### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11355340

Phase

76.0/38.0

Catalog #: 10018ET3E405T-W22

37.6

0.82

0.86

0.88

G)

40.1

0.79

0.85

0.88

42.0

0.77

0.84

0.87

Frame : 404/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

37.6

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 : 1171 lb

Protection degree : IP55 Moment of inertia (J) : 29.9 sq.ft.lb

Protection degree : IP55
Design : B

No load current [A]

Power Factor

Output [HP] 100 75 75 75 100 100 100 Poles 4 4 4 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 230/460 400 415 380 400 380 415 Rated current [A] 226/113 102 98.3 138 95.9 131 127 L. R. Amperes [A] 1650/825 814 902 785 826 854 852 LRC [A] 7.3x(Code H)7.7x(Code H)8.4x(Code J)8.9x(Code K)5.9x(Code F) 6.5x(Code 7.1x(Code H)

i to load odilolit p t	3	1 0.0/00.0	01.0		0	00		0
Rated speed [RPN	Л]	1780	1485	1485	1485	1470	1475	1475
Slip [%]		1.11	1.00	1.00	1.00	2.00	1.67	1.67
Rated torque [ft.lb]	]	295	265	265	265	357	356	356
Locked rotor torqu	ie [%]	240	260	280	290	190	210	220
Breakdown torque	: [%]	260	280	310	330	210	229	250
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		23s (cold)	16s (cold)					
		13s (hot)	9s (hot)	9s (hot)	9s (hot)	9s (hot)	9s (hot)	9s (hot)
Noise level <sup>2</sup>		68.0 dB(A)	64.0 dB(A)					
	25%	94.6	93.4	93.3	93.0	94.8	94.7	94.4
Efficiency (%)	50%	95.0	94.0	93.9	93.6	94.5	94.5	94.5
Lincichoy (70)	75%	95.0	94.4	94.5	94.5	94.1	94.5	94.5
	100%	95.4	95.0	95.0	95.0	93.6	94.1	94.5
	25%	0.51	0.47	0.44	0.41	0.57	0.53	0.51

0.69

0.81

0.85

40.1

42.0

0.66

0.79

0.84

<u>Drive end</u> <u>Non drive end</u> Foundation loads
Bearing type : 6316 C3 6314 C3 Max traction

0.77

0.84

0.87

Bearing type : 6316 C3 6314 C3 | Max. traction : 2086 lb Sealing : WSeal | WSeal | Max. compression : 3257 lb Lubrication interval : 10000 h

0.72

0.83

0.86

Lubricant amount : 34 g 27 g
Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 245A SF 1.10 SFA 270A

50%

75%

100%

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

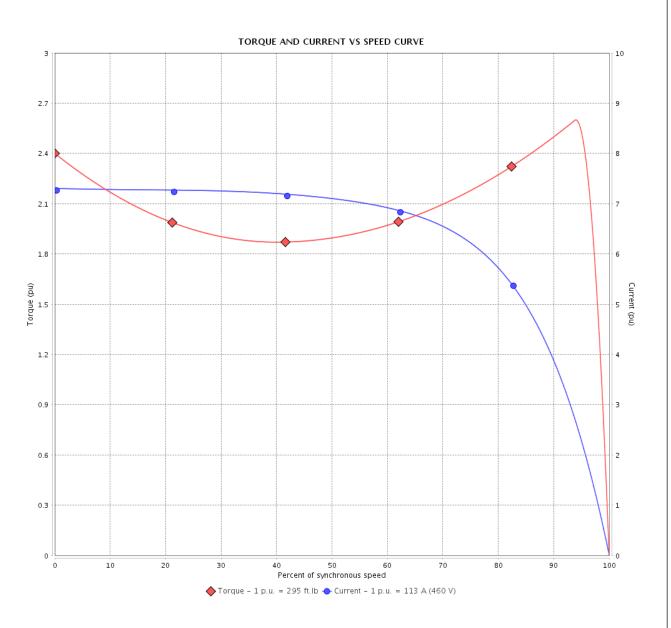


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11355340

Phase

Catalog #: 10018ET3E405T-W22



Performance : 230/460 V 60 Hz 4P Rated current : 226/113 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 295 ft.lb : F Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11355340 Catalog #: 10018ET3E405T-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 265 ft.lb ◆ Current - 1 p.u. = 102 A (380 V) Performance : 380 V 50 Hz 4P IE3 Rated current : 102 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : 265 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Locked rotor time : 16s (cold) 9s (hot) Rev. **Changes Summary** Performed Checked Date

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#### Three Phase Induction Motor - Squirrel Cage



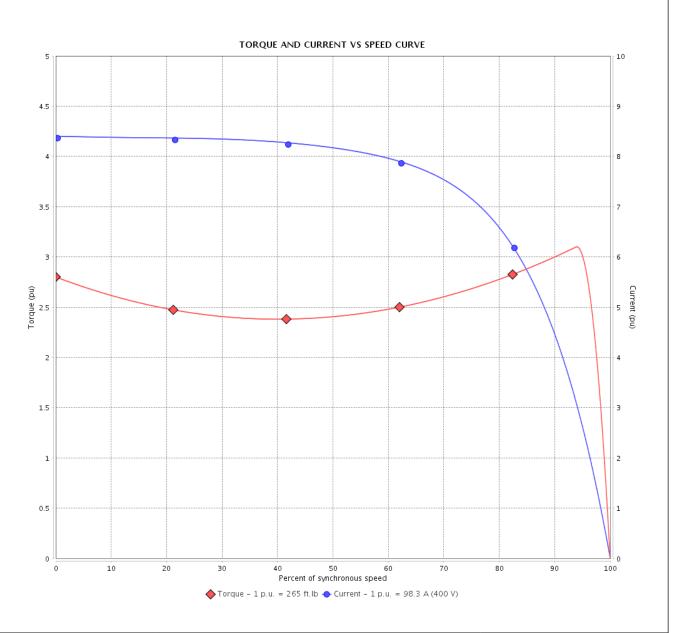
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10018ET3E405T-W22

11355340



: 400 V 50 Hz 4P IE3 Performance Rated current : 98.3 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) : 265 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 280 % : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11355340 Catalog #: 10018ET3E405T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 265 ft.lb ◆ Current - 1 p.u. = 95.9 A (415 V)

Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 95.9 A	Moment of inertia (J)	: 29.9 sq.ft.lb	
LRC	: 8.9	Duty cycle	: Cont.(S1)	
Rated torque	: 265 ft.lb	Insulation class	:F	
Locked rotor torque	: 290 %	Service factor	: 1.00	
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 1485 rpm	Design	: B	
Locked rotor time	: 16s (cold) 9s (hot)			
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LOCKCO TOTOL UITI		93 (cold) 93 (flot)			
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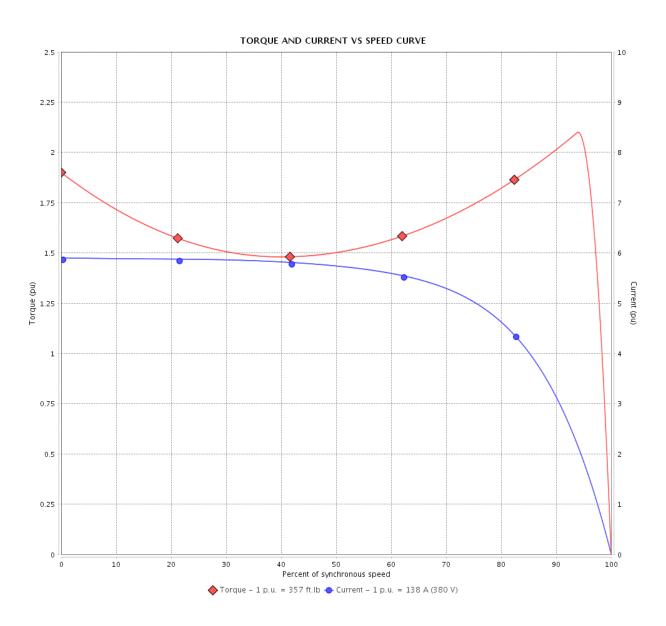
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11355340

Catalog #: 10018ET3E405T-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 138 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 357 ft.lb : F Service factor Locked rotor torque : 190 % : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 1470 rpm Design : B

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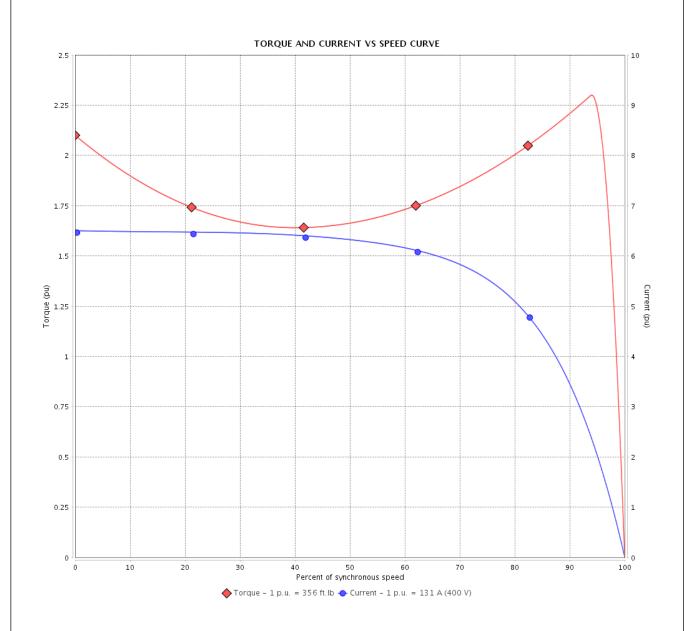


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11355340

Phase

Catalog #: 10018ET3E405T-W22



Performance	: 400 V 50 Hz 4P IE2			
Rated current	: 131 A	Moment of inertia (J)	: 29.9 sq.ft.lb	
LRC	: 6.5	Duty cycle	: Cont.(S1)	
Rated torque	: 356 ft.lb	Insulation class	:F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 105 K	
Rated speed	: 1475 rpm	Design	: B	
Locked rotor time	: 16s (cold) 9s (hot)	I		

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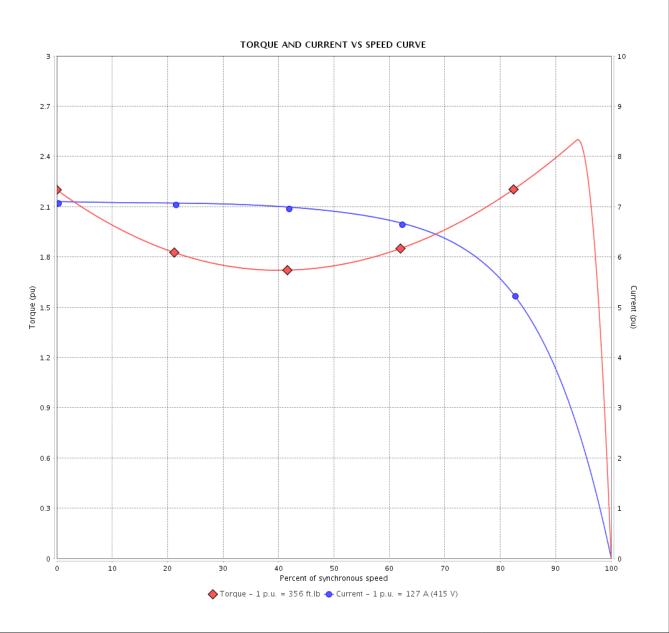
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11355340

Catalog #: 10018ET3E405T-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 127 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 356 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 1475 rpm Design : B

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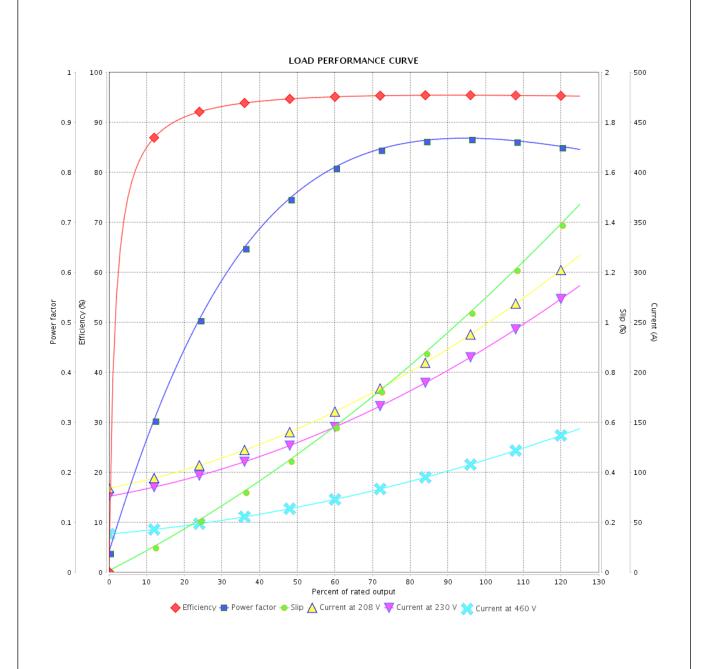


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11355340

Phase

Catalog #: 10018ET3E405T-W22



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: 2	226/113 A	Moment o	f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 7	7.3	Duty cycle		: Cont.(S1)	
Rated torque	: 2	295 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	240 %	Service fa	ctor	: 1.25	
Breakdown torque : 260 %		260 %	Temperati	Temperature rise : 80		
Rated speed	: '	1780 rpm	Design		: B	
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Date

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Product line : NEMA Premium Efficiency Three- Produ

Phase

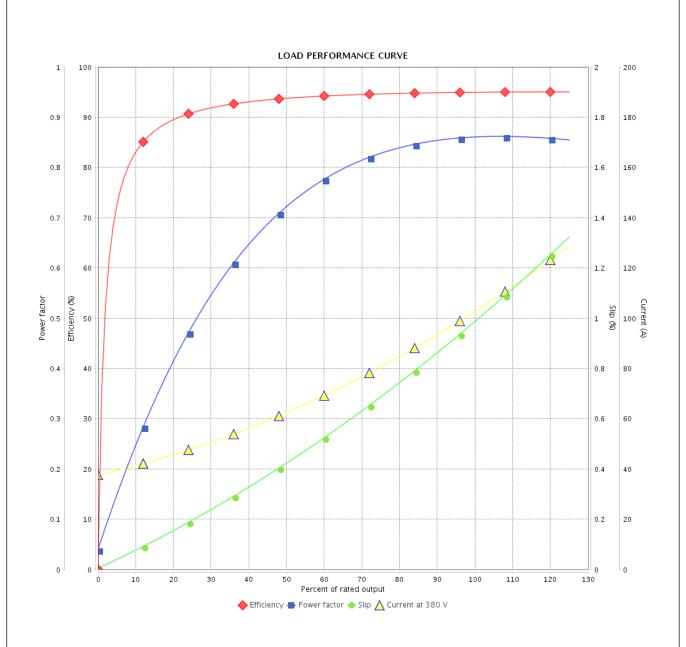
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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 102 A : 7.7 : 265 ft.lb : 260 % : 280 % : 1485 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

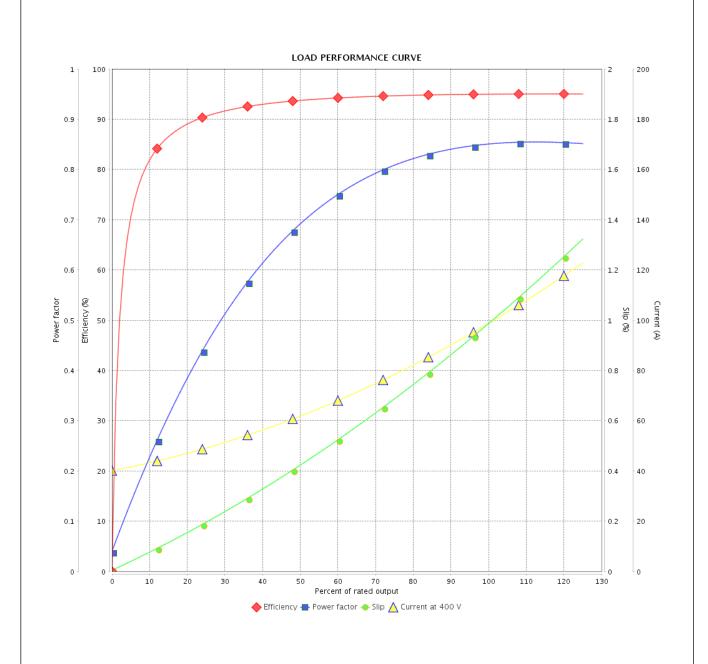


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11355340

Phase

Catalog #: 10018ET3E405T-W22



Performance	:	400 V 50 Hz 4P IE3				
Rated current	: 98.3 A Moment of		f inertia (J)	: 29.9 sq.ft.lb		
LRC	:	8.4	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	::	265 ft.lb	Insulation	class	: F	
Locked rotor torque : 280		280 %	Service fa	ctor	: 1.00	
Breakdown torque	:	310 % Temperature rise		ıre rise	: 80 K	
Rated speed	:	1485 rpm	Design		: B	
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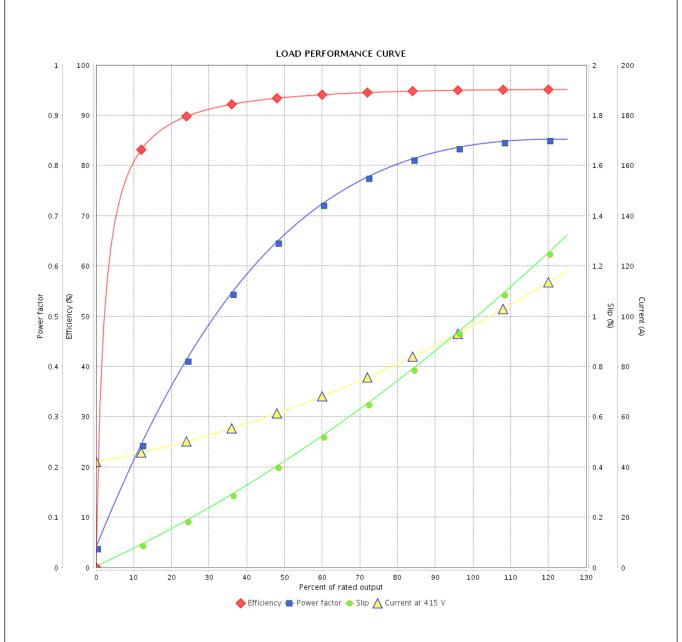
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11355340

Catalog #: 10018ET3E405T-W22



Performance	: 415 V 50 Hz 4P IE3				
Rated current : 95.9 A Moment of inertia		` '	: 29.9 sq.ft.lb		
LRC	: 8.9	Duty cycle	9	: Cont.(S1)	
Rated torque	: 265 ft.lb	Insulation class Service factor		: F	
Locked rotor torque	: 290 %			: 1.00	
Breakdown torque	: 330 % Temperature		ure rise : 80 K	: 80 K	
Rated speed	: 1485 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



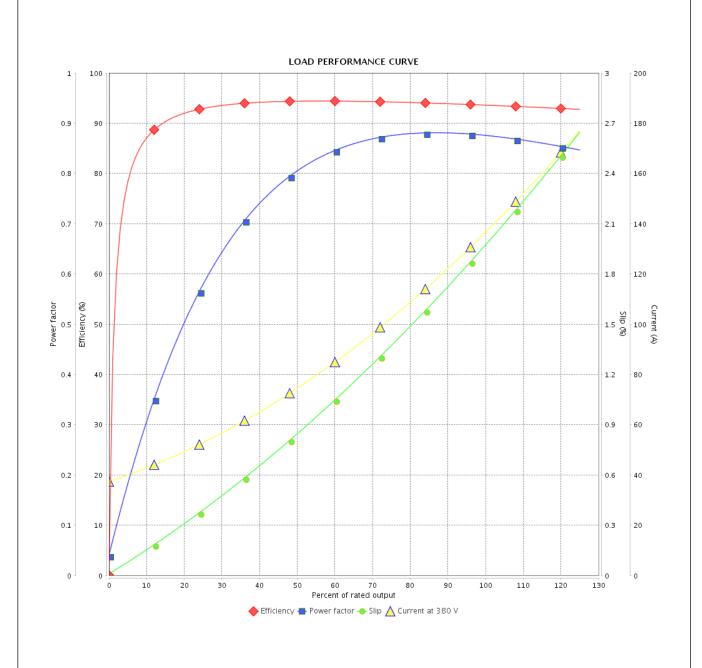
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10018ET3E405T-W22

11355340



Performance	: 3	380 V 50 Hz 4P IE1				
Rated current	: 138 A Moment o		f inertia (J)	: 29.9 sq.ft.lb		
LRC	: 5	5.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 3	357 ft.lb	Insulation	class	: F	
Locked rotor torque	Locked rotor torque : 190 % Service f		Service fa	ctor	: 1.00	
Breakdown torque	: 2	210 %	Temperature rise		: 105 K	
Rated speed	: ′	1470 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



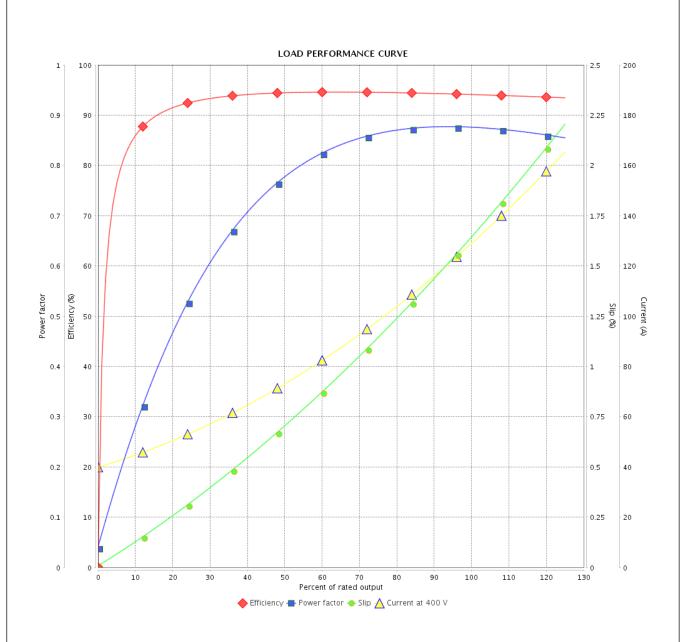
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11355340

Catalog #: 10018ET3E405T-W22



Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque	: 131 A : 6.5 : 356 ft.lb : 210 %	Service factor Temperature rise		: 29.9 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 210 % : 229 % : 1475 rpm			: 1.00 : 105 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



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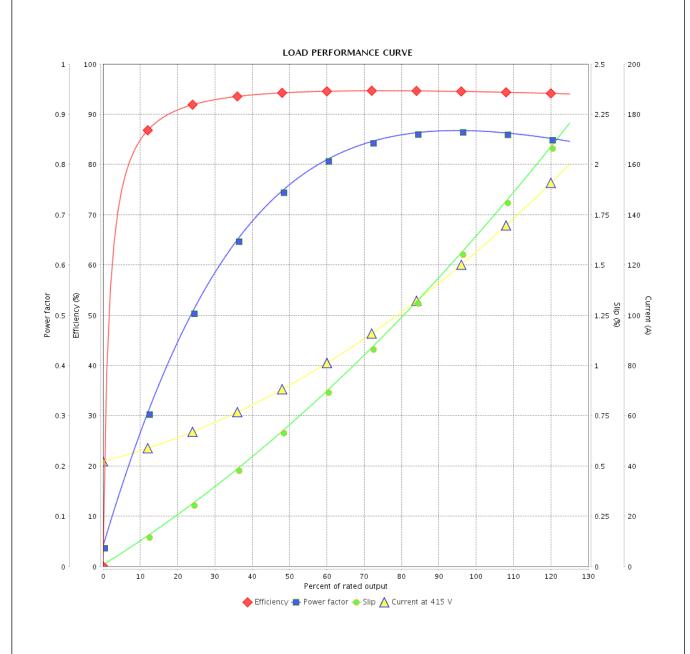
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 10018ET3E405T-W22

11355340

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Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 127 A : 7.1 : 356 ft.lb : 220 % : 250 % : 1475 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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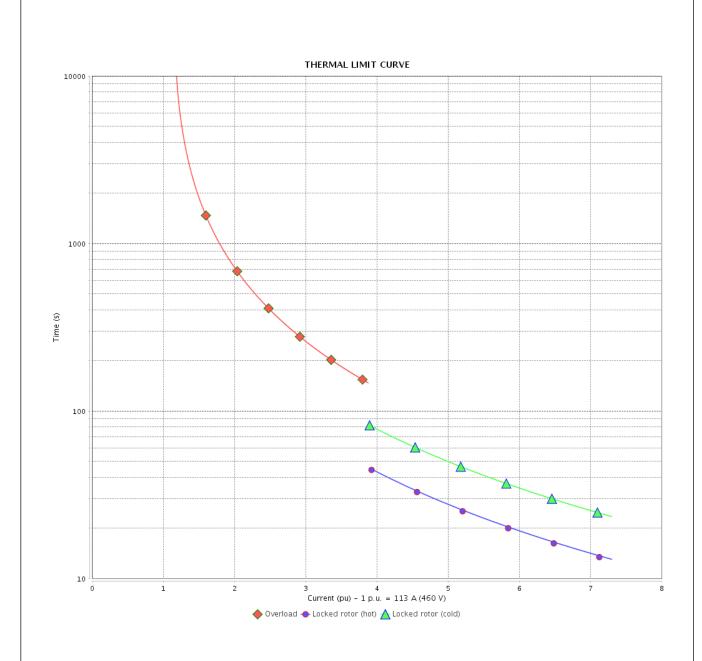


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11355340	
	P	hase		Catalog # :	10018ET3E40	)5T-W22
D. (		20/400 \ / 00 \ \ . 4D				
Performance Rated current		30/460 V 60 Hz 4P 26/113 A	Moment o	f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 7.	3	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque Locked rotor torq		95 ft.lb 40 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	e : 26	60 %	Temperatu		: 80 K	
Rated speed		780 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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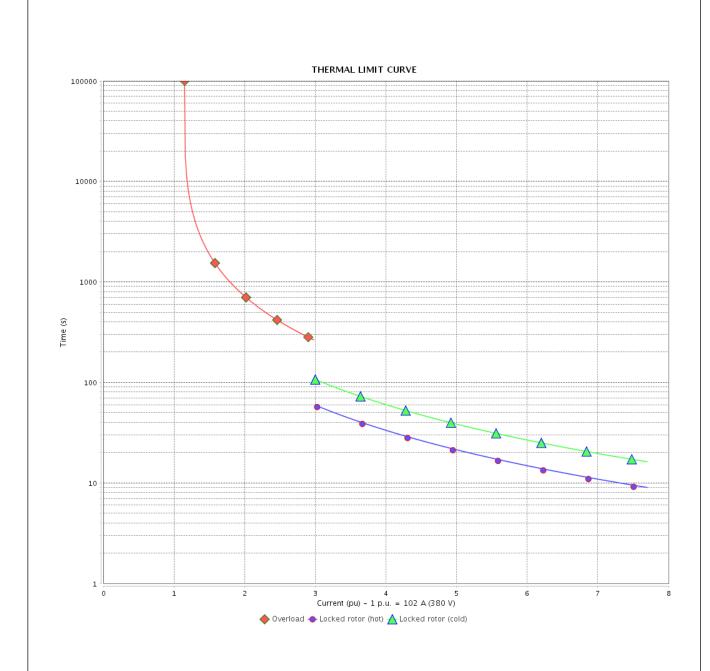


Customer		:				
Product line		: NEMA Premium Efficiency Phase	Three-	Product code :	11355340	
		Tildac		Catalog # :	10018ET3E40	)5T-W22
Performance		: 380 V 50 Hz 4P IE3				
Rated current		: 102 A	Moment of	of inertia (J)	: 29.9 sq.ft.lb	
LRC		: 7.7 : 265 ft.lb	Duty cycle Insulation	е	: Cont.(S1) : F	
Rated torque Locked rotor tord		: 260 %	Service fa		: F : 1.00	
Breakdown torqu	ie	: 280 %	Temperat		: 80 K	
Rated speed		: 1485 rpm	Design		: B	
Heating constan						
Cooling constant	t	Change - O		Do-t	Ob l l	D-4-
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

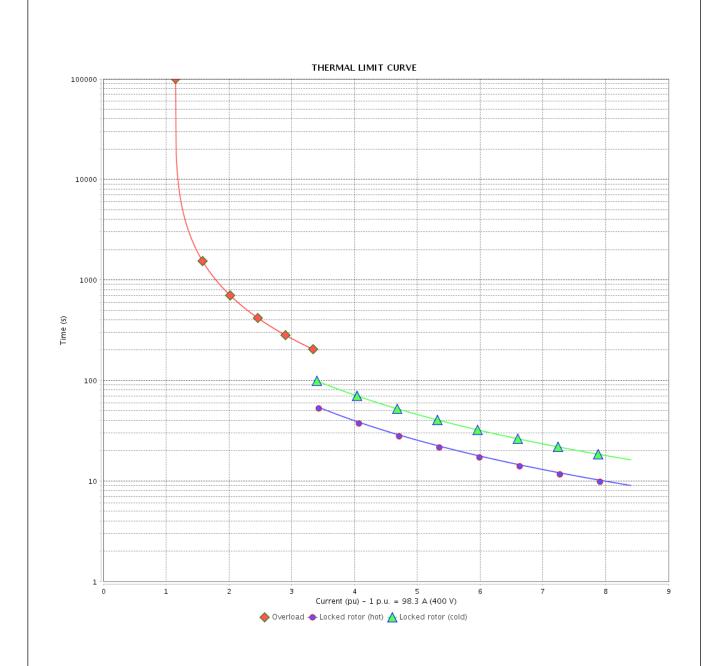


Customer	:	:			·	
Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code : Catalog # :	11355340 10018ET3E4	05T-W22
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: ( : ; jue : ; je : ;	400 V 50 Hz 4P IE3 98.3 A 8.4 265 ft.lb 280 % 310 % 1485 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

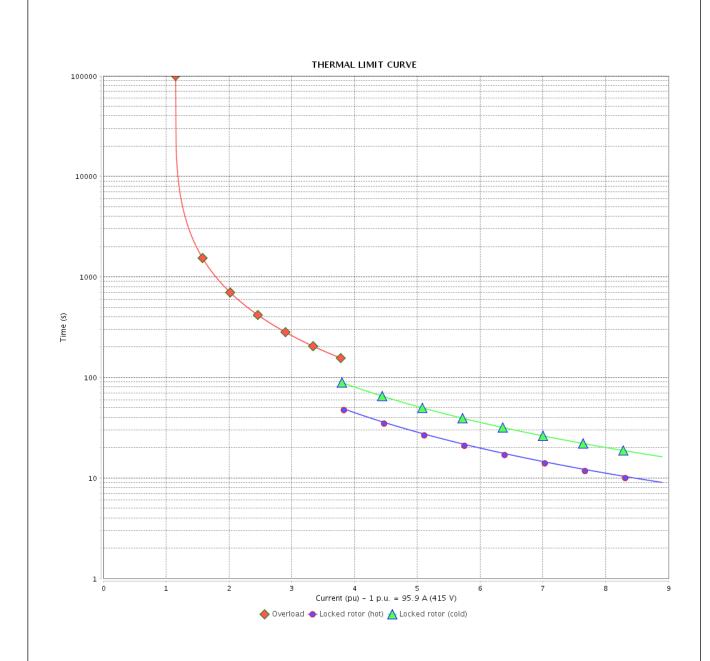


Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	11355340 10018ET3E4	05T-W22
Dorformana	· 415 V 50 Hz 4D IE2				
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 415 V 50 Hz 4P IE3 : 95.9 A : 8.9 : 265 ft.lb : 290 % : 330 % : 1485 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

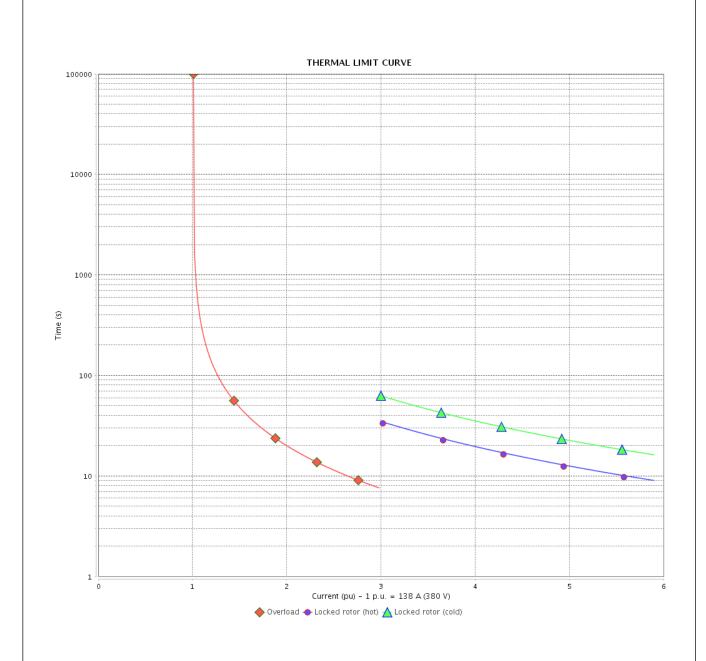


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11355340 10018ET3E40	)5T-W22
					10010210210	701 1122
Performance		: 380 V 50 Hz 4P IE1	1			
Rated current LRC		: 138 A : 5.9	Moment of Duty cycle	of inertia (J) e	: 29.9 sq.ft.lb : Cont.(S1)	
Rated torque		: 357 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 190 % : 210 %	Service fa Temperat		: 1.00 : 105 K	
Rated speed		: 1470 rpm	Design		: B	
Heating constan						
Cooling constant	t	Characa Communication		De-re-	Ohl l	D-4-
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

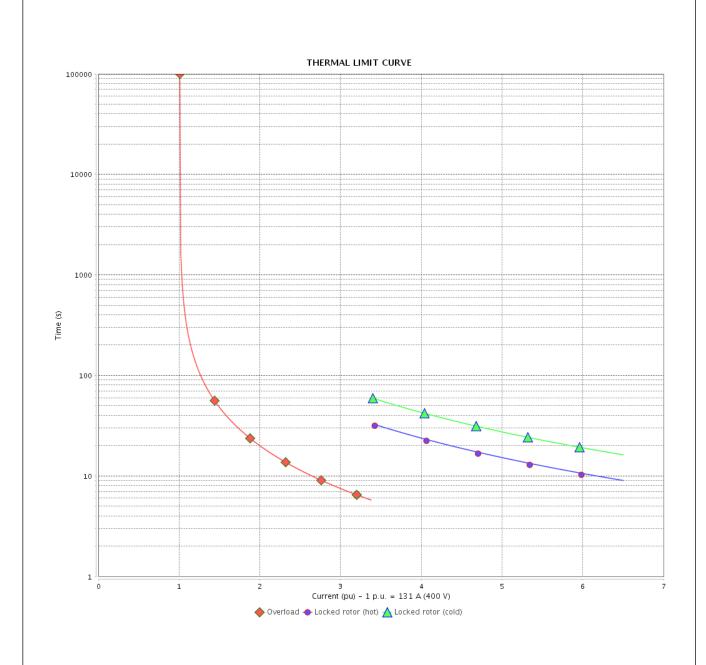


Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	11355340	
		Phase		Catalog # :	10018ET3E4	05T-W22
Performance		400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: : : : : : : : :	131 A 6.5 356 ft.lb 210 % 229 % 1475 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant						
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



Customer



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### Three Phase Induction Motor - Squirrel Cage

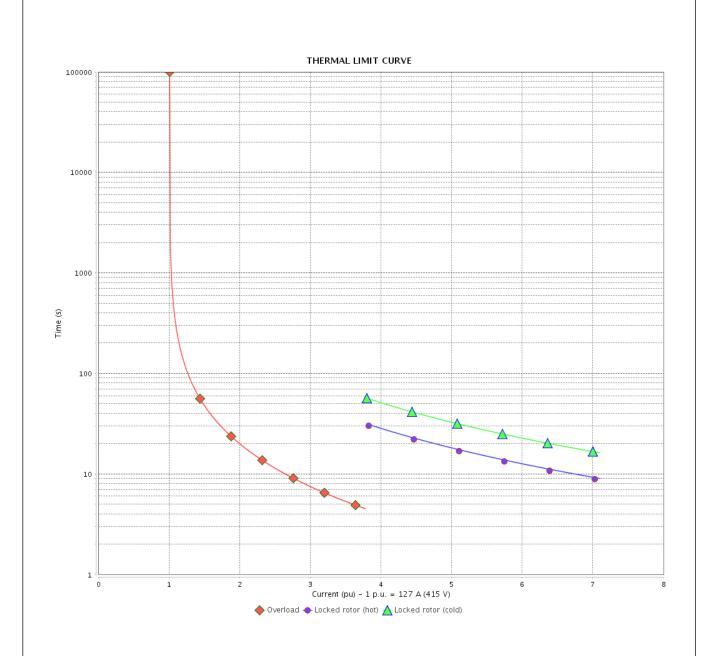


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11355340	
	PI	hase		Catalog # :	10018ET3E40	)5T-W22
Performance		15 V 50 Hz 4P IE2				
Rated current LRC	: 12 : 7.	27 A 1	Moment of Duty cycle	f inertia (J)	: 29.9 sq.ft.lb : Cont.(S1)	
Rated torque		56 ft.lb 20 %	Insulation Service fa	class	: F : 1.00	
Locked rotor torque Breakdown torque		50 %	Temperatu		: 1.00 : 105 K	
Rated speed		475 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



Customer



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Date

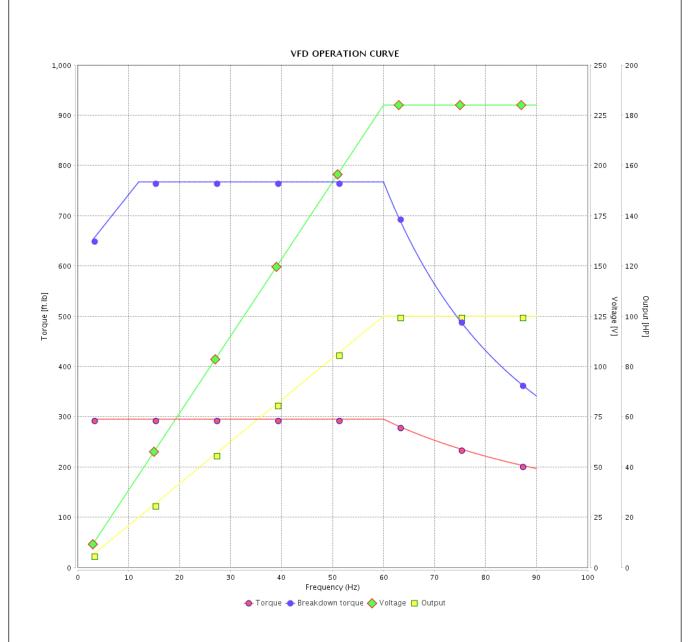
14/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11355340

Catalog #: 10018ET3E405T-W22



Performance : 230/460 V 60 Hz 4P : 226/113 A Rated current Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) : 295 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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#### Three Phase Induction Motor - Squirrel Cage



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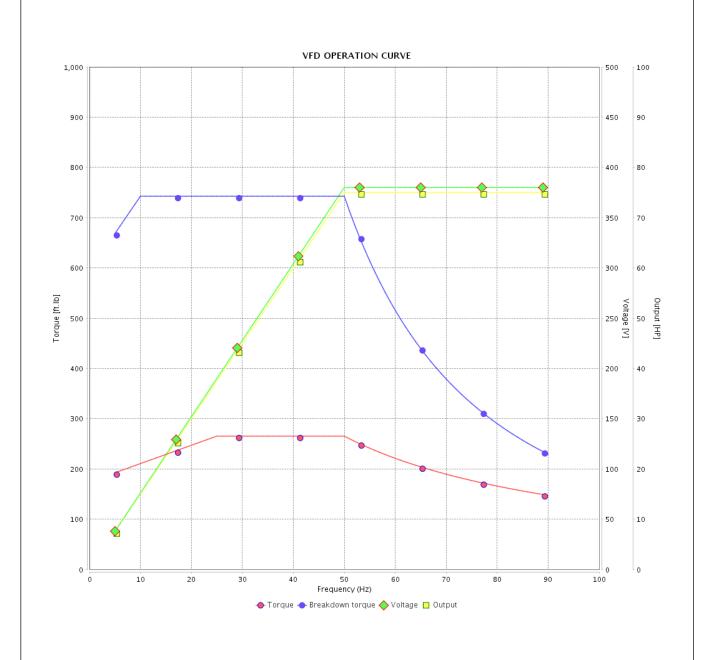
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11355340

Catalog #: 10018ET3E405T-W22

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Performance	: 380 V 50 Hz 4P IE3	50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 102 A : 7.7 : 265 ft.lb : 260 % : 280 % : 1485 rpm	Moment of i Duty cycle Insulation cl Service fact Temperature Design	ass or	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Date

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Product line : NEMA Premium Efficiency Three-

Phase

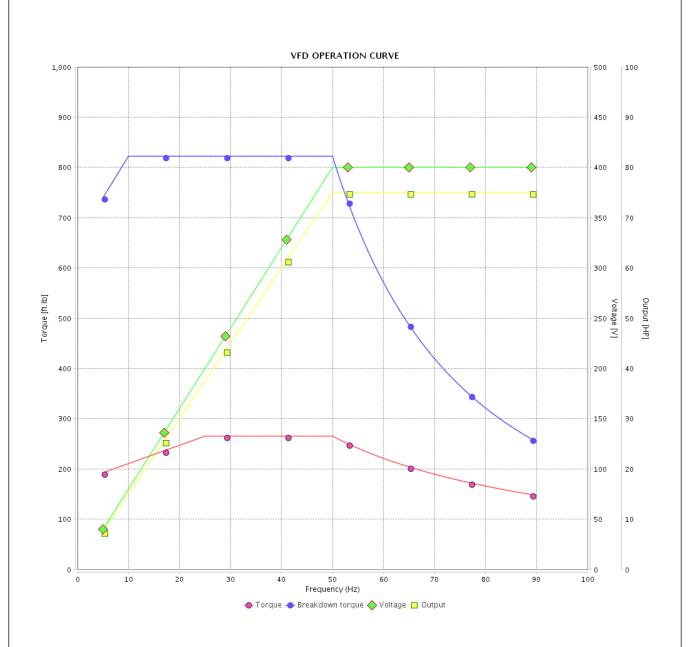
Product code: 11355340

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Performance : 400 V 50 Hz 4P IE3 Rated current : 98.3 A Moment of inertia (J) : 29.9 sq.ft.lb **LRC** : 8.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 265 ft.lb : F Locked rotor torque : 280 % Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



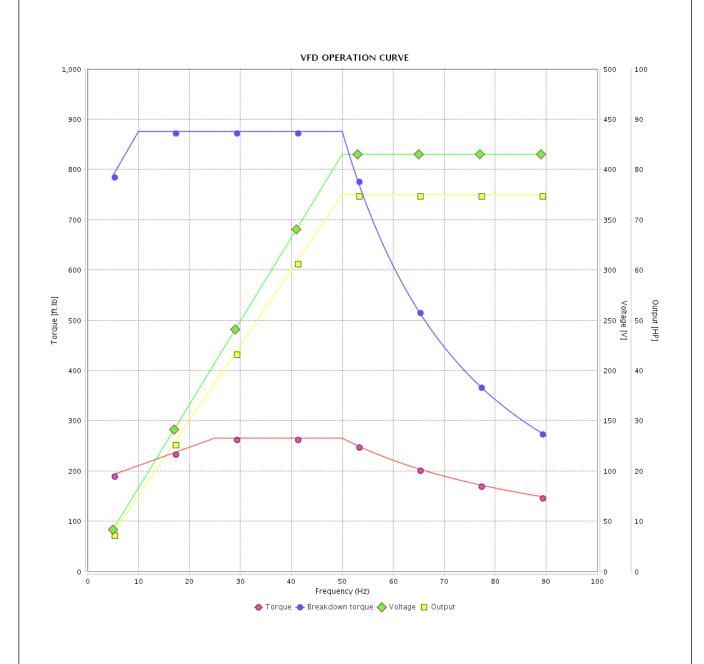
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11355340

Catalog #: 10018ET3E405T-W22



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 9	.9 A Moment of in		f inertia (J)	: 29.9 sq.ft.lb	
LRC	: 8	.9	Duty cycle	)	: Cont.(S1)	
Rated torque	: 2	65 ft.lb	Insulation	class	: F	
Locked rotor torqu	e : 2	90 %	Service fa	ctor	: 1.00	
Breakdown torque	: 3	30 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	485 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



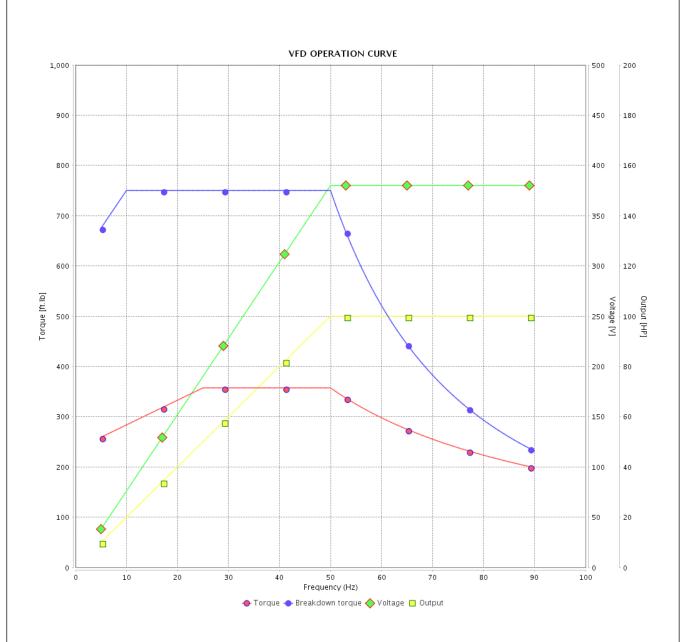
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11355340

Catalog #: 10018ET3E405T-W22



Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 138 A : 5.9 : 357 ft.lb : 190 % : 210 % : 1470 rpm	Moment on Duty cycle Insulation Service fa Temperature Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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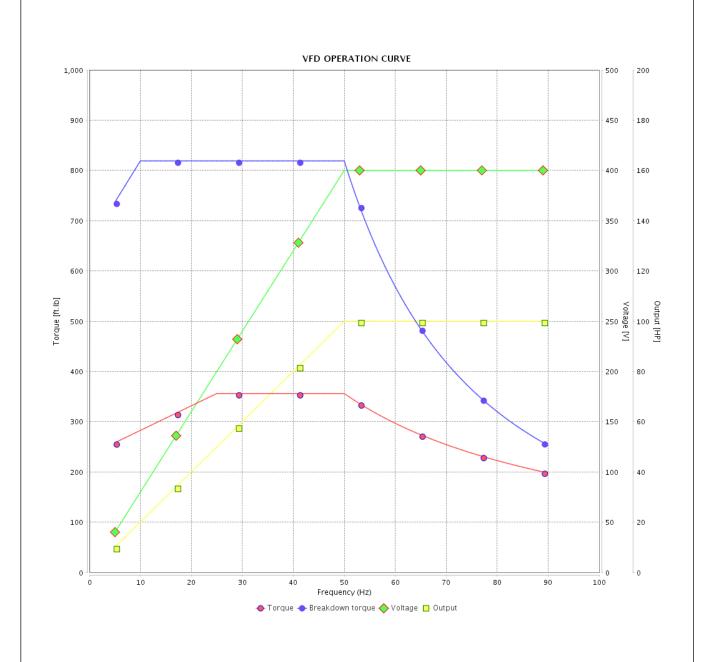
Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11355340

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 131 A : 6.5 : 356 ft.lb : 210 % : 229 % : 1475 rpm	Moment of Duty cycle Insulation of Service fact Temperatu Design	class	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Product line : NEMA Premium Efficiency Three-

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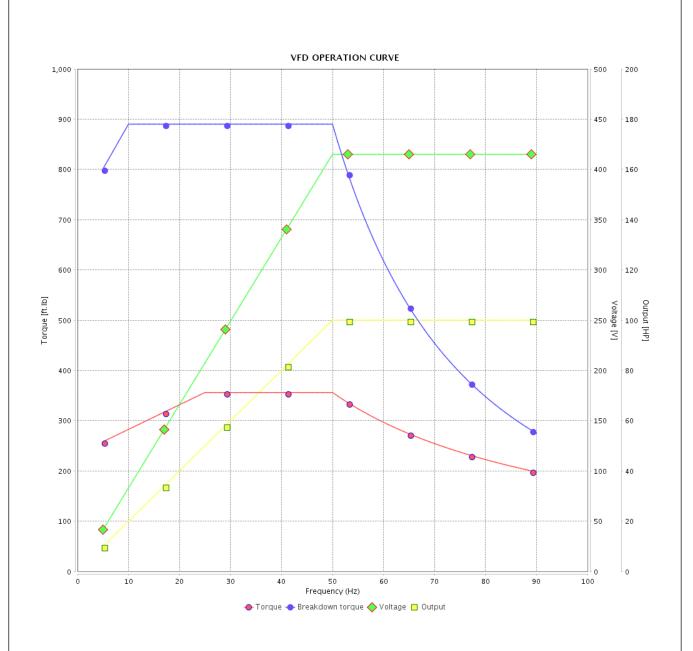
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Performance	: 4	415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	::  ue ::  ie ::	127 A 7.1 356 ft.lb 220 % 250 % 1475 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 29.9 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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