### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 14318122

Catalog #: 00212ET3E184JP-W22

Frame : 182/4JP Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l.

Approx. weight<sup>3</sup> Altitude : 102 lb

Protection degre	е	: IP55	Moment of ine	Moment of inertia (J) : 0.6210 sq.ft.lb				
Design		: B						
Output [HP]		2	2	2	2			
Poles		6	6	6	6			
Frequency [Hz]		60	50	50	50			
Rated voltage [V]		230/460	380	400	415			
Rated current [A]		6.44/3.22	3.66	3.61	3.58			
L. R. Amperes [A]		48.3/24.2	22.0	24.2	25.4			
LRC [A]		7.5x(Code L)	6.0x(Code J)	6.7x(Code K)	7.1x(Code L)			
No load current [A	]	3.80/1.90	1.90	2.05	2.15			
Rated speed [RPN	<b>/</b> []	1170	960 965 965		965			
Slip [%]		2.50 4.00 3.50 3		3.50				
Rated torque [ft.lb]		8.98	10.9	10.9 10.9				
Locked rotor torqu	Locked rotor torque [%]		229	280	310			
Breakdown torque	Breakdown torque [%]		260	310	340			
Service factor		1.25	1.00	1.00	1.00			
Temperature rise		80 K	80 K	80 K	80 K			
Locked rotor time		55s (cold) 31s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)			
Noise level <sup>2</sup>		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)			
	25%	85.4	84.8	84.8	84.2			
Efficiency (%)	50%	86.5	85.5	85.5	85.0			
Efficiency (70)	75%	87.5	86.0	86.5	86.5			
	100%	88.5	86.5	87.0	87.0			
	25%	0.26	0.31	0.28	0.26			
Power Factor	50%	0.46	0.53	0.49	0.46			
I OWEI FACIOI	75%	0.58	0.65	0.62	0.59			
	100%	0.66	0.72	0.69	0.67			

Non drive end Foundation loads Drive end

Bearing type 6307 ZZ 6206 ZZ Max. traction : 185 lb Sealing V'Ring V'Ring Max. compression : 287 lb

Lubrication interval Lubricant amount

Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 7.13A SF 1.15 SFA 8.20A

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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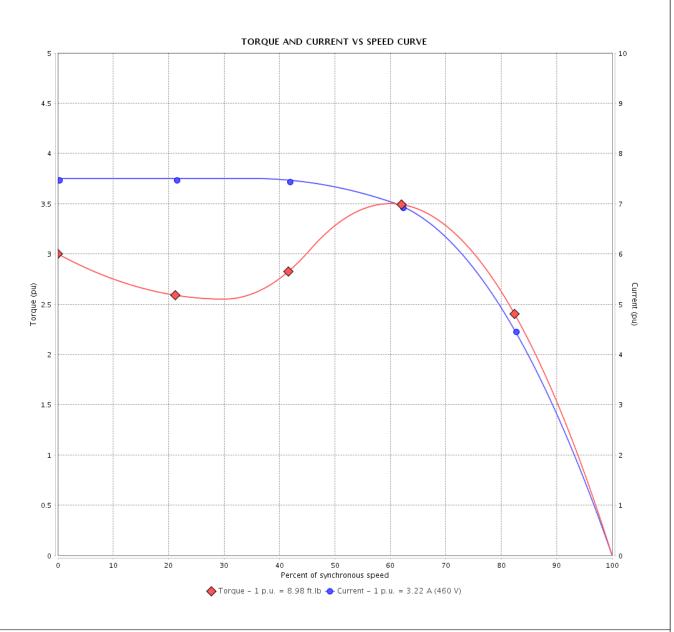
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 14318122

Catalog #: 00212ET3E184JP-W22



Performance : 230/460 V 60 Hz 6P Rated current : 6.44/3.22 A Moment of inertia (J) : 0.6210 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : 8.98 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 300 % : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B

Locked rotor time : 55s (cold) 31s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14318122 Catalog #: 00212ET3E184JP-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu)

Performance : 380 V 50 Hz 6P IE4 Rated current : 3.66 A Moment of inertia (J) : 0.6210 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 10.9 ft.lb Insulation class : F Rated torque Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 960 rpm Design : B

Percent of synchronous speed ♦ Torque – 1 p.u. = 10.9 ft.lb ♦ Current – 1 p.u. = 3.66 A (380 V)

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

1.2

0.6

0.3

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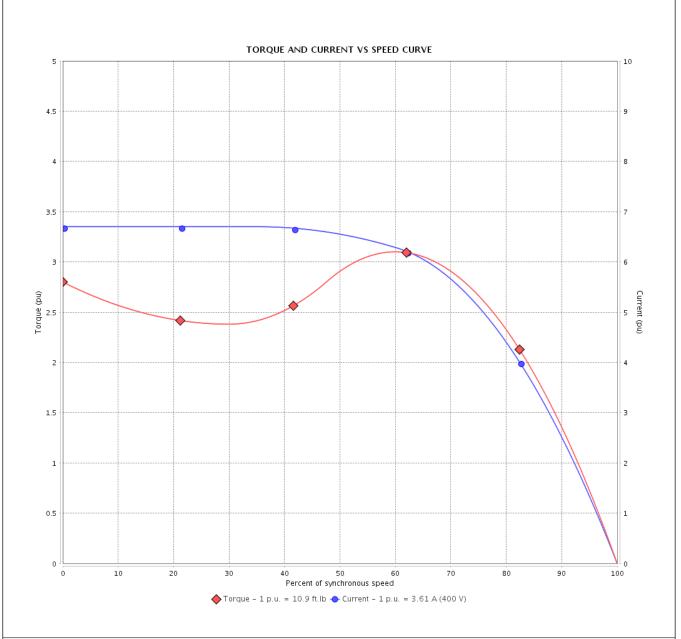
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14318122

Catalog #: 00212ET3E184JP-W22



Performance : 400 V 50 Hz 6P IE4 Rated current : 3.61 A Moment of inertia (J) : 0.6210 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : F : 10.9 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 280 % : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 965 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: 14318122 Catalog #: 00212ET3E184JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 10.9 ft.lb ◆ Current - 1 p.u. = 3.58 A (415 V) Performance : 415 V 50 Hz 6P IE4 Rated current : 3.58 A Moment of inertia (J) : 0.6210 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 10.9 ft.lb Locked rotor torque : 310 % Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 965 rpm Design : B Locked rotor time : 36s (cold) 20s (hot) Rev. Performed Checked Date **Changes Summary** Performed by

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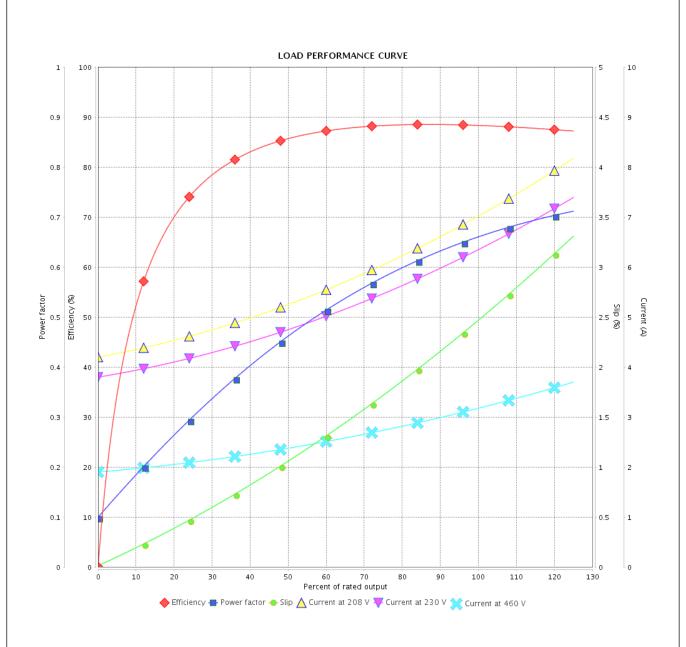
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Phase

Product code: 14318122

Catalog #: 00212ET3E184JP-W22



Performance : 230/460 V 60 Hz 6P Rated current : 6.44/3.22 A Moment of inertia (J) : 0.6210 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.5 : 8.98 ft.lb Insulation class Rated torque : F Locked rotor torque : 300 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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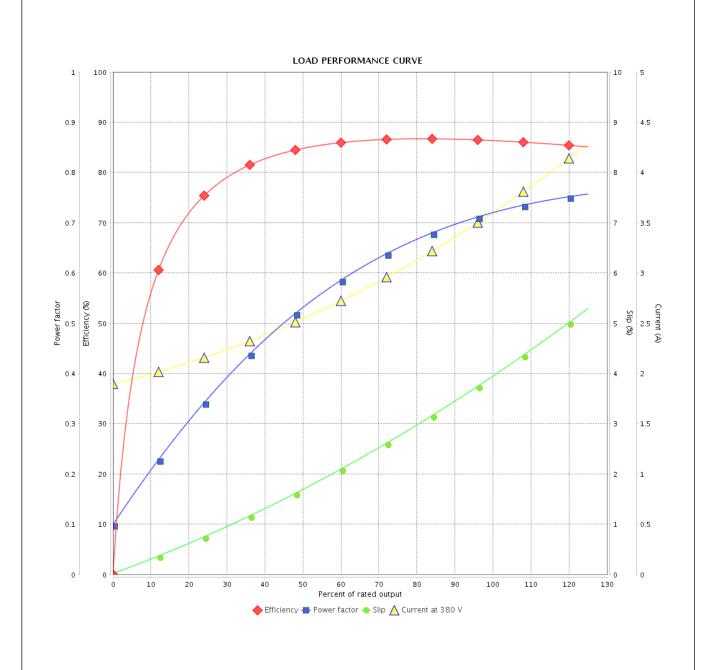
Customer

Product line : NEMA Premium Efficiency Three- Product code : 14318122

Phase

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Performance	: 380 V 50 Hz 6P IE4				
Rated current	: 3.66 A	Moment of	f inertia (J)	: 0.6210 sq.ft.lb	
LRC	: 6.0	Duty cycle	)	: Cont.(S1)	
Rated torque	: 10.9 ft.lb	Insulation class Service factor Temperature rise Design		: F	
Locked rotor torque	: 229 %			: 1.00	
Breakdown torque	: 260 %			: 80 K	
Rated speed	: 960 rpm			: B	
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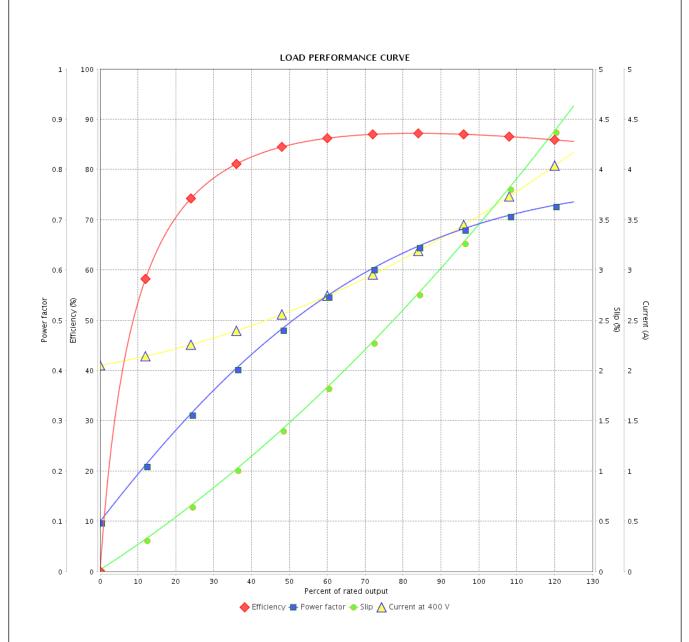
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 400 V 50 Hz 6P IE4				
Rated current	: 3.61 A	Moment o	f inertia (J)	: 0.6210 sq.ft.	lb
LRC	: 6.7	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 10.9 ft.lb	Insulation	class	: F	
Locked rotor torque	: 280 %	Service factor		: 1.00	
Breakdown torque	: 310 %	Temperature rise		: 80 K	
Rated speed	: 965 rpm	Design		: B	
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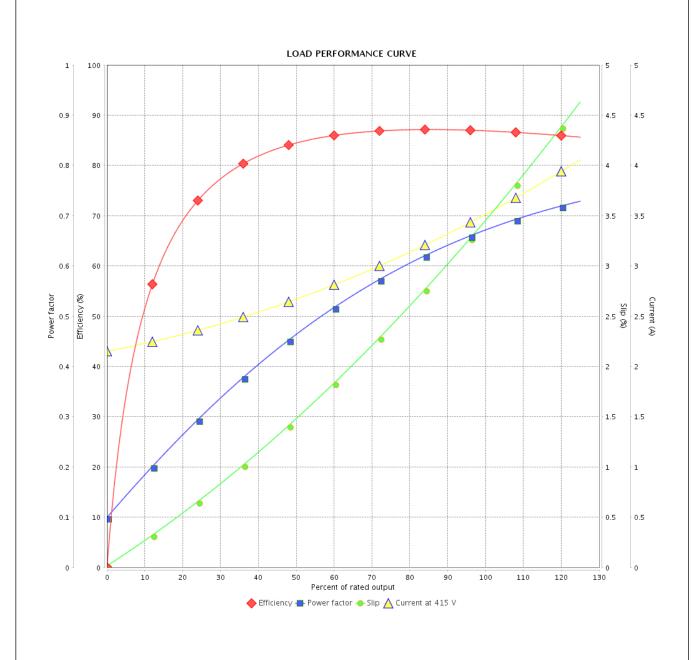


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Product line : NEMA Premium Efficiency Three- Product code : 14318122

Phase

Catalog #: 00212ET3E184JP-W22



Performance	: 4	415 V 50 Hz 6P IE4					
Rated current	: ;	3.58 A	A Moment of inertia (J)		: 0.6210 sq.ft.lb		
LRC	: 7	7.1	Duty cycle	` '	: Cont.(S1)		
Rated torque	: '	10.9 ft.lb	Insulation		: F ` ´		
Locked rotor torqu	e ::	310 %	Service fa	ctor	: 1.00		
Breakdown torque	: : :	340 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 9	965 rpm	Design		: B		
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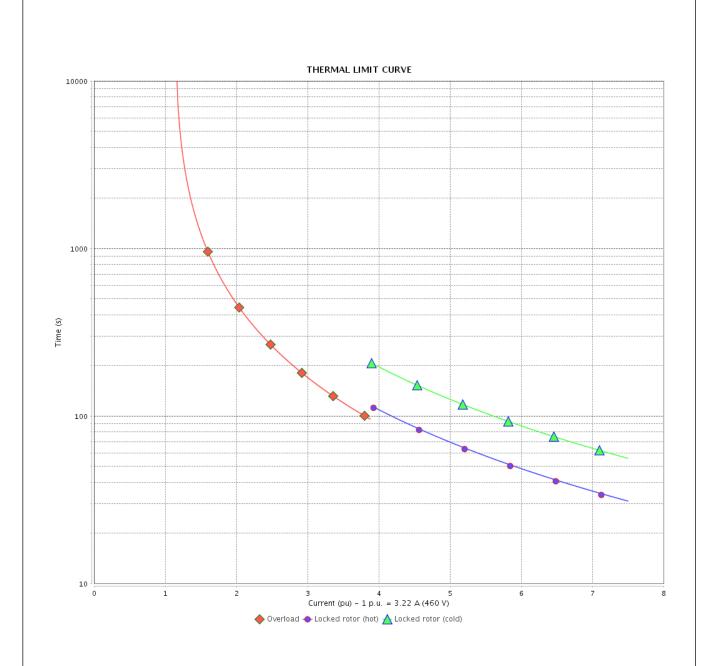


Product line : NEMA Premium Efficiency Three- Product code : 14318122 Phase	
Catalog #: 00212ET3E	184JP-W22
Performance         : 230/460 V 60 Hz 6P           Rated current         : 6.44/3.22 A         Moment of inertia (J)         : 0.6210 sq.ft.	lh
LRC : 7.5 Duty cycle : Cont.(S1)	iD.
Rated torque : 8.98 ft.lb Insulation class : F	
Locked rotor torque : 300 % Service factor : 1.25 Breakdown torque : 350 % Temperature rise : 80 K	
Rated speed : 1170 rpm Design : B	
Heating constant	
Cooling constant	
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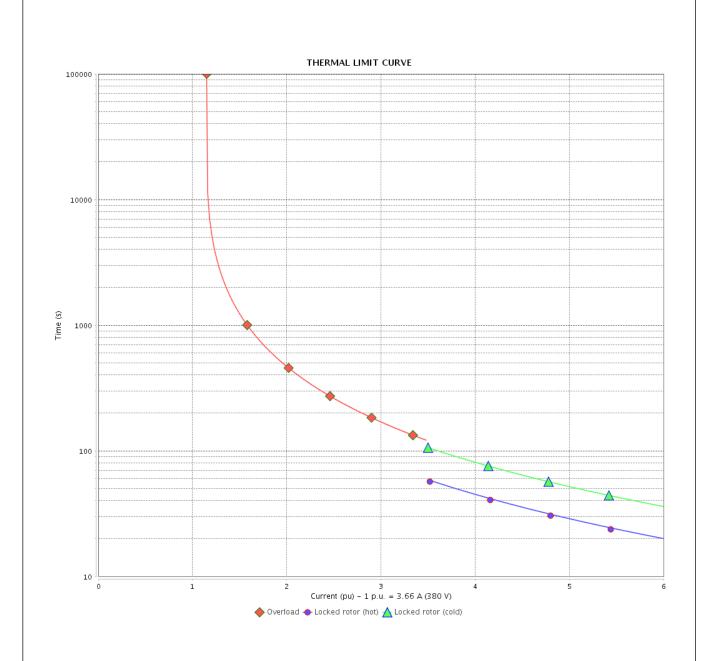


Customer		:			·	
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	14318122 00212ET3E1	84JP-W22
Performance Rated current LRC Rated torque	:	380 V 50 Hz 6P IE4 3.66 A 6.0 10.9 ft.lb	Moment o Duty cycle Insulation	!	: 0.6210 sq.ft.ll : Cont.(S1) : F	0
Locked rotor torque Breakdown torque Rated speed	jue : ie :	229 % 260 % 960 rpm	Service fa Temperatu Design	ctor	: 1.00 : 80 K : B	
Heating constant						
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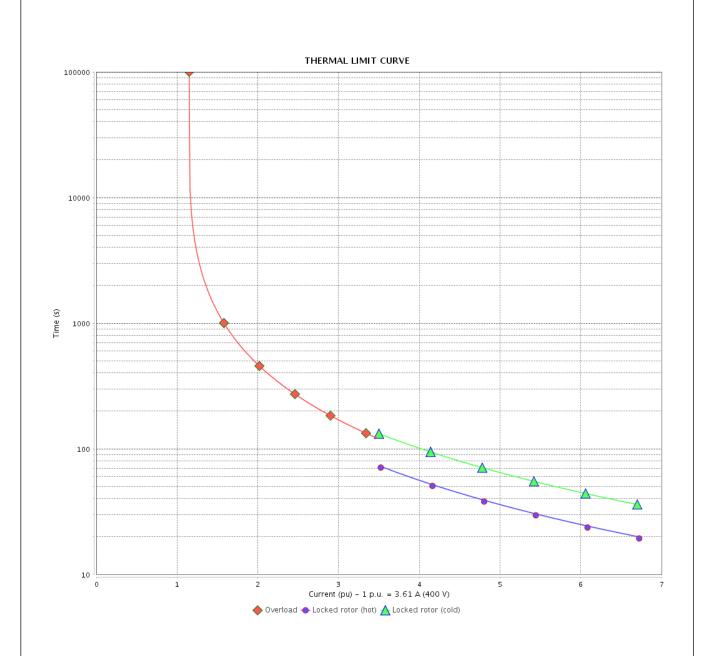


Customer	:					
Product line		: NEMA Premium Efficiency <sup>·</sup> Phase		Product code : Catalog # :	14318122 00212ET3E1	84JP-W22
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed Heating constant	: :   : :   : :   : :   : : :   : :	400 V 50 Hz 6P IE4 3.61 A 5.7 10.9 ft.lb 280 % 310 % 965 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.6210 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	b
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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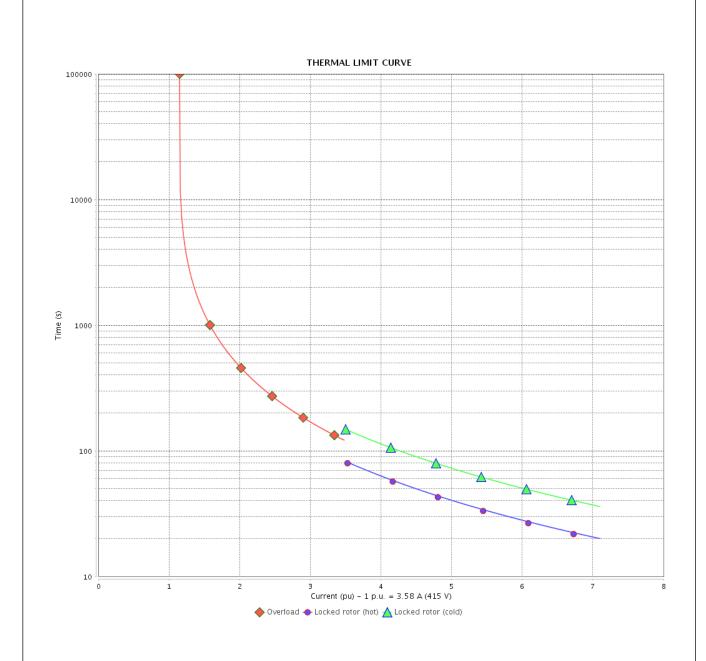


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	14318122 00212ET3E1	84JP-W22
Performance		: 415 V 50 Hz 6P IE4				
Rated current LRC		: 3.58 A : 7.1	Moment of Duty cycle	of inertia (J) e	: 0.6210 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 10.9 ft.lb : 310 %	Insulation Service fa	class	: F : 1.00	
Breakdown torqu	ue :	: 340 %	Temperat		: 80 K	
Rated speed		: 965 rpm	Design		: B	
Heating constant						
Cooling constant	<u>t</u>	Changes Summary		Performed	Checked	Date
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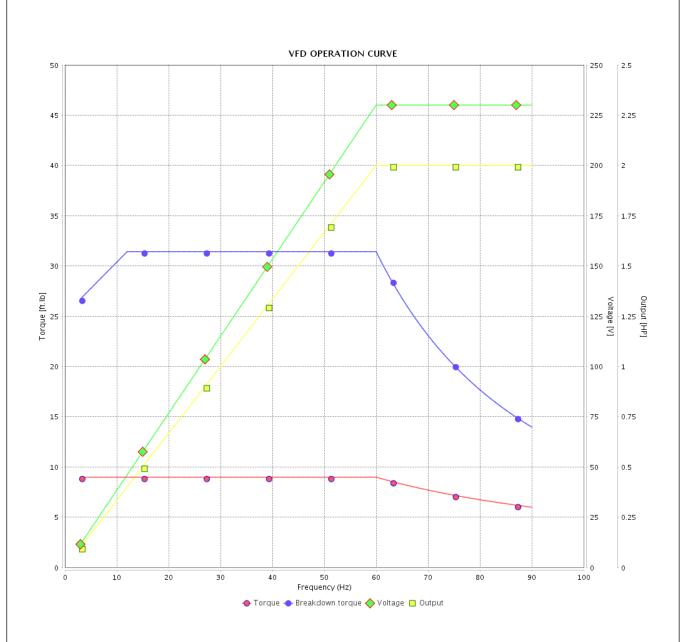
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 14318122

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Performance	: 230/460 V 60 Hz 6P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.44/3.22 A : 7.5 : 8.98 ft.lb : 300 % : 350 % : 1170 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6210 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B			
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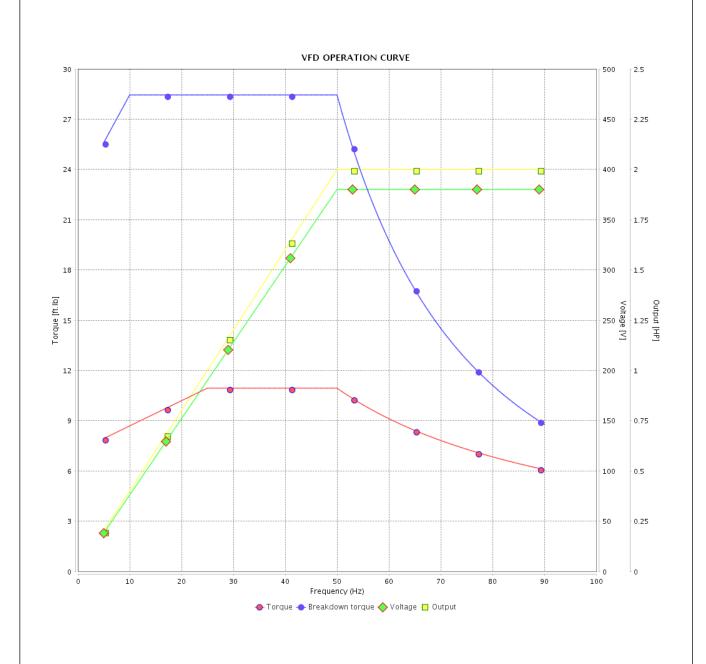
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Product code : 14318122

Catalog #: 00212ET3E184JP-W22

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Performance	: 380 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.66 A : 6.0 : 10.9 ft.lb : 229 % : 260 % : 960 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6210 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Product line : NEMA Premium Efficiency Three-

Phase

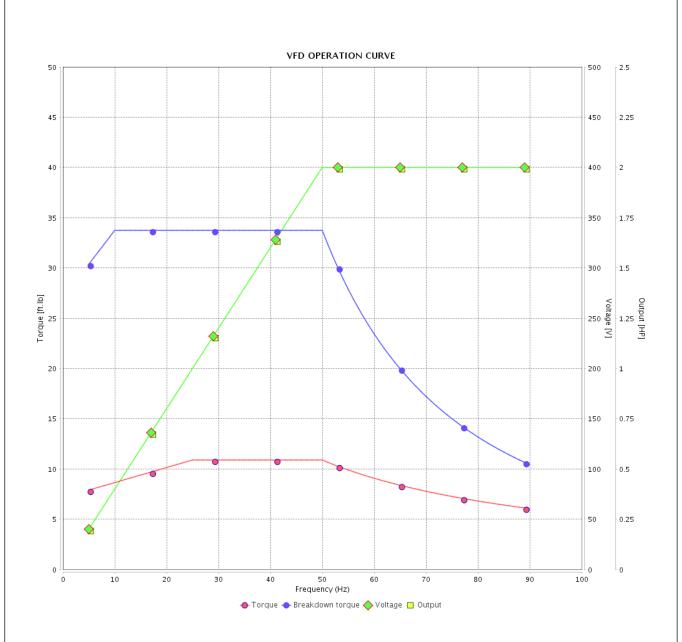
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Performance	: 400 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.61 A : 6.7 : 10.9 ft.lb : 280 % : 310 % : 965 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	n class : F factor : 1.00		0
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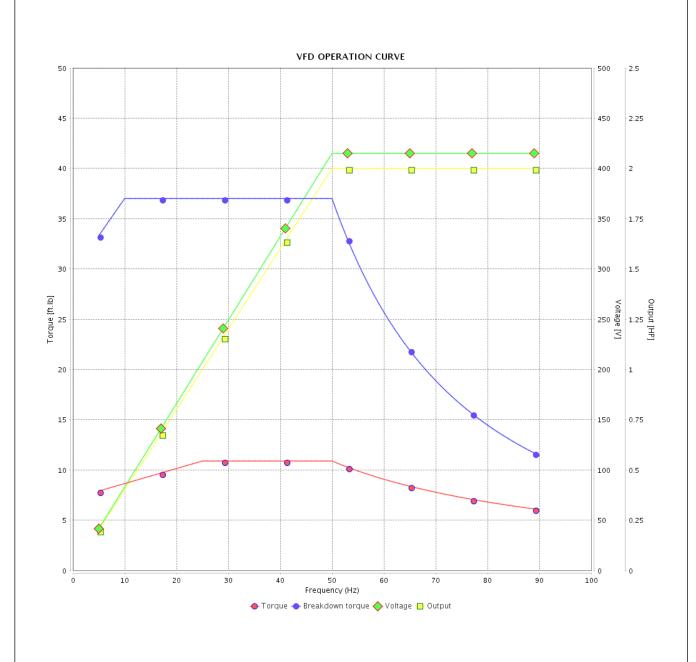
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Performance	: 415 V 50 Hz 6P IE4			
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