DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11570619

Phase

Catalog #: 00212ET3E184JM-W22

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

Insulation class : F Mounting : F-1

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

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 101 lb

Protection degree		: 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	Л]	1170	960	965	965	
Slip [%]		2.50	4.00	3.50	3.50	
Rated torque [ft.lb]		8.98	10.9	10.9		
Locked rotor torque [%]		300	229	280	310	
Breakdown torque [%]		350	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 ²		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	
Drive and Man drive and Foundation leads						

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6307 ZZ 6206 ZZ Max. traction : 186 lb Sealing : V'Ring V'Ring Max. compression : 287 lb

Lubricant amount : - - - Lubricant type : Mobil Polyrex EM

Notes

Lubrication interval

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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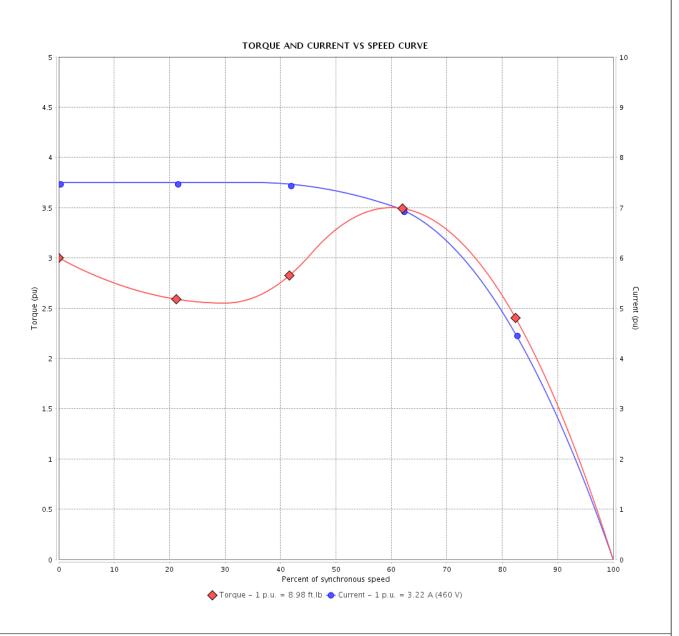


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11570619

Phase

Catalog #: 00212ET3E184JM-W22



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	
Looked retentions	: FFa (aald) 24a (bat)			

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: 11570619 Catalog #: 00212ET3E184JM-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3

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 : 229 % : 1.00 Locked rotor torque Service factor : 80 K Breakdown torque : 260 % Temperature rise : B Rated speed : 960 rpm Design

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)

Lookou rotor time		700 (00ld) 200 (liot)			
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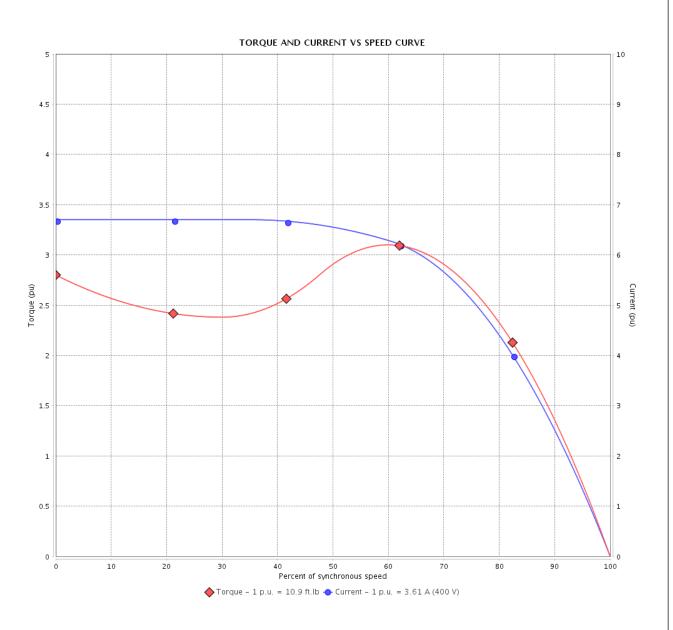


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11570619

Phase

Catalog #: 00212ET3E184JM-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)	
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	
Locked rotor time	: 36s (cold) 20s (hot)	1		

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: 11570619 Catalog #: 00212ET3E184JM-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 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**

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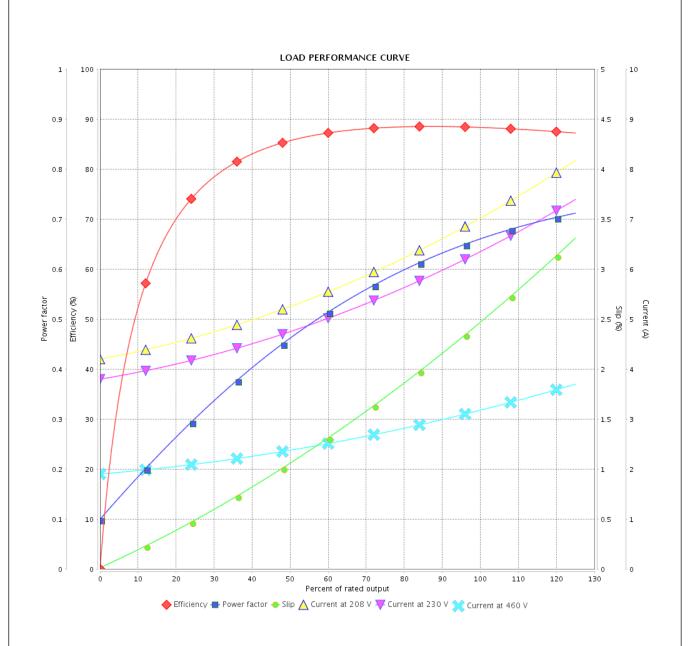
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Phase

Catalog #: 00212ET3E184JM-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

Three Phase Induction Motor - Squirrel Cage



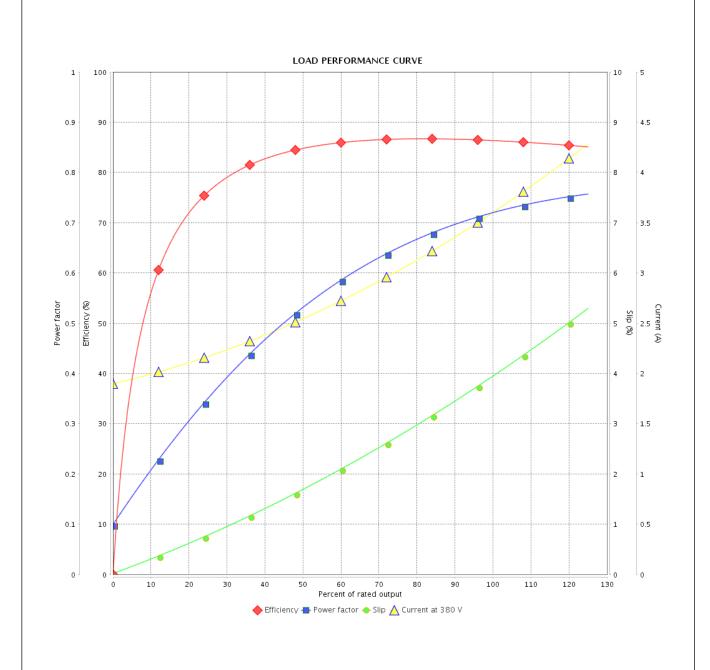
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Phase

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Performance	: 380 V 50 Hz 6P IE4				
Rated current	: 3.66 A	Moment of	t of inertia (J) : 0.6210 sq.ft.lb		.lb
LRC	: 6.0	Duty cycle)	: Cont.(S1)	
Rated torque	: 10.9 ft.lb	Service factor Temperature rise		: 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- F

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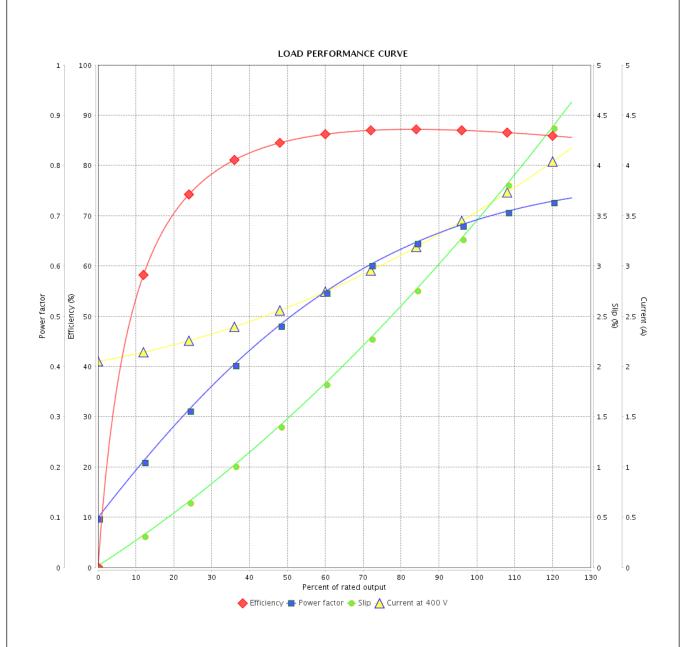
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Performance	: 400 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.61 A : 6.7 : 10.9 ft.lb : 280 % : 310 % : 965 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.6210 sq.ft.I : Cont.(S1) : F : 1.00 : 80 K : B	b
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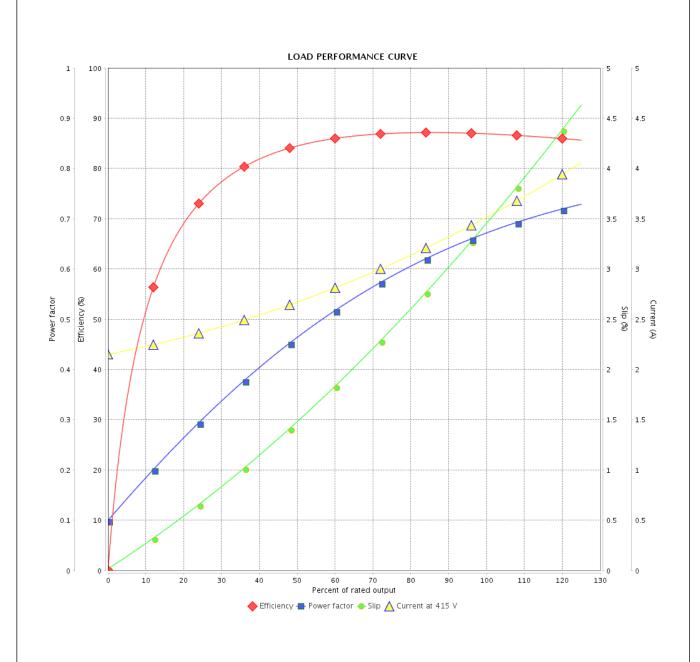
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Performance	: 415 V 50 Hz 6P IE4				
Rated current LRC Rated torque	: 3.58 A : 7.1 : 10.9 ft.lb	Moment of inertia (J) Duty cycle Insulation class		: 0.6210 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 310 % : 340 % : 965 rpm	Service factor Temperature rise Design		: 1.00 : 80 K : B	
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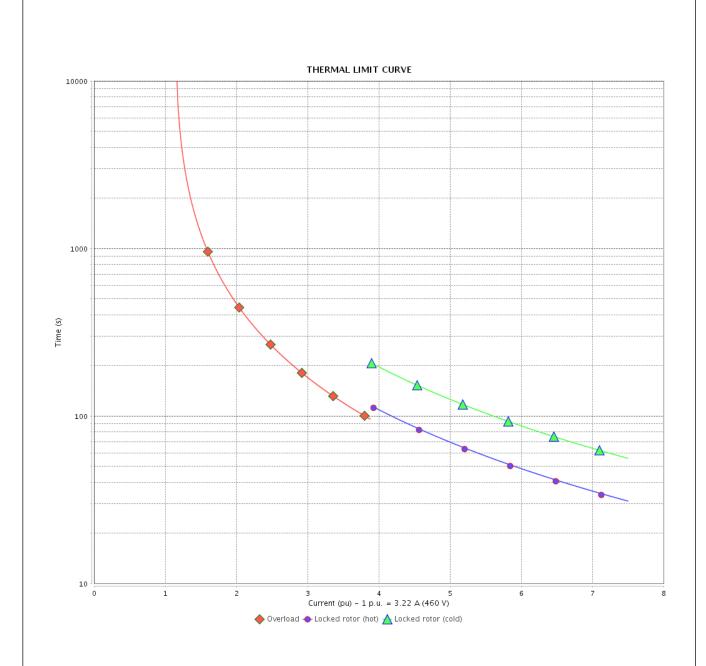


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11570619 00212ET3E1	84JM-W22
Performance		: 230/460 V 60 Hz 6P				
Rated current LRC		: 6.44/3.22 A : 7.5	Moment o	of inertia (J)	: 0.6210 sq.ft.l	b
Rated torque		: 8.98 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		: 300 % : 350 %	Service fa		: 1.25 : 80 K	
Breakdown torqu Rated speed		: 1170 rpm	Temperat Design	uic lisc	: B	
Heating constan						
Cooling constant	t					
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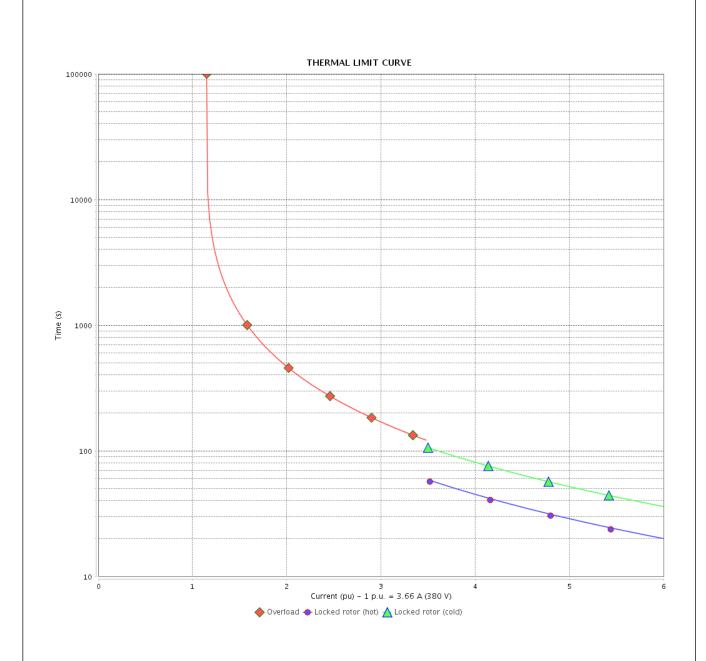


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Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11570619	
		T Hadd		Catalog # :	00212ET3E1	84JM-W22
Performance		: 380 V 50 Hz 6P IE4				
Rated current		: 3.66 A		f inertia (J)	: 0.6210 sq.ft.l	b
LRC Rated torque		: 6.0 : 10.9 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torc		: 10.9 11.10 : 229 %	Service fa		: 1.00	
Breakdown torqu	ue	: 260 %	Temperati	ure rise	: 80 K	
Rated speed		: 960 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	L	Changes Summary		Performed	Checked	Date
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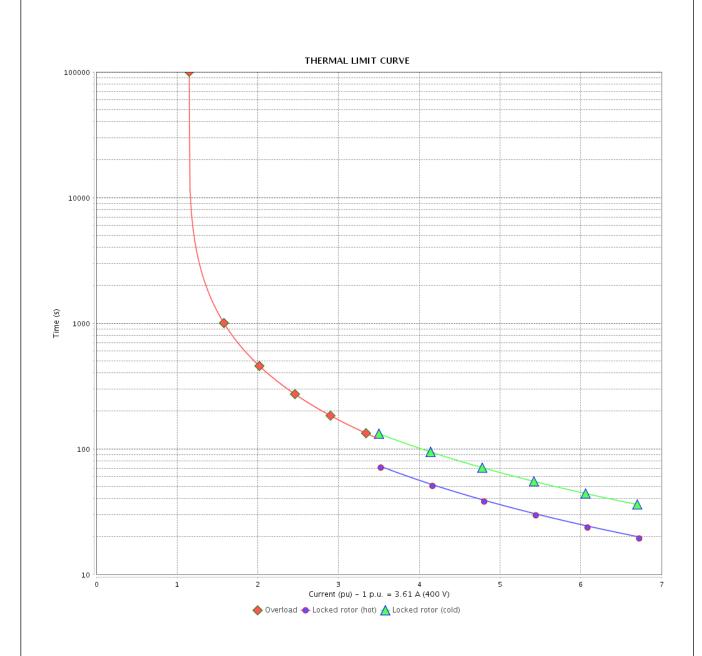


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11570619 00212ET3E1	84JM-W22
Performance		: 400 V 50 Hz 6P IE4				
Rated current LRC Rated torque	:	: 3.61 A : 6.7 : 10.9 ft.lb	Moment of Duty cycle Insulation		: 0.6210 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord	que :	: 280 %	Service fa	ictor	: 1.00	
Breakdown torqu Rated speed		: 310 % : 965 rpm	Temperati Design	ure rise	: 80 K : B	
Heating constant						
Cooling constant	τ	Changes Summary		Performed	Checked	Date
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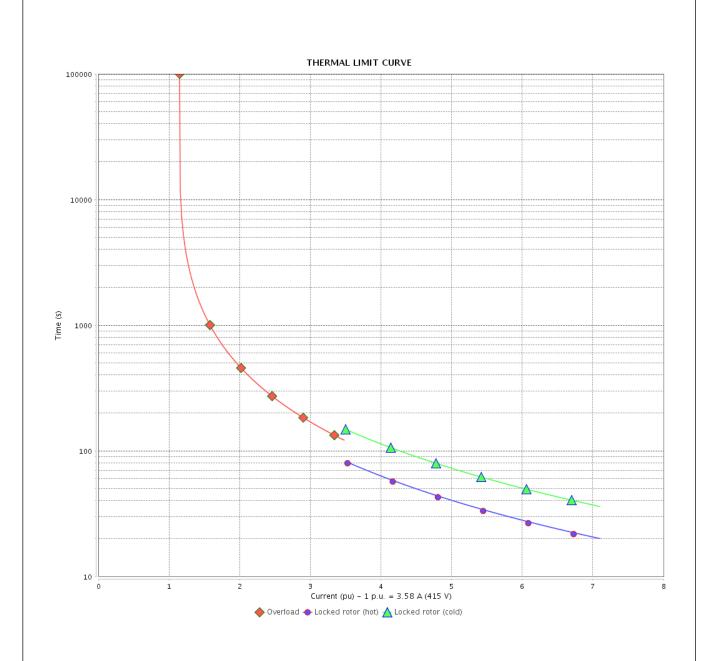


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11570619 00212ET3E1	84JM-W22
Performance		: 415 V 50 Hz 6P IE4				
Rated current LRC	:	: 3.58 A : 7.1	Duty cycle		: 0.6210 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 10.9 ft.lb : 310 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 340 %	Temperati		: 80 K	
Rated speed		: 965 rpm	Design		: B	
Heating constant						
Cooling constant	l	Changes Summary		Performed	Checked	Date
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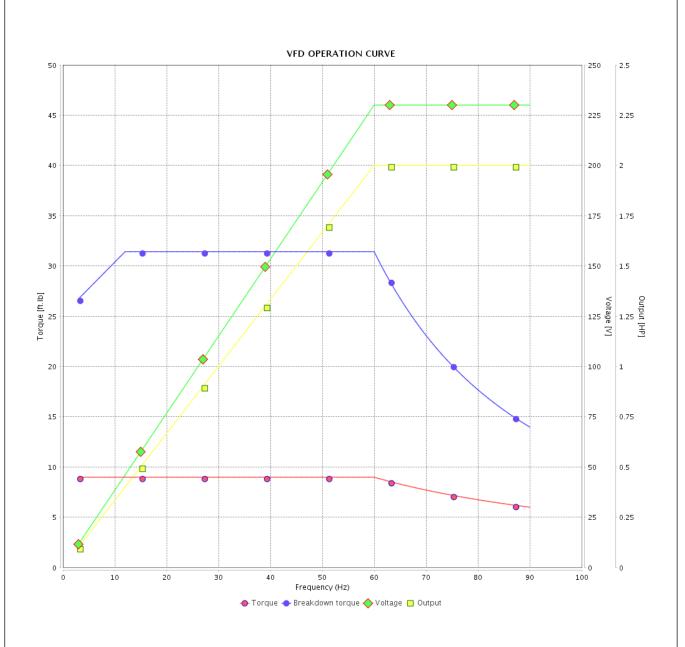
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Performance	: 23	30/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		44/3.22 A 5 98 ft.lb 00 % 50 % 70 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		.lb
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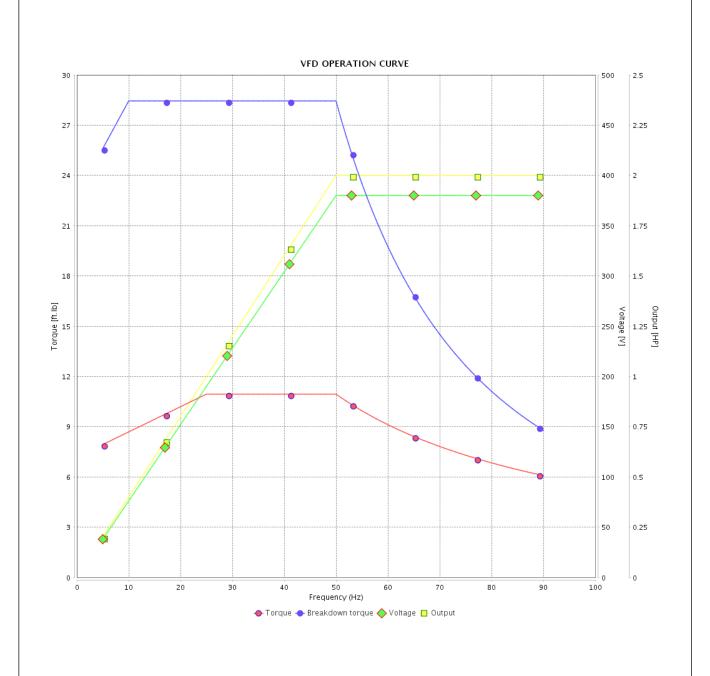


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Product line : NEMA Premium Efficiency Three- Product code : 11570619

Phase

Catalog #: 00212ET3E184JM-W22



Performance	: 3	380 V 50 Hz 6P IE4				
Rated current	: 3	3.66 A	Moment of	Moment of inertia (J)		.lb
LRC	: 6	3.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	10.9 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	229 %	Service fa	ctor	: 1.00	
Breakdown torque	e :2	260 %	Temperature rise		: 80 K	
Rated speed	: 9	960 rpm	Design		: B	
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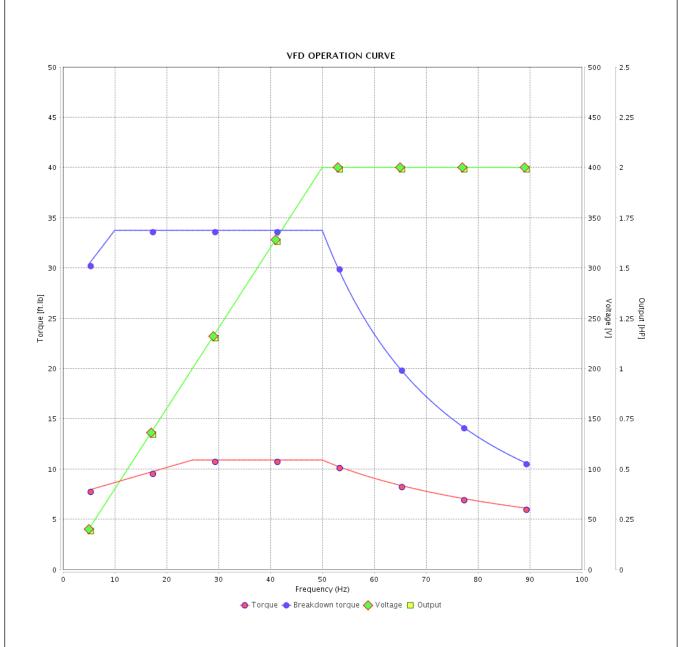
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Performance	: 4	00 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6 : 1 que : 2 ue : 3	6.61 A 6.7 0.9 ft.lb 80 % 60 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6210 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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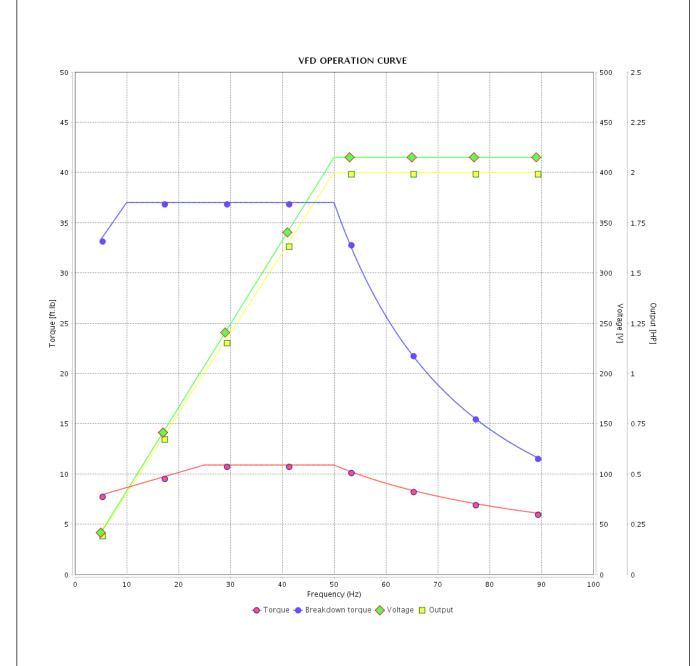


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Product line : NEMA Premium Efficiency Three- Product code : 11570619

Phase

Catalog #: 00212ET3E184JM-W22



Performance	: 4	15 V 50 Hz 6P IE4	ļ			
Rated current	ed current : 3.58 A Moment		Moment o	of inertia (J)	: 0.6210 sq.ft.lb	
LRC	: 7.	.1	Duty cycle	9	: Cont.(S1)	
Rated torque	: 10	0.9 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 3°	10 %	Service fa	ictor	: 1.00	
Breakdown torque	: 34	40 %	Temperati	Temperature rise		
Rated speed	: 96	65 rpm	Design		: B	
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