DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11535676

Catalog #: 01018ET3E215JP-W22

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

Insulation class Mounting : F-1

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

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 185 lb

Protection degre	е	: IP55		Momer	nt of inertia (J)	: 1	.51 sq.ft.lb	
Design		: B						
Output [HP]		10	7.5	7.5	7.5	10	10	10
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		24.8/12.4	11.2	11.0	10.9	15.0	14.2	13.8
L. R. Amperes [A]		159/79.4	75.0	78.1	81.7	76.5	79.5	82.8
LRC [A]		6.4x(Code H)	6.7x(Code H)	7.1x(Code J)	7.5x(Code J)	5.1x(Code F)	5.6x(Code F)	6.0x(Code
								G)
No load current [A]	11.3/5.65	5.60	6.00	6.35	5.60	6.00	6.35
Rated speed [RPN	1]	1765	1465	1470	1470	1450	1455	1460
Slip [%]		1.94	2.33	2.00	2.00	3.33	3.00	2.67
Rated torque [ft.lb]		29.8	26.9	26.8	26.8	36.2	36.1	36.0
Locked rotor torqu	e [%]	200	200	240	260	150	180	190
Breakdown torque	[%]	295	300	340	360	220	250	270
Service factor		1.25	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		30s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)
		17s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)
Noise level ²		58.0 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	90.0	88.8	88.0	91.6	90.7	90.1
Efficiency (%)	50%	91.0	90.0	89.2	88.7	90.3	90.3	90.3
Lilloleticy (70)	75%	91.7	90.0	89.9	89.8	90.2	90.2	90.2
	100%	91.7	89.8	90.1	90.3	88.5	89.5	90.2
	25%	0.40	0.37	0.34	0.32	0.46	0.43	0.40
Power Factor	50%	0.66	0.62	0.58	0.55	0.73	0.69	0.66
FUWEI FACIOI	75%	0.77	0.76	0.73	0.70	0.82	0.80	0.78
	100%	0.83	0.83	0.80	0.78	0.86	0.85	0.84

Non drive end Drive end Foundation loads

Bearing type 6309 Z C3 6207 ZZ Max. traction : 455 lb Sealing V'Ring V'Ring : 640 lb Max. compression 40000 h

0 g Lubricant amount 13 g Lubricant type Mobil Polyrex EM

20000 h

Notes

Lubrication interval

USABLE @208V 27.4A SF 1.15 SFA 31.5A

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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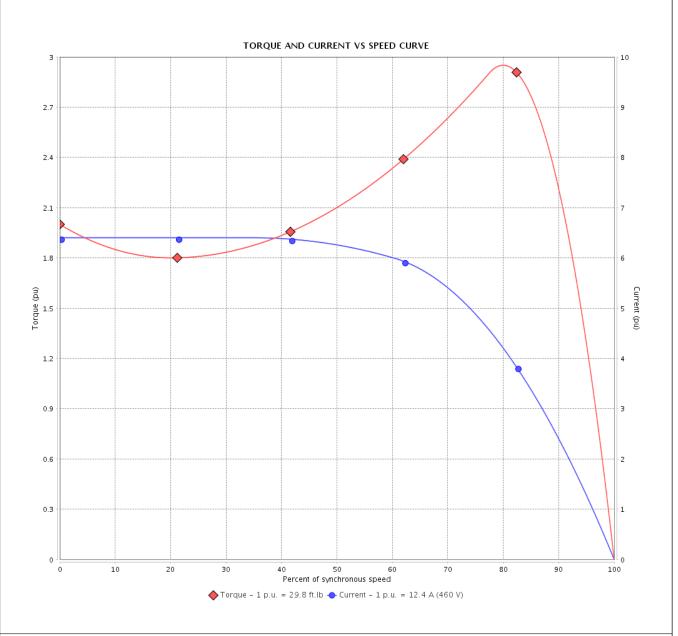


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11535676

Phase

Catalog #: 01018ET3E215JP-W22



Performance : 230/460 V 60 Hz 4P Rated current : 24.8/12.4 A Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 29.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 295 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11535676 Catalog #: 01018ET3E215JP-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Torque (pu) 1.2 0.6 0.3 40 50 -Percent of synchronous speed ♦ Torque – 1 p.u. = 26.9 ft.lb ♦ Current – 1 p.u. = 11.2 A (380 V)

Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 11.2 A	Moment of inertia (J)	: 1.51 sq.ft.lb	
LRC	: 6.7	Duty cycle	: Cont.(S1)	
Rated torque	: 26.9 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.15	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1465 rpm	Design	: B	
Locked rotor time	: 25s (cold) 14s (hot)	'		
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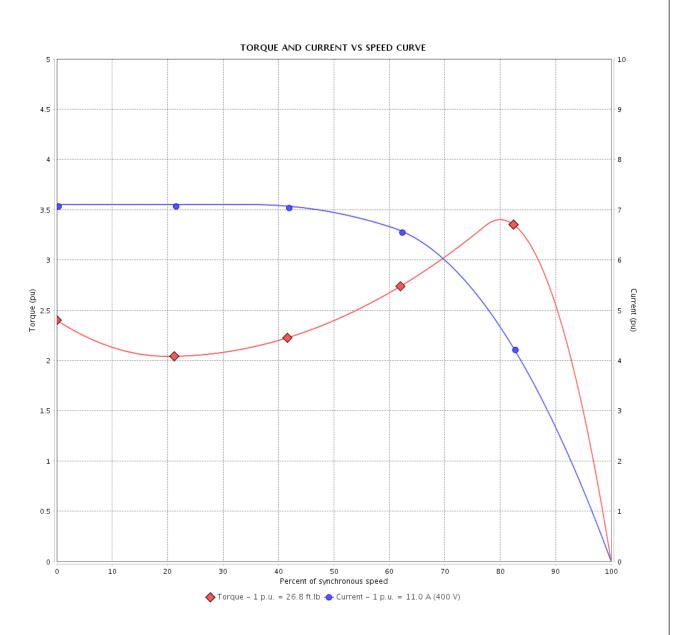


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11535676

Phase

Catalog #: 01018ET3E215JP-W22



Performance	: 400 V 50 Hz 4P IE3			
Rated current	: 11.0 A	Moment of inertia (J)	: 1.51 sq.ft.lb	
LRC	: 7.1	Duty cycle	: Cont.(S1)	
Rated torque	: 26.8 ft.lb	Insulation class	:F	
Locked rotor torque	: 240 %	Service factor	: 1.15	
Breakdown torque	: 340 %	Temperature rise	: 80 K	
Rated speed	: 1470 rpm	Design	: B	
Locked rotor time	: 25s (cold) 14s (hot)	'		

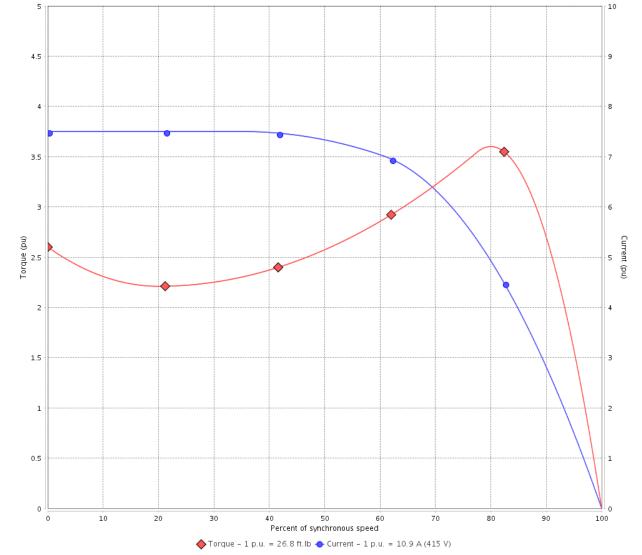
Locked rotor time : 25s (cold) 14s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11535676 Catalog #: 01018ET3E215JP-W22 TORQUE AND CURRENT VS SPEED CURVE



Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 10.9 A	Moment of inertia (J)	: 1.51 sq.ft.lb	
LRC	: 7.5	Duty cycle	: Cont.(S1)	
Rated torque	: 26.8 ft.lb	Insulation class	: F	
Locked rotor torque	: 260 %	Service factor	: 1.15	
Breakdown torque	: 360 %	Temperature rise	: 80 K	
Rated speed	: 1470 rpm	Design	: B	
Locked rotor time	: 25s (cold) 14s (hot)			

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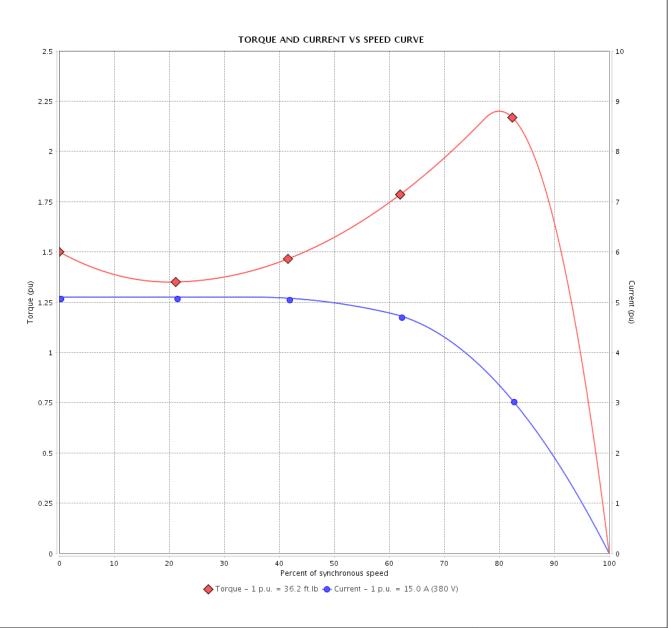
Customer :

Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 11535676

Catalog #: 01018ET3E215JP-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 15.0 A Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 5.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 36.2 ft.lb : F Service factor Locked rotor torque : 150 % : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.2 A : 5.6 : 36.1 ft.lb : 180 % : 250 % : 1455 rpm	Moment of in Duty cycle Insulation cla Service facto Temperature Design	ss r	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Locked rotor time	: 25s (cold) 14s (hot)				
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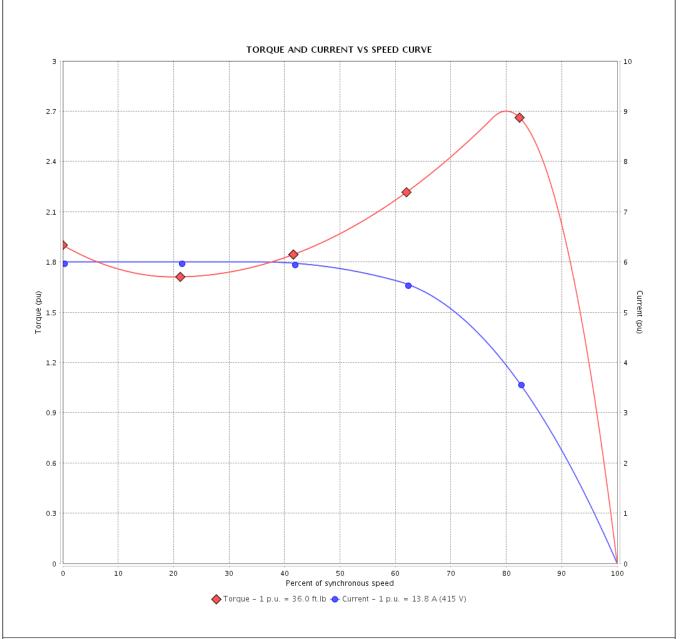
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Phase

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11535676



Performance : 415 V 50 Hz 4P IE2 Rated current : 13.8 A Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 6.0 Duty cycle : Cont.(S1) : 36.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

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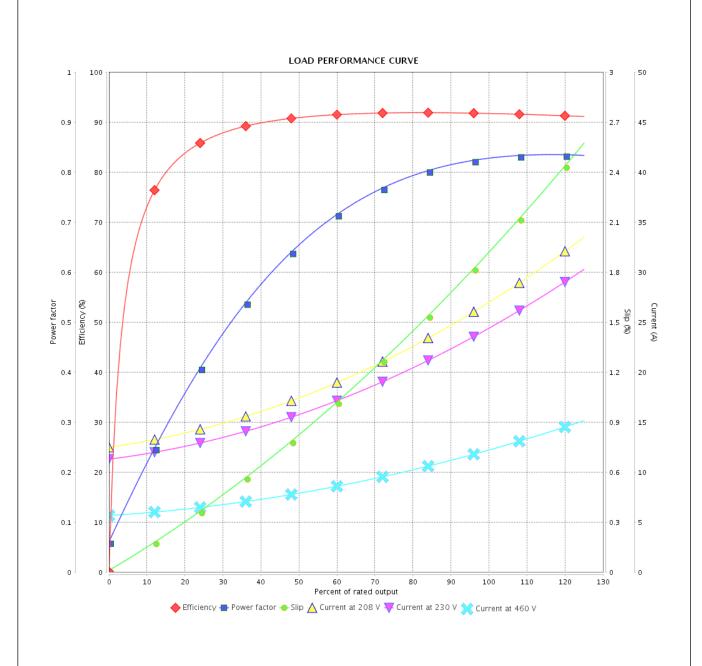
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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 24.8/12.4 A : 6.4 : 29.8 ft.lb : 200 % : 295 % : 1765 rpm	Moment of i Duty cycle Insulation of Service fact Temperature Design	lass	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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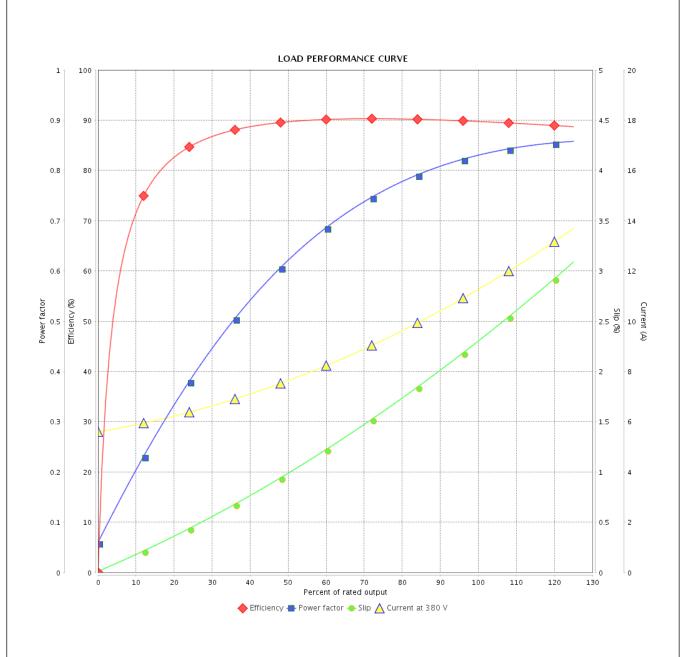
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Performance : 380 V 50 Hz 4P IE3 : 11.2 A Rated current Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 26.9 ft.lb Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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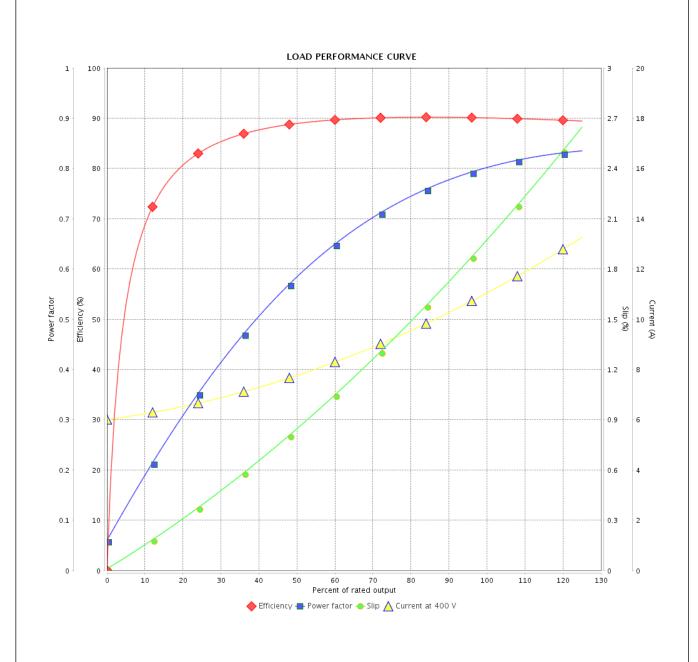


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Performance	: 4	00 V 50 Hz 4P IE3				
Rated current	d current : 11.0 A Mo		Moment o	f inertia (J)	: 1.51 sq.ft.lb	
LRC	: 7	'.1	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	6.8 ft.lb	Insulation	class	: F	
Locked rotor torque : 240 %		40 %	Service fa	ctor	: 1.15	
Breakdown torque	: : 3	340 %	Temperati	Temperature rise		
Rated speed	: 1	470 rpm	Design		: B	
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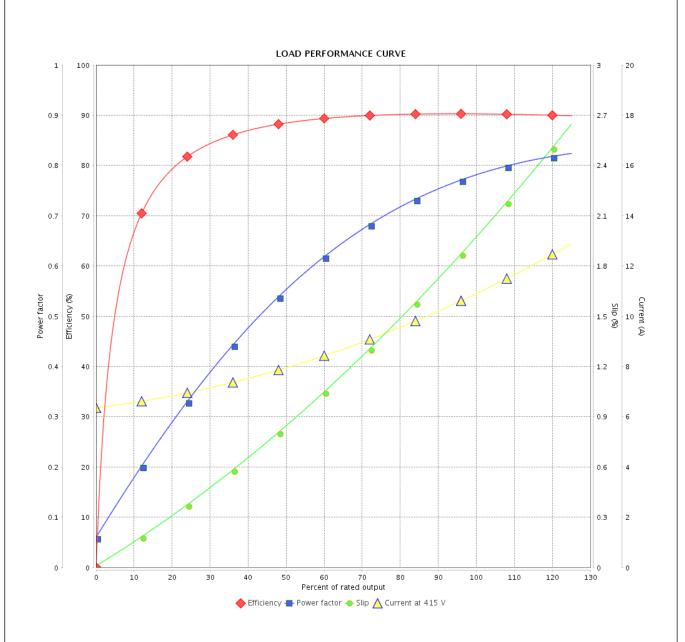
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Phase

Product code: 11535676

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Performance	: 415 V 50 Hz 4P IE3				
Rated current	ed current : 10.9 A Moment of inerti		rtia (J)	: 1.51 sq.ft.lb	
LRC	: 7.5	Duty cycle		: Cont.(S1)	
Rated torque	: 26.8 ft.lb	Insulation clas	s	: F	
Locked rotor torque	: 260 %	Service factor		: 1.15	
Breakdown torque	: 360 %	Temperature rise		: 80 K	
Rated speed	: 1470 rpm	Design		: B	
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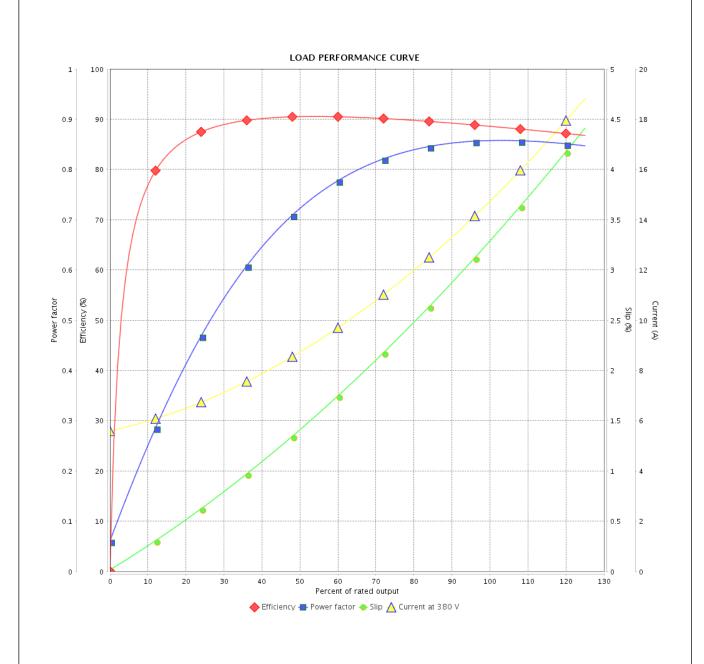
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Performance	: 3	380 V 50 Hz 4P IE1				
Rated current	ated current : 15.0 A		Moment o	f inertia (J)	: 1.51 sq.ft.lb	
LRC	: 5	5.1	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	36.2 ft.lb	Insulation	class	: F	
Locked rotor torque		150 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	220 %	Temperature rise		: 80 K	
Rated speed	: ′	1450 rpm	Design		: B	
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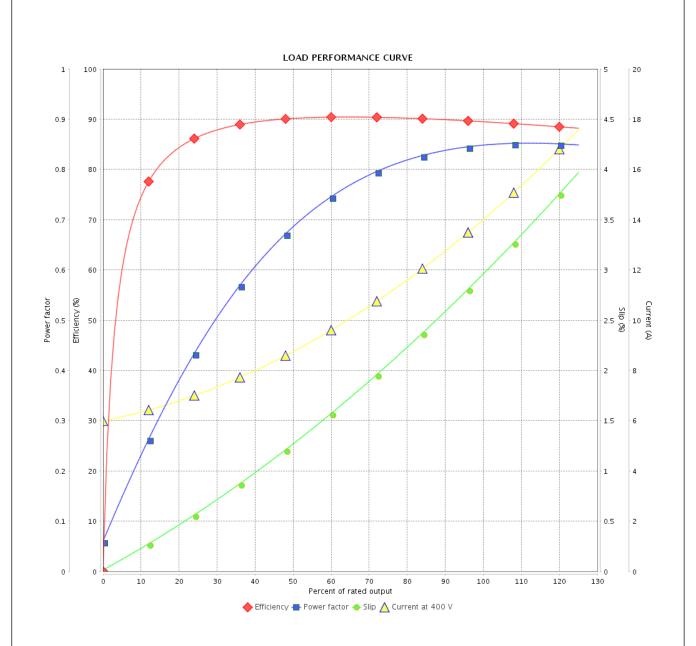
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Performance : 400 V 50 Hz 4P IE2 : 14.2 A Rated current Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) : 36.1 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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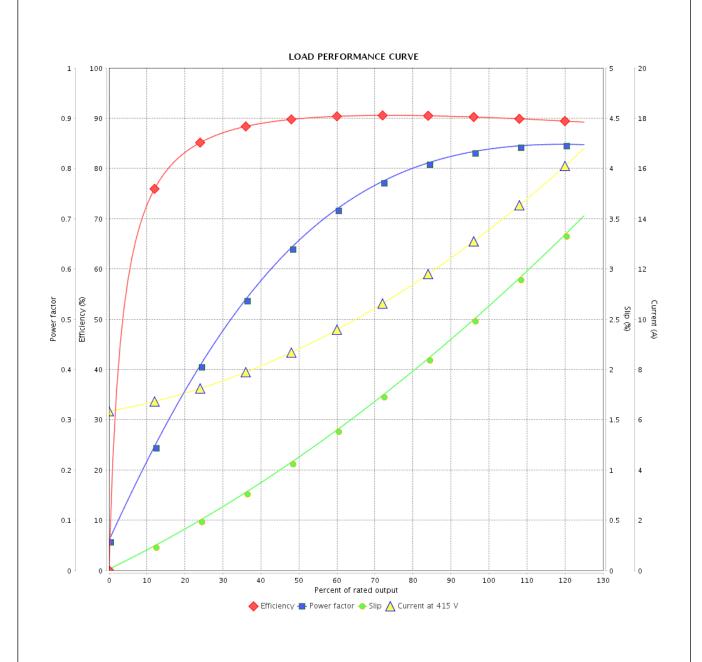
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Performance	: 4	15 V 50 Hz 4P IE2				
Rated current	ted current : 13.8 A		Moment o	Moment of inertia (J)		
LRC	: 6	6.0	Duty cycle	}	: Cont.(S1)	
Rated torque	: 3	6.0 ft.lb	Insulation	class	:F	
Locked rotor torque : 190 %		90 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	270 %	Temperatu	Temperature rise		
Rated speed	: 1	460 rpm	Design		: B	
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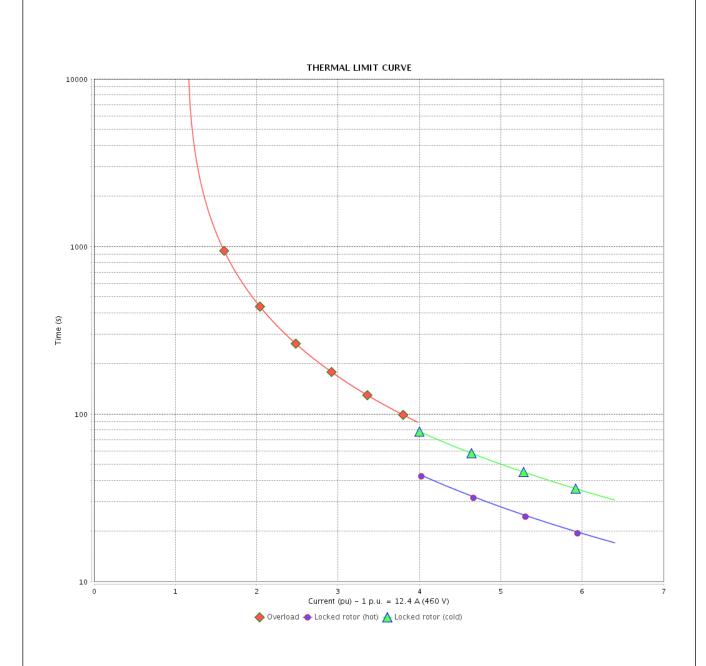


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			(Catalog # :	01018ET3E2	15JP-W22
Performance	. 24	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed	: 2 ⁴ : 6. : 29 e : 20 : 29	4.8/12.4 A	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant						
Cooling constant						
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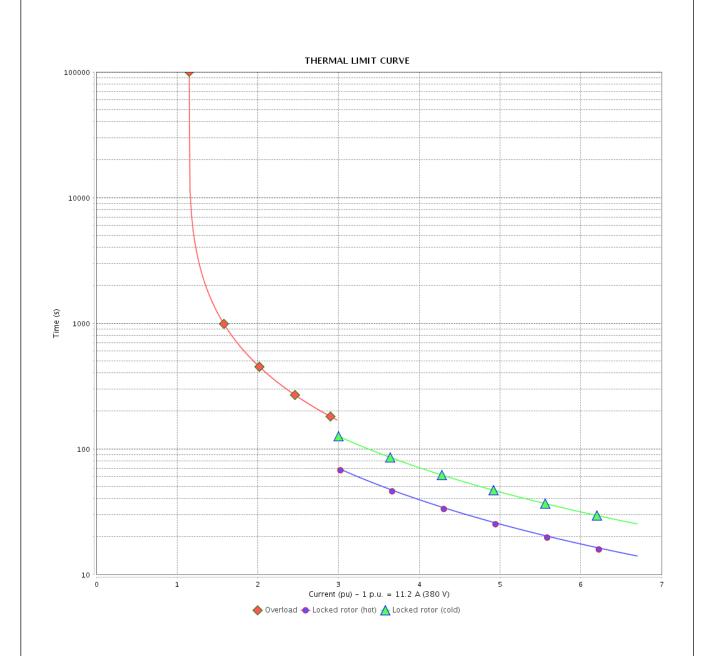


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Customer	•				
Product line	: NEMA Premium Efficier Phase	ncy Three-	Product code :	11535676	
	i ilase		Catalog # :	01018ET3E21	15JP-W22
Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.2 A : 6.7 : 26.9 ft.lb : 200 % : 300 % : 1465 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	r				
Cooling constant					
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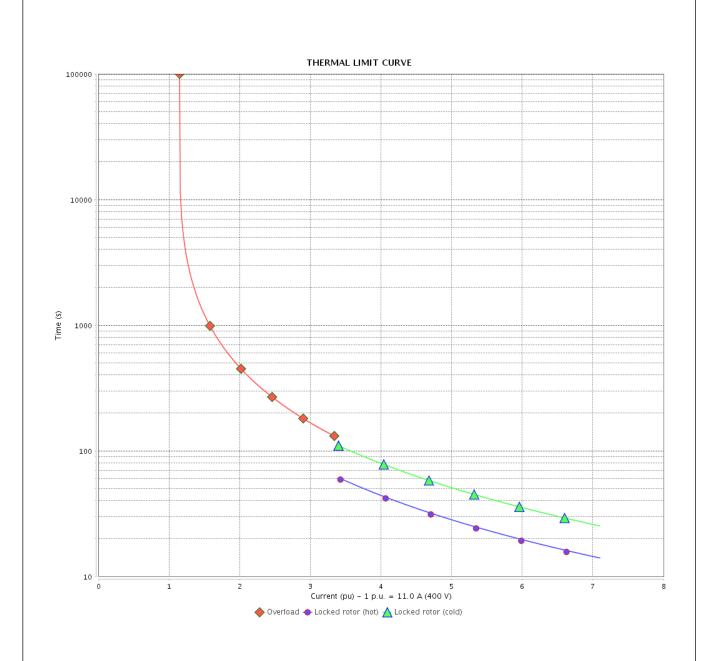


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Product line		NEMA Premium Efficiency	Three-	Product code :	11535676	
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Performance Rated current		00 V 50 Hz 4P IE3 .0 A	Moment o	f inertia (J)	: 1.51 sq.ft.lb	
LRC	: 7.	1	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torc		6.8 ft.lb 40 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie : 34	10 %	Temperatu		: 80 K	
Rated speed		170 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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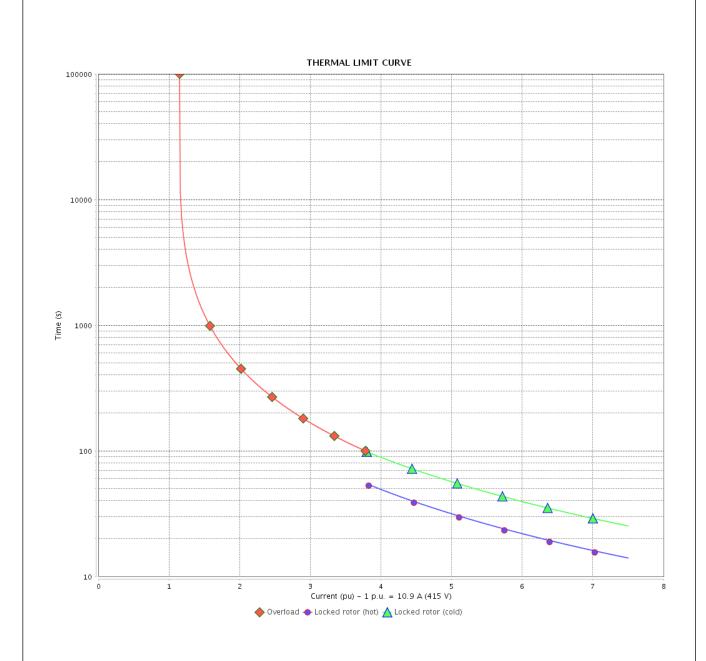


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Product line		NEMA Premium Efficiency	Three-	Product code :	11535676	
	P	hase		Catalog # :	01018ET3E21	15JP-W22
Performance		15 V 50 Hz 4P IE3				
Rated current LRC	: 10 : 7.).9 A 5	Moment of Duty cycle	f inertia (J)	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque	: 26	6.8 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		60 % 60 %	Service fa Temperatu		: 1.15 : 80 K	
Rated speed		470 rpm	Design		: B	
Heating constant						
Cooling constant						
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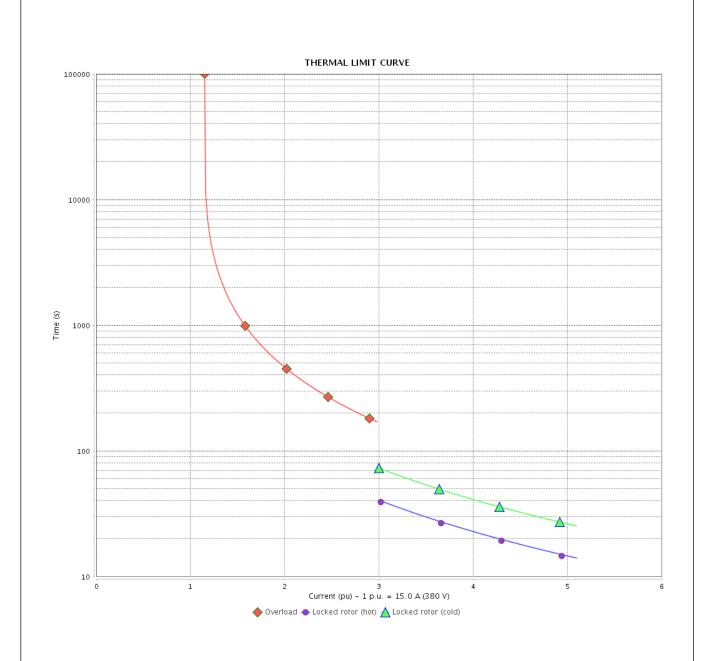


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Product line		NEMA Premium Efficiency hase		Product code :	11535676 01018ET3E2 ⁻	15JP-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant	: 15 : 5. : 36 : 15 : 22	30 V 50 Hz 4P IE1 5.0 A 1 6.2 ft.lb 50 % 20 % 450 rpm	Moment or Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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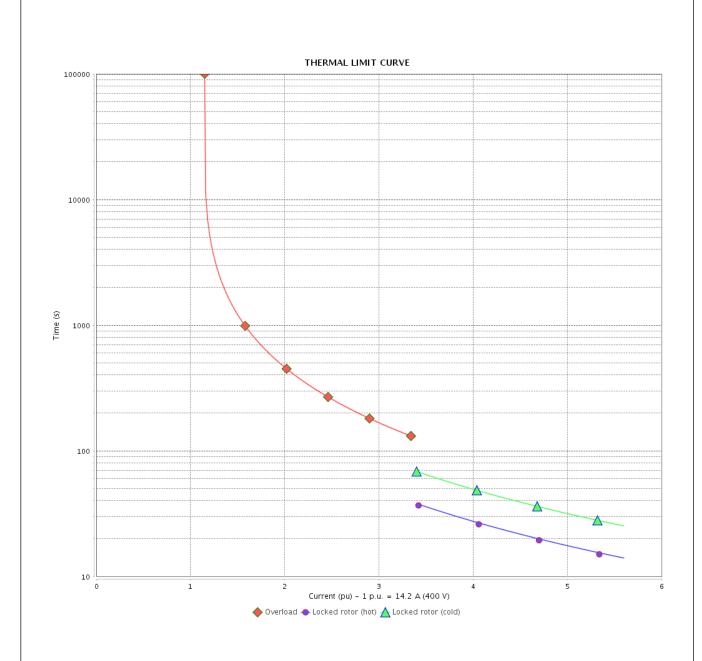


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11535676	
				Catalog # :	01018ET3E21	15JP-W22
Performance		: 400 V 50 Hz 4P IE2	T			
Rated current LRC		: 14.2 A : 5.6	Moment of Duty cycle	of inertia (J)	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque		: 36.1 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 180 % : 250 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 1455 rpm	Design	G. 5 1100	: B	
Heating constant	t					
Cooling constant						
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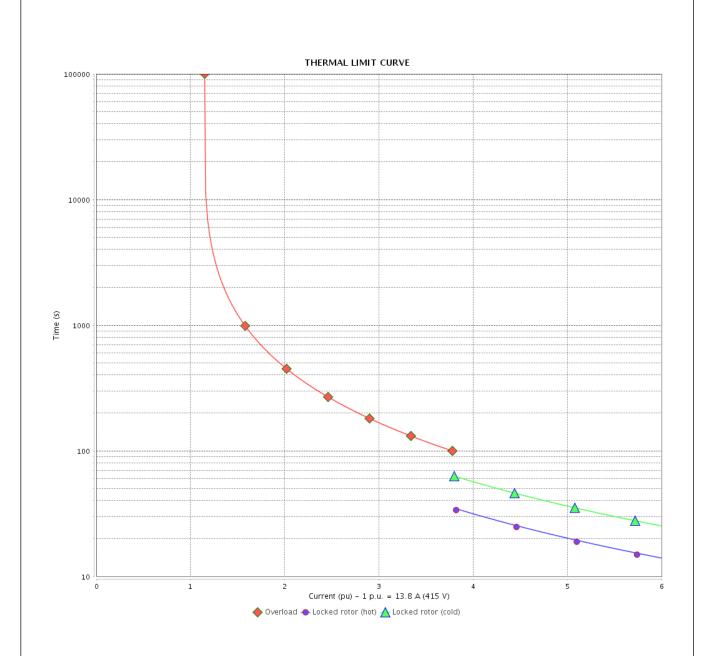


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11535676	
				Catalog # :	01018ET3E21	15JP-W22
Performance Rated current		: 415 V 50 Hz 4P IE2 : 13.8 A	Moment	of inertia (J)	: 1.51 sq.ft.lb	
LRC		: 6.0	Duty cycle	е	: Cont.(S1)	
Rated torque Locked rotor tord		: 36.0 ft.lb : 190 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		: 270 %	Temperat		: 80 K	
Rated speed		: 1460 rpm	Design		: B	
Heating constant						
Cooling constant	t	01 0				
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Customer :

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Date

12/04/2022

Product line : NEMA Premium Efficiency Three- Prod

Phase

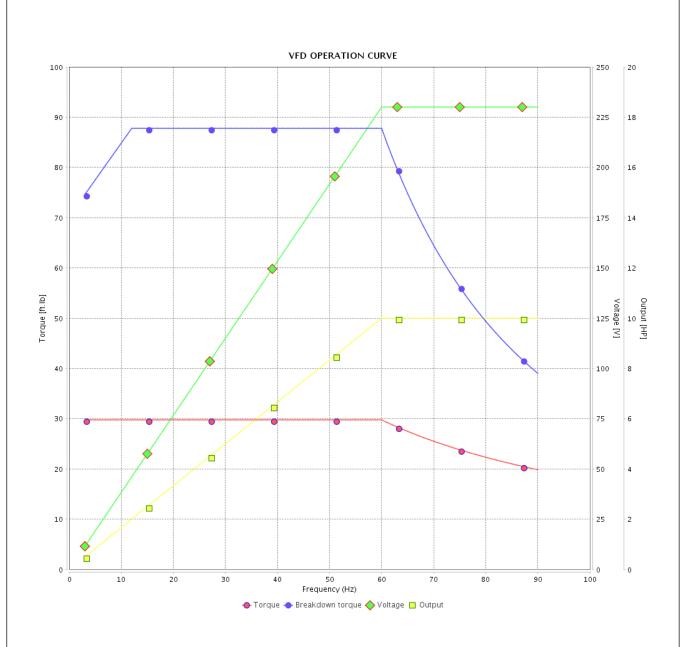
Product code: 11535676

Catalog #: 01018ET3E215JP-W22

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Performance		: 230/460 V 60 Hz	2 4P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 24.8/12.4 A : 6.4 : 29.8 ft.lb : 200 % : 295 % : 1765 rpm	Duty cy Insulation Service	Moment of inertia (J) : 1.51 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.25 Temperature rise : 80 K Design : B		
Rev.		Changes Sum	mary	Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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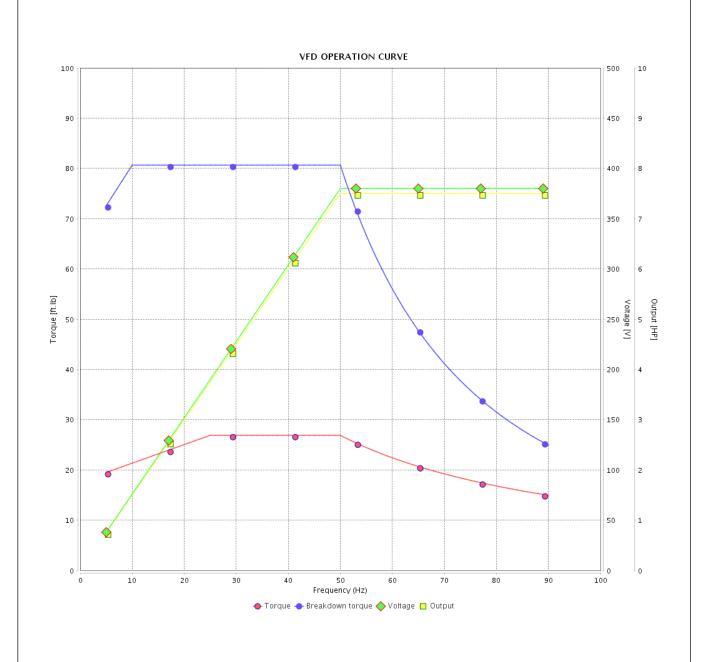
Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11535676

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.2 A : 6.7 : 26.9 ft.lb : 200 % : 300 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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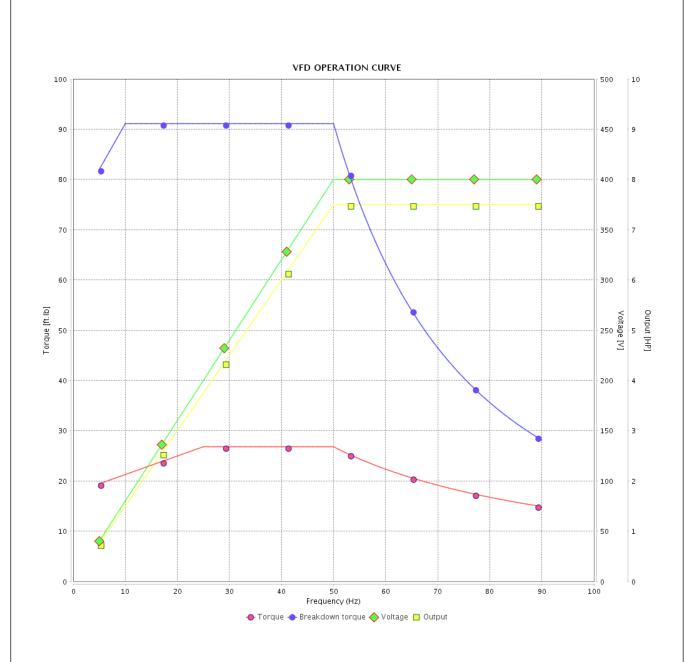
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 01018ET3E215JP-W22

11535676

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.0 A : 7.1 : 26.8 ft.lb : 240 % : 340 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage

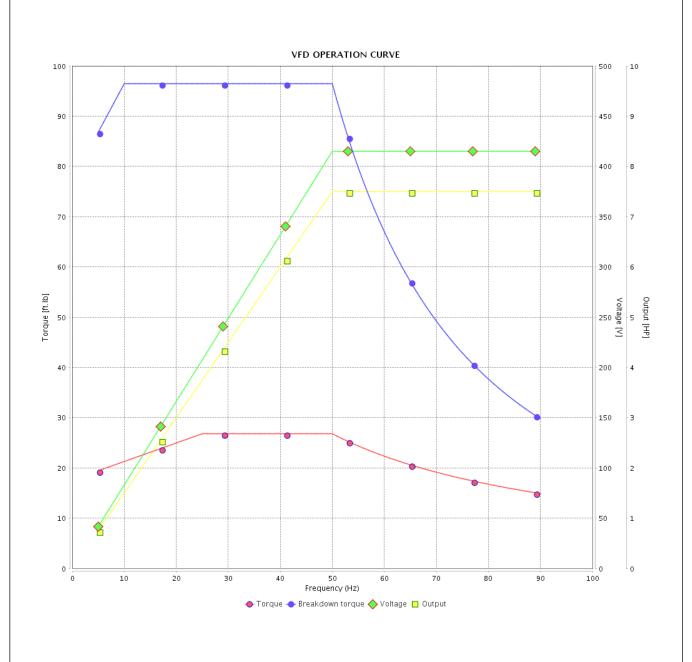


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11535676

Phase

Catalog #: 01018ET3E215JP-W22



Performance	: 4	: 415 V 50 Hz 4P IE3					
Rated current	: 1	: 10.9 A Mome		f inertia (J)	: 1.51 sq.ft.lb		
LRC	: 7	7.5	Duty cycle	:	: Cont.(S1)		
Rated torque	: 2	6.8 ft.lb	Insulation	class	: F		
Locked rotor torque	e : 2	.60 %	Service factor		: 1.15		
Breakdown torque : 360 %		60 %	Temperati	Temperature rise		: 80 K	
Rated speed		: 1470 rpm Design			: B		
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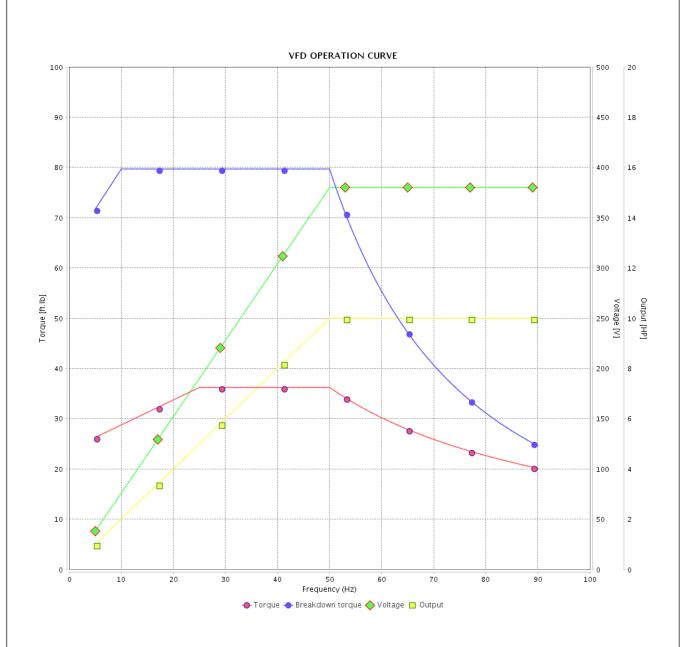
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11535676

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Performance	: 38	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 36 que : 15 ie : 22	5.0 A 1 5.2 ft.lb 50 % 20 % 450 rpm	Duty cycle Insulation clas Service factor Temperature ri		: Cont.(S1) class : F ctor : 1.15	
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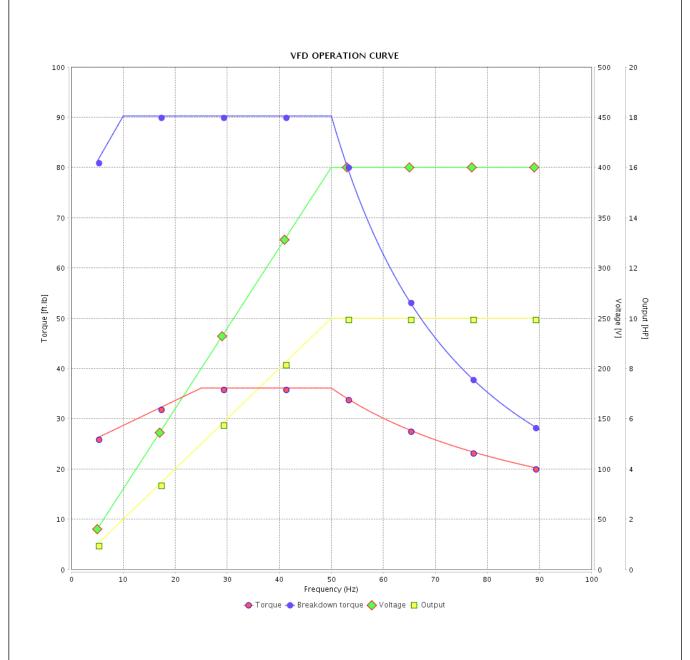
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11535676

Phase

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Performance	: 400 V 50 Hz 4P IE2	: 400 V 50 Hz 4P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.2 A : 5.6 : 36.1 ft.lb : 180 % : 250 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B				
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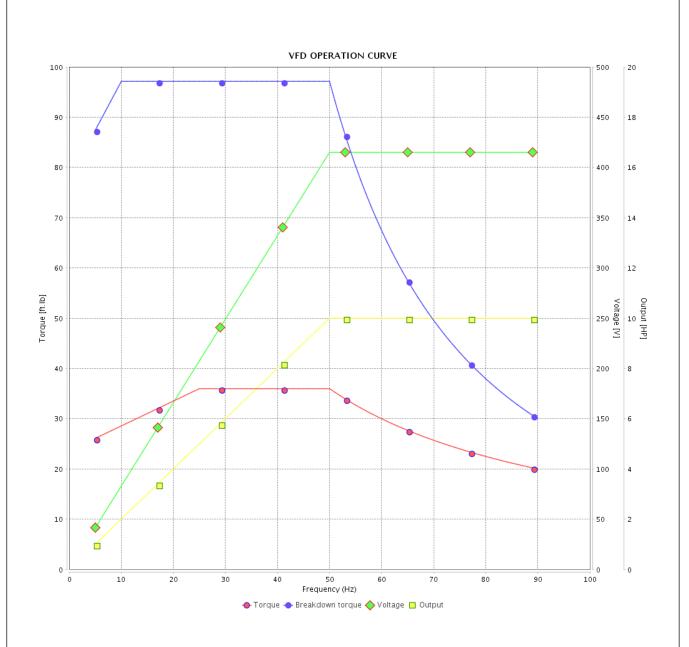
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11535676

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Performance	: 41	: 415 V 50 Hz 4P IE2							
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 36 que : 19 ue : 27	3.8 A 0 5.0 ft.lb 90 % 70 % 460 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design					
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