DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12325222

Catalog #: 00512ET3E215JP-W22

Frame : 213/5JP Cooling method : IC411 - TEFC

Insulation class 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 : 180 lb

Protection degre	е	: IP55	Moment of ine	ertia (J) : 1.47	sq.ft.lb
Design		: B			
Output [HP]		5	5	5	5
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		13.7/6.83	8.10	7.82	7.55
L. R. Amperes [A]		92.9/46.4	44.5	47.7	49.1
LRC [A]		6.8x(Code J)	5.5x(Code G)	6.1x(Code H)	6.5x(Code H)
No load current [A		6.90/3.45	3.41	3.68	3.90
Rated speed [RPN	1]	1170	960	965	970
Slip [%]		2.50	4.00	3.50	3.00
Rated torque [ft.lb]		22.4	27.4	27.2	27.1
Locked rotor torqu	e [%]	170	140	160	190
Breakdown torque	[%]	260	200	200 229	
Service factor		1.25	1.00	1.00 1.00	
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		102s (cold) 57s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)	54s (cold) 30s (hot)
Noise level ²		55.0 dB(A)	53.0 dB(A)	53.0 dB(A)	53.0 dB(A)
	25%	88.2	89.8	89.1	87.2
Efficiency (9/)	50%	88.5	88.5	88.5	87.5
Efficiency (%) 75%		89.5	88.5	88.5	88.5
100%		89.5	86.8	87.5	88.5
25%		0.34	0.40	0.37	0.34
Power Factor	50%	0.58	0.65	0.61	0.58
Fower Factor	75%	0.70	0.76	0.73	0.71
	100%	0.76	0.80	0.78	0.77

Drive end Non drive end Foundation loads

Bearing type 6309 Z C3 6207 ZZ Max. traction : 292 lb Sealing V'Ring V'Ring Max. compression : 471 lb

40000 h

Lubricant amount 13 g 0 g

20000 h

Mobil Polyrex EM Lubricant type

Notes

Lubrication interval

USABLE @208V 15.1A SF 1.15 SFA 17.4A

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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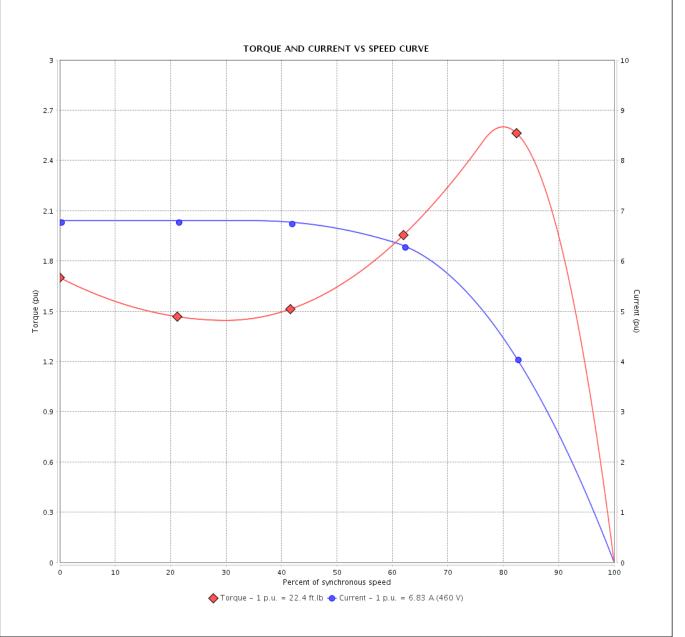
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00512ET3E215JP-W22

12325222



Performance : 230/460 V 60 Hz 6P Rated current : 13.7/6.83 A Moment of inertia (J) : 1.47 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 22.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B

Locked rotor time : 102s (cold) 57s (hot)

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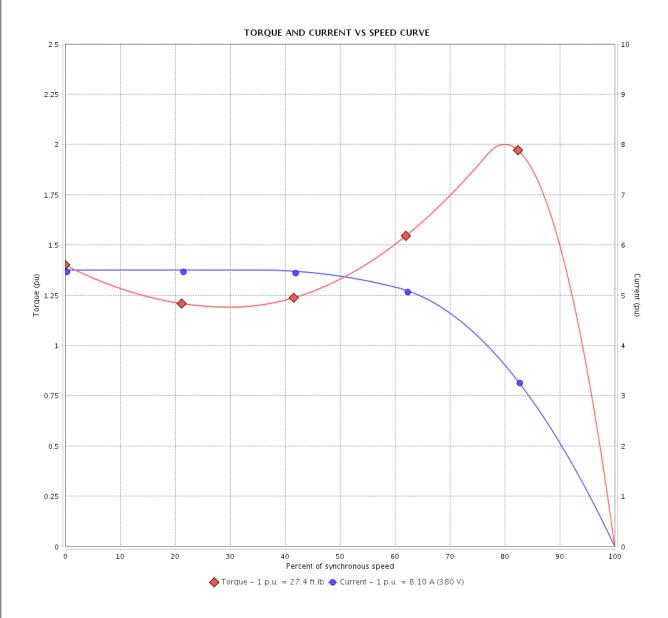
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12325222

Catalog #: 00512ET3E215JP-W22



Performance : 380 V 50 Hz 6P IE3 Rated current : 8.10 A Moment of inertia (J) : 1.47 sq.ft.lb **LRC** : 5.5 Duty cycle : Cont.(S1) Rated torque : 27.4 ft.lb Insulation class : F : 140 % Service factor : 1.00 Locked rotor torque : 80 K Breakdown torque : 200 % Temperature rise : B Rated speed : 960 rpm Design Locked rotor time : 54s (cold) 30s (hot)

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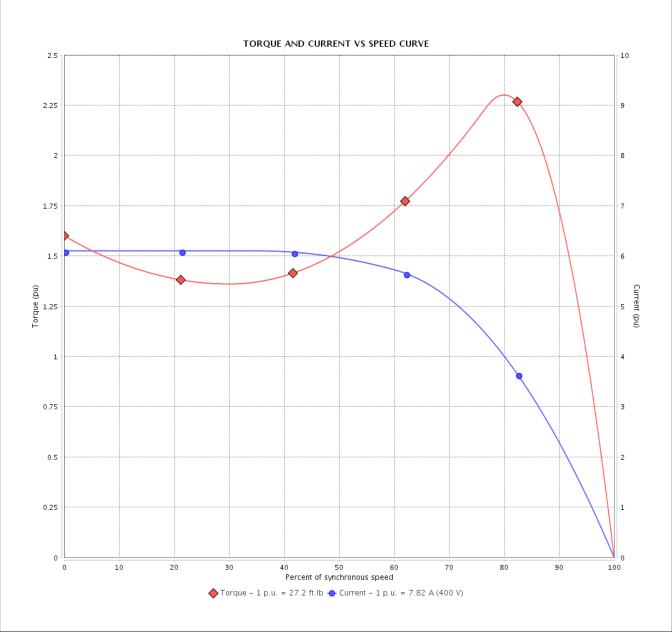
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12325222

Catalog #: 00512ET3E215JP-W22



Performance : 400 V 50 Hz 6P IE3 Rated current : 7.82 A Moment of inertia (J) : 1.47 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : 27.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 160 % : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 965 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: 12325222 Catalog #: 00512ET3E215JP-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 27.1 ft.lb ◆ Current - 1 p.u. = 7.55 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 7.55 A Moment of inertia (J) : 1.47 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 27.1 ft.lb : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 970 rpm Design : B Locked rotor time : 54s (cold) 30s (hot) Date Rev. Performed Checked **Changes Summary**

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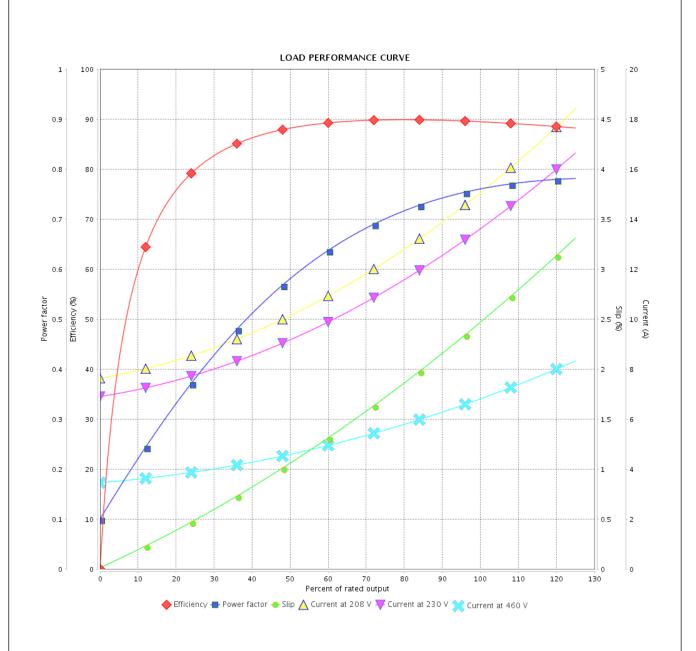
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Performance : 230/460 V 60 Hz 6P : 13.7/6.83 A Rated current Moment of inertia (J) : 1.47 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class Rated torque : 22.4 ft.lb : F Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

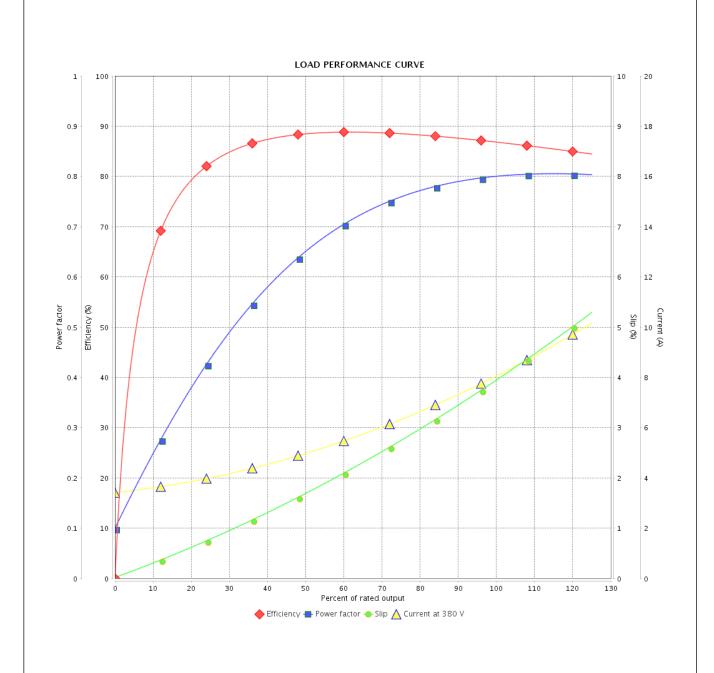
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Customer

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Performance : 380 V 50 Hz 6P IE3						
Rated current :		.10 A	Moment of	Moment of inertia (J)		
LRC	: 5	.5	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	7.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	40 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	00 %	Temperati	Temperature rise		
Rated speed	: 9	60 rpm	Design		: B	
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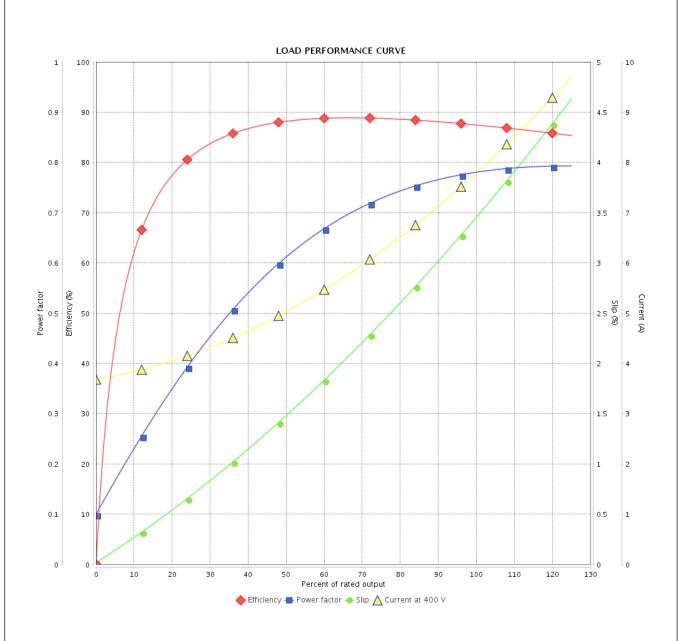
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Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 7.82 A	Moment of	` '	: 1.47 sq.ft.lb	
LRC	: 6.1	Duty cycle		: Cont.(S1)	
Rated torque	: 27.2 ft.lb	Insulation of	class	: F	
Locked rotor torque	: 160 %	Service factor Temperature rise		: 1.00	
Breakdown torque	: 229 %			: 80 K	
Rated speed	: 965 rpm	Design		: B	
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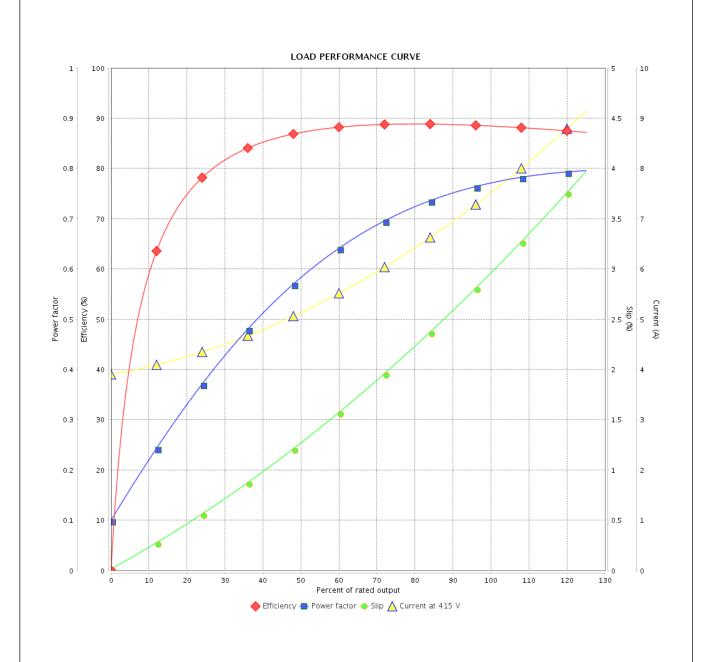
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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.55 A : 6.5 : 27.1 ft.lb : 190 % : 250 % : 970 rpm	Moment of i Duty cycle Insulation cl Service fact Temperature Design	ass or	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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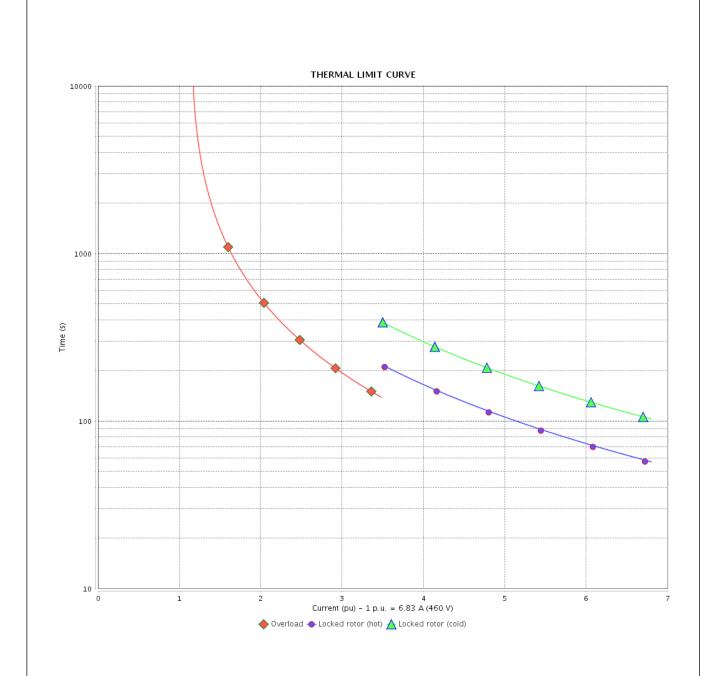


Customer	:				
Product line	: NEMA Premium Efficie Phase		Product code : Catalog # :	12325222 00512ET3E2	15JP-W22
Performance Rated current LRC Rated torque Locked rotor torque	: 230/460 V 60 Hz 6P : 13.7/6.83 A : 6.8 : 22.4 ft.lb : 170 %	Duty cycle Insulation Service fa	class ctor	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.25	
Breakdown torque Rated speed Heating constant	: 260 % : 1170 rpm	Temperati Design	ure rise	: 80 K : B	
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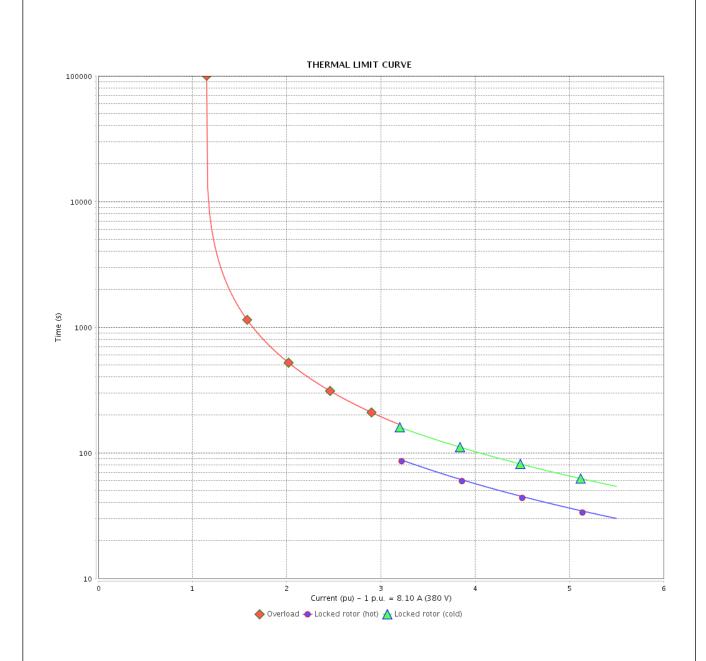


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12325222	
	P	hase		Catalog # :	00512ET3E21	15JP-W22
Performance		30 V 50 Hz 6P IE3	I			
Rated current LRC	: 8. : 5.	10 A 5	Moment of Duty cycle	f inertia (J)	: 1.47 sq.ft.lb : Cont.(S1)	
Rated torque	: 27	7.4 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		40 % 00 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		60 rpm	Design	J 	: B	
Heating constant						
Cooling constant		Oh ara ara O		D-v(Ob. 1	
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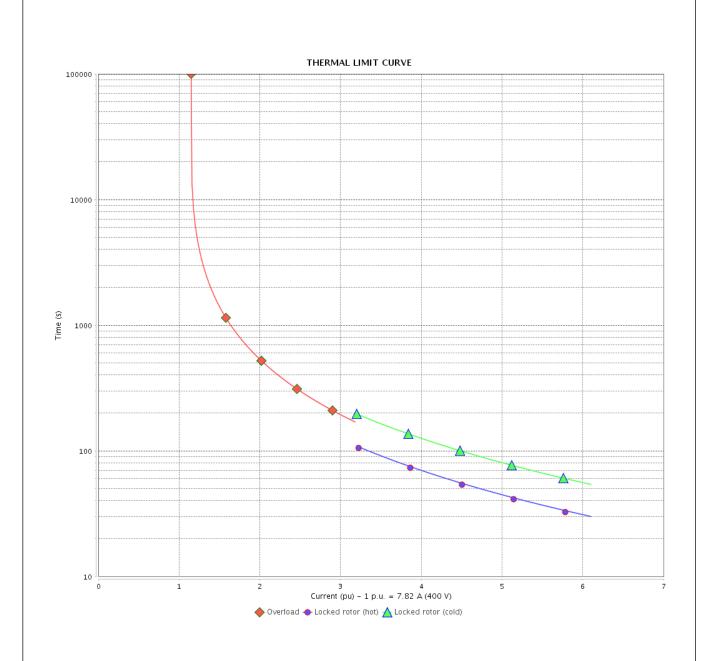


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12325222 00512ET3E2 ²	15JP-W22
Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC		: 7.82 A : 6.1	Moment of Duty cycle	of inertia (J)	: 1.47 sq.ft.lb : Cont.(S1)	
Rated torque		: 27.2 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 160 % : 229 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		: 965 rpm	Design		: B	
Heating constan						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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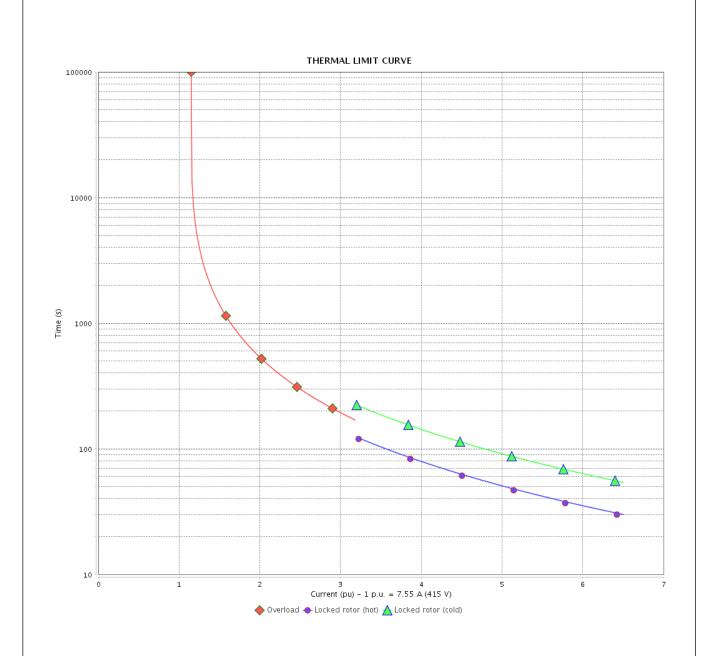


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Product line		: NEMA Premium Efficiency [*] Phase		Product code : Catalog # :	12325222 00512ET3E2	15JP-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque	: : que :	415 V 50 Hz 6P IE3 7.55 A 6.5 27.1 ft.lb 190 % 250 %	Duty cycle Insulation Service fa Temperatu	class ctor	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed Heating constant Cooling constant	t	970 rpm	Design		: B	_
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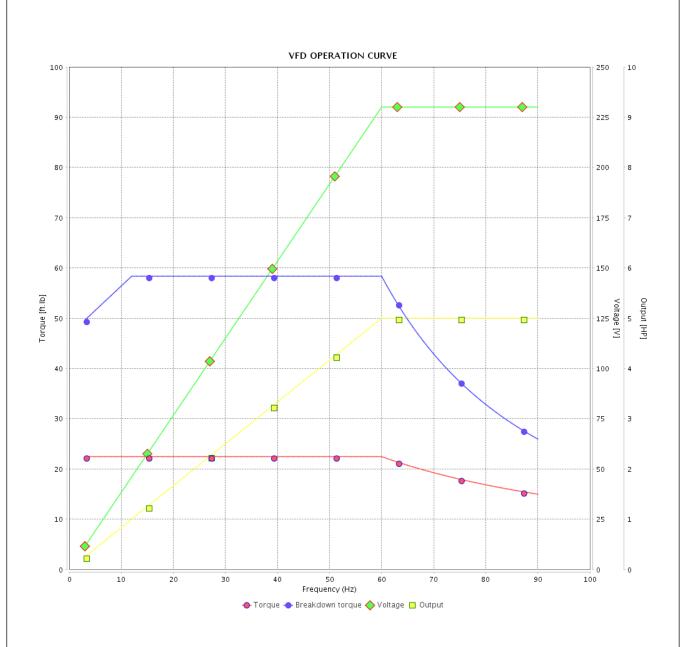
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Performance : 230/460 V 60 Hz 6P : 13.7/6.83 A Rated current Moment of inertia (J) : 1.47 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class Rated torque : 22.4 ft.lb : F Locked rotor torque : 170 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1170 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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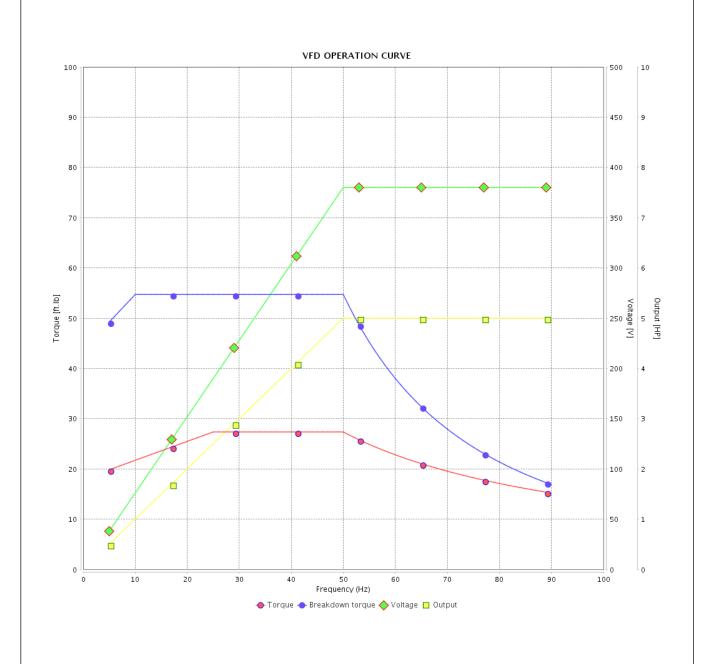
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Danfarmana	. 2	00 \/ E0 LI= CD IE2				
Performance	: 3	80 V 50 Hz 6P IE3				
Rated current : 8.10 A		Moment of	Moment of inertia (J)			
LRC	: 5	.5	Duty cycle		: Cont.(S1)	
Rated torque	: 2	7.4 ft.lb	Insulation class		:F	
Locked rotor tord	que : 1	40 %	Service factor		: 1.00	
Breakdown torque		00 %	Temperati	Temperature rise		
Rated speed	: 9	60 rpm	Design		: B	
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Phase

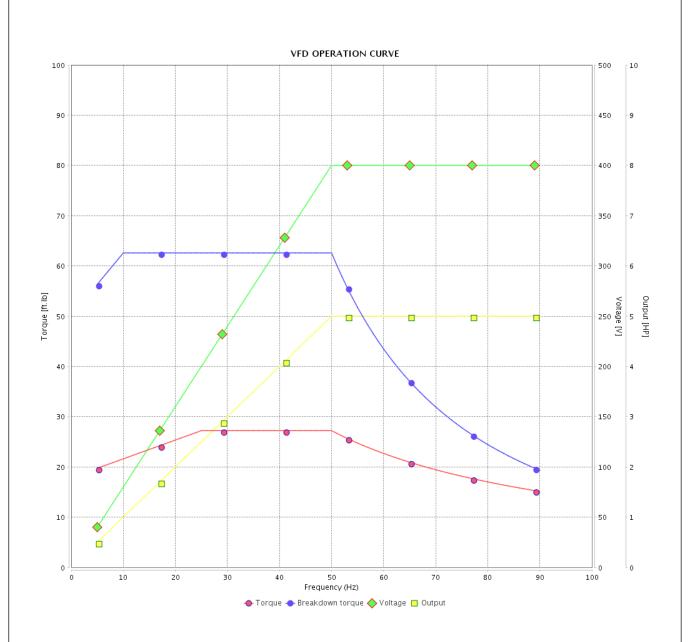
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Performance : 400 V 50 Hz 6P IE3 : 7.82 A Rated current Moment of inertia (J) : 1.47 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 27.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 80 K Rated speed : 965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

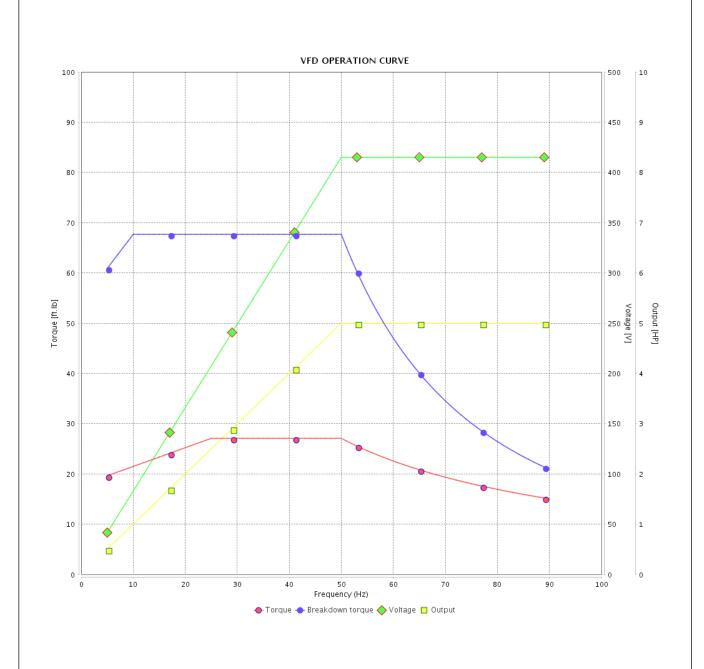
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 12325222

Catalog #: 00512ET3E215JP-W22



Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	ated current : 7.55 A		Moment o	Moment of inertia (J)		
LRC	: 6	.5	Duty cycle		: Cont.(S1)	
Rated torque	: 2	7.1 ft.lb	Insulation class		: F	
Locked rotor torqu	ie : 1	90 %	Service factor		: 1.00	
Breakdown torque		50 %	Temperati	Temperature rise		
Rated speed	: 9	70 rpm Design		: B		
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