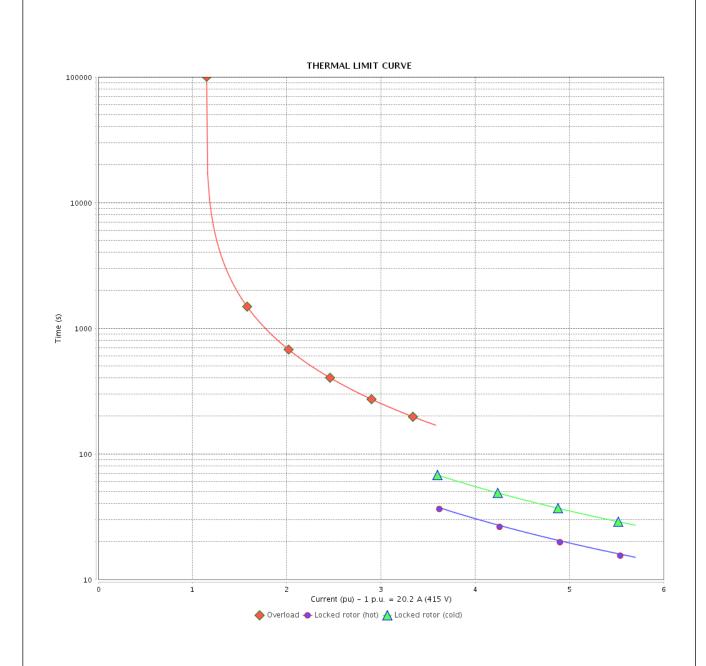


Customer	:				<del>-</del>	
Product line	1:	NEMA Premium Efficiency	Three-	Product code :	12598765	
		hase		Catalog # :	01512ET3E28	84 IM_\M/22
				Catalog # .	01312E13E26	04JIVI-VVZZ
Performance	: 41	15 V 50 Hz 6P IE2				
Rated current		0.2 A	Moment o	f inertia (J)	: 7.85 sq.ft.lb	
LRC Rated torque	: 5. : 80	. / 0.8 ft.lb	Duty cycle Insulation	: class	: Cont.(S1) : F	
Locked rotor torqu	ue : 22	20 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed		50 % 75 rpm	Temperatu Design	ire rise	: 80 K : B	
		r				
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

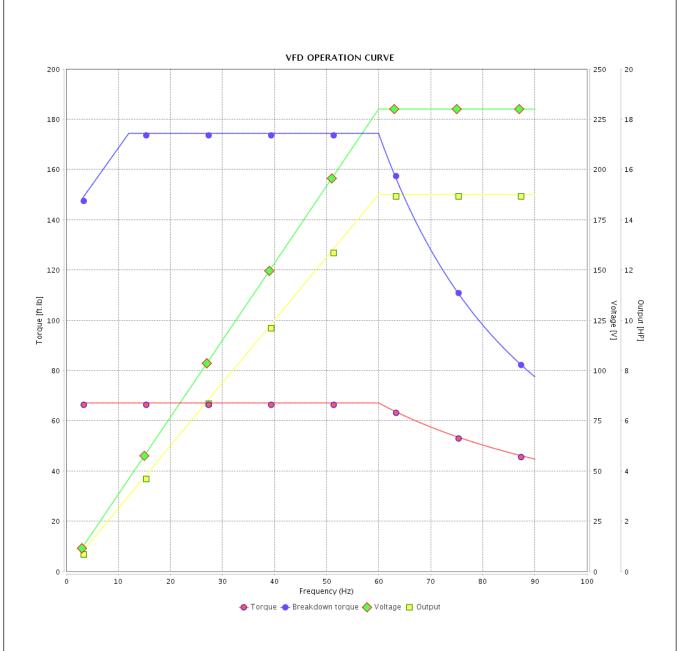
Product code: 12598765

Catalog #: 01512ET3E284JM-W22

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Performance : 230/460 V 60 Hz 6P : 35.8/17.9 A Rated current Moment of inertia (J) : 7.85 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 : 67.0 ft.lb Insulation class : F Rated torque 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

#### Three Phase Induction Motor - Squirrel Cage

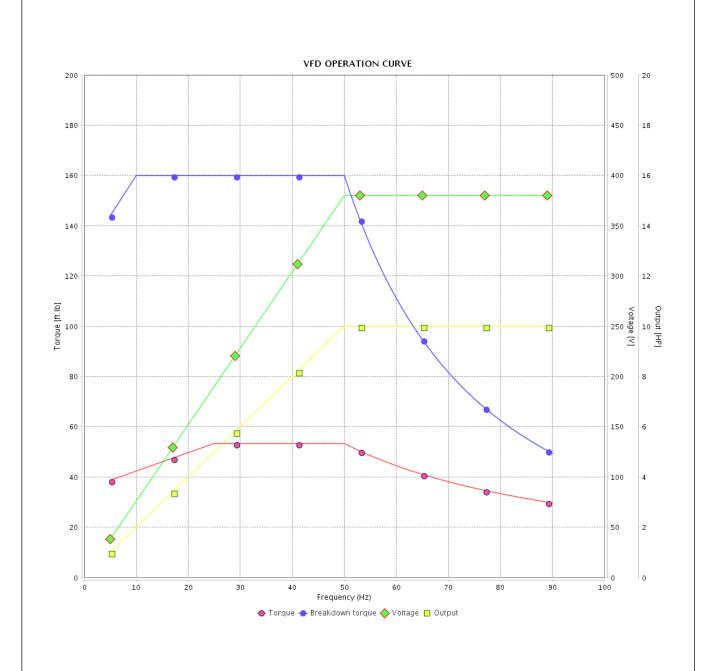


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12598765

Phase

Catalog #: 01512ET3E284JM-W22



Performance	: 38	30 V 50 Hz 6P IE3				
Rated current		5.5 A			: 7.85 sq.ft.lb	
LRC	: 7.	2	Duty cycle	9	: Cont.(S1)	
Rated torque	: 53	3.3 ft.lb	Insulation	Insulation class		
Locked rotor torqu	ue : 27	70 %	Service fa	Service factor		
Breakdown torque		00 %	Temperati	Temperature rise		
Rated speed	: 98	35 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- F

Phase

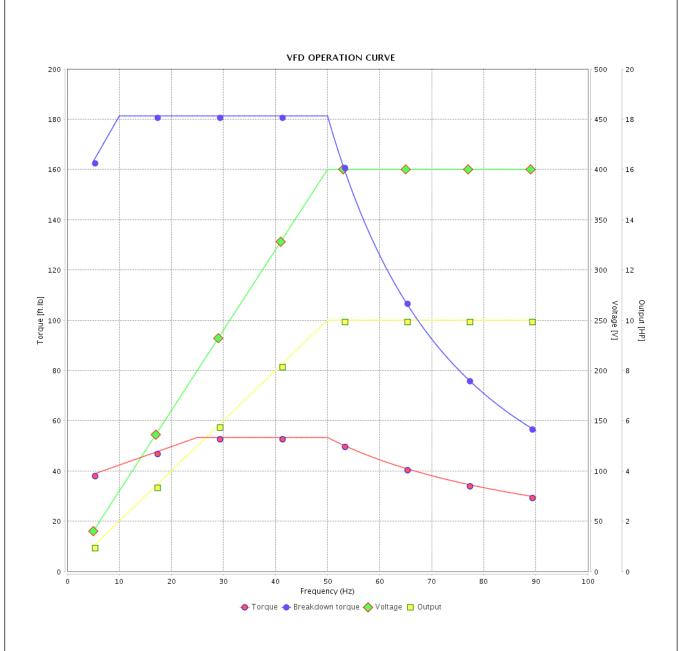
Product code: 12598765

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Performance	:	400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: :: :: :: :: :: ::	15.1 A 7.9 53.3 ft.lb 300 % 340 % 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						

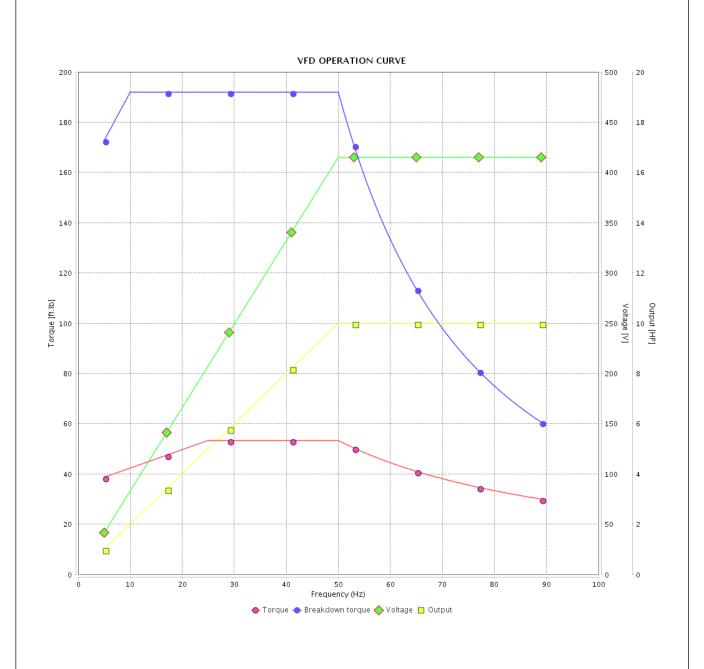
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12598765

Catalog #: 01512ET3E284JM-W22



Performance	: 4	15 V 50 Hz 6P IE3						
Rated current	: 1	4.9 A	Moment of inertia (J)		: 7.85 sq.ft.lb			
LRC	: 8	3.3	Duty cycle	Duty cycle				
Rated torque	: 5	3.3 ft.lb	Insulation	Insulation class Service factor				
Locked rotor tord	que : 3	30 %	Service fa					
Breakdown torqu	ле : 3	60 %	Temperati	ure rise	: 80 K			
Rated speed	: 9	185 rpm	Design		: B			
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Product line : NEMA Premium Efficiency Three-

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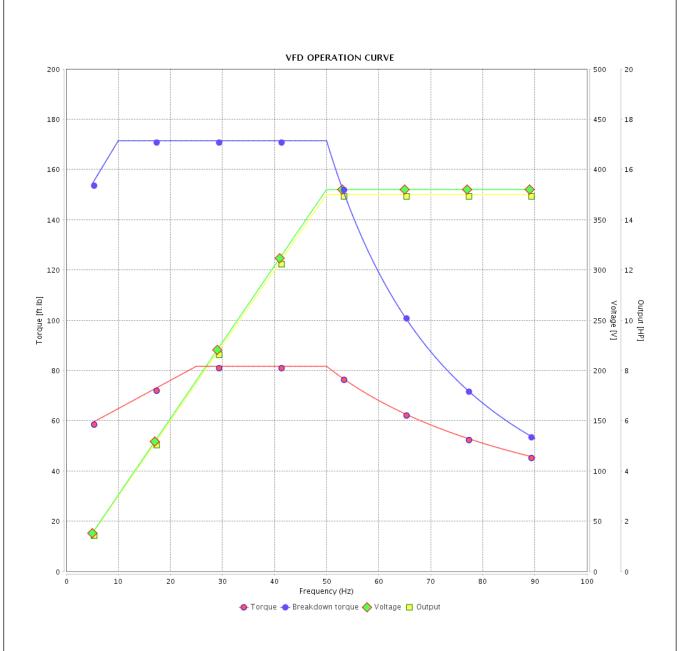
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Performance : 380 V 50 Hz 6P IE1 Rated current : 22.0 A Moment of inertia (J) : 7.85 sq.ft.lb **LRC** : 4.7 Duty cycle : Cont.(S1) Insulation class : 81.6 ft.lb : F Rated torque Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage

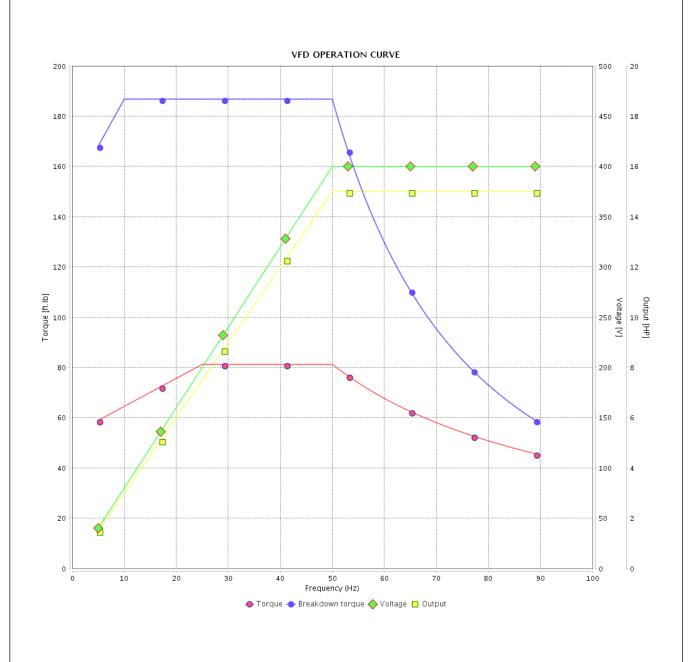


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Product line : NEMA Premium Efficiency Three- Product code : 12598765

Phase

Catalog #: 01512ET3E284JM-W22



					·		
Performance		400 V 50 Hz 6P IE2					
Rated current	:	: 20.9 A Moment of inertia (		f inertia (J)	: 7.85 sq.ft.lb		
LRC	:	5.3	Duty cycle	<b>;</b>	: Cont.(S1)		
Rated torque	:	81.2 ft.lb	Insulation	class	: F		
Locked rotor torque	e :	200 %	Service fa	Service factor		: 1.15	
Breakdown torque	:	229 %	Temperati	Temperature rise : 80 K			
Rated speed	:	970 rpm	Design		: B	: B	
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three-

Phase

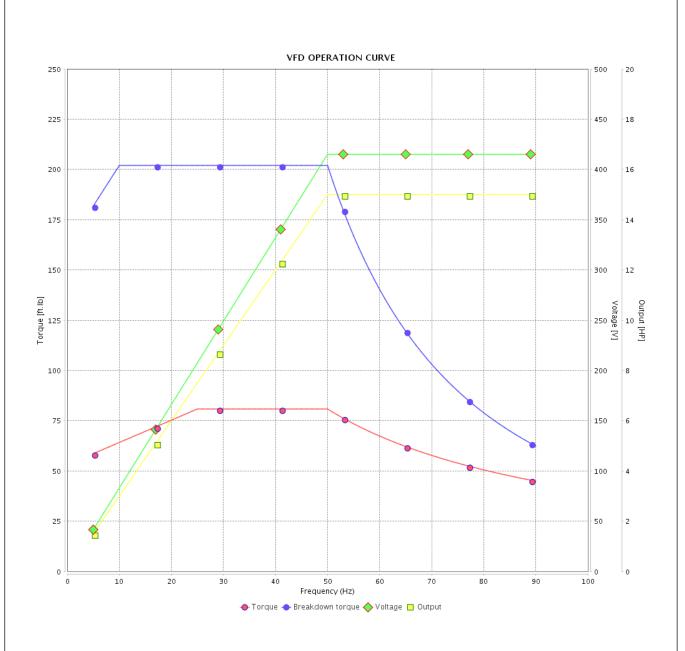
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Performance	: 4	415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	ue ::	20.2 A 5.7 80.8 ft.lb 220 % 250 % 975 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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