DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12599089

67.0

Catalog #: 01512ET3E284JP-W22

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

Insulation class Mounting : F-1

53.3

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

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

: 1000 m.a.s.l. Approx. weight³ : 424 lb Altitude : IP55 Protection degree Moment 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	7.2x(Code J)	7.9x(Code K)	8.3x(Code K)	4.7x(Code E)	5.3x(Code F)	5.7x(Code
	G)						
No load current [A]	14.0/7.00	7.00	7.40	7.70	7.00	7.40	7.70
Rated speed [RPM]	1175	985	985	985	965	970	975
Slip [%]	2.08	1.50	1.50	1.50	3.50	3.00	2.50

53.3

53.3

81.6

81.2

80.8

Locked rotor torqu	e [%]	229	270	300	330	170	200	220
Breakdown torque	Breakdown torque [%]		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						
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 ²	Noise level ²		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
Efficiency (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
	25%	0.44	0.39	0.36	0.34	0.50	0.47	0.45
Power Factor	50%	0.69	0.64	0.61	0.58	0.75	0.72	0.70
	75%	0.80	0.76	0.73	0.71	0.84	0.82	0.81
	100%	0.84	0.82	0.80	0.78	0.86	0.85	0.84

Drive end Non drive end Foundation loads Bearing type 6311 C3 6211 C3 Max. traction : 669 lb Sealing V'Ring V'Ring : 1093 lb Max. compression

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

Notes

Rated torque [ft.lb]

USABLE @208V 39.6A SF 1.15 SFA 45.5A

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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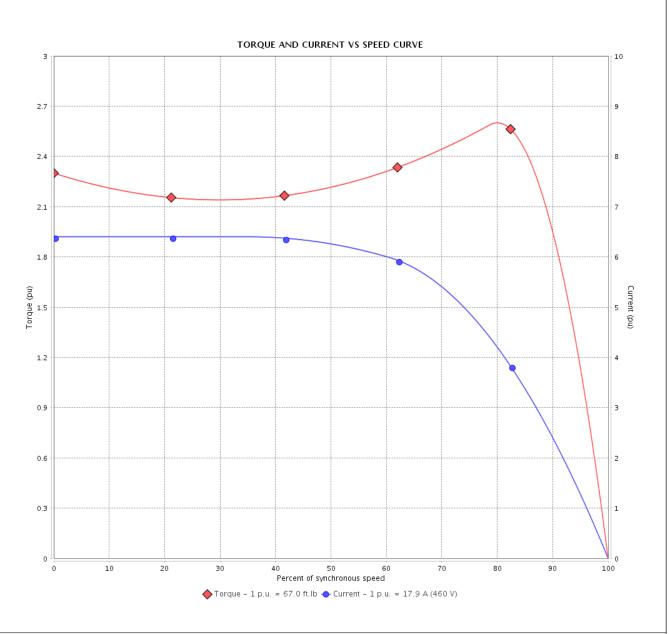


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12599089

Phase

Catalog #: 01512ET3E284JP-W22



Performance	: 230/460 V 60 Hz 6P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.8/17.9 A : 6.4 : 67.0 ft.lb : 229 % : 260 % : 1175 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B
Looked roter time	: 360 (aold) 300 (bot)		

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: 12599089 Catalog #: 01512ET3E284JP-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6

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 Locked rotor torque : 270 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K : B Rated speed : 985 rpm Design

Percent of synchronous speed ♦ Torque – 1 p.u. = 53.3 ft.lb ♦ Current – 1 p.u. = 15.5 A (380 V)

Locked rotor time : 61s (cold) 34s (hot)

0.3

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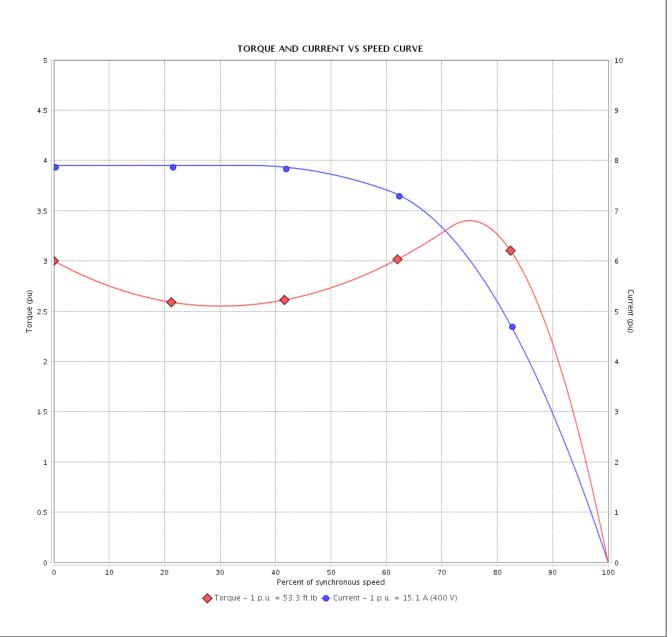


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12599089

Phase

Catalog #: 01512ET3E284JP-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)
Rated torque	: 53.3 ft.lb	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B
Locked roter time	: 54s (cold) 30s (bot)	'	

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: 12599089 Catalog #: 01512ET3E284JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 53.3 ft.lb ◆ Current - 1 p.u. = 14.9 A (415 V)

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	: 53.3 ft.lb	Insulation class	: F	
Locked rotor torque	: 330 %	Service factor	: 1.25	
Breakdown torque	: 360 %	Temperature rise	: 80 K	
Rated speed	: 985 rpm	Design	: B	
Locked rotor time	: 52s (cold) 29s (hot)	1		
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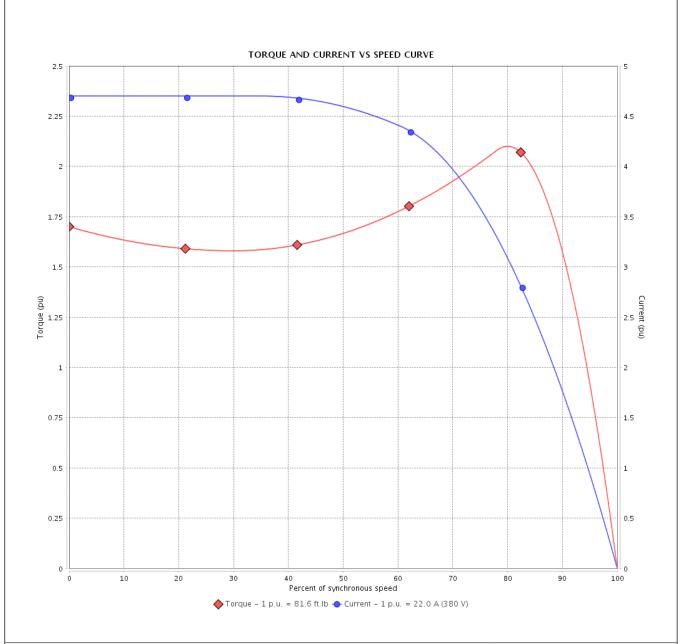


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12599089

Phase

Catalog #: 01512ET3E284JP-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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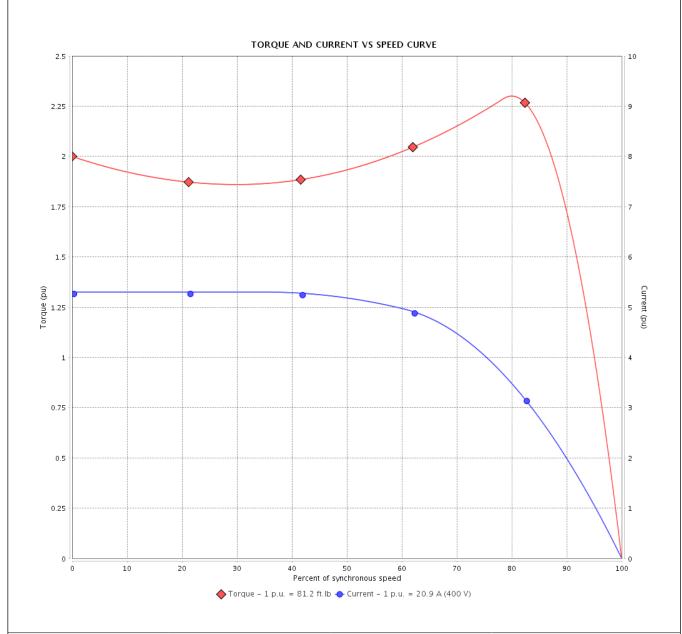
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12599089

Catalog #: 01512ET3E284JP-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
Looked reter time	: 27a (aald) 15a (bat)		

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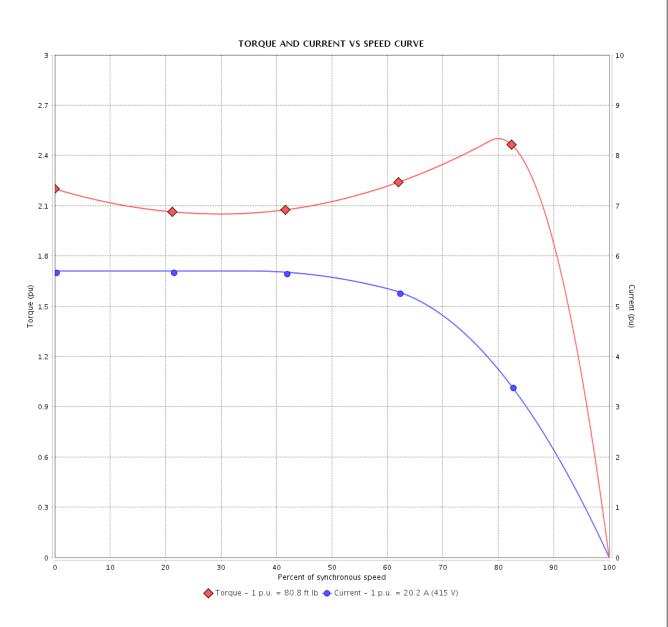


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 01512ET3E284JP-W22

12599089



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) : 80.8 ft.lb Insulation class Rated torque : 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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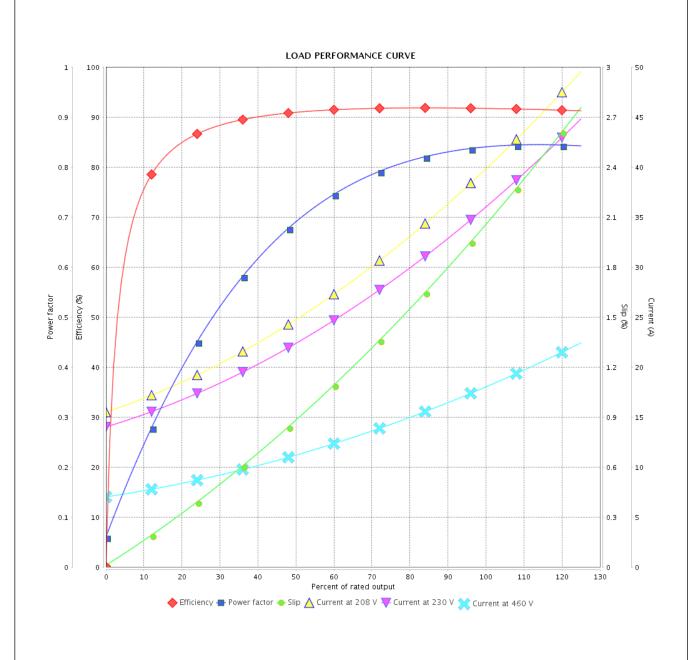
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12599089

Phase

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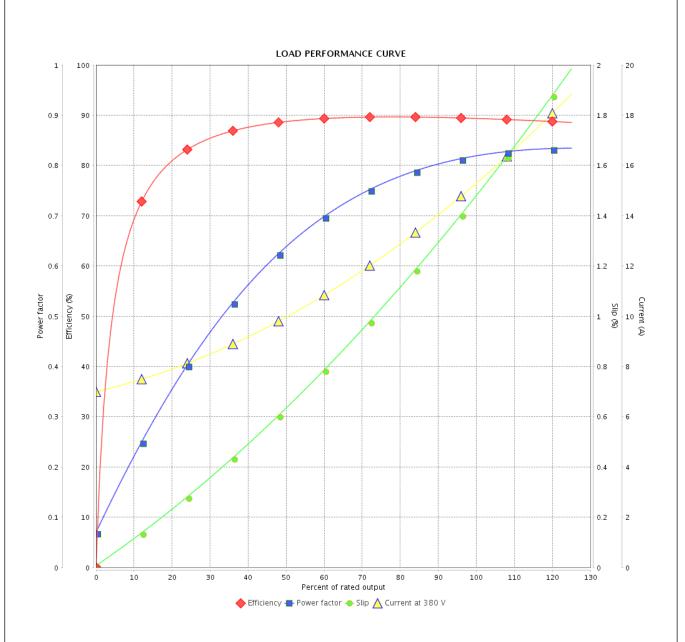
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Phase

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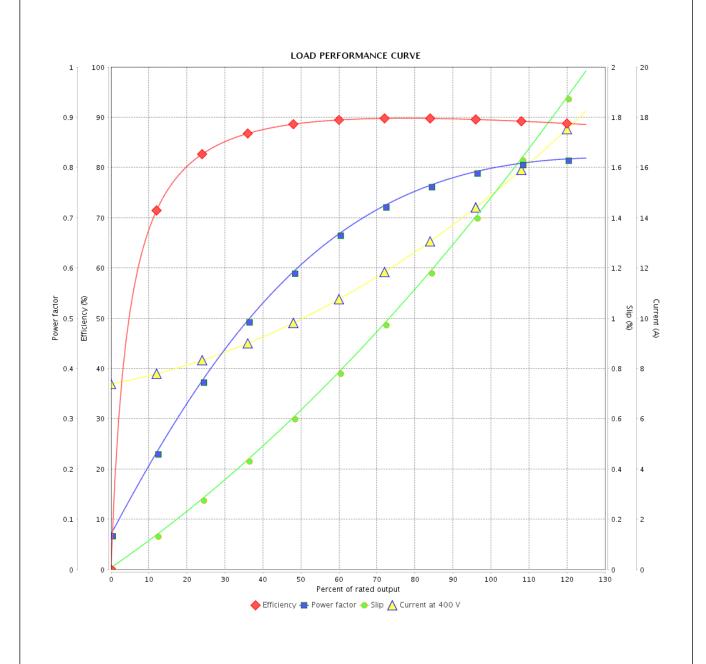


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Product line : NEMA Premium Efficiency Three-Product code:

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12599089



Performance	: 4	00 V 50 Hz 6P IE3				
Rated current	: 1	: 15.1 A Moment of in		of inertia (J)	: 7.85 sq.ft.lb	
LRC	: 7	.9	Duty cycle	•	: Cont.(S1)	
Rated torque	: 5	3.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 3	00 %	Service fa	ictor	: 1.25	
Breakdown torque	e : 3	40 %	7 Temperature rise		: 80 K	
Rated speed	: 9	85 rpm	Design		: B	
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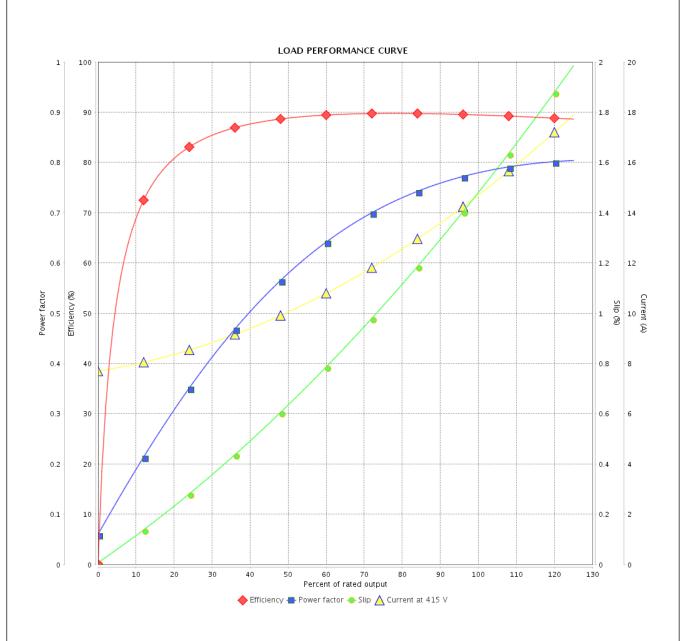
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Phase

Product code: 12599089

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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 inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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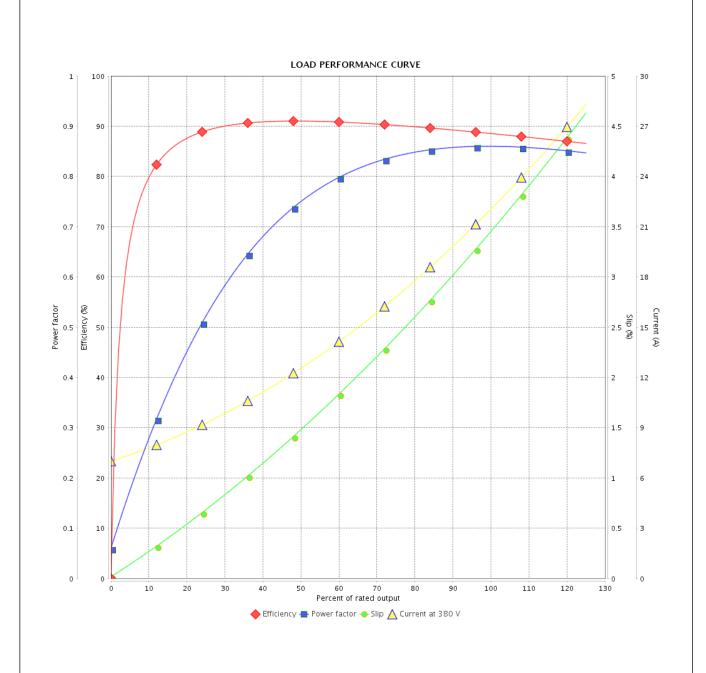
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12599089

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Performance	: 3	: 380 V 50 Hz 6P IE1				
Rated current	: 2	2.0 A	Moment of inertia (J)		: 7.85 sq.ft.lb	
LRC	: 4	.7	Duty cycle)	: Cont.(S1)	
Rated torque	: 8	1.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie :1	70 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	: 210 % Ten		ıre rise	: 80 K	
Rated speed	: 9	65 rpm	Design		: B	
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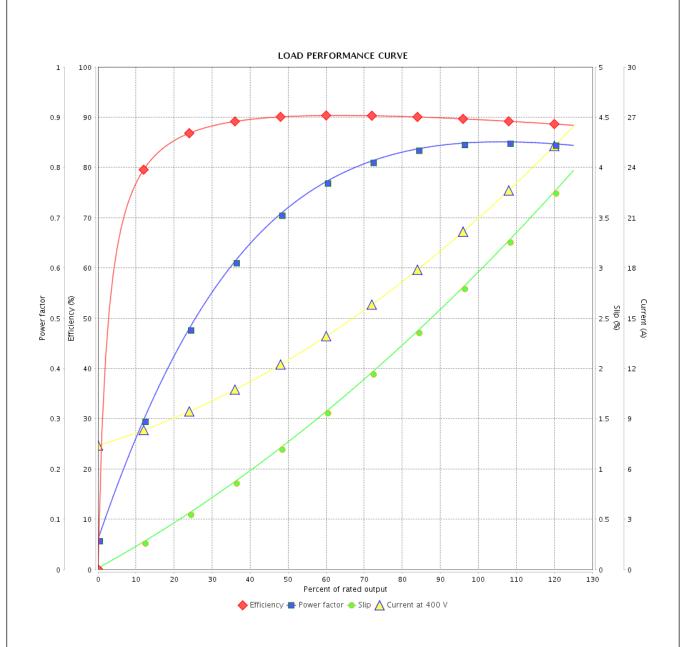
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12599089

Catalog #: 01512ET3E284JP-W22



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

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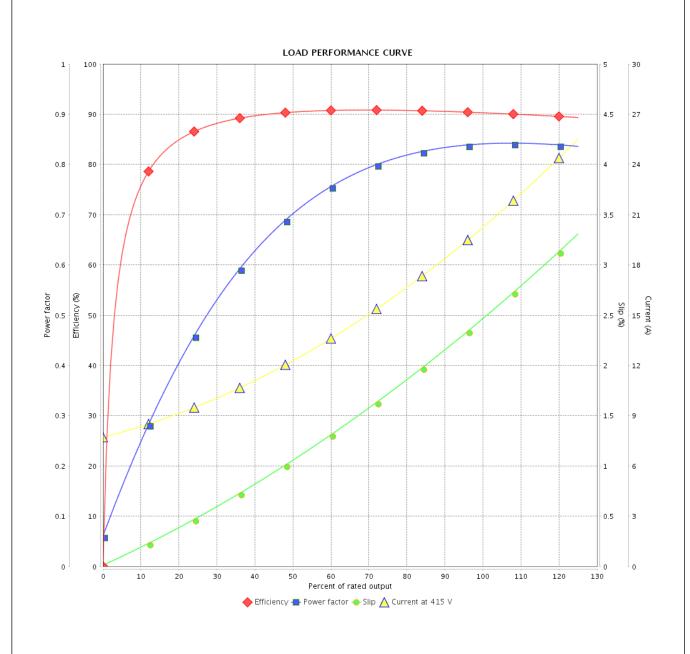
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Phase

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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 o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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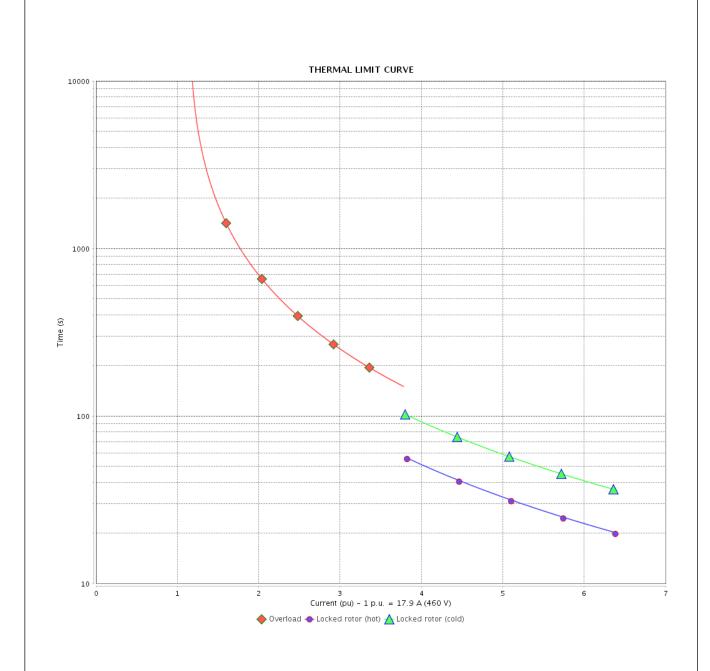


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Product line		NEMA Premium Efficiency	Three-	Product code :	12599089	
	PI	hase		Catalog # :	01512ET3E28	34JP-W22
Performance		30/460 V 60 Hz 6P		<i>c.</i>	7.05	
Rated current LRC	: 35 : 6.	5.8/17.9 A 4	Moment o	f inertia (J)	: 7.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 67	7.0 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		29 % 60 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		175 rpm	Design		: B	
Heating constant						
Cooling constant						
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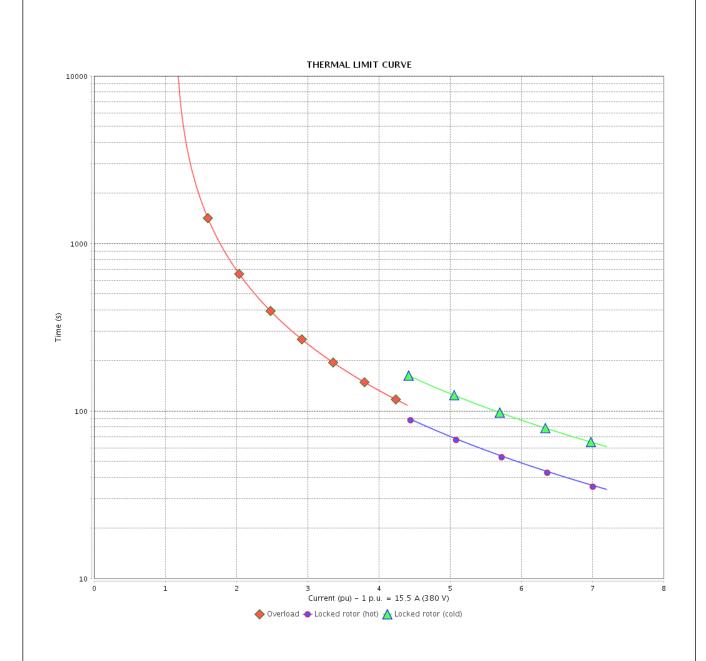


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Product line	: NEMA Premium Efficiency Phase	Three-	Product code :	12599089	
	i ilasc		Catalog # :	01512ET3E28	34JP-W22
Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC	: 15.5 A : 7.2	Moment of Duty cycle	f inertia (J)	: 7.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 53.3 ft.lb	Insulation	class	: F	
Locked rotor torque	: 270 %	Service fa		: 1.25	
Breakdown torque Rated speed	: 300 % : 985 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant			·		
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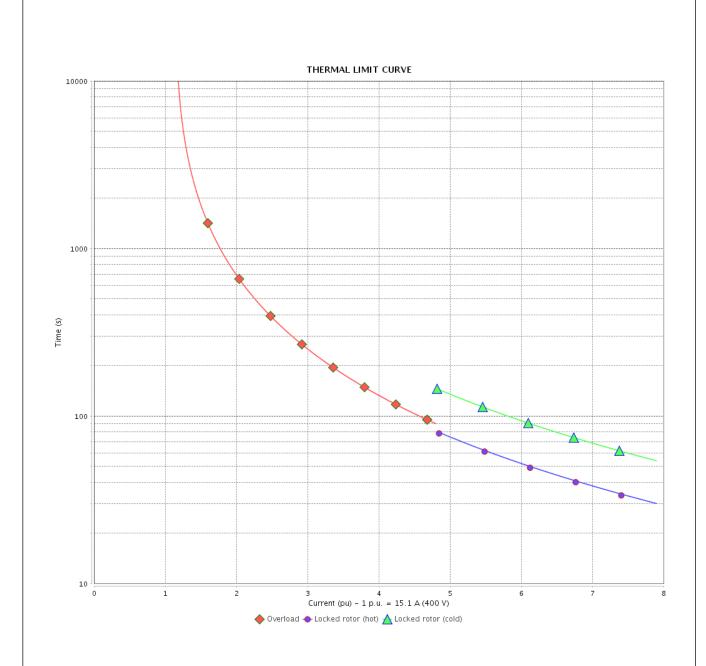


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code :	12599089	
		Catalog #:	01512ET3E28	84JP-W22
Performance	: 400 V 50 Hz 6P IE3			
Rated current LRC	: 15.1 A : 7.9	Moment of inertia (J) Duty cycle	: 7.85 sq.ft.lb : Cont.(S1)	
Rated torque	: 53.3 ft.lb	Insulation class	: F	
Locked rotor torque	: 300 % : 340 %	Service factor	: 1.25 : 80 K	
Breakdown torque Rated speed	: 340 % : 985 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant	Oh. O		Ob. 1	
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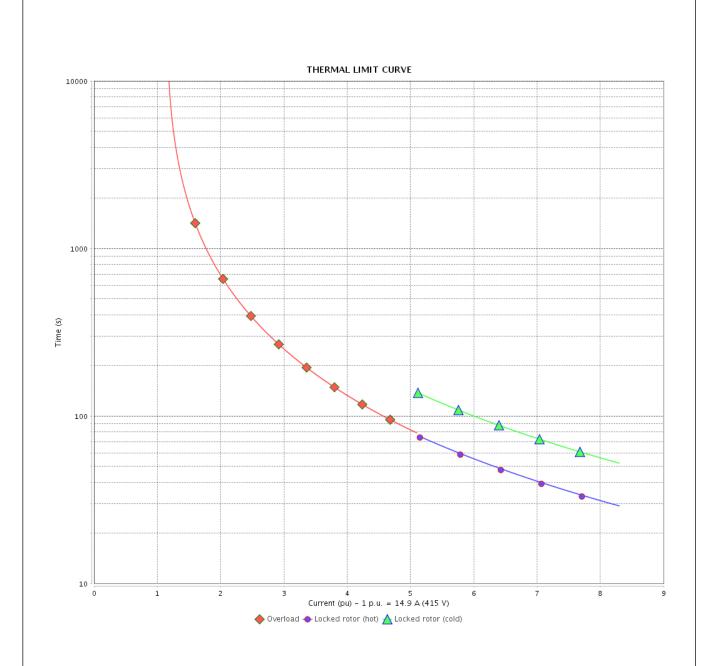


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Product line		: NEMA Premium Efficiency Phase		Product code :	12599089	
				Catalog # :	01512ET3E28	34JP-W22
Performance		: 415 V 50 Hz 6P IE3		. f : f : / D	7.05	
Rated current LRC		: 14.9 A : 8.3	Duty cycle	of inertia (J) e	: 7.85 sq.ft.lb : Cont.(S1)	
Rated torque		: 53.3 ft.lb : 330 %	Insulation Service fa	class	: F	
Locked rotor tord Breakdown torqu		: 360 %	Temperat		: 1.25 : 80 K	
Rated speed		: 985 rpm	Design		: B	
Heating constan						
Cooling constant	t T					
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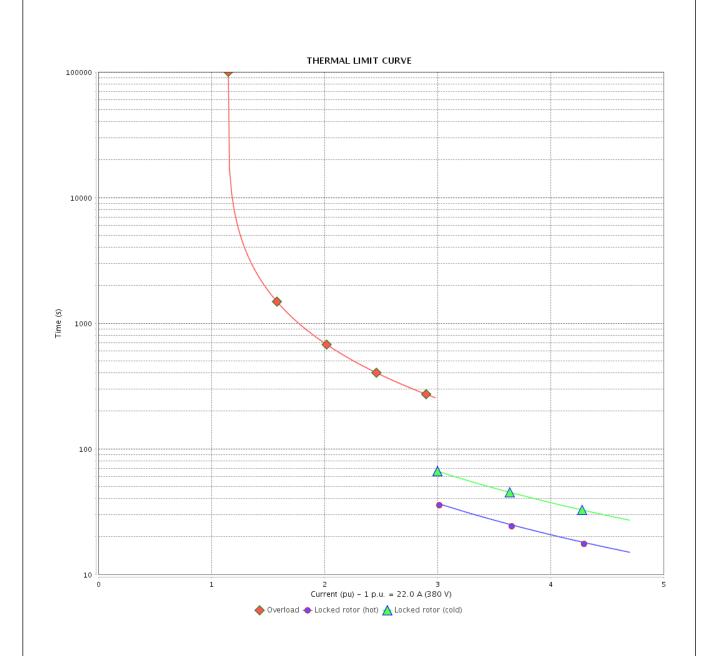


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	12599089 01512ET3E28	84JP-W22
Performance	: 380 V 50 Hz 6P IE1				
Rated current LRC	: 22.0 A : 4.7	Duty cycle		: 7.85 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 81.6 ft.lb : 170 %	Insulation Service fa		: F : 1.00	
Breakdown torque Rated speed	: 210 % : 965 rpm	Temperatu Design		: 80 K : B	
Heating constant Cooling constant					
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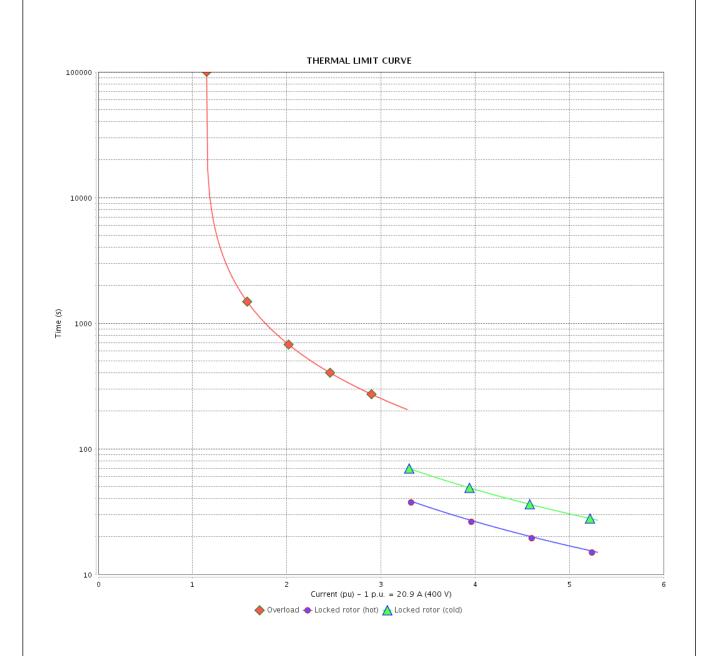


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Product line	: NEMA Premium Efficienc	y Three-	Product code :	12599089	
	i nasc		Catalog # :	01512ET3E28	34JP-W22
Performance	: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 20.9 A : 5.3 : 81.2 ft.lb : 200 % : 229 % : 970 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Heating constant Cooling constant					
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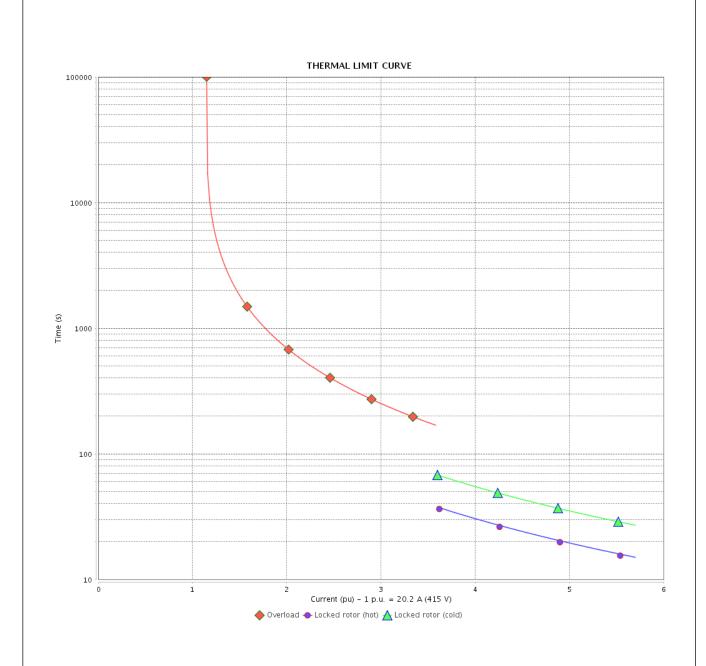


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Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	12599089	
		Tilasc		Catalog # :	01512ET3E28	4JP-W22
Performance	;	: 415 V 50 Hz 6P IE2				
Rated current		: 20.2 A : 5.7		of inertia (J)	: 7.85 sq.ft.lb	
LRC Rated torque		: 5.7 : 80.8 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq	que :	: 220 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed		: 250 % : 975 rpm	Temperate Design	ure rise	: 80 K : B	
		· v · k ····	_ 55.911		· -	
Heating constant Cooling constant						
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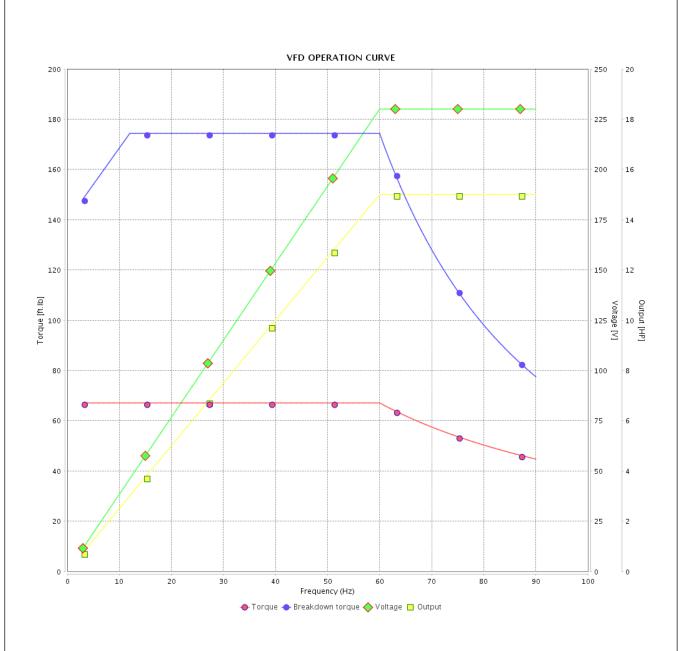
Product line : NEMA Premium Efficiency Three-

Phase

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			· · · · · · · · · · · · · · · · · · ·			
Performance	: 23	30/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 67 que : 22 ue : 26	.8/17.9 A Moment of inertia (J) LO ft.lb Insulation class 9 % Service factor 0 % Temperature rise Design		e class actor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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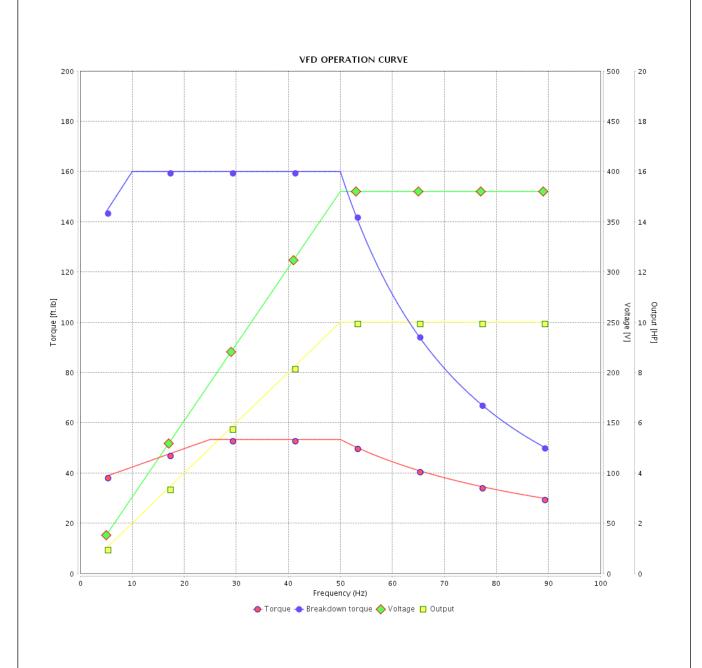
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Product line : NEMA Premium Efficiency Three-Product code: 12599089

Catalog #: 01512ET3E284JP-W22



Performance	: 3	380 V 50 Hz 6P IE3					
Rated current		.5 A Moment of inertia (J)		: 7.85 sq.ft.lb			
LRC Rated torque		7.2 Duty cycle 53.3 ft.lb Insulation cla			: Cont.(S1)		
				class	: F		
Locked rotor torque		70 %	Service factor		: 1.25		
Breakdown torque	e : 3	: 300 % Temperature rise : 985 rpm Design		Temperature rise			
Rated speed	: 9				: B		
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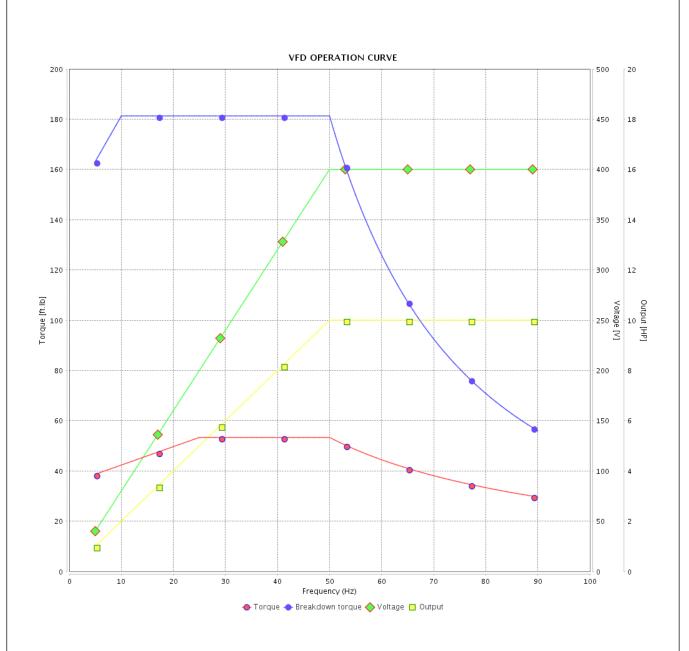
Product line : NEMA Premium Efficiency Three-

Phase

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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	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design				
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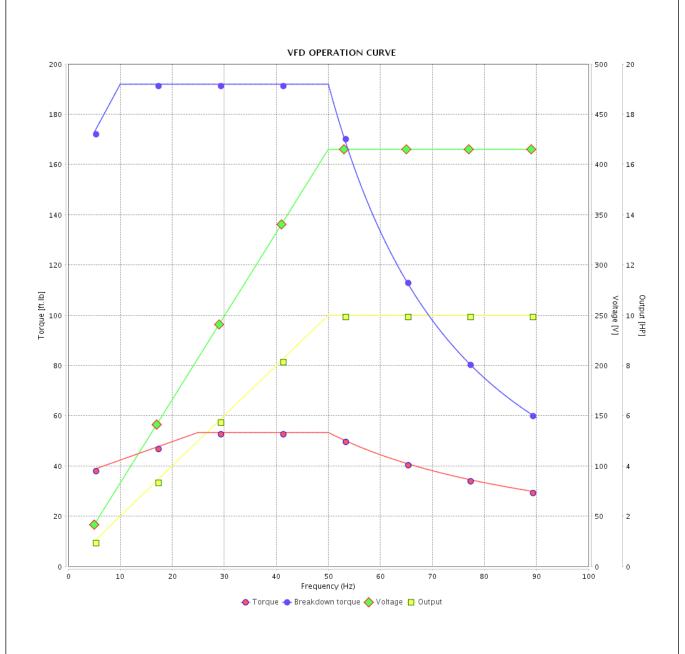
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Product line : NEMA Premium Efficiency Three- Product code : 12599089

Phase

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Performance		: 415 V 50 Hz 6P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8. : 53 ue : 33	I.9 A 3 3.3 ft.lb 30 % 60 % 85 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design				
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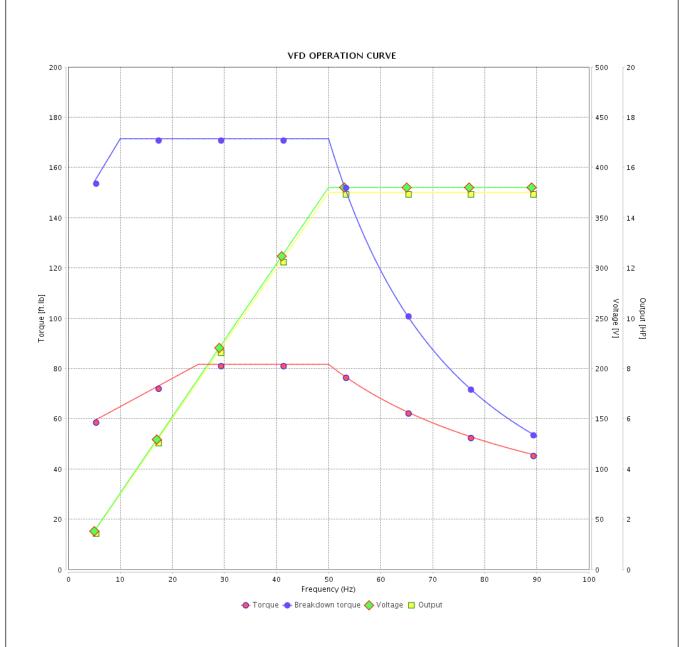
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12599089

Catalog #: 01512ET3E284JP-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 : 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**

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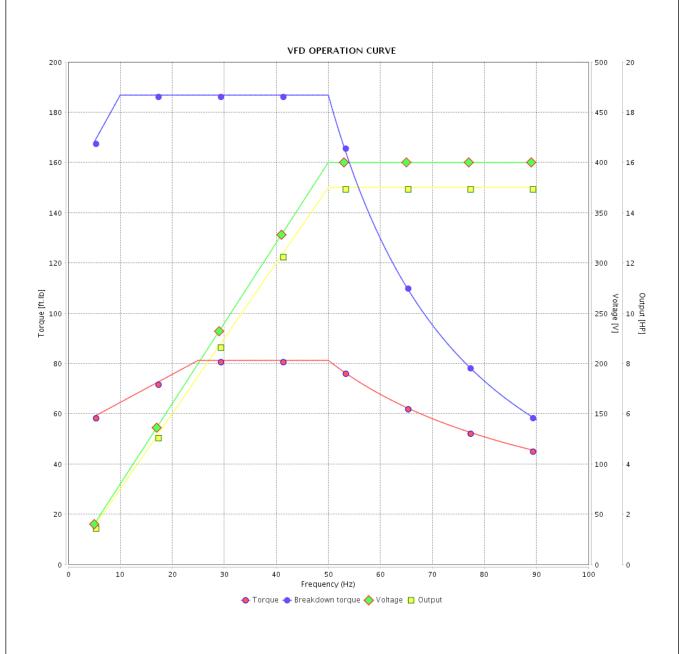
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 01512ET3E284JP-W22

12599089



			,					
Performance		: 400 V 50 Hz 6P IE2						
Rated current : 2		20.9 A	Moment of inertia (J)		: 7.85 sq.ft.lb			
LRC		5.3	Duty cycle		: Cont.(S1)			
Rated torque :		31.2 ft.lb	Insulation class		: F			
Locked rotor torque		200 %	Service factor		: 1.15			
Breakdown torque	: 2	229 %	Temperature rise		: 80 K			
Rated speed	: 9	: 970 rpm		Design				
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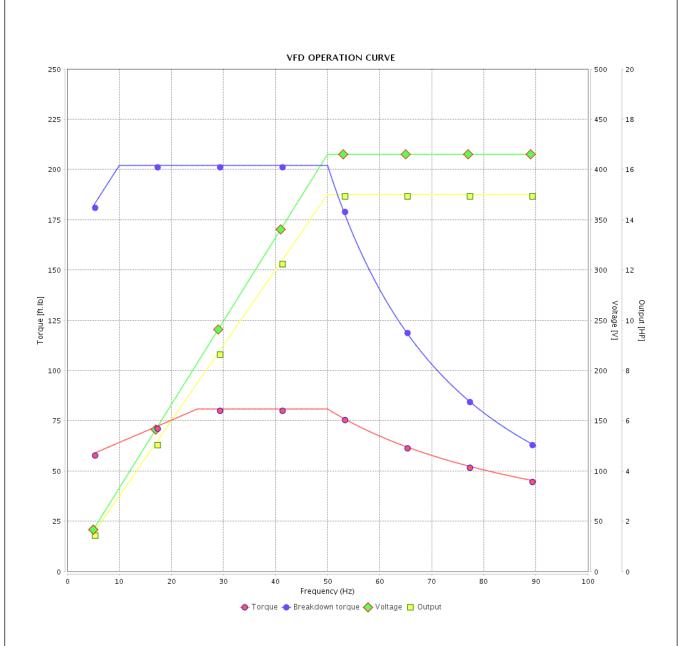
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Performance	: 4	115 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 8 : 1 : 2 : 2	20.2 A 5.7 80.8 ft.lb 220 % 250 % 975 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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