### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11642183

Catalog #: 00236ET3E145JM-W22

Frame : 143/5JM 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. Altitude Approx. weight<sup>3</sup> : 54.4 lb

Protection degree		: IP55		Momer	nt of inertia (J	) : 0	.0605 sq.ft.lb	
Design		: B						
Output [HP]		2	1.5	1.5	1.5	2	2	2
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		5.12/2.56	2.30	2.22	2.19	3.07	2.90	2.82
L. R. Amperes [A]		45.6/22.8	19.5	20.4	21.2	20.0	20.9	21.7
LRC [A]		8.9x(Code L)	8.5x(Code K)	9.2x(Code L)		6.5x(Code H)	7.2x(Code J)	7.7x(Code J)
					M)			
No load current [A		1.80/0.900	0.890	0.960	1.01	0.890	0.960	1.01
Rated speed [RPN	<b>/</b> 1]	3475	2885	2895	2905	2835	2850	2865
Slip [%]		3.47	3.83	3.50	3.17	5.50	5.00	4.50
Rated torque [ft.lb]		3.02	2.73	2.72	2.71	3.70	3.69	3.67
Locked rotor torqu	e [%]	350	370	409	450	270	300	330
Breakdown torque	[%]	380	370	420	459	270	310	340
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		30s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)	25s (cold)
		17s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)	14s (hot)
Noise level <sup>2</sup>		68.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%	82.0	80.8	79.1	78.9	83.3	82.1	82.1
Efficiency (9/)	50%	82.5	81.4	80.3	80.1	82.5	82.5	82.5
Efficiency (%)	75%	85.5	83.3	83.1	83.1	84.0	84.0	84.0
	100%	85.5	83.5	84.0	84.0	82.5	84.0	84.0
	25%	0.47	0.45	0.42	0.40	0.54	0.51	0.48
Dower Feeter	50%	0.71	0.69	0.66	0.64	0.79	0.76	0.73
Power Factor	75%	0.80	0.81	0.78	0.76	0.86	0.84	0.83
	100%	0.86	0.87	0.85	0.83	0.90	0.89	0.88

Non drive end Foundation loads Drive end

Bearing type 6206 ZZ 6204 ZZ Max. traction : 81 lb Sealing V'Ring V'Ring : 135 lb Max. compression Lubrication interval

Lubricant amount Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 5.60A SF 1.15 SFA 6.43A

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

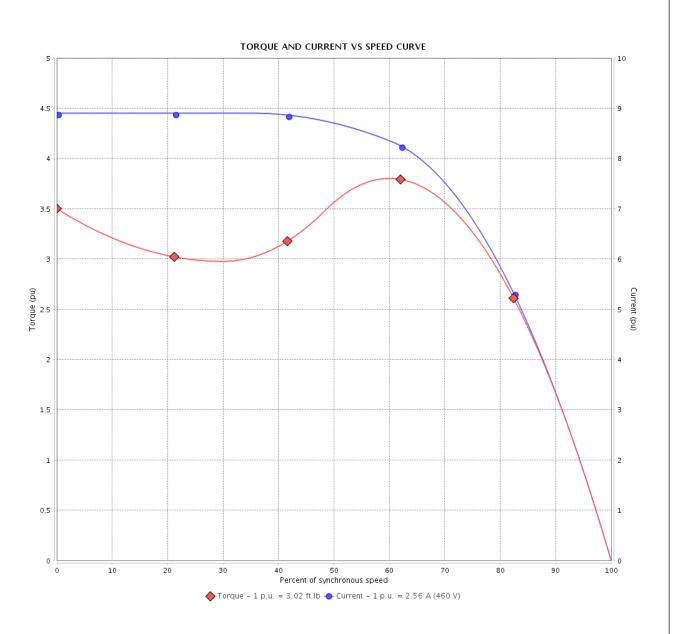


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 00236ET3E145JM-W22

11642183



Performance : 230/460 V 60 Hz 2P Rated current : 5.12/2.56 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 8.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 3.02 ft.lb Service factor Locked rotor torque : 350 % : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 3475 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: 11642183 Catalog #: 00236ET3E145JM-W22 TORQUE AND CURRENT VS SPEED CURVE

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2.5										
2								\		
1.5										
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0	10	20	30	40	50 of synchronous	60	70	80	90	100

Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 2.30 A	Moment of inertia (J)	: 0.0605 sq.ft.lb
LRC	: 8.5	Duty cycle	: Cont.(S1)
Rated torque	: 2.73 ft.lb	Insulation class	:F
Locked rotor torque	: 370 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 2885 rpm	Design	: B

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

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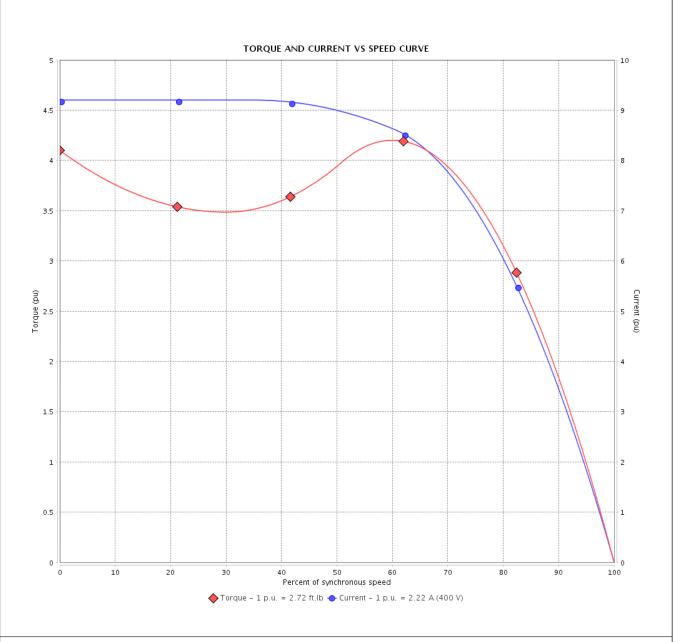
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11642183

Catalog #: 00236ET3E145JM-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 2.22 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 9.2 Duty cycle : Cont.(S1) : F : 2.72 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 409 % : 1.25 Breakdown torque : 420 % Temperature rise : 80 K Rated speed : 2895 rpm Design : B

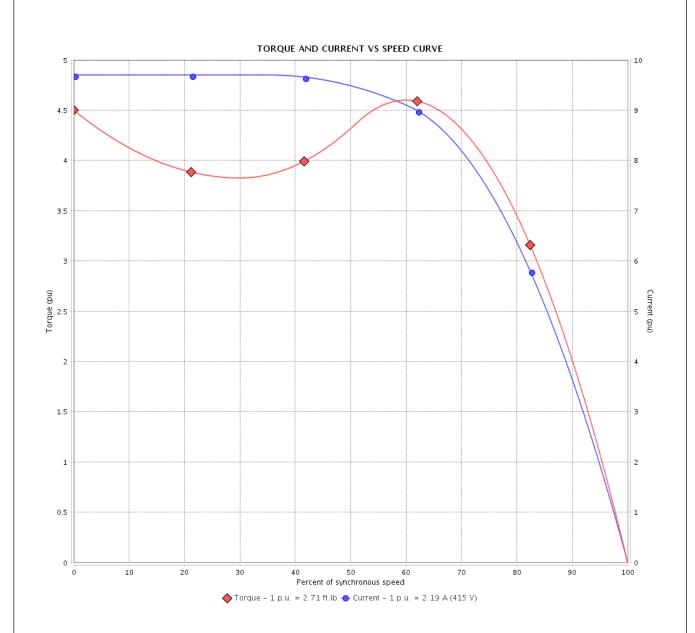
Locked rotor time : 25s (cold) 14s (hot)

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#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11642183 Catalog #: 00236ET3E145JM-W22



Performance : 415 V 50 Hz 2P IE3 Rated current : 2.19 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 9.7 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 2.71 ft.lb Locked rotor torque : 450 % Service factor : 1.25 Breakdown torque : 459 % Temperature rise : 80 K : B Rated speed : 2905 rpm Design Locked rotor time : 25s (cold) 14s (hot)

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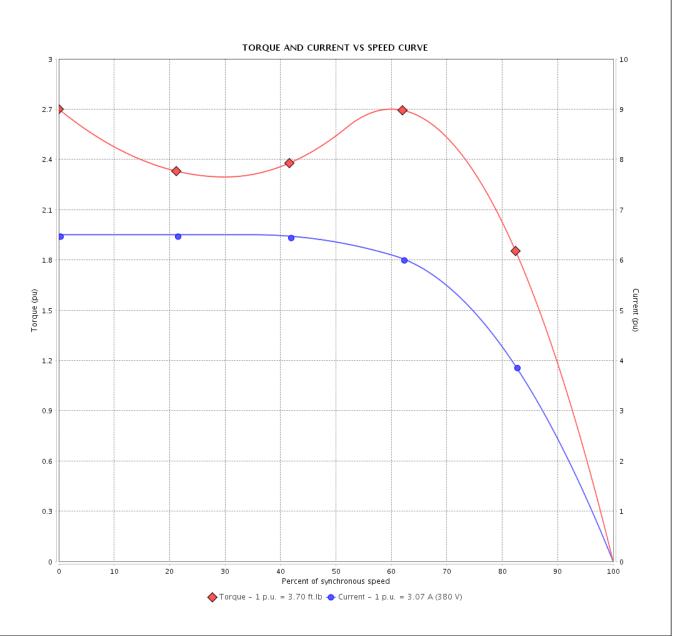


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11642183

Phase

Catalog #: 00236ET3E145JM-W22



Performance	: 380 V 50 Hz 2P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.07 A : 6.5 : 3.70 ft.lb : 270 % : 270 % : 2835 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Locked rotor time	: 25s (cold) 14s (hot)			

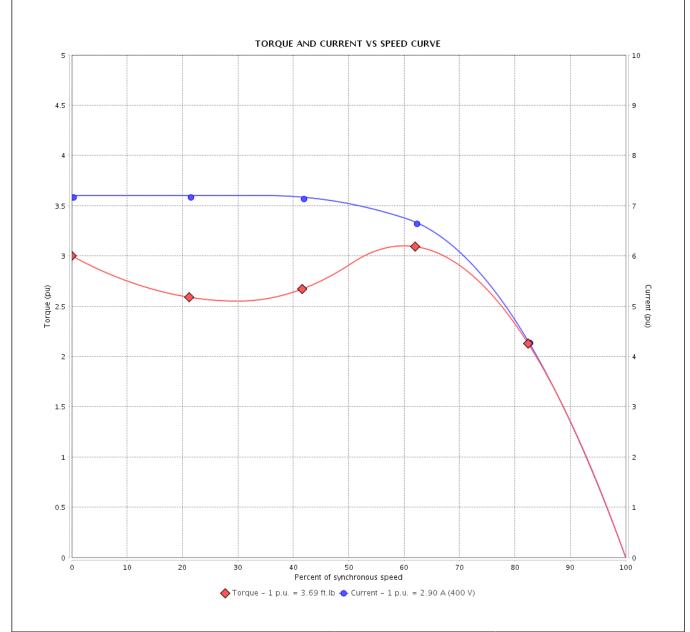
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11642183
Phase Catalog # : 00236ET3E145JM-W22



Performance	: 400 V 50 Hz 2P IE2			
Rated current	: 2.90 A	Moment of inertia (J)	: 0.0605 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 3.69 ft.lb	Insulation class	:F	
Locked rotor torque	: 300 %	Service factor	: 1.25	
Breakdown torque	: 310 %	Temperature rise	: 80 K	
Rated speed	: 2850 rpm	Design	: B	
Locked rotor time	: 25s (cold) 14s (hot)	L		

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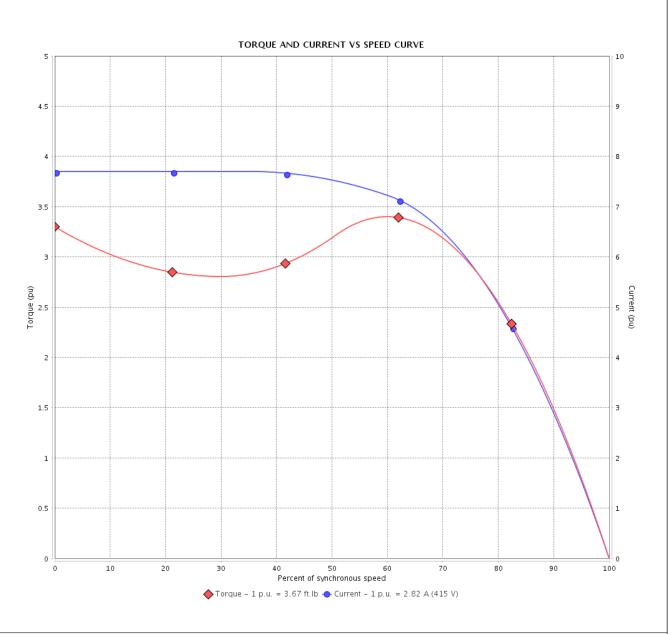


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11642183

Phase

Catalog #: 00236ET3E145JM-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 2.82 A Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : F : 3.67 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 330 % : 1.25 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 2865 rpm Design : B

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

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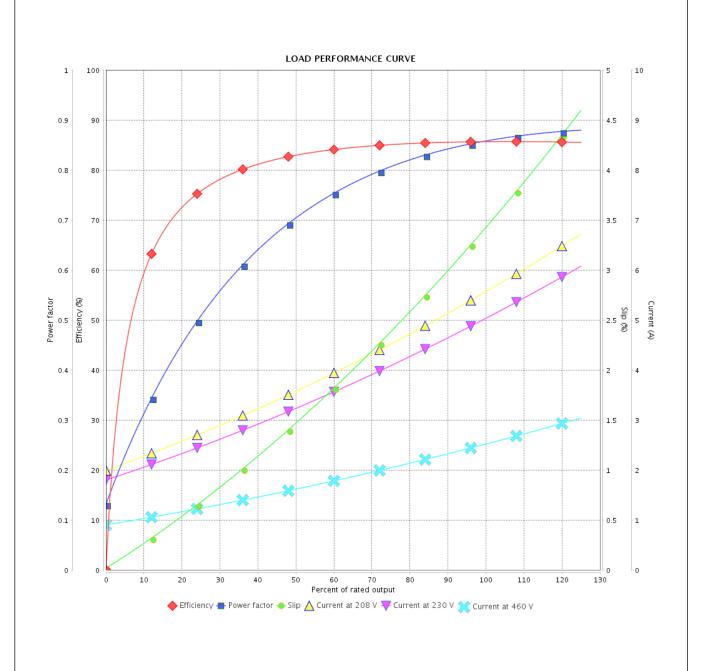


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11642183

Phase

Catalog #: 00236ET3E145JM-W22



Performance	: 2	230/460 V 60 Hz 2P				
Rated current		5.12/2.56 A	Moment o	f inertia (J)	: 0.0605 sq.ft	.lb
LRC		3.9	Duty cycle	` '	: Cont.(S1)	
Rated torque	: 3	3.02 ft.lb	Insulation		: F	
Locked rotor tord	que : 3	350 %	Service fa	ctor	: 1.25	
Breakdown torque		880 %	Temperati	Temperature rise		
Rated speed	: 3	3475 rpm	Design		: B	
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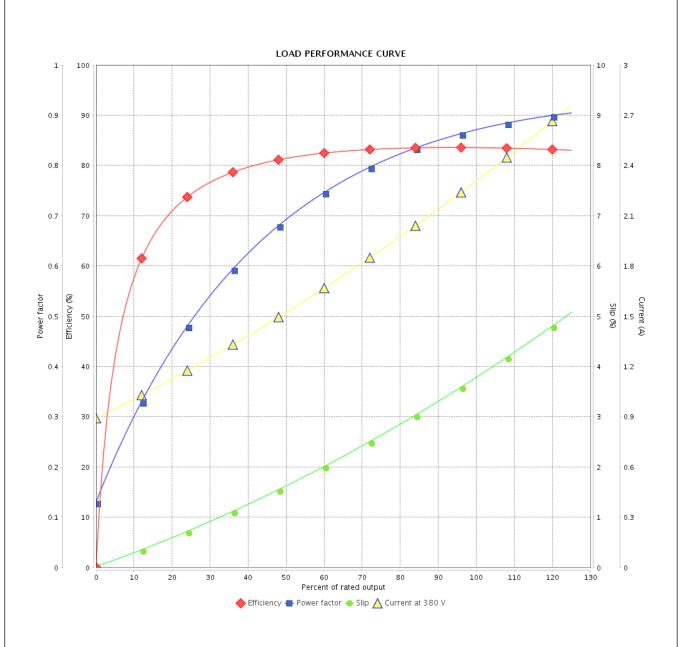
Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11642183

Catalog #: 00236ET3E145JM-W22

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.30 A : 8.5 : 2.73 ft.lb : 370 % : 370 % : 2885 rpm	Moment of inertia (J) : 0.0605 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.25  Temperature rise : 80 K  Design : B		b	
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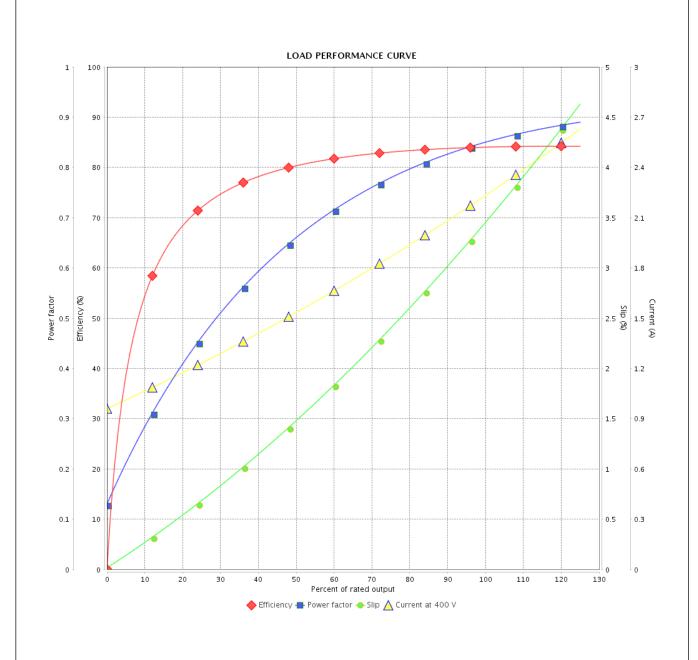
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11642183

Phase

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.22 A : 9.2 : 2.72 ft.lb : 409 % : 420 % : 2895 rpm	Moment of inertia (J) : 0.0605 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.25  Temperature rise : 80 K  Design : B		lb	
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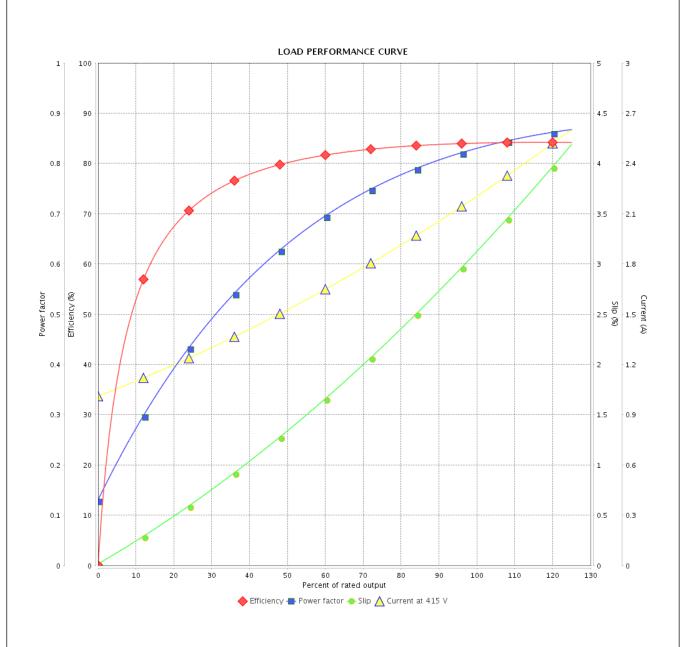
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 11642183

Catalog #: 00236ET3E145JM-W22



Performance : 415 V 50 Hz 2P IE3 : 2.19 A Rated current Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 9.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 2.71 ft.lb : F Locked rotor torque : 450 % Service factor : 1.25 Breakdown torque : 459 % Temperature rise : 80 K Rated speed : 2905 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage



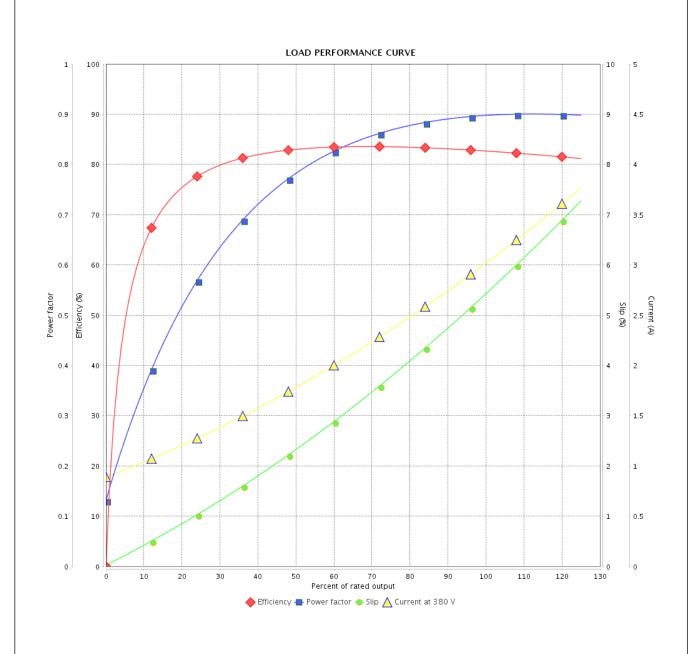
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Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 3.07 A : 6.5 : 3.70 ft.lb : 270 %	Moment of Duty cycle Insulation of Service fact Temperatu	class	: 0.0605 sq.ft. : Cont.(S1) : F : 1.25 : 80 K	b
Rated speed  Rev.	: 2835 rpm  Changes Summary	Design	Performed	: B Checked	Date
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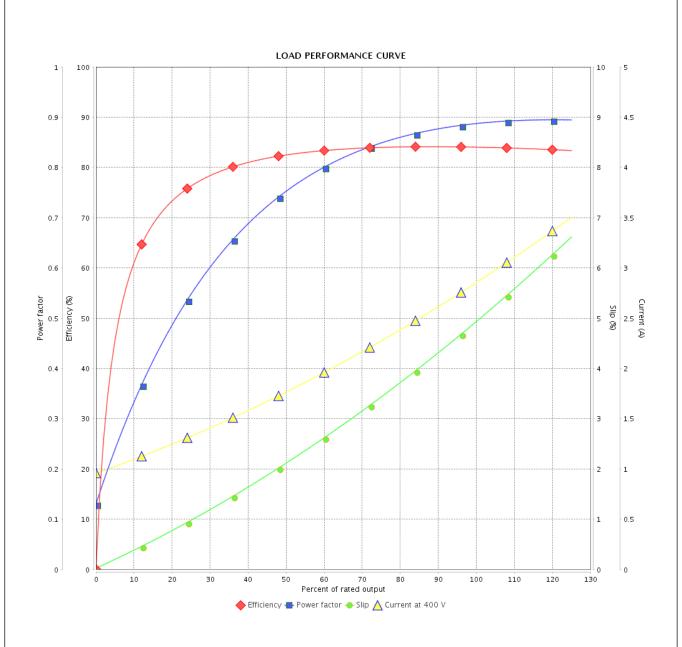
Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11642183

Catalog #: 00236ET3E145JM-W22

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Performance	:	400 V 50 Hz 2P IE2	2			
Rated current : 2.90 A LRC : 7.2 Rated torque : 3.69 ft.lb Locked rotor torque : 300 % Breakdown torque : 310 % Rated speed : 2850 rpm		7.2 3.69 ft.lb 300 % 310 %	Duty cycle Insulation Service fa	Moment of inertia (J) : 0.0605 sq.ft.lb  Duty cycle : Cont.(S1)  Insulation class : F  Service factor : 1.25  Temperature rise : 80 K  Design : B		lb
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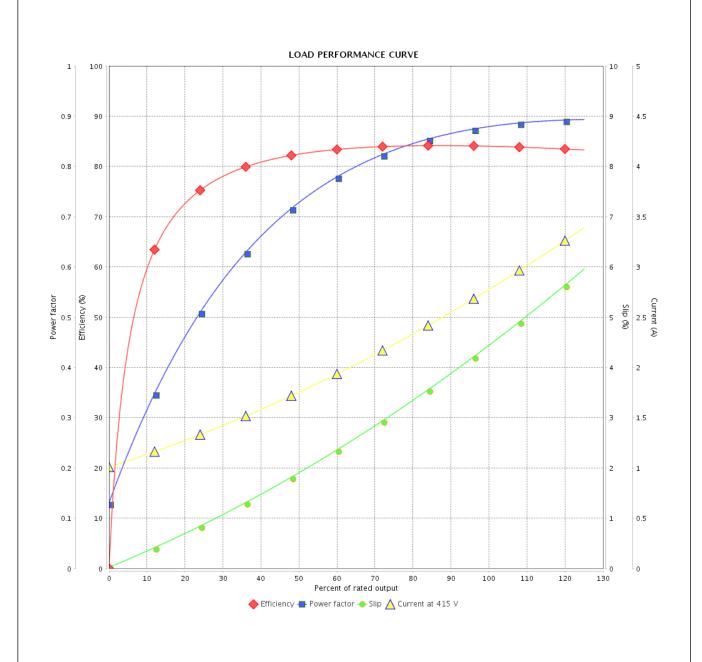


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11642183

Phase

Catalog #: 00236ET3E145JM-W22



Performance	:	415 V 50 Hz 2P IE2				
Rated current	:	2.82 A	Moment o	f inertia (J)	: 0.0605 sq.ft.ll	b
LRC	:	7.7	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque	:	3.67 ft.lb	Insulation	class	:F	
Locked rotor torque	e :	330 %	Service fa	ctor	: 1.25	
Breakdown torque	:	340 %	Temperati	Temperature rise		
Rated speed	:	2865 rpm	Design		: B	
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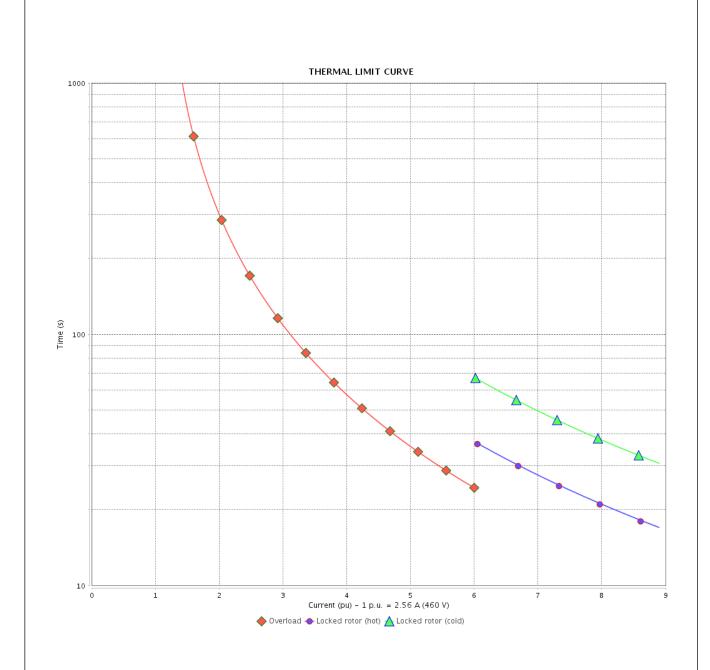


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Product line		NEMA Premium Efficiency	Three-	Product code :	11642183	
	Р	hase		Catalog # :	00236ET3E1	45JM-W22
Performance	. 24	30/460 V 60 Hz 2P				
Rated current		.12/2.56 A	Moment o	f inertia (J)	: 0.0605 sq.ft.l	b
LRC	: 8.	9	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torque		.02 ft.lb 50 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 38	80 %	Temperati		: 80 K	
Rated speed	: 34	475 rpm	Design		: B	
Heating constant						
Cooling constant  Rev.		Changes Summary		Performed	Checked	Date
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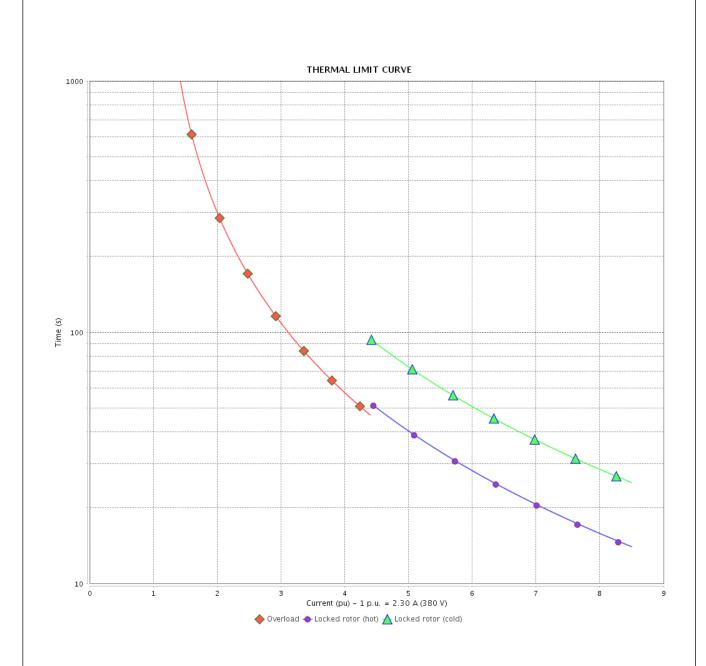


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Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11642183 00236ET3E1	45JM-W22
Performance		: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque		: 2.30 A : 8.5 : 2.73 ft.lb	Moment of Duty cycle Insulation		: 0.0605 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord	que	: 370 % : 370 %	Service fa Temperat	actor	: 1.25 : 80 K	
Rated speed		: 2885 rpm	Design		: B	
Heating constant						
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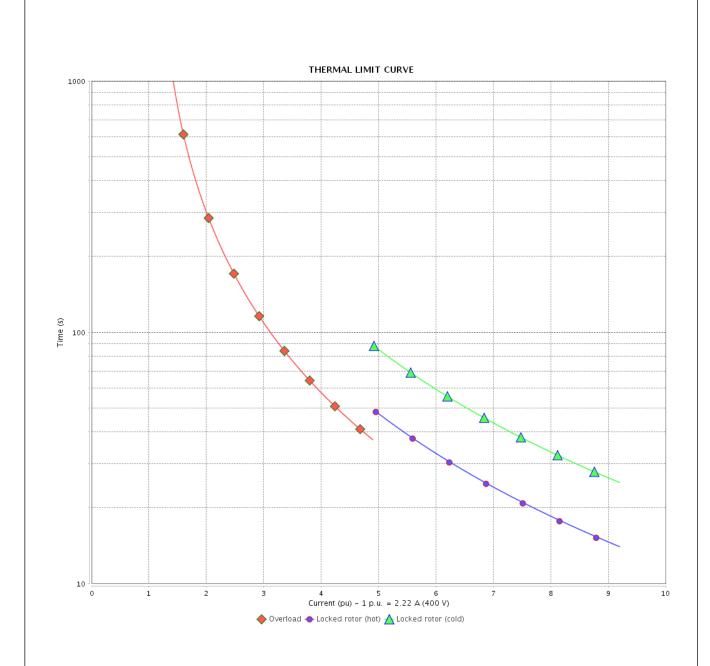


Customer	:					
Product line		NEMA Premium Efficiency <sup>-</sup> hase		Product code : Catalog # :	11642183 00236ET3E14	45JM-W22
Performance		00 V 50 Hz 2P IE3				
Rated current LRC Rated torque	: 9. : 2.	.72 ft.lb	Duty cycle Insulation	class	: 0.0605 sq.ft.lt : Cont.(S1) : F	)
Locked rotor torque Breakdown torque Rated speed	e : 42	09 % 20 % 895 rpm	Service far Temperatu Design		: 1.25 : 80 K : B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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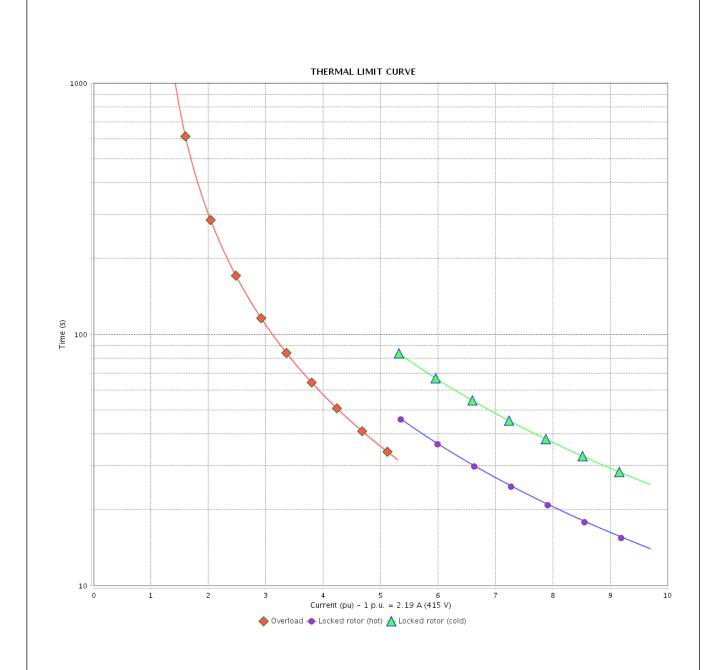


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Product line		IEMA Premium Efficiency <sup>-</sup> nase	Three-	Product code :	11642183	
		1000	(	Catalog # :	00236ET3E14	5JM-W22
Performance	: 41	5 V 50 Hz 2P IE3				
Rated current LRC	: 2. <sup>-</sup> : 9. <sup>-</sup>	19 A 7	Moment of Duty cycle		: 0.0605 sq.ft.lb : Cont.(S1)	
Rated torque	: 2.7	71 ft.lb	Insulation	class	: F	
Locked rotor torq		60 %	Service fa		: 1.25	
Breakdown torqu Rated speed		9 % 105 rpm	Temperatu Design	iie iise	: 80 K : B	
Heating constant			-			
Cooling constant						
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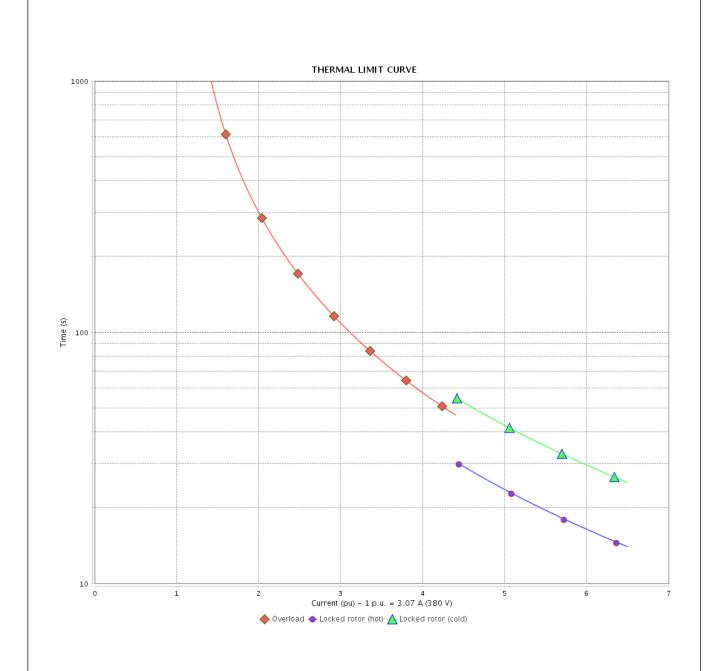


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	11642183	
	P	hase		Catalog # :	00236ET3E1	45JM-W22
Performance Rated current		80 V 50 Hz 2P IE2 07 A	Momonto	f inertia (J)	: 0.0605 sq.ft.l	<u></u>
LRC	: 6.	5	Duty cycle	<b>;</b>	: 0.0605 sq.ft.l : Cont.(S1)	<b>-</b>
Rated torque Locked rotor torque		.70 ft.lb 70 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 27	70 %	Temperatu		: 80 K	
Rated speed	: 28	835 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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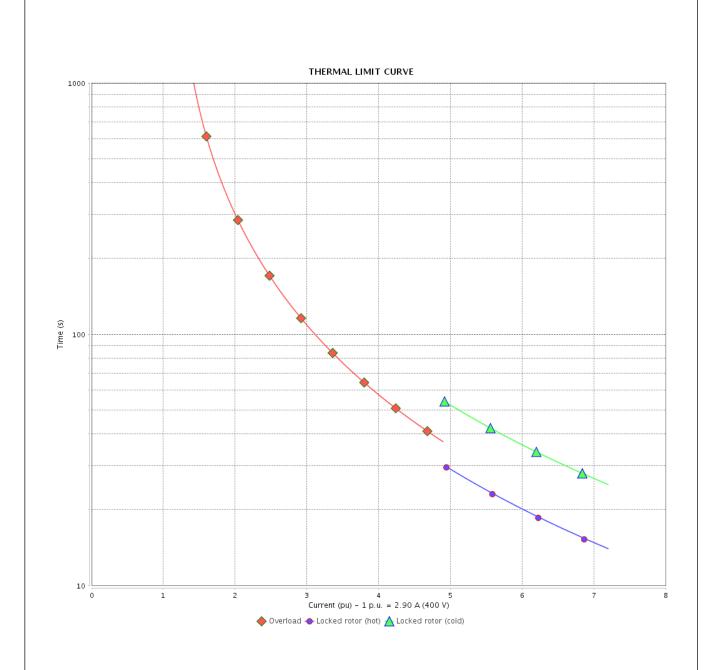


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11642183 00236ET3E1	45JM-W22
Performance		400 V 50 Hz 2P IE2				
Rated current LRC	:	2.90 A 7.2	Duty cycle		: 0.0605 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor torc		3.69 ft.lb 300 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ie :	310 %	Temperat		: 80 K	
Rated speed		2850 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary	<u> </u>	Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage

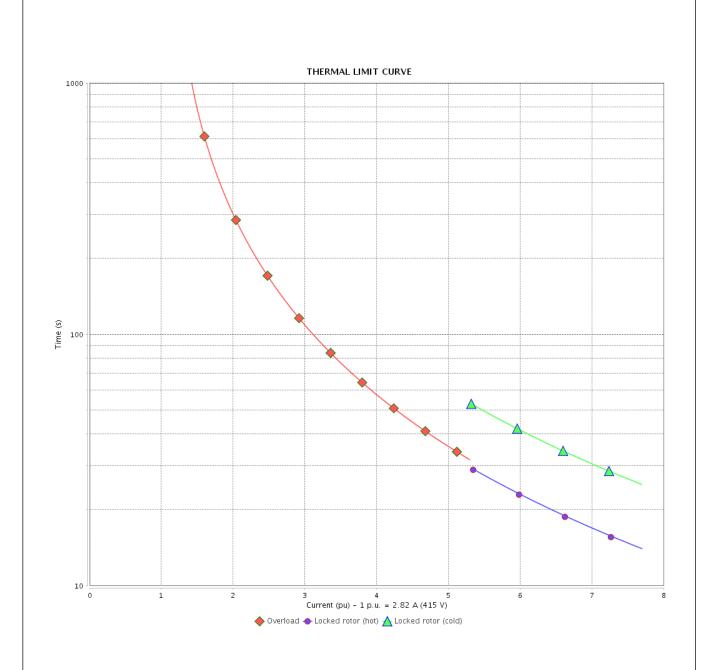


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11642183 00236ET3E1	45JM-W22
Performance		: 415 V 50 Hz 2P IE2				
Rated current LRC		: 2.82 A : 7.7	Moment of Duty cycle	of inertia (J) e	: 0.0605 sq.ft.l : Cont.(S1)	b
Rated torque Locked rotor tord		: 3.67 ft.lb : 330 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ue	: 340 %	Temperat		: 80 K	
Rated speed		: 2865 rpm	Design		: B	
Heating constan						
Cooling constant	Ţ.	Changes Summary		Performed	Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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Customer :

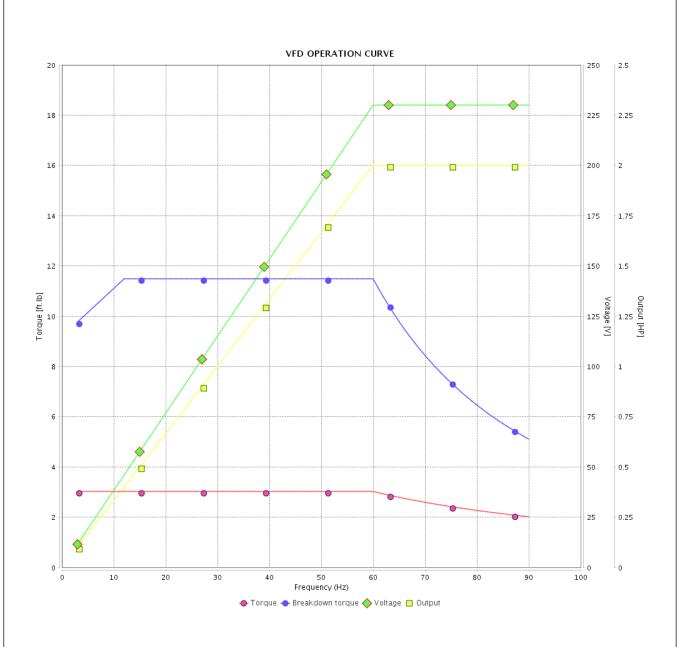
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11642183

Catalog #: 00236ET3E145JM-W22

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Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.12/2.56 A : 8.9 : 3.02 ft.lb : 350 % : 380 % : 3475 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0605 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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### Three Phase Induction Motor - Squirrel Cage



Customer

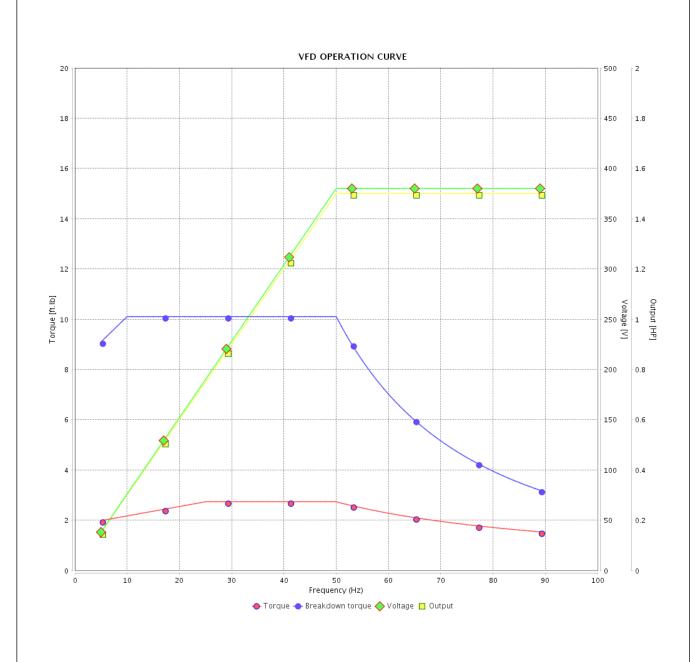
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 00236ET3E145JM-W22

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.30 A : 8.5 : 2.73 ft.lb : 370 % : 370 % : 2885 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0605 sq.ft. : Cont.(S1) : F : 1.25 : 80 K : B	lb
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

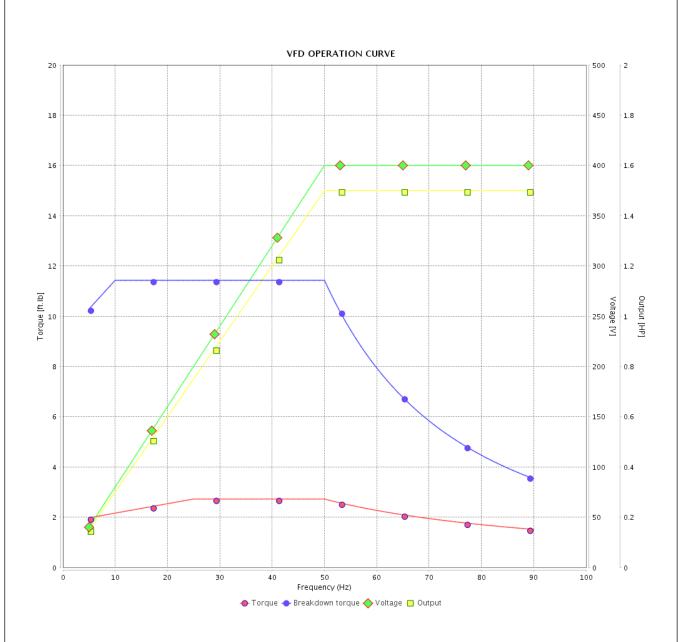
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11642183

Catalog #: 00236ET3E145JM-W22

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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC	: 2.22 A : 9.2	Duty cycle		: 0.0605 sq.ft. : Cont.(S1)	lb
Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.72 ft.lb : 409 % : 420 % : 2895 rpm	Insulation Service fa Temperati Design	ctor	: F : 1.25 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



Customer

Date

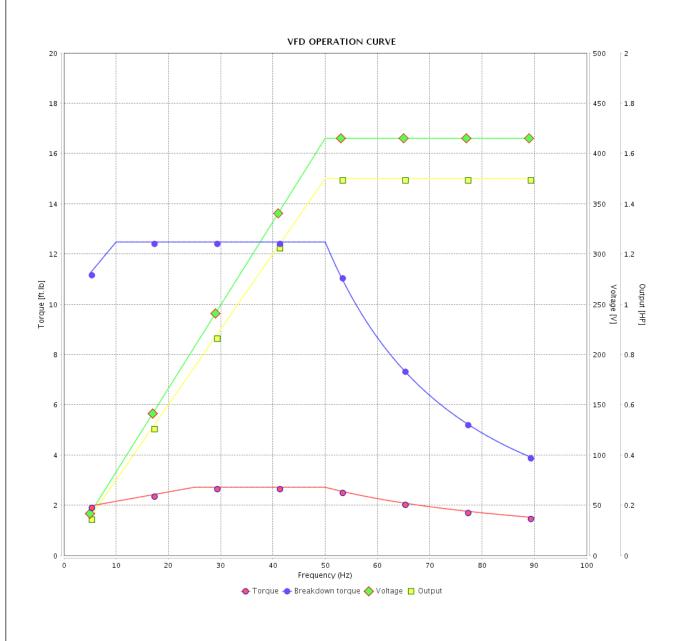
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Product line : NEMA Premium Efficiency Three- Product code : 11642183

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.19 A : 9.7 : 2.71 ft.lb : 450 % : 459 % : 2905 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



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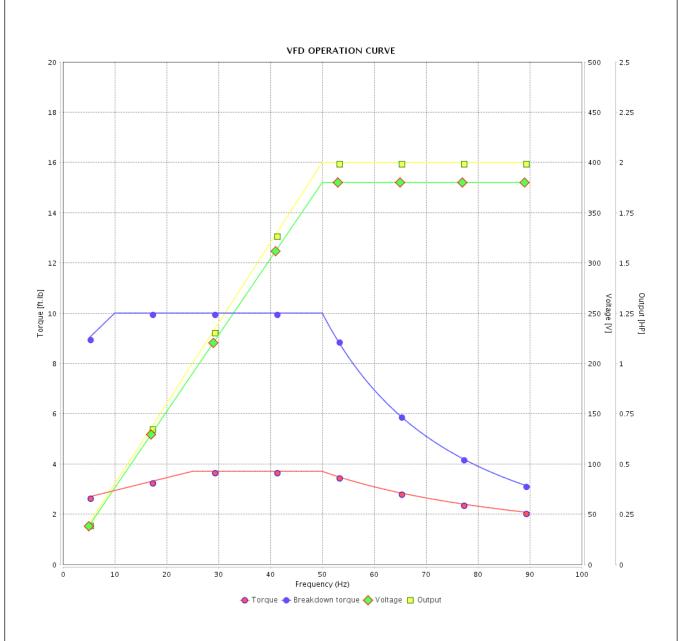
Product line : NEMA Premium Efficiency Three-

Phase

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Performance	: 380 V 50 Hz 2P IE2				
Rated current	: 3.07 A	Moment of inertia (J)		: 0.0605 sq.ft.lb	
LRC	: 6.5	Duty cycle		: Cont.(S1)	
Rated torque	: 3.70 ft.lb	Insulation class		: F	
Locked rotor torque	: 270 %	Service factor Temperature rise Design		: 1.25 : 80 K : B	
Breakdown torque	: 270 %				
Rated speed	: 2835 rpm				
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#### Three Phase Induction Motor - Squirrel Cage

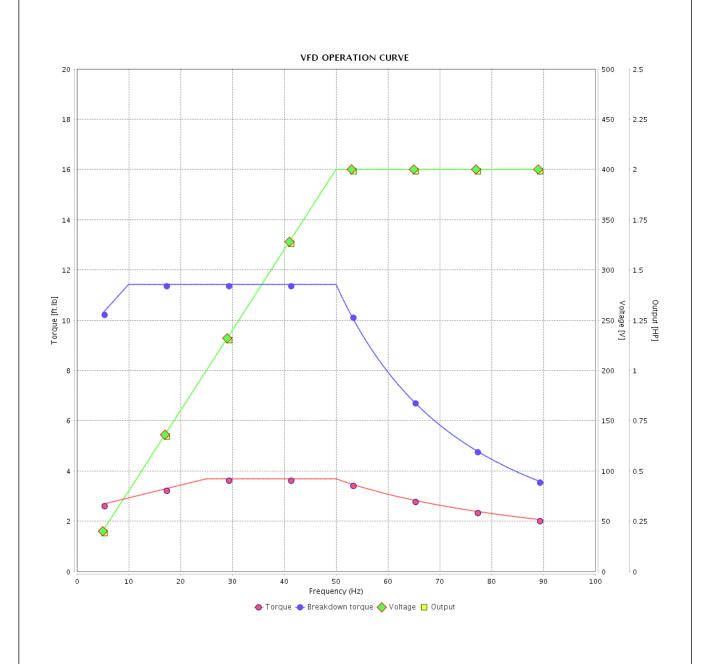


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11642183

Phase

Catalog #: 00236ET3E145JM-W22



Performance	: 4	400 V 50 Hz 2P IE2				
Rated current LRC	: 7.2 Duty cycle		, ,	: 0.0605 sq.ft.lb : Cont.(S1)		
Rated torque Locked rotor torque Breakdown torque	e : 30	.69 ft.lb 00 % 10 %	Insulation class Service factor Temperature rise		: F : 1.25 : 80 K	
Rated speed		350 rpm Design		: B		
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

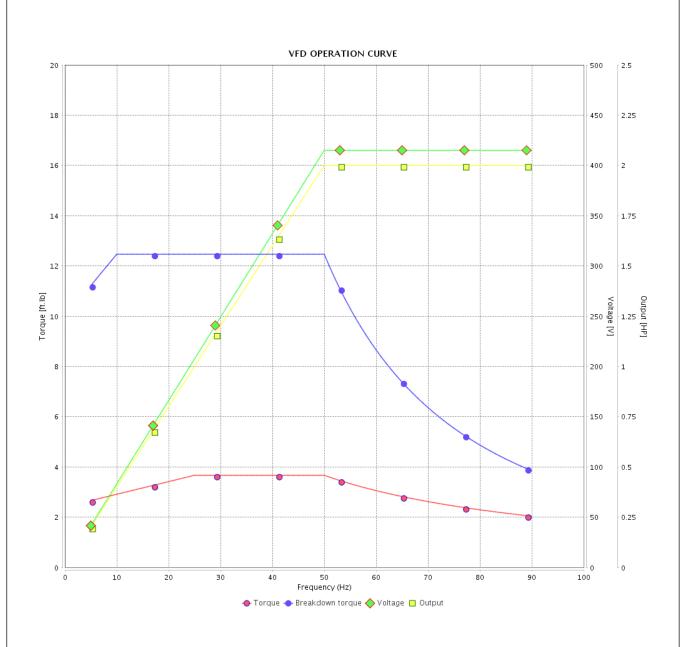
Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 11642183

Catalog #: 00236ET3E145JM-W22

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Performance	: 41	15 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7. : 3. que : 33 ie : 34	82 A 7 67 ft.lb 80 % 10 % 865 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0605 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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