DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11416668

Phase

Catalog #: 00518ET3E184T-W22

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

Insulation class : F | Mounting : F-1 Duty cycle : Cont.(S1) | Rotation¹ : Bot

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)
Ambient temperature : -20°C to +40°C Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight3 : 99.1 lb Altitude Protection degree : IP55 Moment of inertia (J) : 0.4003 sq.ft.lb Design : B Output [HP] 5 4 5 5 4 Poles 4 4 4 4 4 4 4 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 230/460 380 400 380 400 415 415 Rated current [A] 12.9/6.45 6.42 7.74 7.44 6.13 6.14 7.35 L. R. Amperes [A] 96.7/48.4 44.9 47.6 44.9 47.2 50.4 50.7 7.5x(Code J) 7.0x(Code J) 7.7x(Code K) 8.2x(Code L) 5.8x(Code 6.4x(Code H) 6.9x(Code J) LRC [A] G) No load current [A] 6.40/3.20 3.15 3.45 3.70 3.15 3.45 3.70 Rated speed [RPM] 1755 1455 1455 1460 1440 1445 1450 4.00 Slip [%] 2.50 3.00 3.00 2.67 3.67 3.33 Rated torque [ft.lb] 15.0 14.4 14.4 14.4 18.2 18.2 18.1 Locked rotor torque [%] 229 229 260 290 180 210 229 Breakdown torque [%] 320 300 350 380 240 280 300 Service factor 1.25 1.15 1.15 1.15 1.15 1.15 1.15 80 K Temperature rise 80 K 80 K 80 K 80 K 80 K 80 K 21s (cold) Locked rotor time 27s (cold) 21s (cold) 21s (cold) 21s (cold) 21s (cold) 21s (cold) 15s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) Noise level² 56.0 dB(A) 25% 50% 88.5 87.5 86.7 86.5 88.5 87.5 87.5 Efficiency (%) 75% 89.5 88.2 88.2 88.2 87.5 88.5 88.5 100% 89.5 87.7 86.5 87.5 87.5 88.2 88.2

 0.80
 0.81
 0.79
 0.76

 Drive end
 Non drive end
 Foundation loads

0.57

0.71

Bearing type : 6207 ZZ 6206 ZZ Max. traction : 298 lb Sealing : V'Ring V'Ring Max. compression : 397 lb

0.61

0.75

Lubricant amount : -Lubricant type : Mobil Polyrex EM

0.62

0.74

Notes

Power Factor

Lubrication interval

USABLE @208V 14.3A SF 1.15 SFA 16.4A

25%

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.

0.69

0.80

0.84

0.65

0.77

0.82

0.61

0.74

0.80

0.53

0.67

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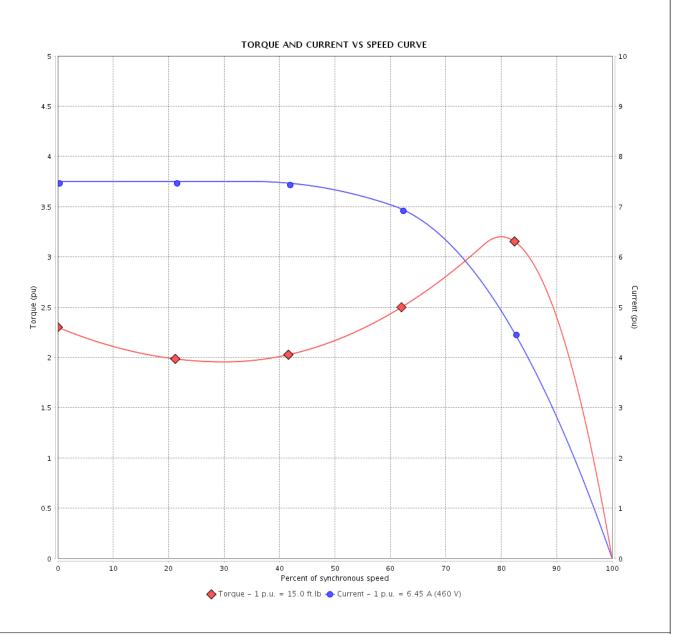


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11416668

Phase

Catalog #: 00518ET3E184T-W22



Performance : 230/460 V 60 Hz 4P Rated current : 12.9/6.45 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : F : 15.0 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1755 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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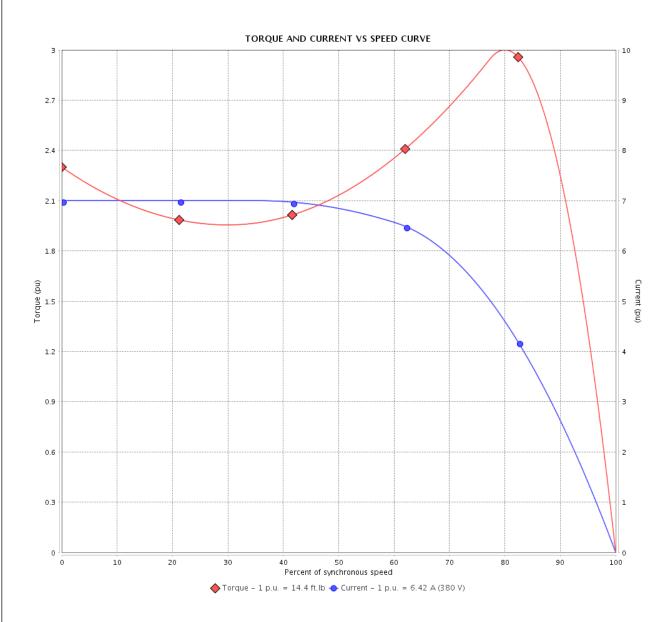


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11416668

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Catalog #: 00518ET3E184T-W22



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 6.42 A	Moment of inertia (J)	: 0.4003 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 14.4 ft.lb	Insulation class	:F	
Locked rotor torque	: 229 %	Service factor	: 1.15	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1455 rpm	Design	: B	
Locked rotor time	: 21s (cold) 12s (hot)			

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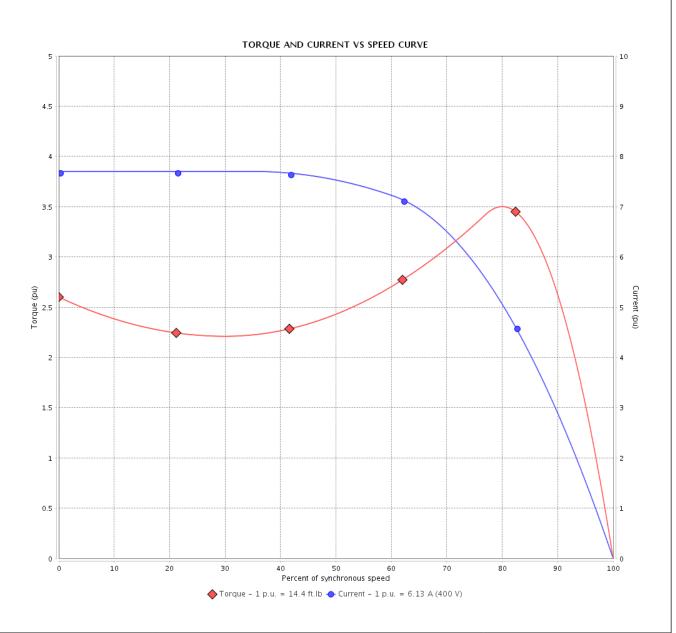


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11416668

Phase

Catalog #: 00518ET3E184T-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 6.13 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : F : 14.4 ft.lb Insulation class Rated torque : 260 % Service factor Locked rotor torque : 1.15 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11416668 Catalog #: 00518ET3E184T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 14.4 ft.lb ◆ Current - 1 p.u. = 6.14 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 6.14 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 14.4 ft.lb : 290 % Locked rotor torque Service factor : 1.15 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Locked rotor time : 21s (cold) 12s (hot) Date Rev. Performed Checked **Changes Summary**

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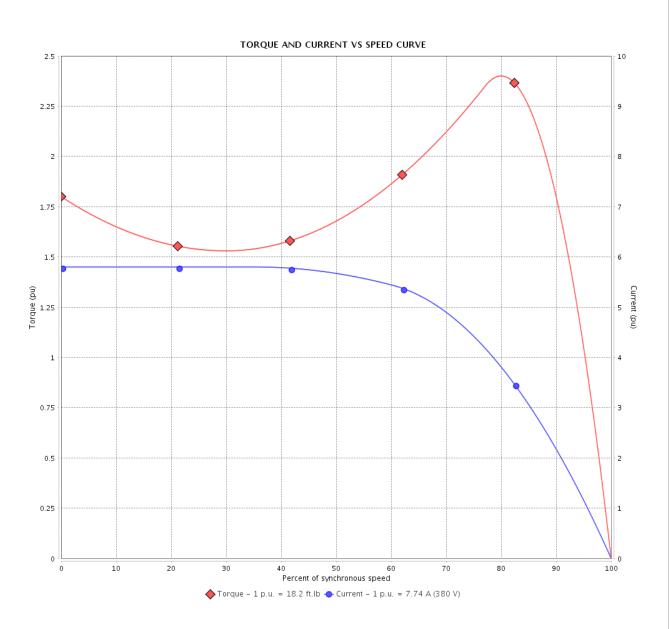
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance	: 380 V 50 Hz 4P IE2		
Rated current	: 7.74 A	Moment of inertia (J)	: 0.4003 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 18.2 ft.lb	Insulation class	:F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm	Design	: B

Locked rotor time : 21s (cold) 12s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11416668 Catalog #: 00518ET3E184T-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. = 18.2 ft.lb ◆ Current - 1 p.u. = 7.44 A (400 V) Performance : 400 V 50 Hz 4P IE2 Rated current : 7.44 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 18.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Locked rotor time : 21s (cold) 12s (hot) Rev. Performed Checked Date **Changes Summary**

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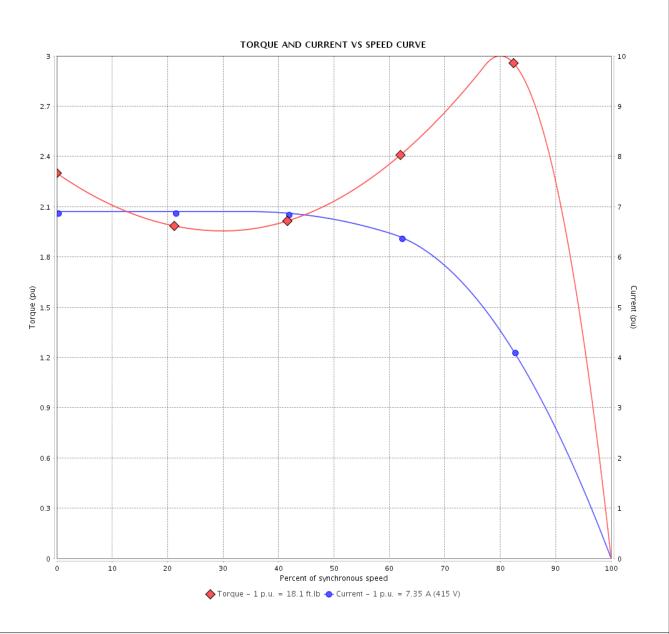
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 7.35 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 18.1 ft.lb : F Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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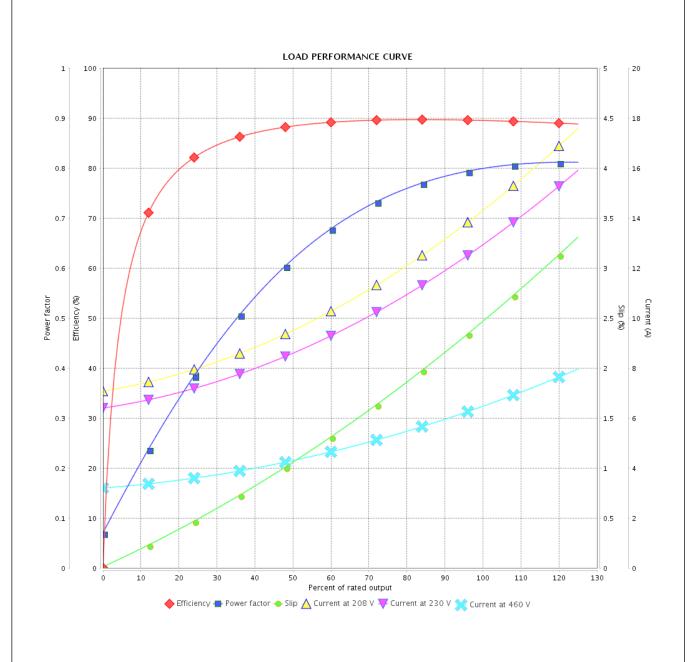


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Product line : NEMA Premium Efficiency Three- Product code : 11416668

Phase

Catalog #: 00518ET3E184T-W22



Performance	: 2	230/460 V 60 Hz 4P				
Rated current	: 1	2.9/6.45 A	Moment o	f inertia (J)	: 0.4003 sq.ft.lb	
LRC	: 7	7.5	Duty cycle	:	: Cont.(S1)	
Rated torque	: 1	15.0 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	229 %	Service fa	ctor	: 1.25	
Breakdown torque		320 %	Temperati	Temperature rise		
Rated speed	: 1	755 rpm	Design		: B	
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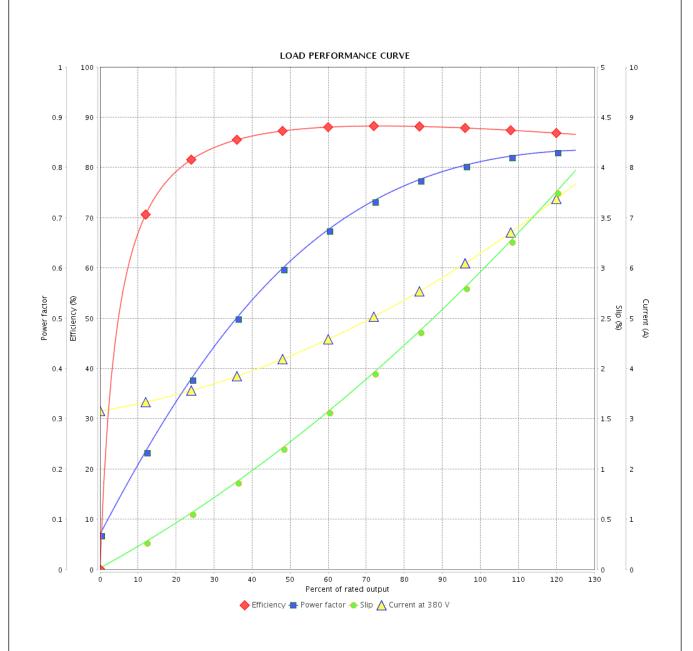
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Phase

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Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.42 A : 7.0 : 14.4 ft.lb : 229 % : 300 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.4003 sq.ft : Cont.(S1) : F : 1.15 : 80 K : B	lb
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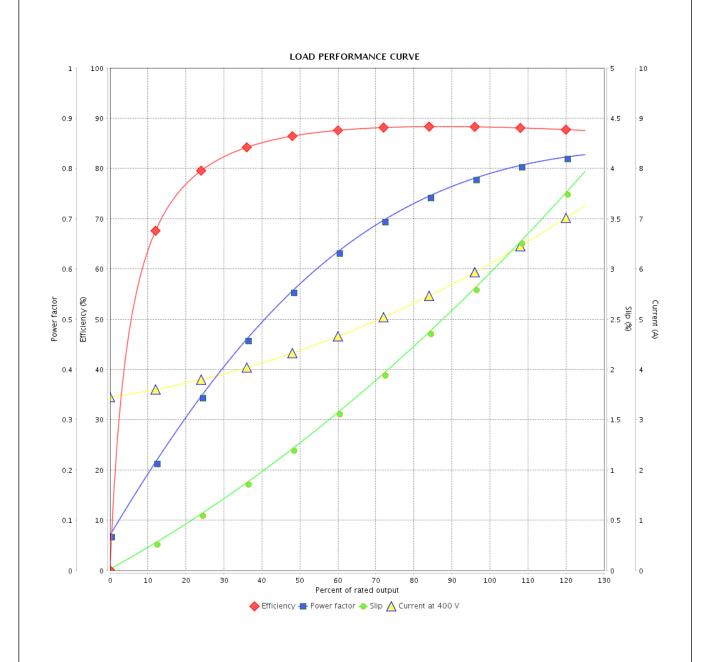
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Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.13 A : 7.7 : 14.4 ft.lb : 260 % : 350 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.4003 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
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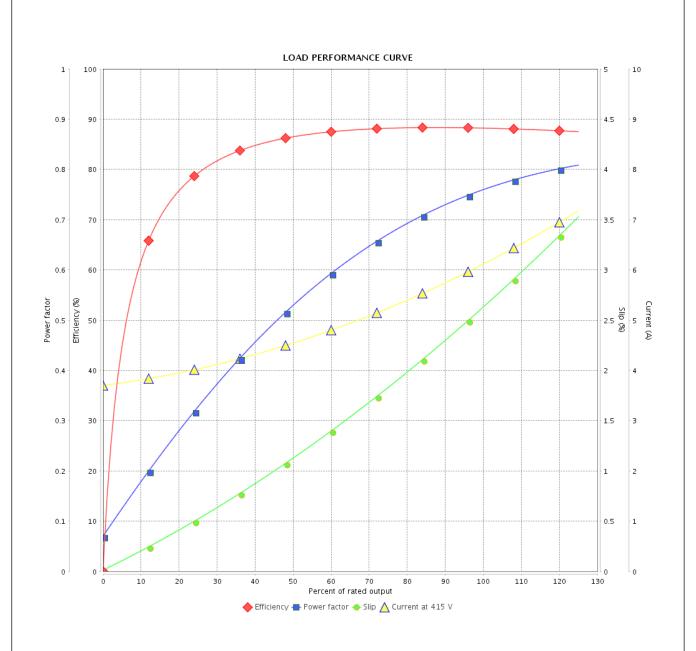


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Phase

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Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC	: 6.14 A : 8.2			lb
Rated torque Locked rotor torque	: 14.4 ft.lb : 290 %	Insulation class Service factor	: Cont.(S1) : F : 1.15	
Breakdown torque Rated speed	: 380 % : 1460 rpm	Temperature rise Design	: 80 K : B	
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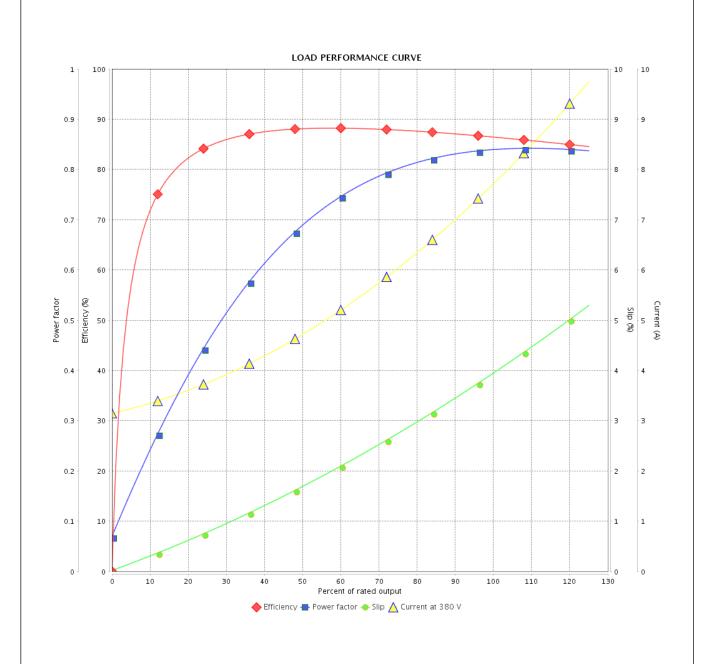


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11416668

Phase

Catalog #: 00518ET3E184T-W22



Performance	: 3	: 380 V 50 Hz 4P IE2					
Rated current : 7.74 A		.74 A	Moment o	f inertia (J)	: 0.4003 sq.ft.lb		
LRC : 5.8		.8	Duty cycle	:	: Cont.(S1)		
Rated torque : 1		8.2 ft.lb	Insulation	class	: F		
Locked rotor torque :		80 %	Service fa	ctor	: 1.15		
Breakdown torque		40 %	Temperati	Temperature rise		: 80 K	
Rated speed		440 rpm Design		: B			
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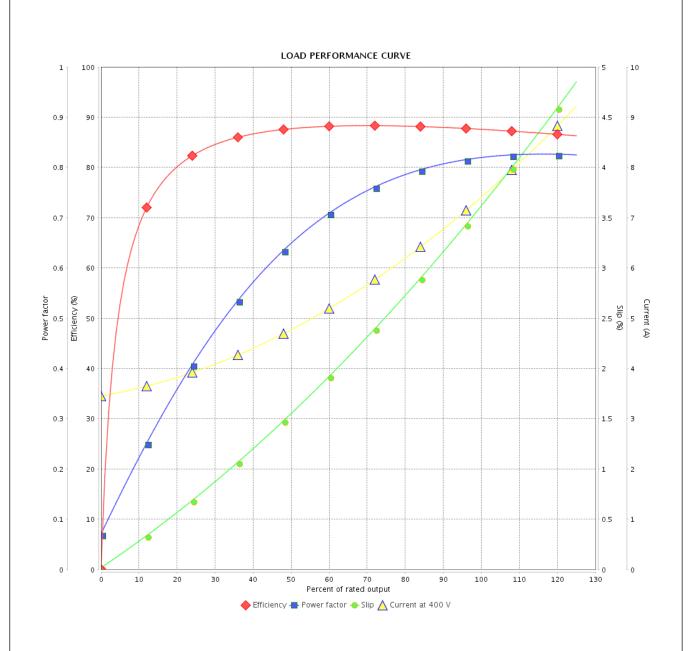
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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.44 A : 6.4 : 18.2 ft.lb : 210 % : 280 % : 1445 rpm	Moment of inertia (J) : 0.4003 sq.ft Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 80 K Design : B		: F : 1.15 : 80 K	b
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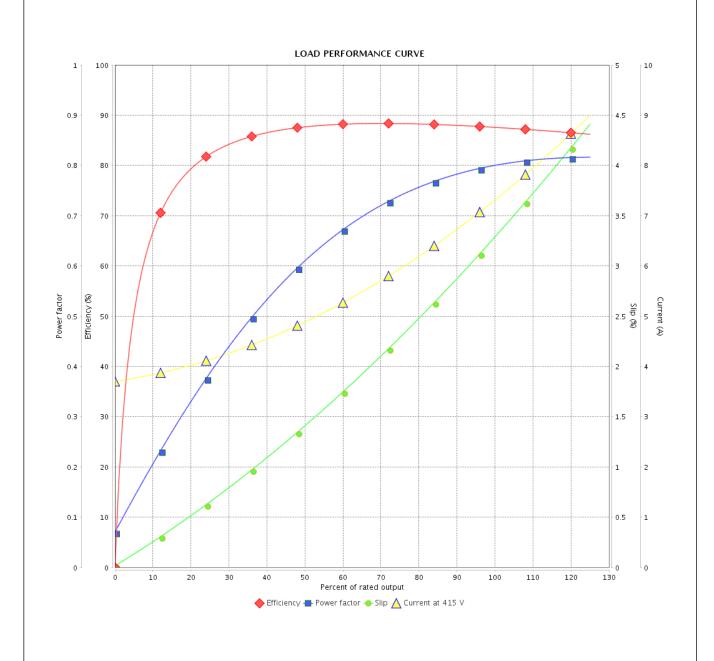
Customer

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11416668

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Performance	: •	415 V 50 Hz 4P IE2				
Rated current	Rated current : 7.35 A		Moment of	Moment of inertia (J)		.lb
LRC	: (6.9	Duty cycle		: Cont.(S1)	
Rated torque			Insulation	Insulation class		
Locked rotor torqu	ue ::	229 %	Service factor		: 1.15	
Breakdown torque : 300 %		300 %	Temperat	Temperature rise		
Rated speed : 1450 rpm		1450 rpm	Design		: B	
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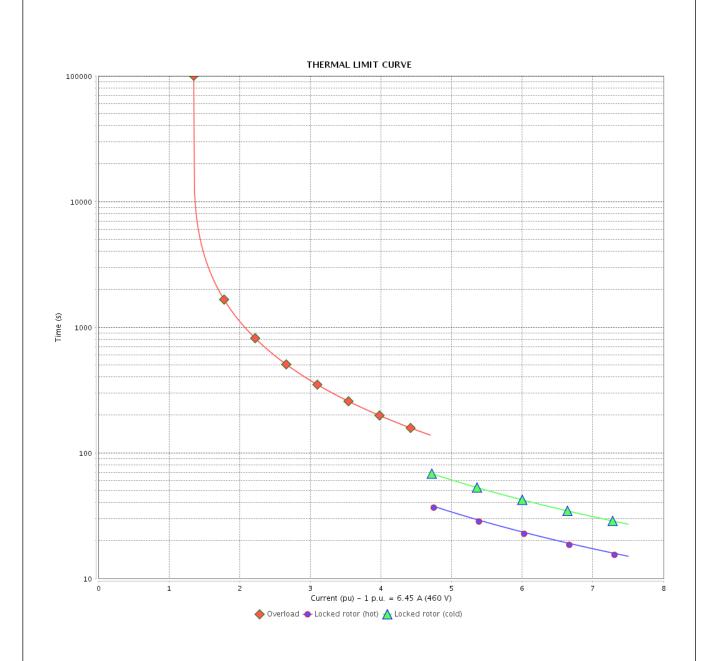


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11416668	
	P	hase		Catalog # :	00518ET3E1	84T-W22
Performance		30/460 V 60 Hz 4P	T			
Rated current LRC	: 12 : 7.	2.9/6.45 A .5	Moment of Duty cycle	f inertia (J)	: 0.4003 sq.ft.l : Cont.(S1)	b
Rated torque	: 19	5.0 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		29 % 20 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		755 rpm	Design	5 1.00	: B	
Heating constant						
Cooling constant		01 0				
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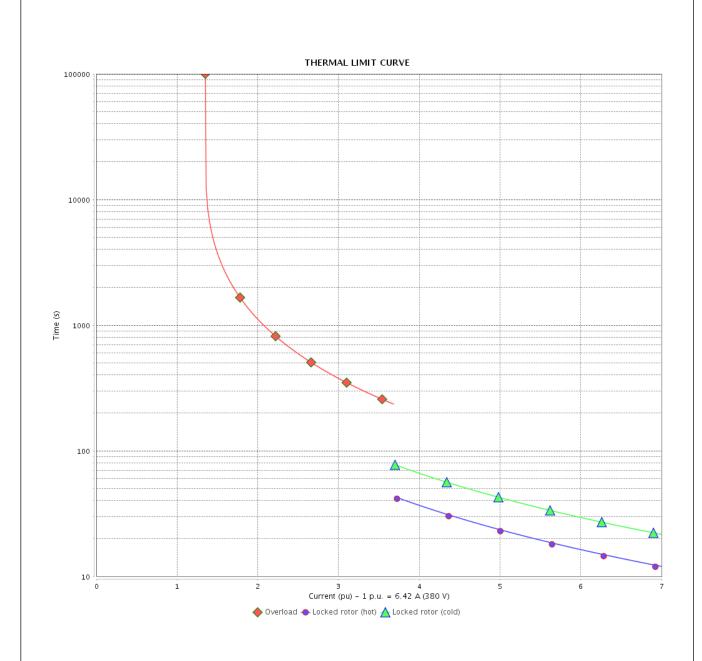


Customer	:			<u>.</u>	
Product line	: NEMA Premium Efficiency Phase		Product code :	11416668 00518ET3E1	84T-W22
Dorformana	· 200 V 50 U= 4D IF2				
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 380 V 50 Hz 4P IE3 : 6.42 A : 7.0 : 14.4 ft.lb : 229 % : 300 % : 1455 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.4003 sq.ft.l : Cont.(S1) : F : 1.15 : 80 K : B	b
Heating constant Cooling constant Rev.	Changes Summary	32.9	Performed	Checked	Date
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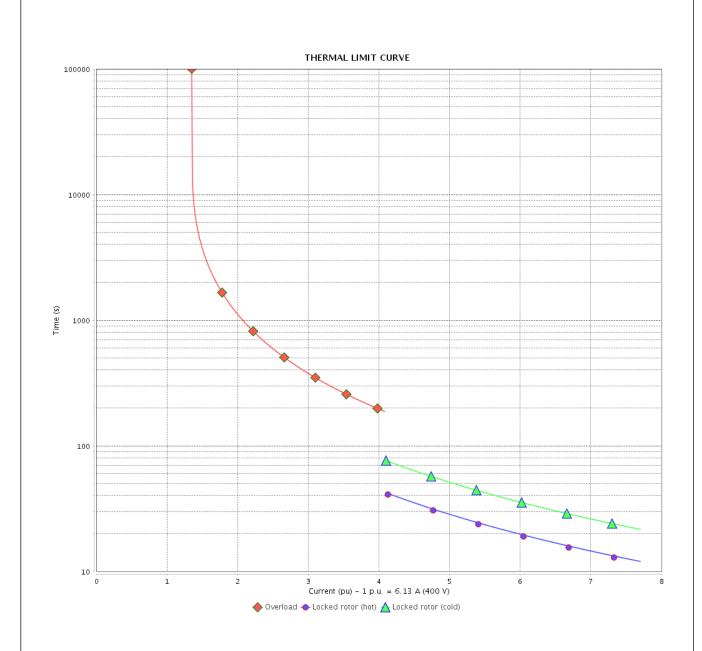


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Product line		NEMA Premium Efficiency hase		Product code : Catalog # :	11416668 00518ET3E1	84T-W22
Performance	. 41	00 V 50 Hz 4P IE3				
Rated current		.13 A	Moment o	f inertia (J)	: 0.4003 sq.ft.l	b
LRC	: 7.	.7	Duty cycle	!	: Cont.(S1)	
Rated torque Locked rotor torqu		4.4 ft.lb 60 %	Insulation Service fa		: F : 1.15	
Breakdown torque	: 3	50 %	Temperatu		: 80 K	
Rated speed	: 14	455 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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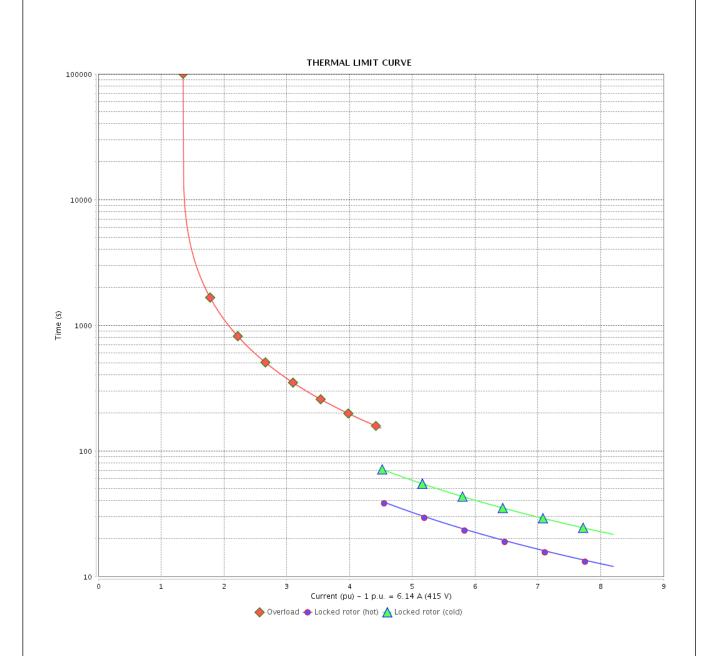


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11416668 00518ET3E1	84T-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC		: 6.14 A : 8.2	Moment of Duty cycle	of inertia (J) e	: 0.4003 sq.ft.l : Cont.(S1)	b
Rated torque		: 14.4 ft.lb : 290 %	Insulation Service fa	class	: F : 1.15	
Locked rotor tord Breakdown torqu		. 290 % : 380 %	Temperat		: 80 K	
Rated speed		: 1460 rpm	Design		: B	
Heating constan						
Cooling constant	Ţ.	Changes Summan		Performed	Checked	Date
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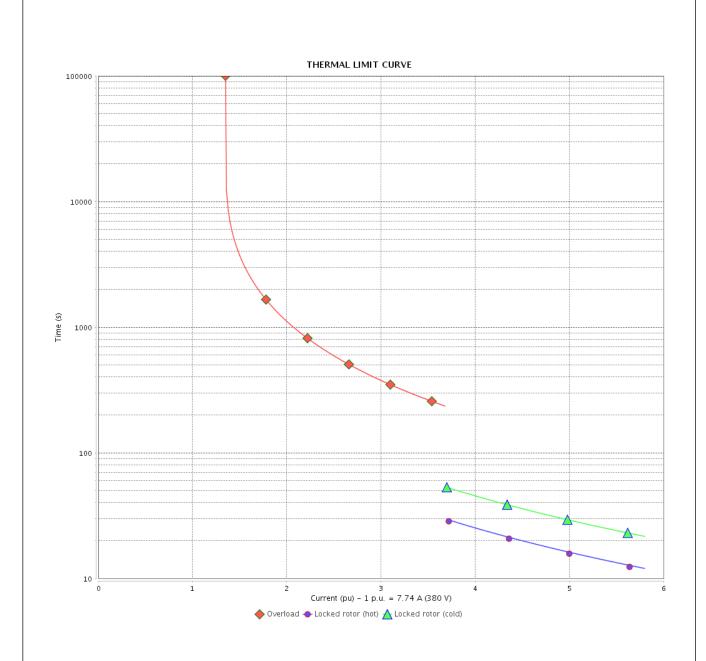


Customer		:				
Product line		: NEMA Premium Efficiency ⁻ Phase		Product code :	11416668 00518ET3E18	4T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	jue ie	380 V 50 Hz 4P IE2 7.74 A 5.8 18.2 ft.lb 180 % 240 % 1440 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class	: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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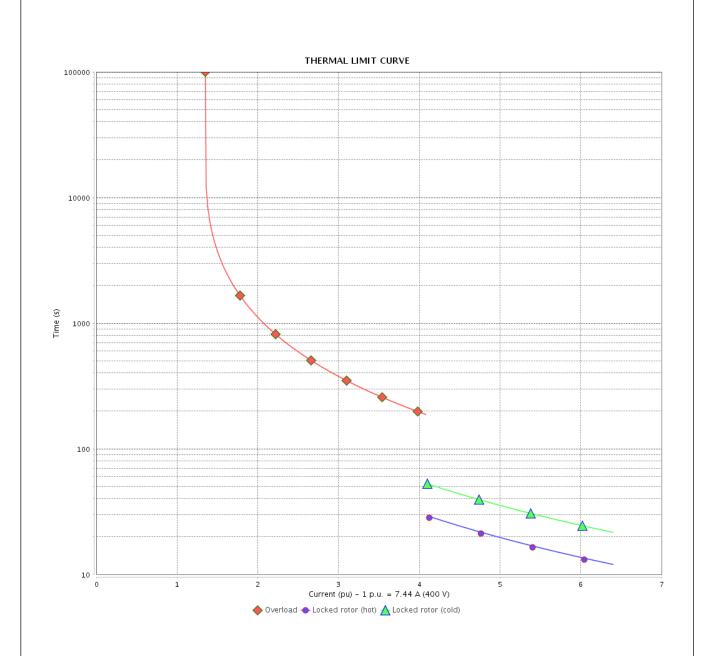


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11416668 00518ET3E1	84T-W22
Performance		: 400 V 50 Hz 4P IE2				
Rated current		: 7.44 A	Moment o	of inertia (J)	: 0.4003 sq.ft.ll)
LRC		: 6.4	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor tord		: 18.2 ft.lb : 210 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	ie :	: 280 %	Temperati		: 80 K	
Rated speed		: 1445 rpm	Design		: B	
Heating constant						
Cooling constant Rev.	.	Changes Summary		Performed	Checked	Date
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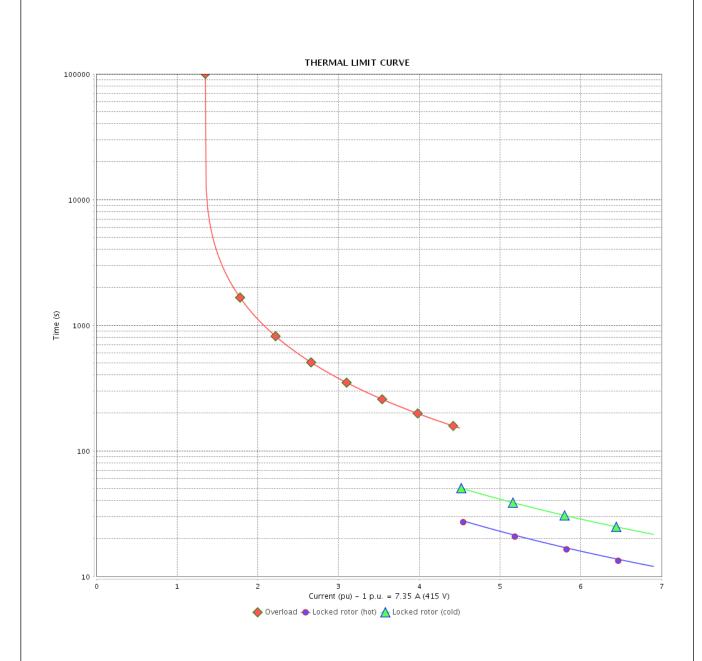


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11416668 00518ET3E1	84T-W22
Performance		415 V 50 Hz 4P IE2				
Rated current		7.35 A	Moment of	of inertia (J)	: 0.4003 sq.ft.l	b
LRC		6.9 18.1 ft.lb	Duty cycle Insulation	Э	: Cont.(S1) : F	
Rated torque Locked rotor tord		229 %	Service fa		: 1.15	
Breakdown torqu	ie :	300 %	Temperat		: 80 K	
Rated speed		1450 rpm	Design		: B	
Heating constant Cooling constant						
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Product line : NEMA Premium Efficiency Three-

Phase

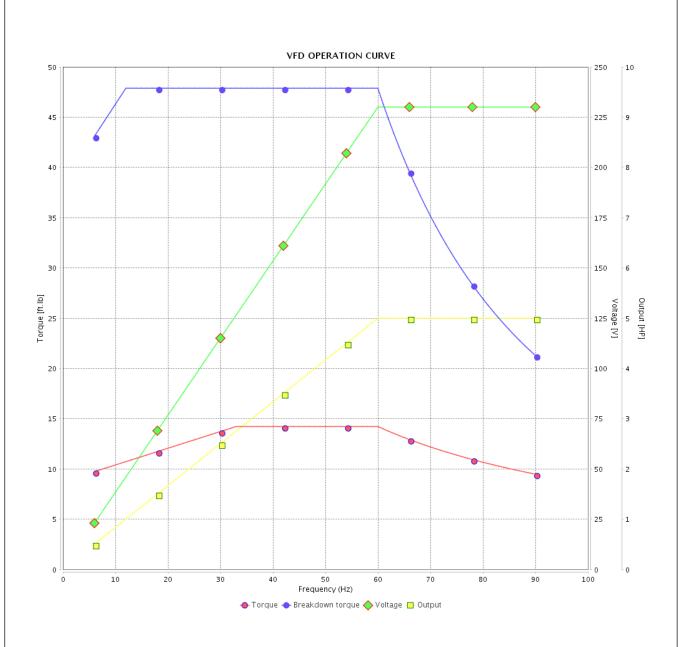
Product code: 11416668

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Revision



Performance		230/460 V 60 Hz 4				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: : : : : : : : : :	12.9/6.45 A 7.5 15.0 ft.lb 229 % 320 % 1755 rpm		n class actor	: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Rev. Changes Summary		ary	Performed	Checked	Date
Performed by						

Three Phase Induction Motor - Squirrel Cage

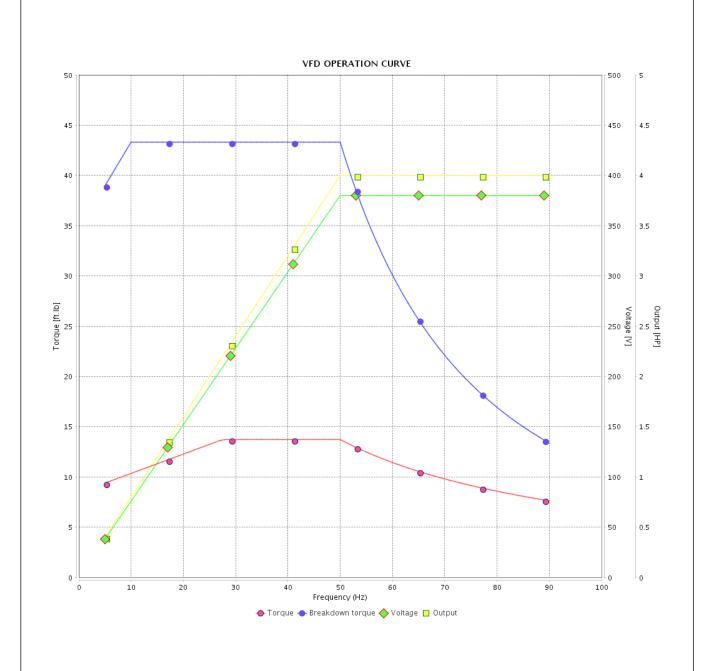


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11416668

Phase

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Performance	: 38	30 V 50 Hz 4P IE3				
Rated current	: 6.	42 A	Moment of	of inertia (J)	: 0.4003 sq.ft.lb	
LRC	: 7.	0	Duty cycle	Э	: Cont.(S1)	
Rated torque	: 14	4.4 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 22	29 %	Service fa	actor	: 1.15	
Breakdown torqu	ie : 30	: 300 % Temperature rise		ature rise : 80 K		
Rated speed : 1455		455 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

Phase

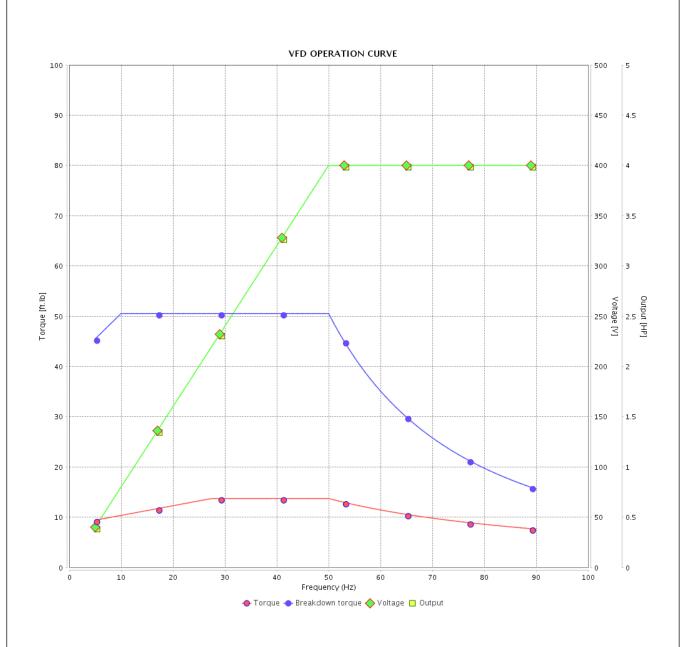
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Revision



Performance : 400 V 50 Hz 4P IE3 Rated current : 6.13 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 7.7 : 14.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.15 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

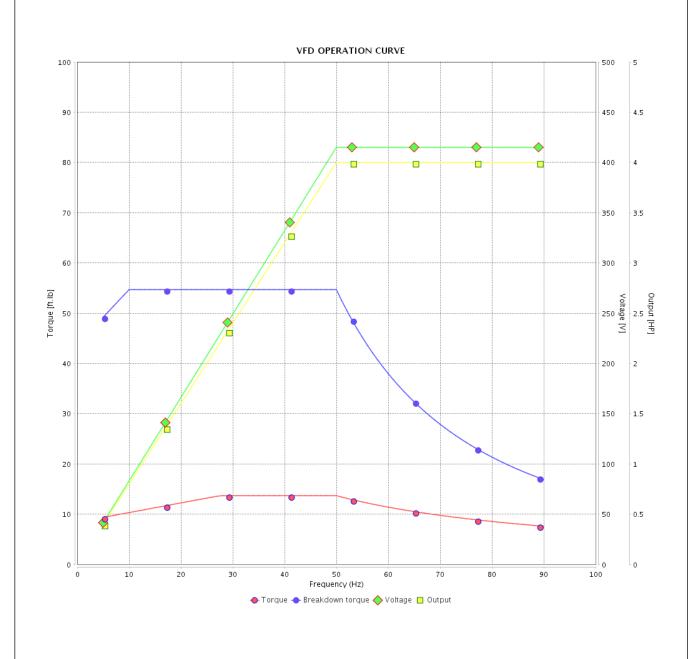


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00518ET3E184T-W22

11416668



Performance	: 4	5 V 50 Hz 4P IE3				
Rated current	: 6.	14 A	Moment o	of inertia (J)	: 0.4003 sq.ft.	.lb
LRC	: 8.	2	Duty cycle	e	: Cont.(S1)	
Rated torque	: 14	4.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 29	90 %	Service fa	ictor	: 1.15	
Breakdown torque	reakdown torque : 380 % Temperature rise		ure rise	: 80 K		
Rated speed		460 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
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Customer :

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Product line : NEMA Premium Efficiency Three-

Phase

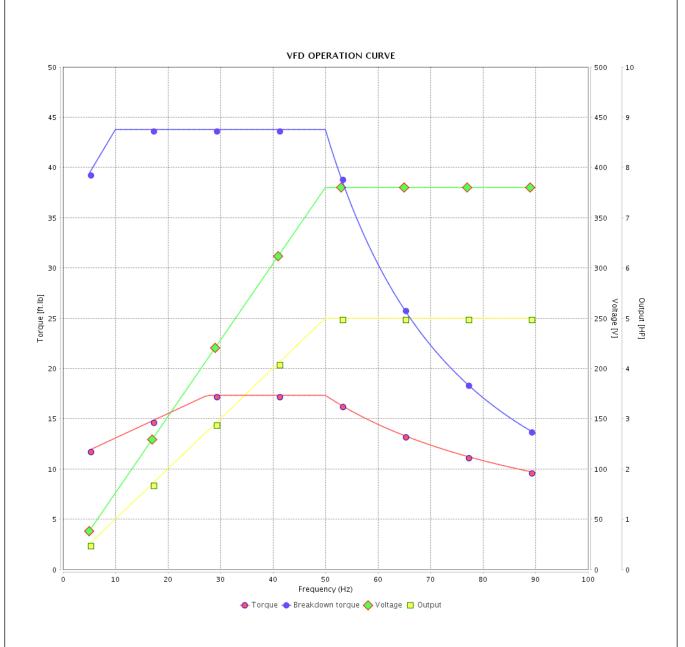
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Performance		: 380 V 50 Hz 4P	IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ie	: 7.74 A : 5.8 : 18.2 ft.lb : 180 % : 240 % : 1440 rpm		Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 0.4003 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
Rev.		Changes Sun	nmary		Performed	Checked	Date
Performed by				`			

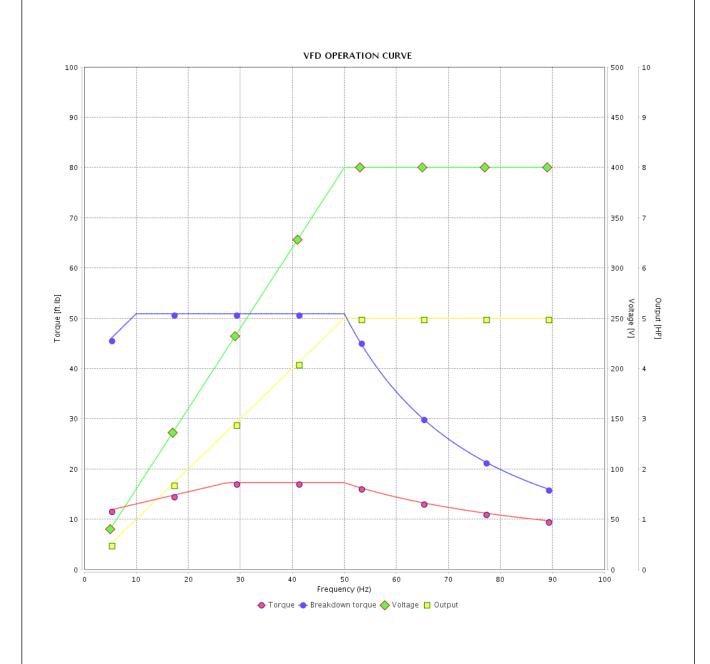
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11416668

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Performance	: 40	00 V 50 Hz 4P IE2				
Rated current	: 7.	.44 A	Moment o	of inertia (J)	: 0.4003 sq.ft.lb	
LRC	: 6.	.4	Duty cycle	•	: Cont.(S1)	
Rated torque	: 18	8.2 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	10 %	Service fa	ictor	: 1.15	
Breakdown torqu	e : 28	80 %	0 % Temperature rise		: 80 K	
•		445 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



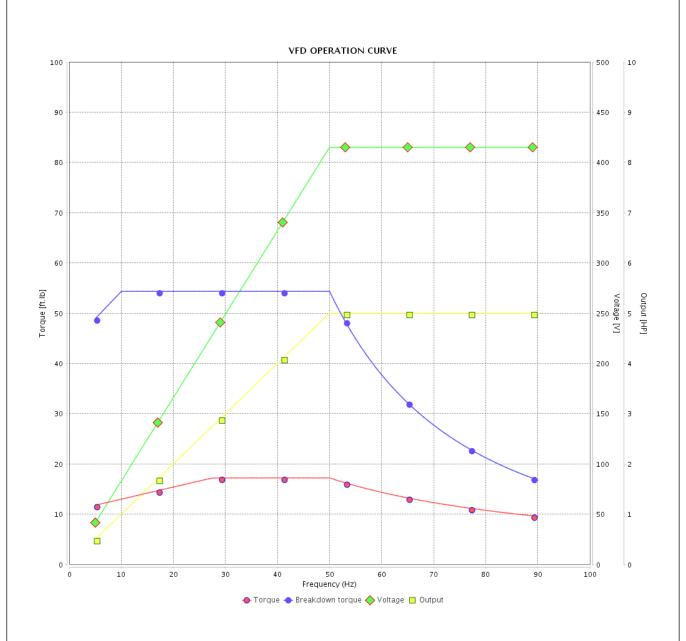
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance	: 415 V 50 Hz 4P IE2				
Rated current	: 7.35 A	Moment of ine	ertia (J)	: 0.4003 sq.ft.lb	
LRC	: 6.9	Duty cycle		: Cont.(S1)	
Rated torque	: 18.1 ft.lb	Insulation class	SS	: F	
Locked rotor torque	: 229 %	Service factor	٢	: 1.15	
Breakdown torque	· ·		rise	: 80 K	
Rated speed	: 1450 rpm	Design	Design :		
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