DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11766656

Phase

1765

1.94

29.8

Catalog #: 01018ET3E215JM-W22

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

Insulation class : F Mounting : F-1

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

1465

2.33

26.9

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 182 lb
Protection degree : IP55 Moment of inertia (J) : 1.51 sq.ft.lb

Protection degree : IP55
Design : B

Rated speed [RPM]

Rated torque [ft.lb]

Slip [%]

Deoigii							
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(Cod
							G)
No load current [A]	11.3/5.65	5.60	6.00	6.35	5.60	6.00	6.35

1470

2.00

26.8

1470

2.00

26.8

1450

3.33

36.2

1455

3.00

36.1

1460

2.67

36.0

Locked rotor torq	ue [%]	200	200	240	260	150	180	190
Breakdown torqu	e [%]	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						
Locked rotor time	;	30s (cold)	25s (cold)					
		17s (hot)	14s (hot)					
Noise level ²		58.0 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
Linciency (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
FOWEI 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

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

Bearing type : 6309 Z C3 6207 ZZ Max. traction : 457 lb Sealing : V'Ring V'Ring Lubrication interval : 20000 h 40000 h

Lubricant amount : 13 g 0 g Lubricant type : Mobil Polyrex EM

Notes

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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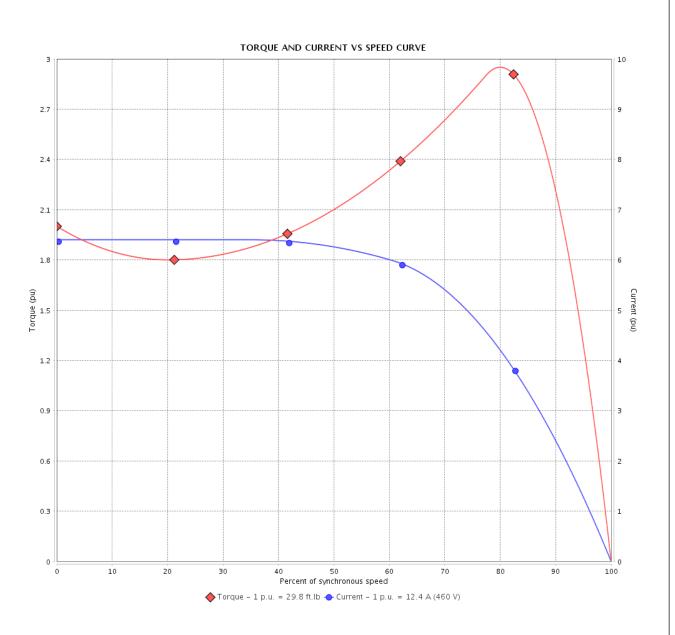
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11766656

Catalog #: 01018ET3E215JM-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: 11766656 Catalog #: 01018ET3E215JM-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. = 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) : 26.9 ft.lb Insulation class Rated torque : F : 200 % Locked rotor torque Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Locked rotor time : 25s (cold) 14s (hot) Date Rev. Performed Checked **Changes Summary**

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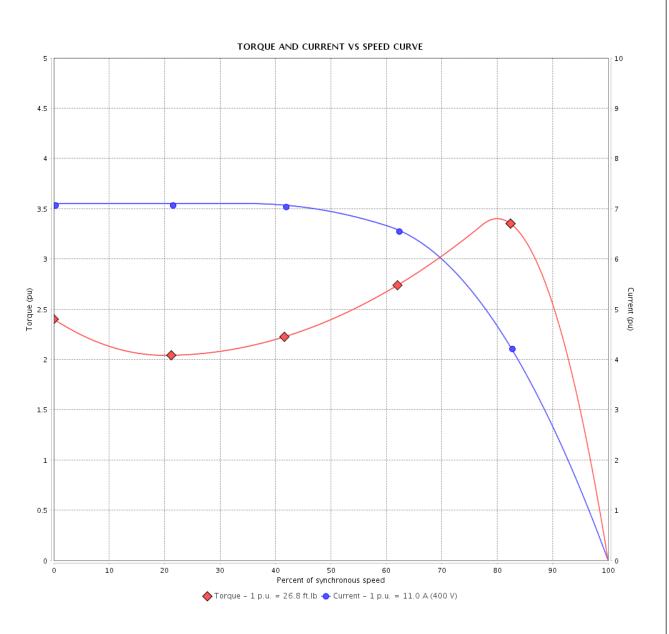


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11766656

Phase

Catalog #: 01018ET3E215JM-W22



Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC	: 11.0 A : 7.1	Moment of inertia (J)	: 1.51 sq.ft.lb	
Rated torque	. 7.1 : 26.8 ft.lb	Duty cycle Insulation class	: Cont.(S1) : 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)

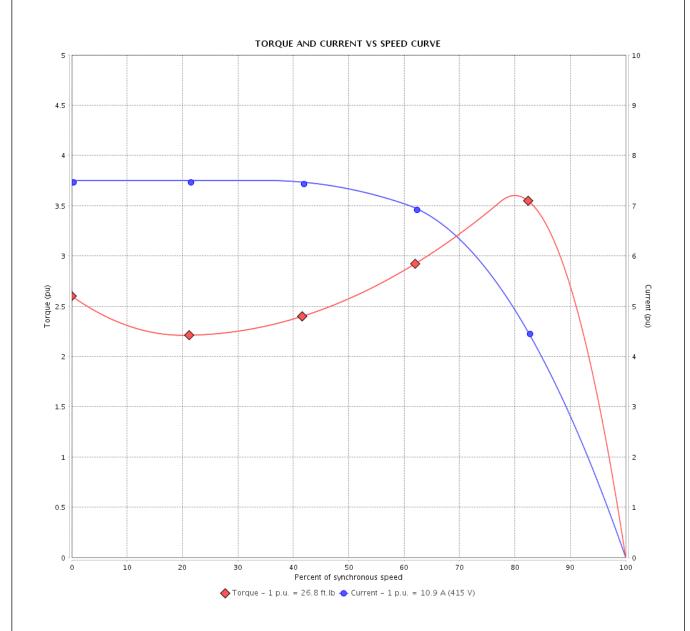
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Customer :

Product line : NEMA Premium Efficiency Three-Product code : 11766656
Phase Catalog # : 01018ET3E215JM-W22



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) Insulation class Rated torque : 26.8 ft.lb : F : 260 % Locked rotor torque 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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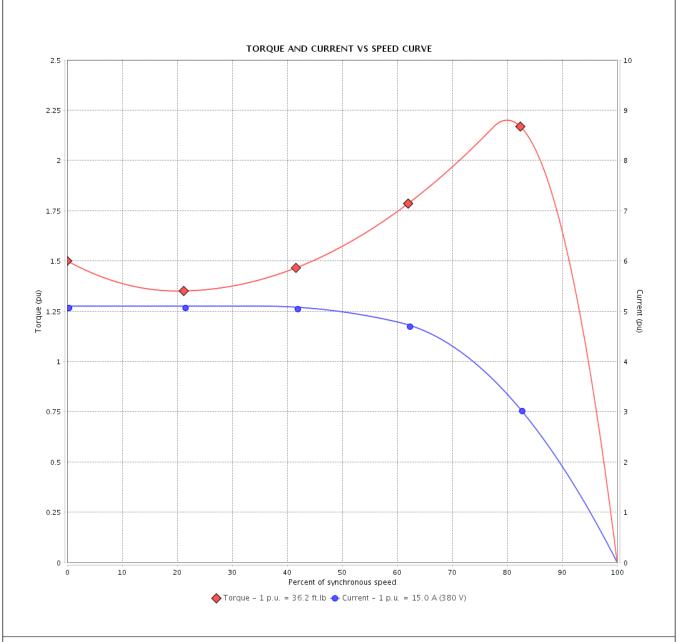
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Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11766656

Catalog #: 01018ET3E215JM-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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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11766656 Catalog #: 01018ET3E215JM-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) Current 1.2 0.6 0.3 40 50 60 Percent of synchronous speed ♦ Torque – 1 p.u. = 36.1 ft.lb ♦ Current – 1 p.u. = 14.2 A (400 V) : 400 V 50 Hz 4P IE2 Performance Rated current : 14.2 A Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 5.6 Duty cycle : Cont.(S1) Rated torque : 36.1 ft.lb Insulation class : F : 180 % Service factor Locked rotor torque : 1.15 : 80 K Breakdown torque : 250 % Temperature rise Rated speed : B : 1455 rpm Design Locked rotor time : 25s (cold) 14s (hot)

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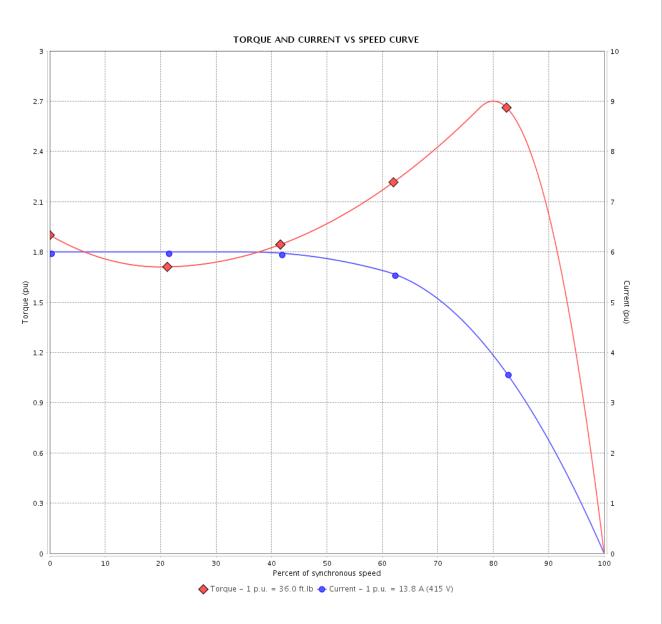


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11766656

Phase

Catalog #: 01018ET3E215JM-W22



Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 13.8 A : 6.0 : 36.0 ft.lb : 190 % : 270 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
Rated speed Locked rotor time	: 1460 rpm : 25s (cold) 14s (hot)	Design	: B	

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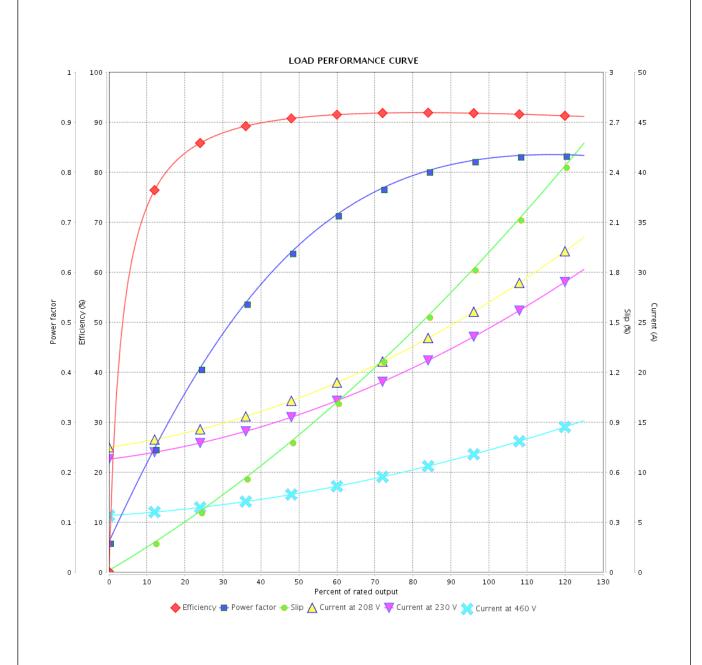
Customer

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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 Duty cycle Insulation Service fac Temperatu Design	class	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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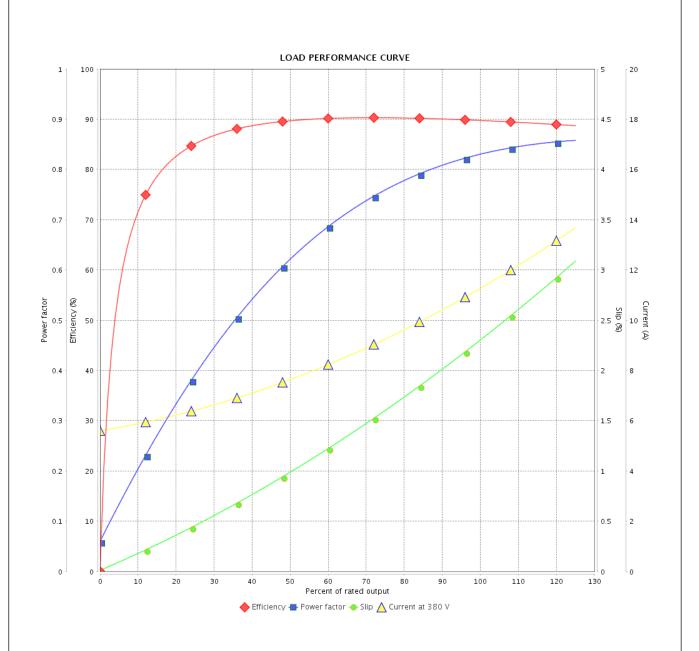
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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.2 A : 6.7 : 26.9 ft.lb : 200 % : 300 % : 1465 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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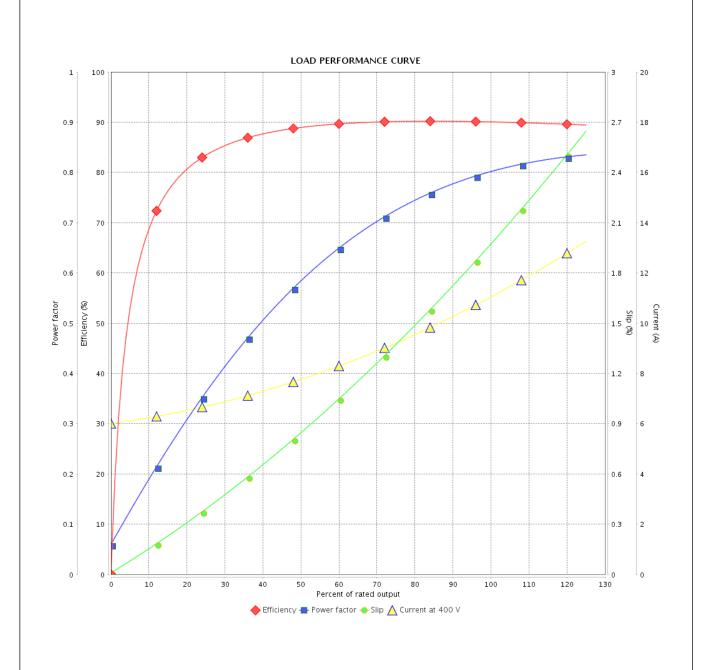
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Performance	:	400 V 50 Hz 4P IE3				
Rated current		11.0 A	Moment o	f inertia (J)	: 1.51 sq.ft.lb	
LRC	:	7.1	Duty cycle	;	: Cont.(S1)	
Rated torque	:	26.8 ft.lb	Insulation	class	:F	
Locked rotor torque : 240		240 %	Service fa	ctor	: 1.15	
Breakdown torque	:	340 %	Temperature rise		: 80 K	
Rated speed	:	1470 rpm	Design		: B	
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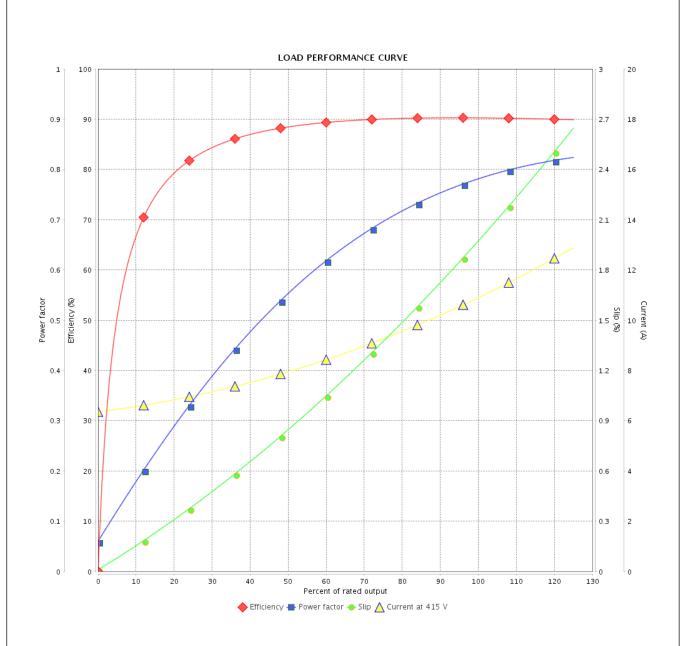
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Phase

Catalog #: 01018ET3E215JM-W22

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Performance : 415 V 50 Hz 4P IE3 : 10.9 A Rated current Moment of inertia (J) : 1.51 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : 26.8 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.15 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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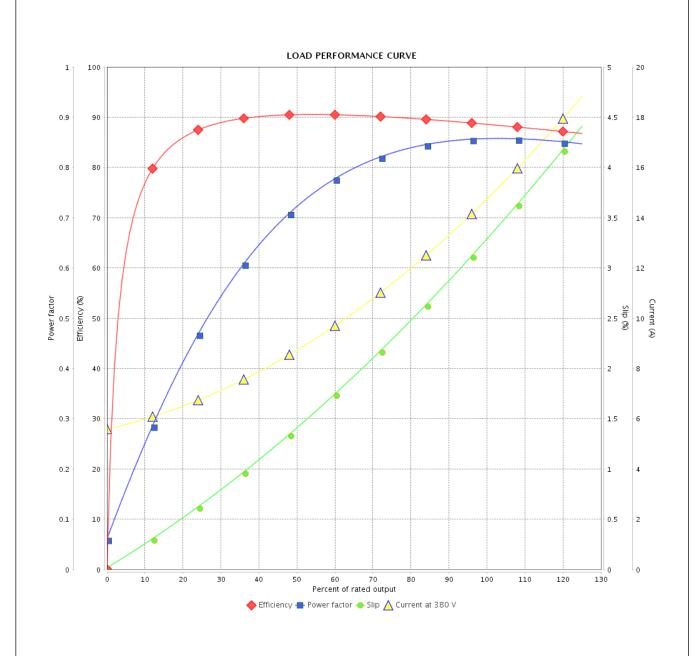
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Performance	: 380	V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	ue : 150 le : 220	2 ft.lb) %	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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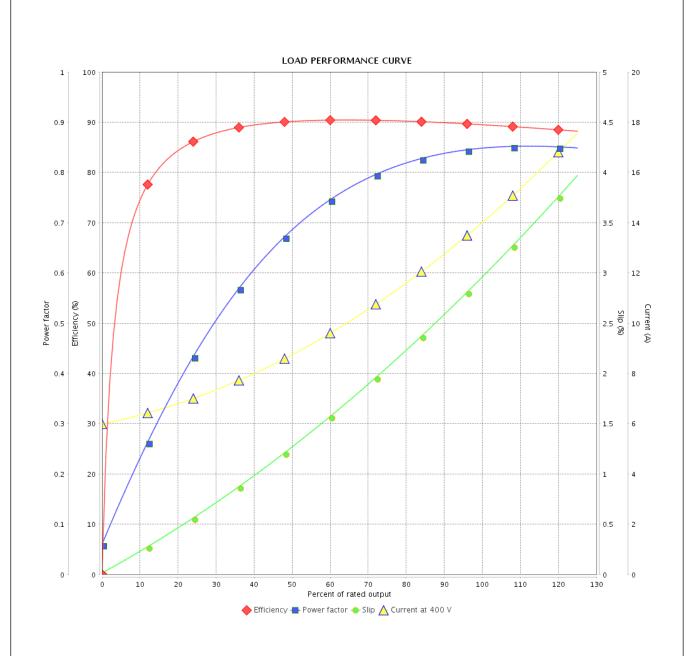


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11766656

Phase

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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 Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.51 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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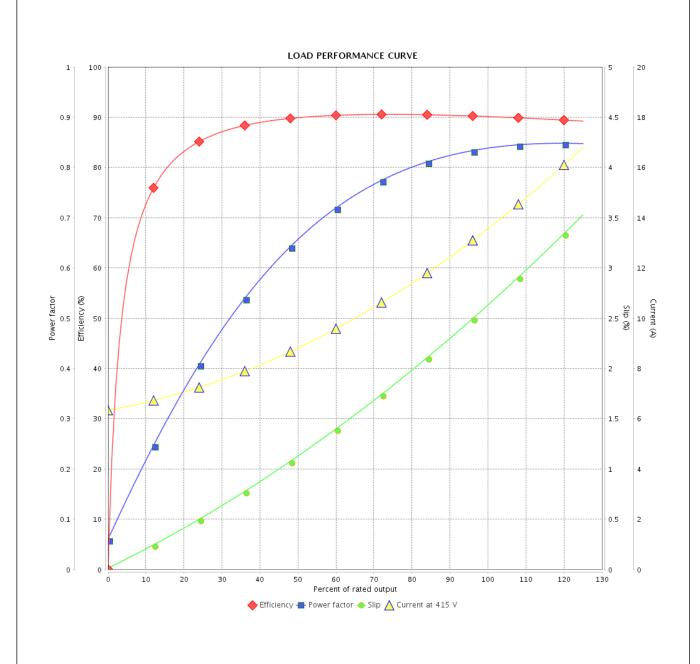


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11766656

Phase

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Performance	: 4	115 V 50 Hz 4P IE2				
Rated current	: '	13.8 A	Moment o	f inertia (J)	: 1.51 sq.ft.lb	
LRC	: 6	3.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 3	: 36.0 ft.lb Insulation class		: F : 1.15		
Locked rotor torq			ctor			
Breakdown torqu	e : 2	270 %	Temperature rise		: 80 K	
Rated speed	: 1	1460 rpm	Design		: B	
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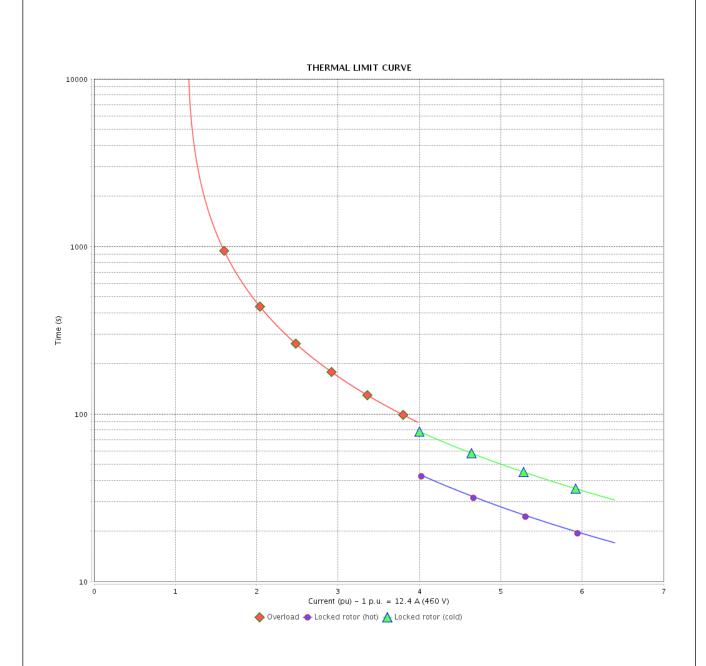


Customer		:			·	
Product line		: NEMA Premium Efficiency	Three	Product code :	11766656	
Product line		Phase				
				Catalog # :	01018ET3E21	15JM-W22
Performance		230/460 V 60 Hz 4P	N4= :: 1	eficante (I)	. 4 e4 6 n	
Rated current LRC		24.8/12.4 A 6.4	Moment of Duty cycle	of inertia (J) e	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque	• •	29.8 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord		200 % 295 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		1765 rpm	Design		: B	
Heating constan	t					
Cooling constan						
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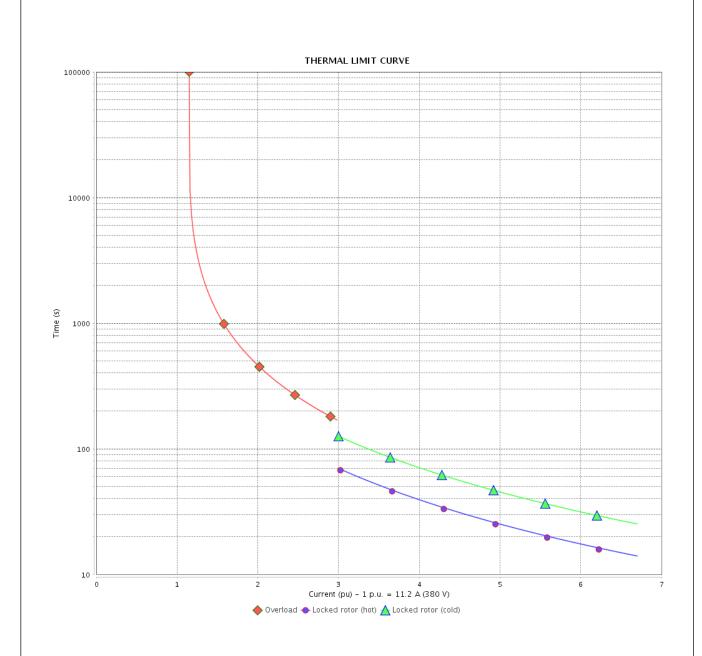


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11766656	
	Pl	hase		Catalog # :	01018ET3E2 ⁻	15JM-W22
Performance	: 38	30 V 50 Hz 4P IE3				
Rated current	: 11	1.2 A	Moment o	f inertia (J)	: 1.51 sq.ft.lb	
LRC Rated torque	: 6. : 26	7 6.9 ft.lb	Duty cycle Insulation	: class	: Cont.(S1) : F	
Locked rotor torque	: 20	00 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed		00 % 465 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant		•				
Cooling constant						
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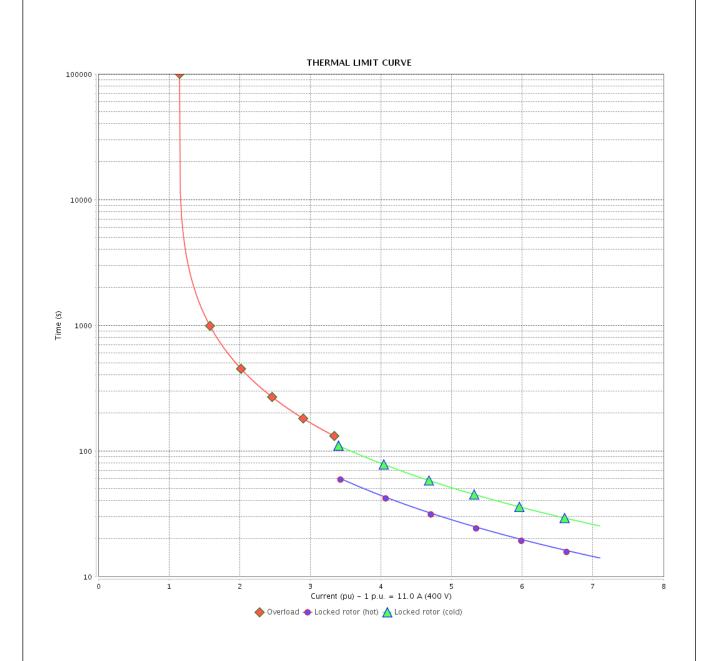


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11766656 01018ET3E2 ²	15JM-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC		: 11.0 A : 7.1	Moment o	of inertia (J)	: 1.51 sq.ft.lb	
Rated torque		: 26.8 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torg		: 240 % : 340 %	Service fa		: 1.15 : 80 K	
Breakdown torqu Rated speed		: 340 % : 1470 rpm	Temperat Design	uie lise	: 80 K : B	
Heating constan						
Cooling constant	t					
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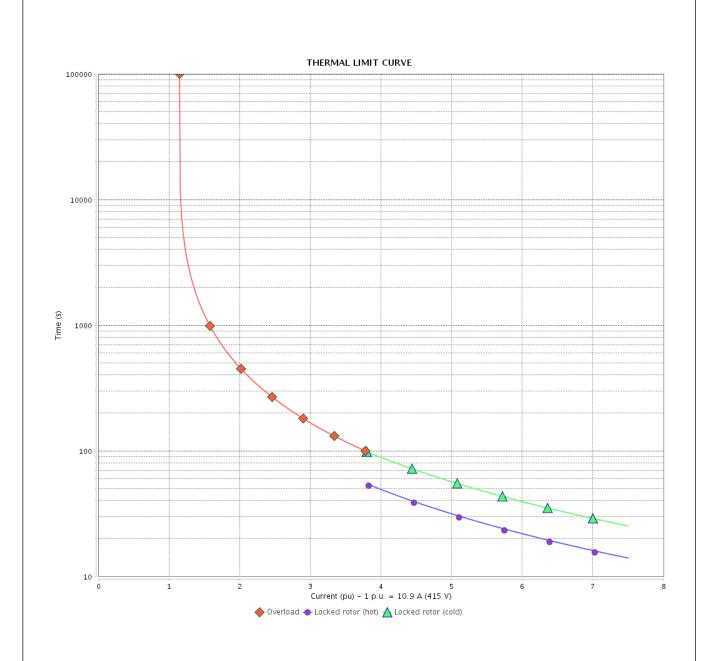


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	Γhree- F	Product code :	11766656	
Phase	(Catalog # :	01018ET3E2 ⁻	15JM-W22
415 V 50 Hz 4P IF3				
415 V 50 Hz 4P IE3	Moment of	inertia (J)	: 1.51 sq.ft.lb	
10.9 A 7.5	Duty cycle		: Cont.(S1)	
10.9 A 7.5 26.8 ft.lb 260 %	Duty cycle Insulation of Service fac	class ctor	: Cont.(S1) : F : 1.15	
10.9 A 7.5 26.8 ft.lb 260 % 360 %	Duty cycle Insulation of Service factor Temperature	class ctor	: Cont.(S1) : F : 1.15 : 80 K	
10.9 A 7.5 26.8 ft.lb 260 %	Duty cycle Insulation of Service fac	class ctor	: Cont.(S1) : F : 1.15	
10.9 A 7.5 26.8 ft.lb 260 % 360 %	Duty cycle Insulation of Service factor Temperature	class ctor	: Cont.(S1) : F : 1.15 : 80 K	
10.9 A 7.5 26.8 ft.lb 260 % 360 % 1470 rpm	Duty cycle Insulation of Service factor Temperature	class ctor	: Cont.(S1) : F : 1.15 : 80 K	Date
10.9 A 7.5 26.8 ft.lb 260 % 360 %	Duty cycle Insulation of Service factor Temperature	class ctor re rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
10.9 A 7.5 26.8 ft.lb 260 % 360 % 1470 rpm	Duty cycle Insulation of Service factor Temperature	class ctor re rise	: Cont.(S1) : F : 1.15 : 80 K : B	Date
	: NEMA Premium Efficiency T Phase	Phase		Phase

Three Phase Induction Motor - Squirrel Cage



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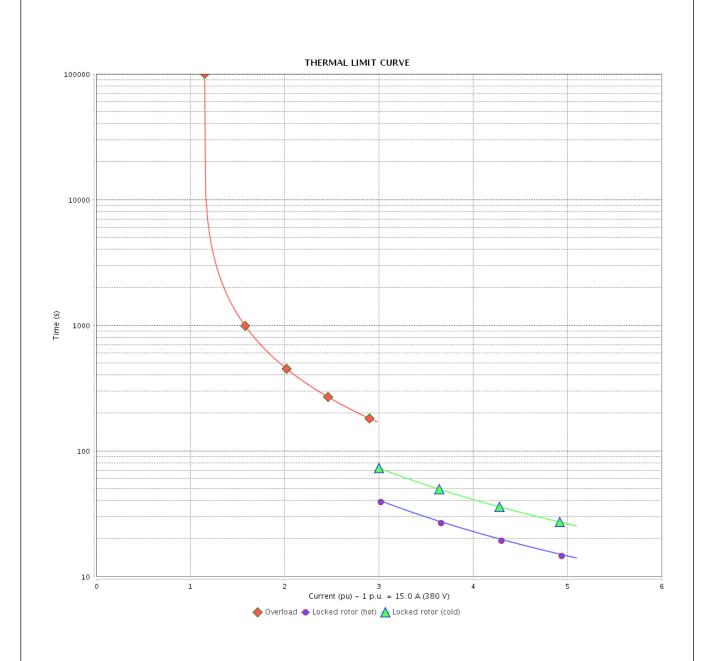


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11766656	
	Pl	hase		Catalog # :	01018ET3E2 ⁻	15JM-W22
Performance	: 38	80 V 50 Hz 4P IE1				
Rated current		5.0 A	Moment o	f inertia (J)	: 1.51 sq.ft.lb	
LRC Rated torque	: 5. : 36	.1 6.2 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor torque	e : 18	50 %	Service fa	ctor	: 1.15	
Breakdown torque Rated speed		20 % 450 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant		•				
Cooling constant						
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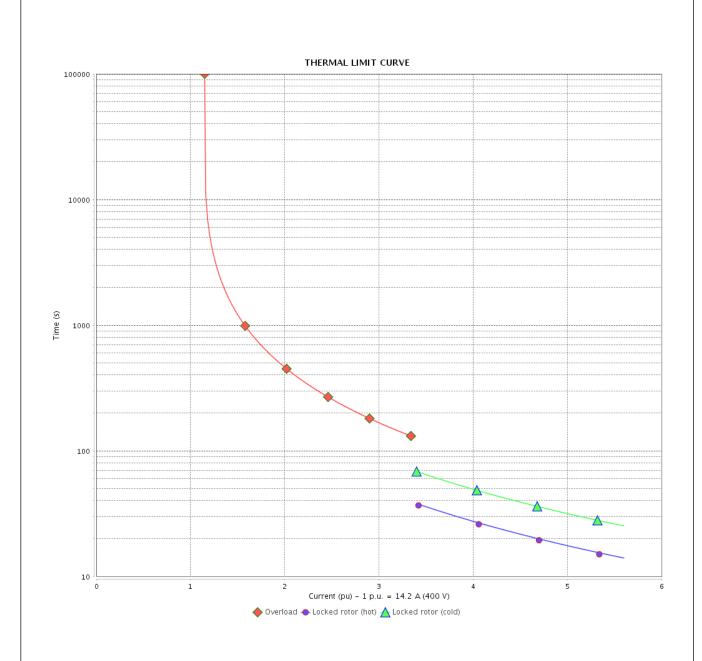


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11766656 01018ET3E2	15JM-W22
Performance	:	400 V 50 Hz 4P IE2				
Rated current LRC		14.2 A 5.6	Moment of Duty cycle	of inertia (J)	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque		36.1 ft.lb 180 %	Insulation Service fa	class	: F : 1.15	
Breakdown torque	e :	250 %	Temperat		: 80 K	
Rated speed		1455 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage

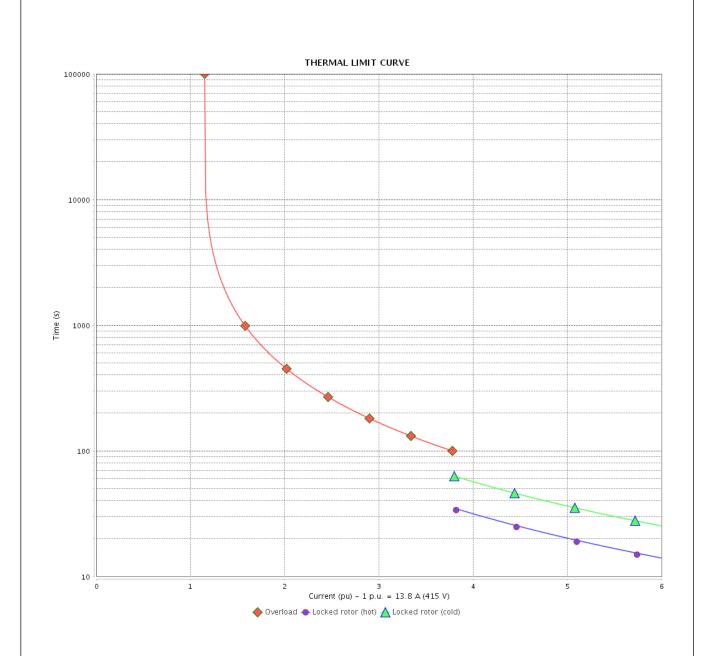


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11766656 01018ET3E2 ²	5JM-W22
Performance		: 415 V 50 Hz 4P IE2				
Rated current LRC		: 13.8 A : 6.0	Moment of Duty cycle	of inertia (J) e	: 1.51 sq.ft.lb : Cont.(S1)	
Rated torque		: 36.0 ft.lb : 190 %	Insulation Service fa	class	: F	
Locked rotor tord Breakdown torqu		: 190 %	Temperat		: 1.15 : 80 K	
Rated speed		: 1460 rpm	Design		: B	
Heating constan						
Cooling constan Rev.	T.	Changes Summary		Performed	Checked	Date
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Product line : NEMA Premium Efficiency Three-

Phase

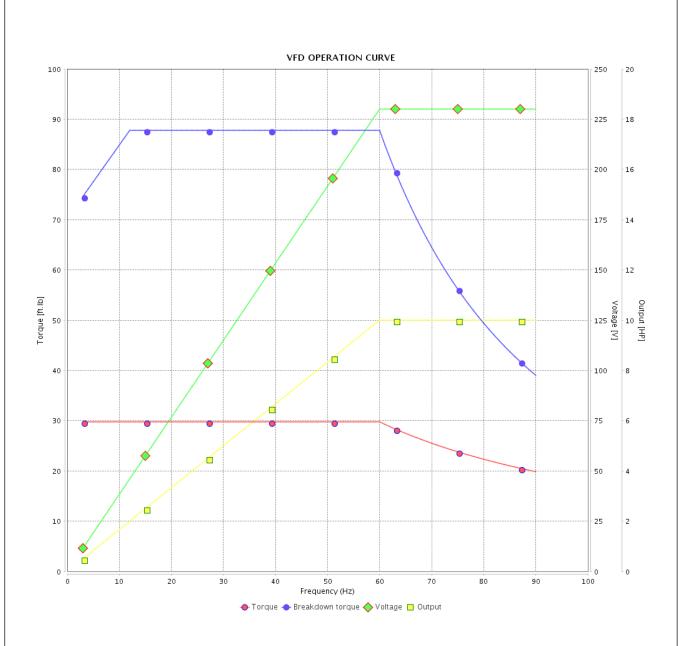
Product code: 11766656

Catalog #: 01018ET3E215JM-W22

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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 Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



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Date

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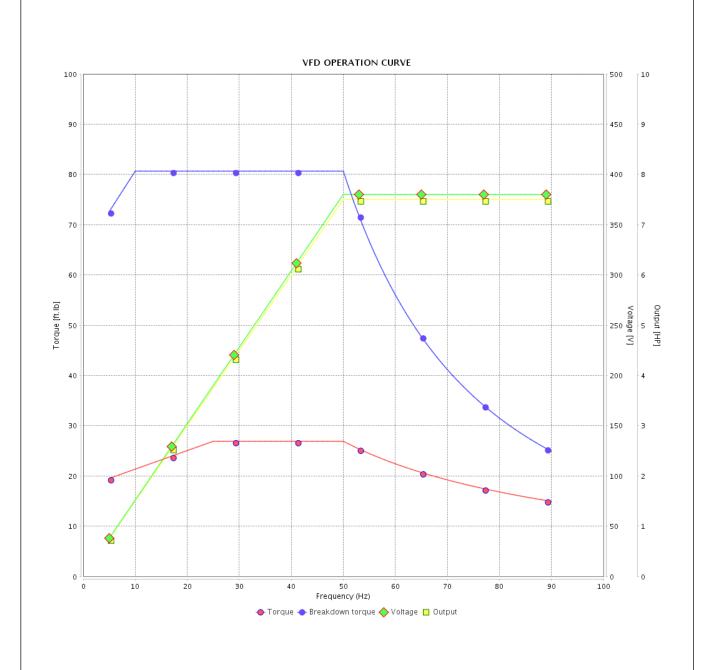
Product line : NEMA Premium Efficiency Three- Product code :

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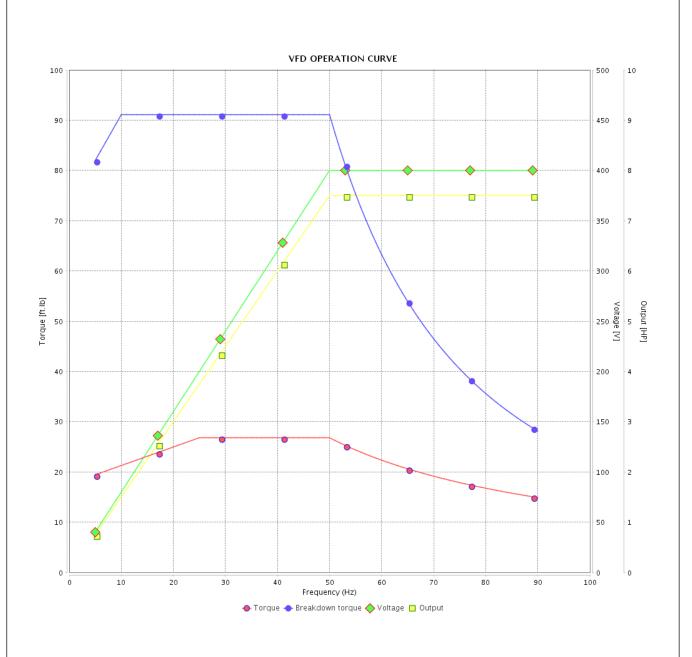
Product line : NEMA Premium Efficiency Three- Product line : NEMA Pr

Phase

Product code: 11766656

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

Three Phase Induction Motor - Squirrel Cage



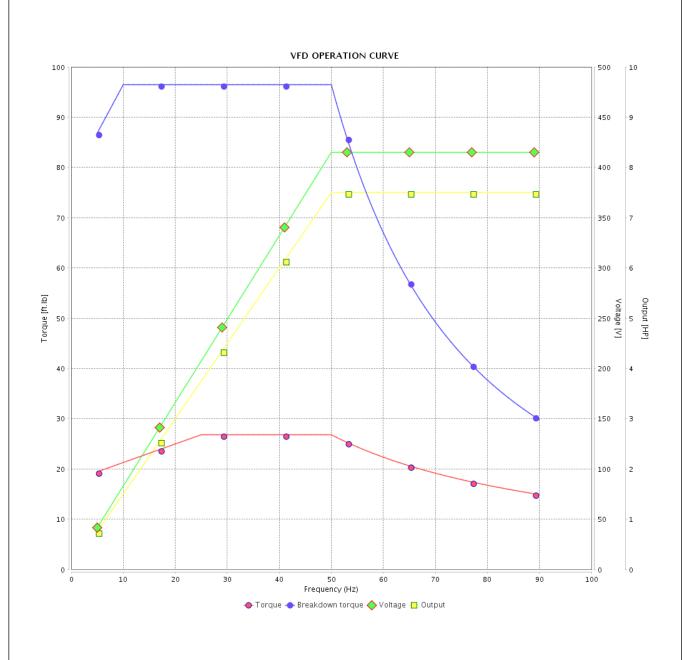
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11766656

Phase

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Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 10.9 A : 7.5 : 26.8 ft.lb : 260 % : 360 % : 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	
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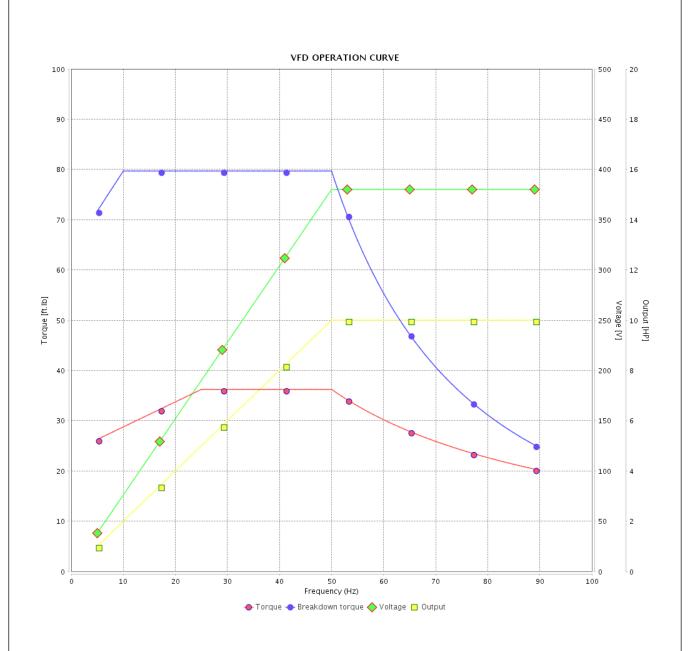
Product line : NEMA Premium Efficiency Three- Product code :

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11766656



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

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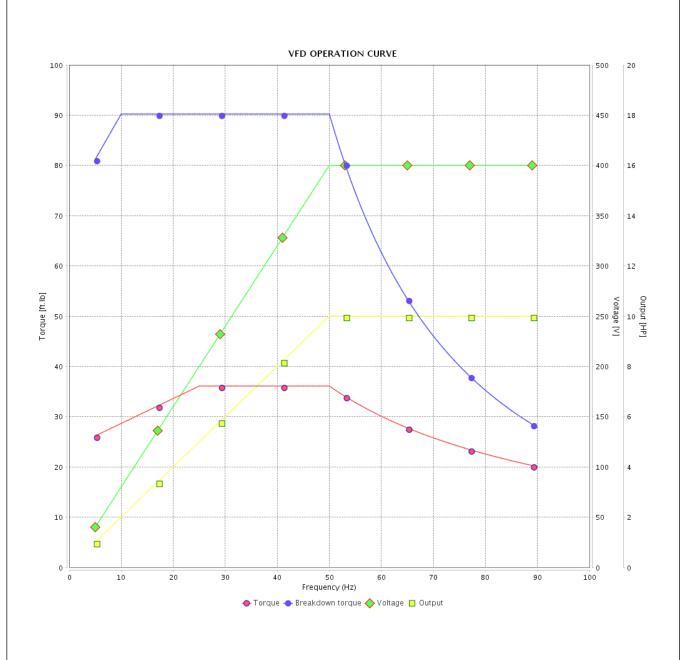


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11766656

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Performance	: •	400 V 50 Hz 4P IE2				
Rated current	:	14.2 A	Moment o	Moment of inertia (J)		
LRC	:	5.6	Duty cycle	;	: Cont.(S1)	
Rated torque	:	36.1 ft.lb	Insulation	class	: F	
Locked rotor torque	e :	180 %	Service factor		: 1.15	
Breakdown torque	::	250 %	Temperati	Temperature rise		
Rated speed	:	1455 rpm	Design	Design		
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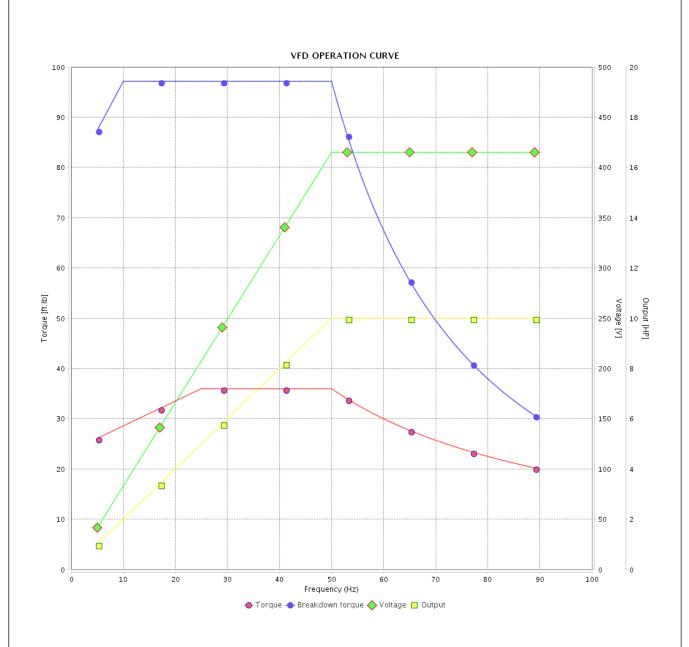
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11766656

Catalog #: 01018ET3E215JM-W22



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

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