### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11583024

Catalog #: 00518ET3E184JM-W22

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

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

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

: 1000 m.a.s.l. Approx. weight<sup>3</sup> Altitude : 103 lb

Protection degre	е	: IP55		Momer	nt of inertia (J)	: C	).4003 sq.ft.lb	
Design		: B						
Output [HP]		5	4	4	4	5	5	5
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]		12.9/6.45	6.42	6.13	6.14	7.74	7.44	7.35
L. R. Amperes [A]		96.7/48.4	44.9	47.2	50.4	44.9	47.6	50.7
LRC [A]		7.5x(Code J)	7.0x(Code J)	7.7x(Code K)	8.2x(Code L)	5.8x(Code G)	6.4x(Code H)	6.9x(Code J)
No load current [A		6.40/3.20	3.15	3.45	3.70	3.15	3.45	3.70
Rated speed [RPN	<b>/</b> []	1755	1455	1455	1460	1440	1445	1450
Slip [%]		2.50	3.00	3.00	2.67	4.00	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
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		27s (cold)	21s (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 level <sup>2</sup>		56.0 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%	88.2	87.7	86.4	86.2	89.2	88.0	88.1
Efficiency (%)	50%	88.5	87.5	86.7	86.5	88.5	87.5	87.5
Lindicitely (70)	75%	89.5	88.2	88.2	88.2	87.5	88.5	88.5
	100%	89.5	87.7	88.2	88.2	86.5	87.5	87.5
	25%	0.37	0.37	0.33	0.30	0.43	0.39	0.36
Power Factor	50%	0.62	0.61	0.57	0.53	0.69	0.65	0.61
1 OWEL FACIOI	75%	0.74	0.75	0.71	0.67	0.80	0.77	0.74
	100%	0.80	0.81	0.79	0.76	0.84	0.82	0.80

Drive end Non drive end Foundation loads

6307 ZZ Bearing type 6206 ZZ Max. traction : 296 lb Sealing V'Ring V'Ring : 398 lb Max. compression

Lubrication interval Lubricant amount

Mobil Polyrex EM

Notes

Lubricant type

USABLE @208V 14.3A SF 1.15 SFA 16.4A

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			1 / 36	

#### Three Phase Induction Motor - Squirrel Cage



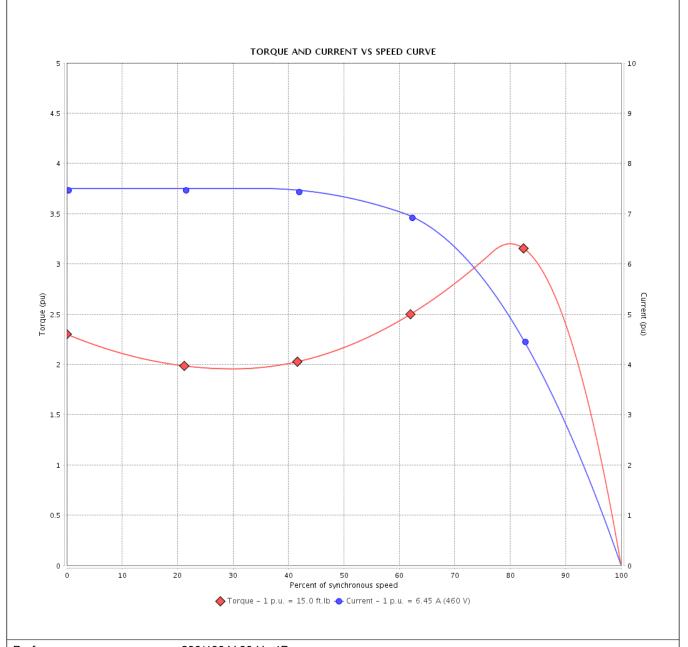
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11583024

Catalog #: 00518ET3E184JM-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) : 15.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.25

Breakdown torque : 320 % Temperature rise : 80 K
Rated speed : 1755 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2 / 36	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11583024 Catalog #: 00518ET3E184JM-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 40 50 -Percent of synchronous speed ◆ Torque - 1 p.u. = 14.4 ft.lb ◆ Current - 1 p.u. = 6.42 A (380 V)

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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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			3 / 36	

### Three Phase Induction Motor - Squirrel Cage

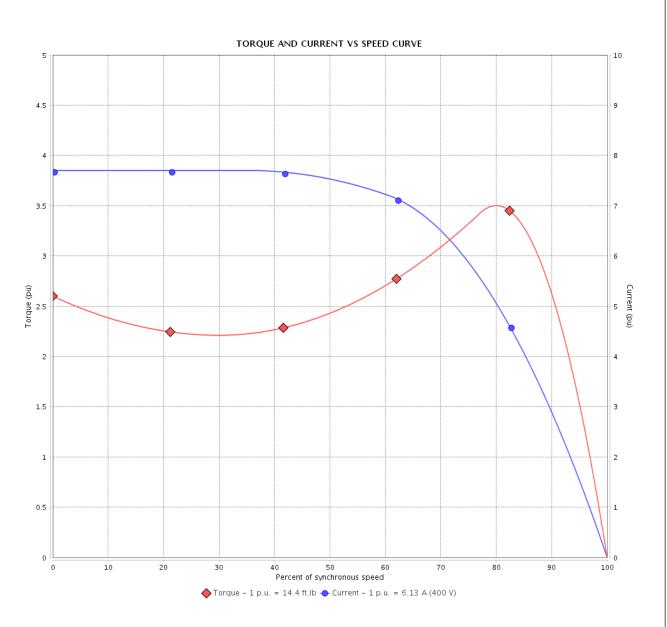


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11583024

Phase

Catalog #: 00518ET3E184JM-W22



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.lb : Cont.(S1) : F : 1.15 : 80 K : B
Locked rotor time	: 21s (cold) 12s (hot)		

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			4 / 36	



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11583024 Catalog #: 00518ET3E184JM-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)

Performed by				
Checked by			Page	Revision
Date	13/04/2022		5 / 36	
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#### Three Phase Induction Motor - Squirrel Cage



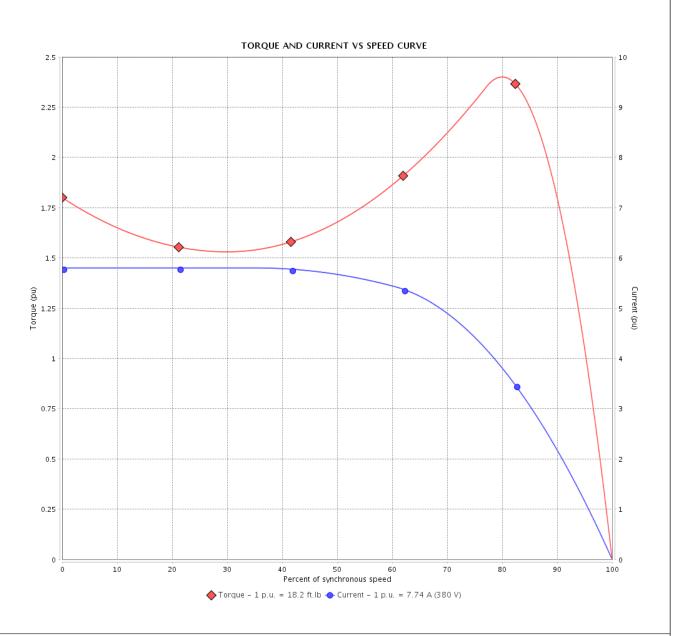
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11583024

Catalog #: 00518ET3E184JM-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) : F Insulation class Rated torque : 18.2 ft.lb 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)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			6 / 36	

#### Three Phase Induction Motor - Squirrel Cage

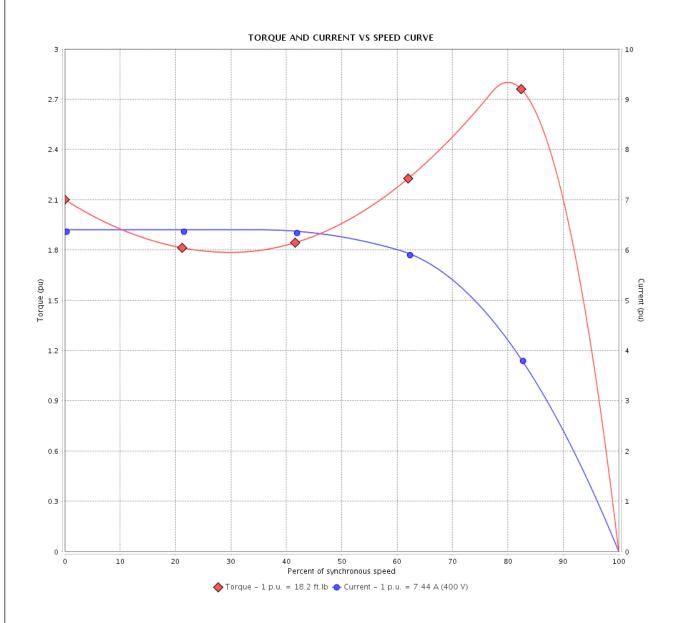


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11583024

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Catalog #: 00518ET3E184JM-W22



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.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			7 / 36	

### Three Phase Induction Motor - Squirrel Cage

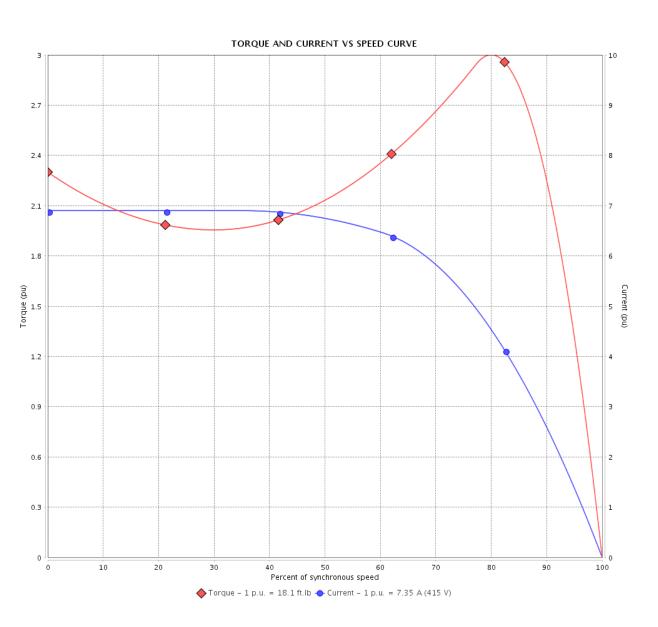


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11583024

Phase

Catalog #: 00518ET3E184JM-W22



Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.35 A : 6.9 : 18.1 ft.lb : 229 % : 300 % : 1450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Locked rotor time	: 21s (cold) 12s (hot)	1		

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			8 / 36	

#### Three Phase Induction Motor - Squirrel Cage

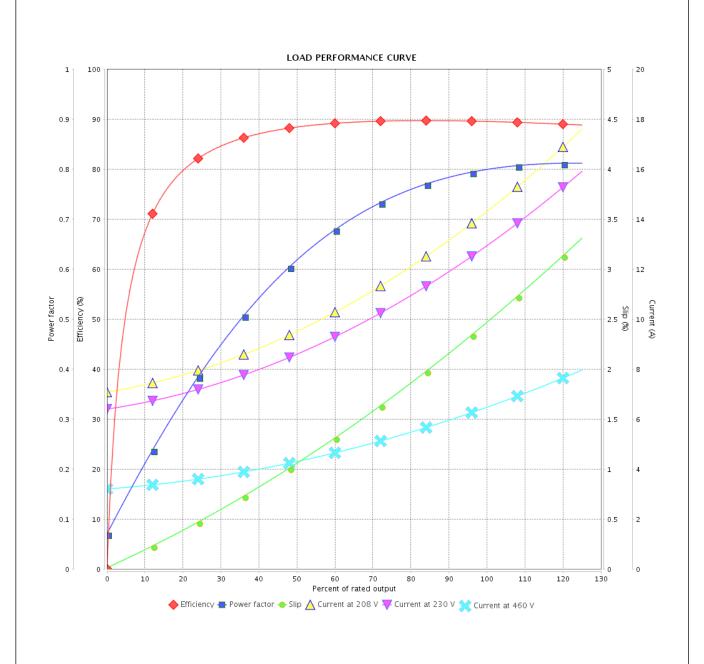


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11583024

Phase

Catalog #: 00518ET3E184JM-W22



Performance : 230/460 V 60 Hz 4P						
Rated current : 12.9/6.45 A		12.9/6.45 A	Moment o	f inertia (J)	: 0.4003 sq.ft	.lb
LRC	:	7.5	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	15.0 ft.lb	Insulation	class	: F	
Locked rotor torque		229 %	Service fa	ctor	: 1.25	
Breakdown torque	e ::	320 %	Temperati	Temperature rise		
Rated speed	:	1755 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				9 / 36	

#### Three Phase Induction Motor - Squirrel Cage



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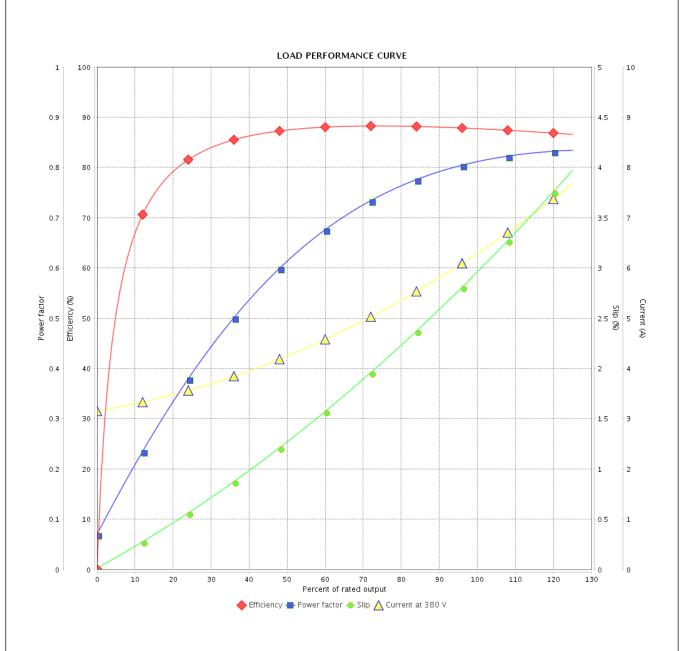
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Phase

Product code: 11583024

Catalog #: 00518ET3E184JM-W22

10/36



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 of	lass	: F	
Locked rotor torque	: 229 %	Service factor		: 1.15	
Breakdown torque	: 300 %	Temperature rise Design		: 80 K	
Rated speed	: 1455 rpm			: B	
Rev.	Changes Summary		Performed	Checked	Date
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Checked by				Page	Revision

13/04/2022

#### Three Phase Induction Motor - Squirrel Cage



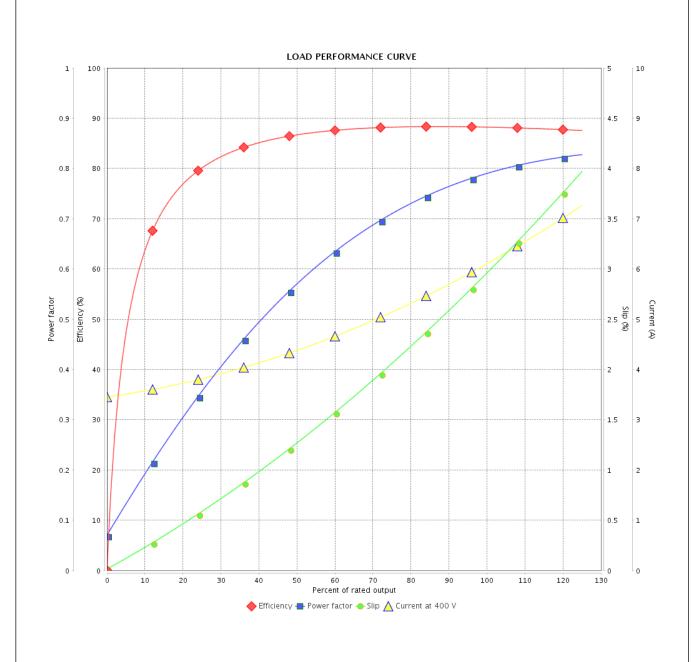
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Product line : NEMA Premium Efficiency Three- Product code : 11583024

Phase

Catalog #: 00518ET3E184JM-W22

11/36



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 ine Duty cycle Insulation clas Service factor Temperature r Design	SS	: 0.4003 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

#### Three Phase Induction Motor - Squirrel Cage



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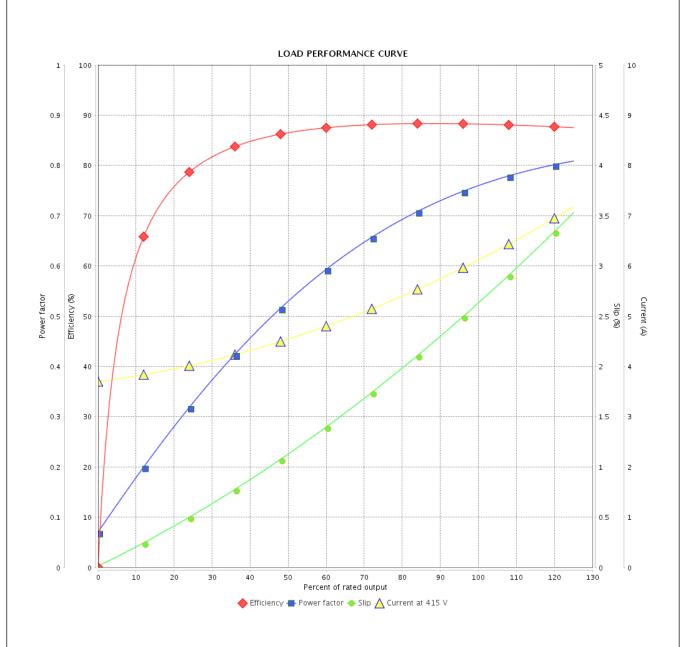
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11583024

Catalog #: 00518ET3E184JM-W22

12/36



Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.14 A : 8.2 : 14.4 ft.lb : 290 % : 380 % : 1460 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
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

13/04/2022

#### Three Phase Induction Motor - Squirrel Cage

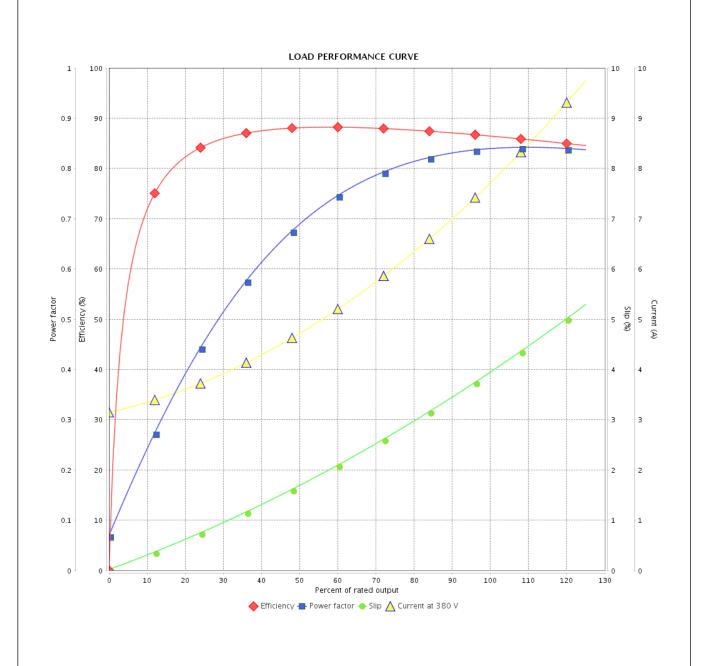


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11583024

Phase

Catalog #: 00518ET3E184JM-W22



Performance	iance : 380 V 50 Hz 4P IE2					
Rated current :		: 7.74 A	Moment o	Moment of inertia (J)		.lb
LRC	:	: 5.8	Duty cycle	)	: Cont.(S1)	
Rated torque	:	: 18.2 ft.lb	Insulation	class	: F	
Locked rotor torque		: 180 %	Service fa	ctor	: 1.15	
Breakdown torque		: 240 %		Temperature rise		
Rated speed	:	: 1440 rpm	Design		: B	
Rev.		Changes Summary	l	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				13 / 36	

#### Three Phase Induction Motor - Squirrel Cage



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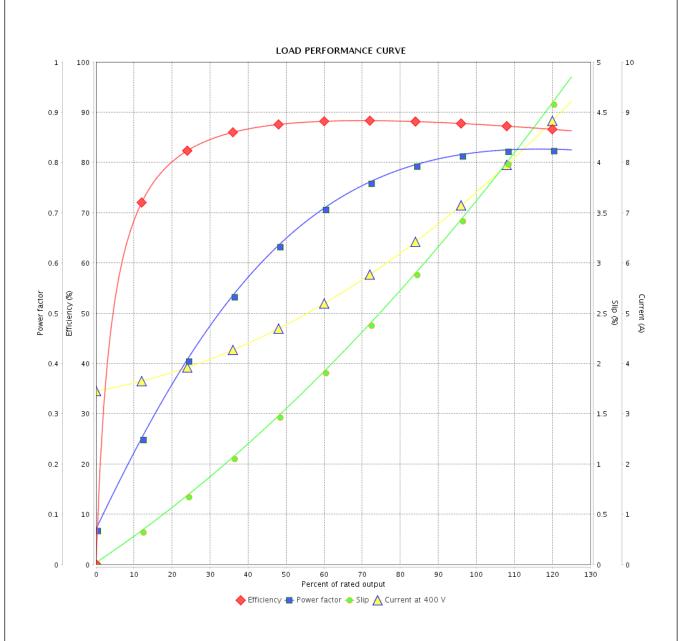
Product line : NEMA Premium Efficiency Three- Pro-

Phase

Product code: 11583024

Catalog #: 00518ET3E184JM-W22

14/36



Performance	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)	
Rated torque	: 18.2 ft.lb	Insulation clas	ss	: F	
Locked rotor torque	: 210 %	Service factor		: 1.15	
Breakdown torque	: 280 %	Temperature rise Design		: 80 K	
Rated speed	: 1445 rpm			: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

#### Three Phase Induction Motor - Squirrel Cage

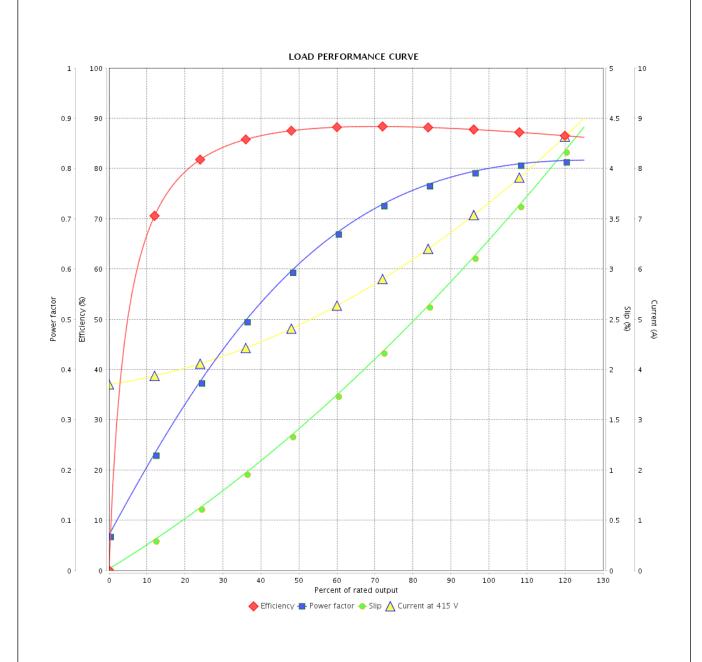


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Product line : NEMA Premium Efficiency Three- Product code : 11583024

Phase

Catalog #: 00518ET3E184JM-W22



Performance	: 4	: 415 V 50 Hz 4P IE2				
Rated current : 7.35 A		Moment o	Moment of inertia (J)		.lb	
LRC	: 6	3.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	: 1	18.1 ft.lb	Insulation	class	: F	
Locked rotor torque		229 %	Service fa	ctor	: 1.15	
Breakdown torque	e :3	300 %	Temperatu	Temperature rise		
Rated speed	: 1	1450 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				15 / 36	

### Three Phase Induction Motor - Squirrel Cage

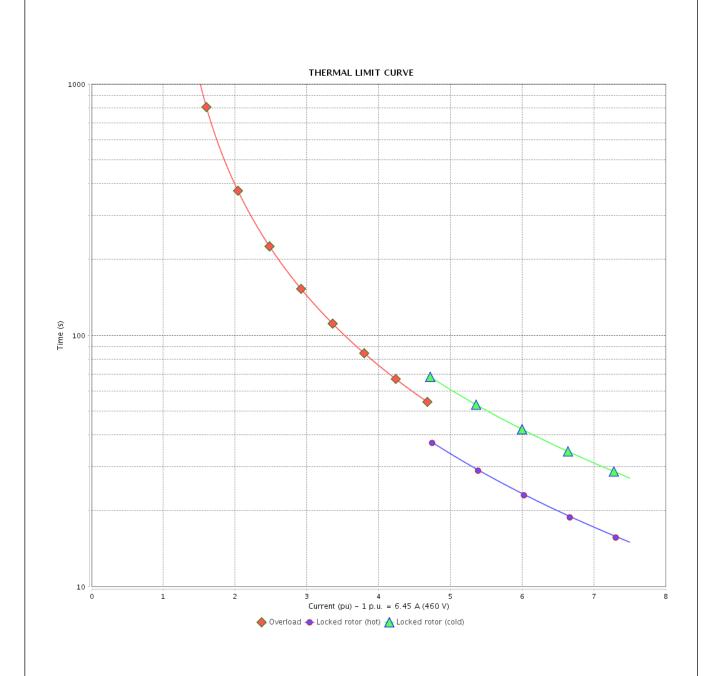


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Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11583024 00518ET3E1	84JM-W22
Performance	: 230/460 V 60 Hz 4P				
Rated current	: 12.9/6.45 A	Moment o	f inertia (J)	: 0.4003 sq.ft.l	b
LRC Rated torque	: 7.5 : 15.0 ft.lb	Duty cycle	9	: Cont.(S1) : F	
Locked rotor torque	: 229 %	Service fa		. r : 1.25	
Breakdown torque Rated speed	: 320 % : 1755 rpm	Temperatu Design		: 80 K : B	
Heating constant					
Cooling constant					
Rev.	Changes Summary	1	Performed	Checked	Date
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Checked by	22			Page	Revision

### Three Phase Induction Motor - Squirrel Cage



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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			17 / 36	

### Three Phase Induction Motor - Squirrel Cage

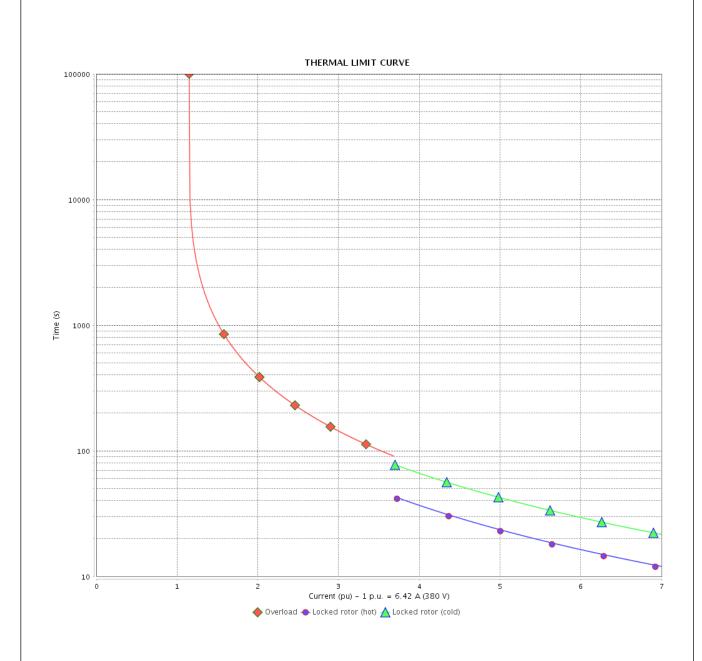


Customer	:				
Product line		um Efficiency Three-	Product code :	11583024	
	Phase		Catalog # :	00518ET3E1	84JM-W22
Performance	: 380 V 50 Hz 4F	P IE3			
Rated current	: 6.42 A	Moment	of inertia (J)	: 0.4003 sq.ft.l	b
LRC Rated torque	: 7.0 : 14.4 ft.lb	Duty cycl	e n class	: Cont.(S1) : F	
Locked rotor torque	: 229 %	Service fa	actor	: 1.15	
Breakdown torque Rated speed	: 300 % : 1455 rpm	Temperati Design	ture rise	: 80 K : B	
Heating constant	· · · · · · · · · · · · · · · · · · ·				
Cooling constant					
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### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022	1		19 / 36	

### Three Phase Induction Motor - Squirrel Cage

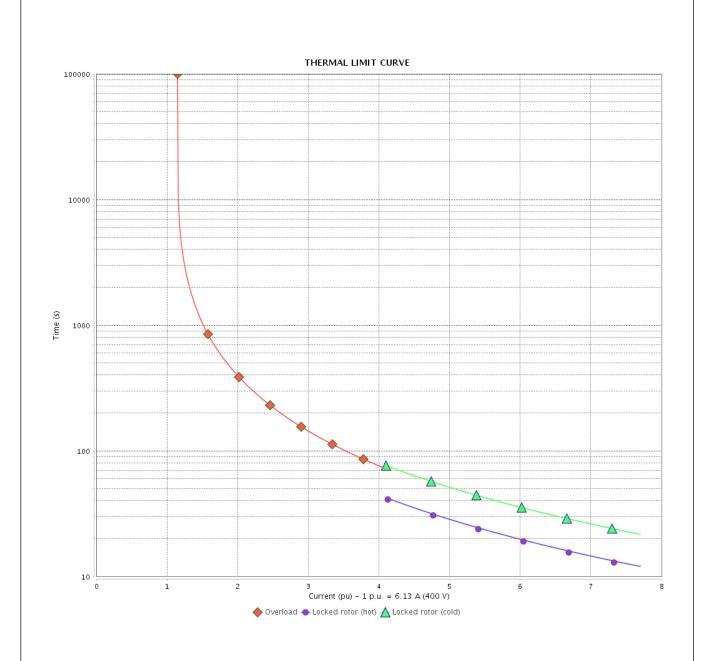


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11583024 00518ET3E1	84JM-W22
Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC		: 6.13 A : 7.7	Moment of Duty cycle	of inertia (J)	: 0.4003 sq.ft.l : Cont.(S1)	b
Rated torque		: 14.4 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 260 % : 350 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 1455 rpm	Design	GIO 1100	: B	
Heating constan						
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				20 / 36	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			21 / 36	

### Three Phase Induction Motor - Squirrel Cage

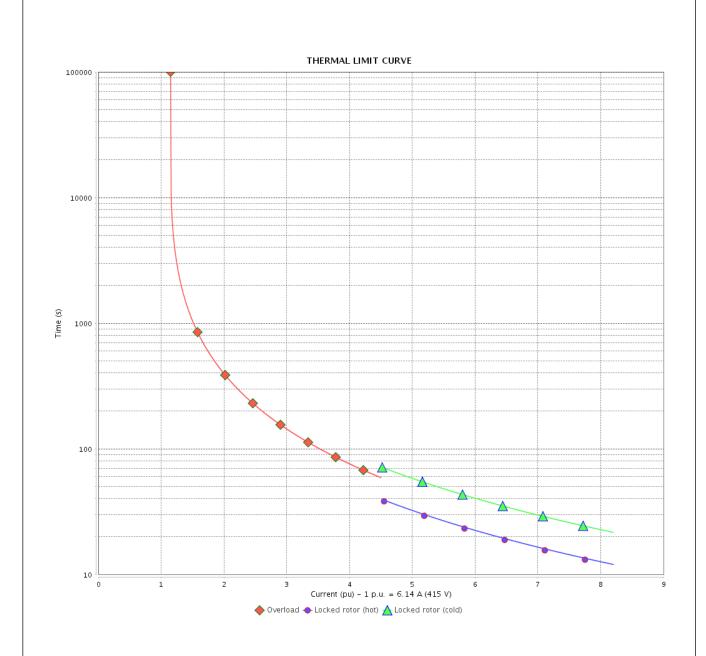


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11583024 00518ET3E1	84JM-W22
Performance		: 415 V 50 Hz 4P IE3		. f : ( )	0.4000 8.1	1
Rated current LRC		: 6.14 A : 8.2	Duty cycle		: 0.4003 sq.ft.l : Cont.(S1)	0
Rated torque		: 14.4 ft.lb : 290 %	Insulation Service fa		: F : 1.15	
Locked rotor tord Breakdown torqu		: 290 % : 380 %	Temperat		: 1.15 : 80 K	
Rated speed		: 1460 rpm	Design		: B	
Heating constant						
Cooling constant	τ	Changes Cummer:		Dorform	Chaalaa	Doto
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				22 / 36	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			23 / 36	

### Three Phase Induction Motor - Squirrel Cage

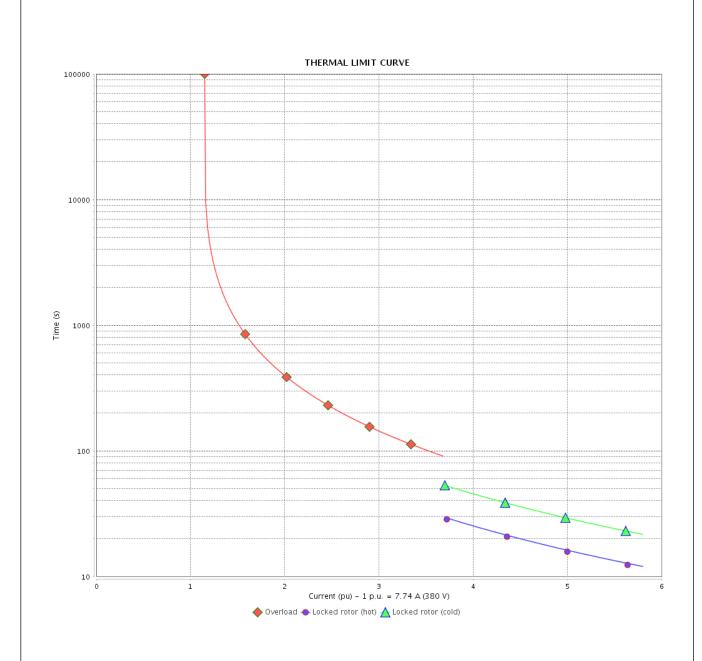


Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code :  Catalog # :	11583024 00518ET3E18	34JM-W22
Performance	: 380 V 50 Hz 4P IE2			
Rated current LRC	: 7.74 A : 5.8	Moment of inertia (J) Duty cycle	: 0.4003 sq.ft.lt : Cont.(S1)	)
Rated torque	: 18.2 ft.lb	Insulation class	: F	
Locked rotor torque Breakdown torque	: 180 % : 240 %	Service factor Temperature rise	: 1.15 : 80 K	
Rated speed	: 1440 rpm	Design	: B	
Heating constant				
Cooling constant  Rev.	Changes Summary	Performed	Checked	Date
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Checked by			Page	Revision
Date 13/04/	2022		24/36	

#### Three Phase Induction Motor - Squirrel Cage



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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			25 / 36	

### Three Phase Induction Motor - Squirrel Cage

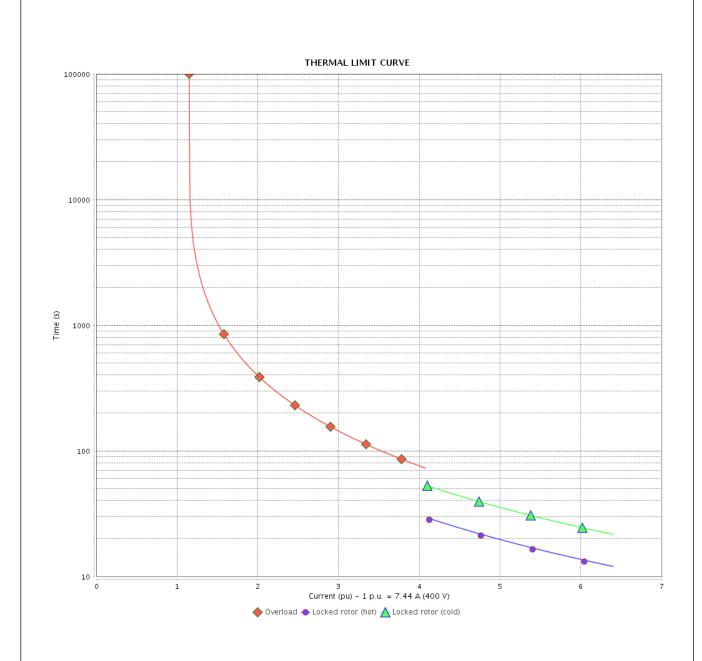


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11583024	
	Pr	nase	1	Catalog # :	00518ET3E1	84JM-W22
Performance		00 V 50 Hz 4P IE2				
Rated current LRC	: 7.4 : 6.4	44 A 4	Moment o	f inertia (J)	: 0.4003 sq.ft.l : Cont.(S1)	b
Rated torque	: 18	3.2 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		10 % 30 %	Service fa Temperatu		: 1.15 : 80 K	
Rated speed		145 rpm	Design	110 1135	: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			27 / 36	

### Three Phase Induction Motor - Squirrel Cage

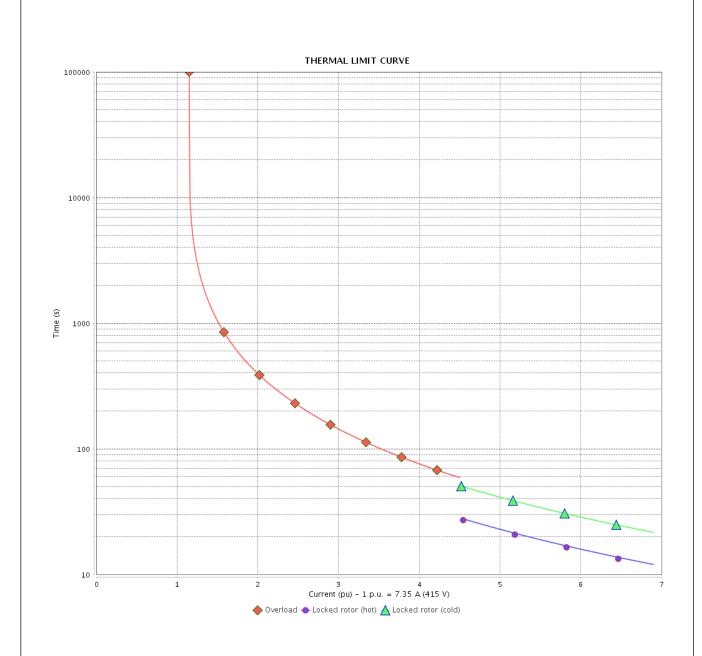


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Customer	•					
Product line		NEMA Premium Efficiency Thase	「hree- I	Product code :	11583024	
			(	Catalog # :	00518ET3E18	4JM-W22
Performance		15 V 50 Hz 4P IE2		· · · · · · ·	0.4000 6.11	
Rated current LRC	: 7. : 6.	35 A 9	Moment of Duty cycle	t inertia (J)	: 0.4003 sq.ft.lb : Cont.(S1)	
Rated torque	: 18	3.1 ft.lb	Insulation	class	: F	
Locked rotor torq		29 %	Service fac		: 1.15	
Breakdown torqu Rated speed		00 % 450 rpm	Temperatu Design	ıre rise	: 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Data	13/04/2022				28 / 36	

### Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			29 / 36	

#### Three Phase Induction Motor - Squirrel Cage



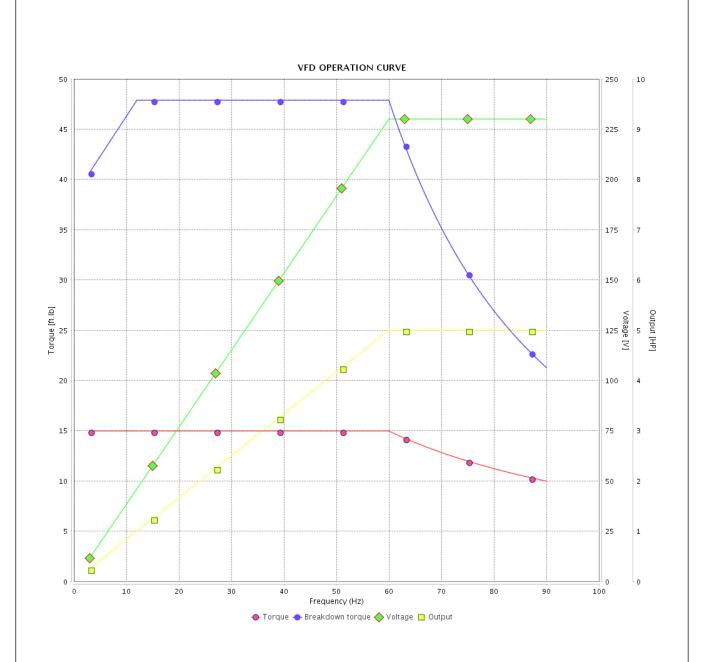
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00518ET3E184JM-W22

11583024



Performance	: 2	230/460 V 60 Hz 4P	•			
Rated current	:	: 12.9/6.45 A Moment		Moment of inertia (J)		.lb
LRC	: 7	7.5	Duty cycle	e ` ´	: Cont.(S1)	
Rated torque	: *	15.0 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 2	229 %	Service fa	actor	: 1.25	
Breakdown torqu	e ::	320 %	) % Temperature rise		: 80 K	
Rated speed	: 1	1755 rpm	Design		: B	
Rev.		Changes Summar	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				30 / 36	

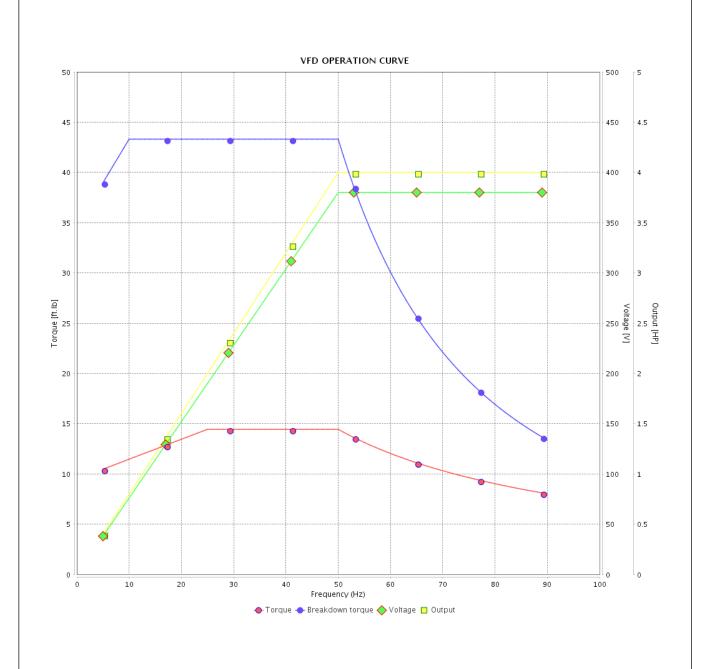
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11583024

Catalog #: 00518ET3E184JM-W22



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 6	: 6.42 A Moment of		of inertia (J)	: 0.4003 sq.ft.	.lb
LRC	: 7	.0	Duty cycle	•	: Cont.(S1)	
Rated torque	: 1	4.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2	29 %	Service fa	ictor	: 1.15	
Breakdown torque	e : 3	00 %	7 % Temperature rise		: 80 K	
Rated speed	: 1	455 rpm	Design		: B	
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				31 / 36	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

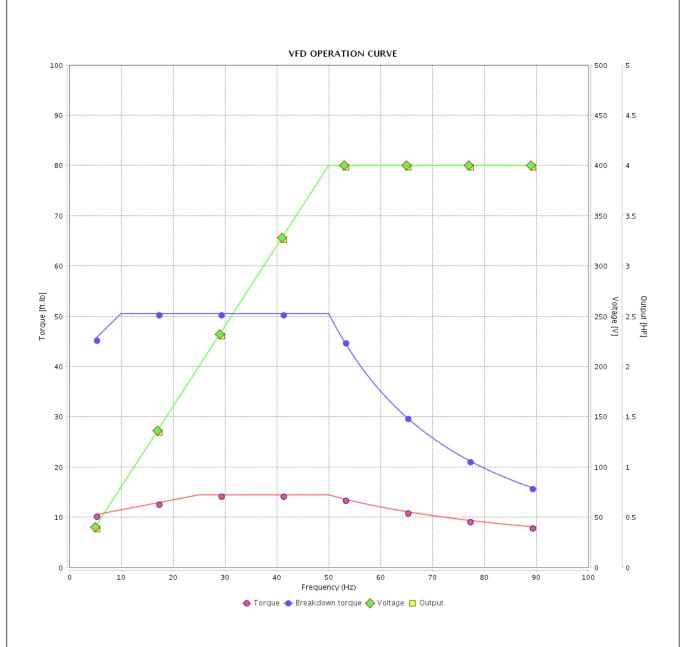
Product code: 11583024

Catalog #: 00518ET3E184JM-W22

Page

32 / 36

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 : F Rated torque 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



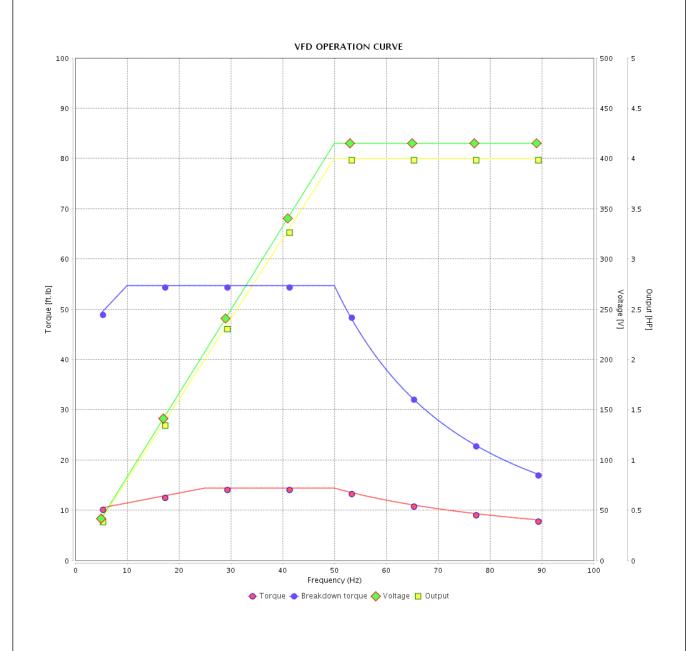
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11583024

Phase

Catalog #: 00518ET3E184JM-W22

33 / 36



Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 8.2 Duty cycle : 14.4 ft.lb Insulation class : 290 % Service factor :		Duty cycle : Insulation class : Service factor :		lb
Rated speed	: 1460 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product

Phase

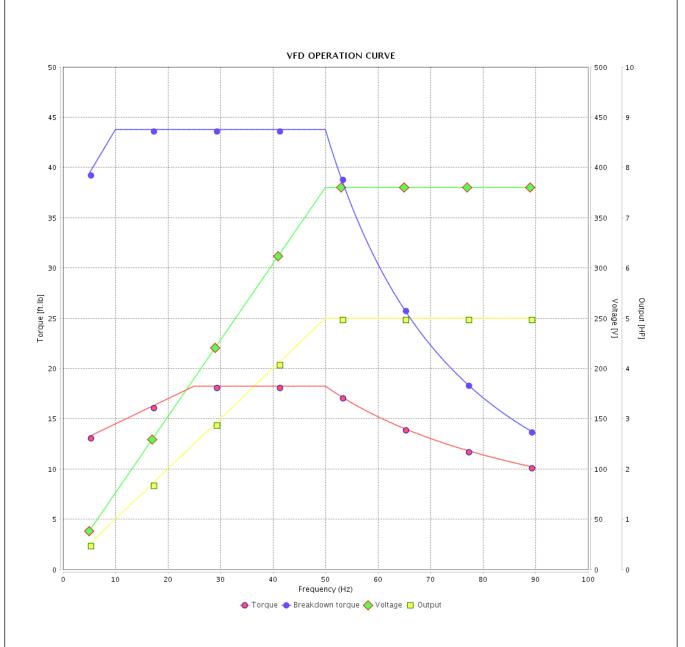
Product code: 11583024

Catalog #: 00518ET3E184JM-W22

Page

34 / 36

Revision



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

#### Three Phase Induction Motor - Squirrel Cage

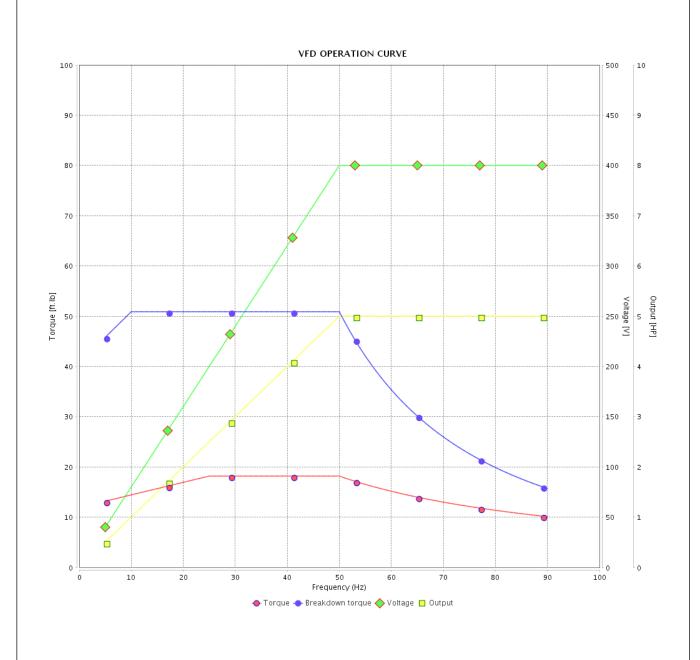


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11583024

Phase

Catalog #: 00518ET3E184JM-W22



Performance		: 400 V 50 Hz 4P IE2						
Rated current	: 7.	: 7.44 A		Moment of inertia (J)		: 0.4003 sq.ft.lb		
LRC	: 6.	6.4 Duty cycl		9	: Cont.(S1)			
Rated torque	: 18	8.2 ft.lb Insulation class		: F				
Locked rotor torq	ue : 2'	0 % Service factor		: 1.15				
Breakdown torqu	e : 28	80 %	Temperati	Temperature rise		: 80 K		
Rated speed	: 14	: 1445 rpm		Design				
Rev.	Changes Summary			Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	13/04/2022	1			35 / 36			

#### Three Phase Induction Motor - Squirrel Cage



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Date

13/04/2022

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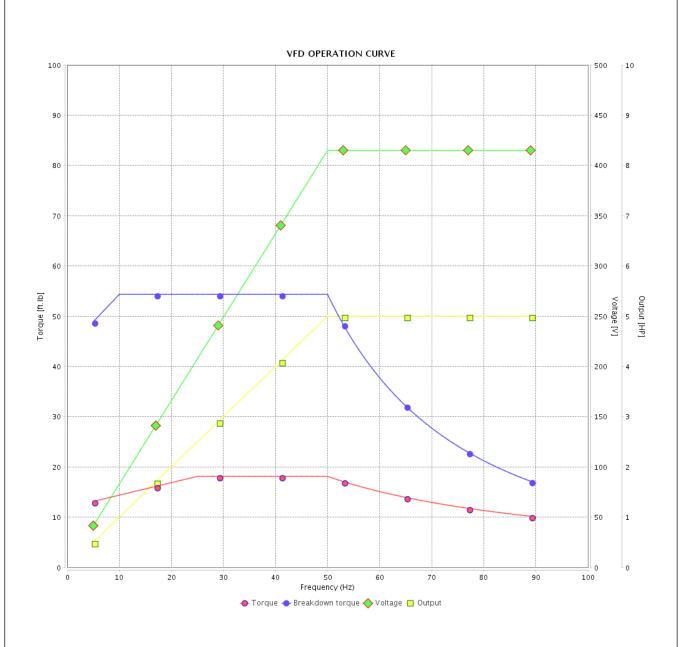
Product code: 11583024

Catalog #: 00518ET3E184JM-W22

Page

36 / 36

Revision



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

