### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11793155

Phase

Catalog #: 00236ET3E145JP-W22

Frame : 143/5JP Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

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

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

Altitude	: 1000 m.a.	s.l.	Approx	. weight <sup>3</sup>	: 5	5.1 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)	9.7x(Code	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 [RPM]	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 torque [%]	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 (%) 50%	82.5	81.4	80.3	80.1	82.5	82.5	82.5
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
Power Factor 50%	0.71	0.69	0.66	0.64	0.79	0.76	0.73
75%	0.80	0.81	0.78	0.76	0.86	0.84	0.83

Drive end Non drive end Foundation loads

0.85

0.83

Bearing type : 6206 ZZ 6204 ZZ Max. traction : 81 lb Sealing : V'Ring V'Ring Max. compression : 136 lb

0.87

Lubricant amount : - Lubricant type : Mobil Polyrex EM

0.86

Notes

Lubrication interval

USABLE @208V 5.60A SF 1.15 SFA 6.43A

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.

0.90

0.89

0.88

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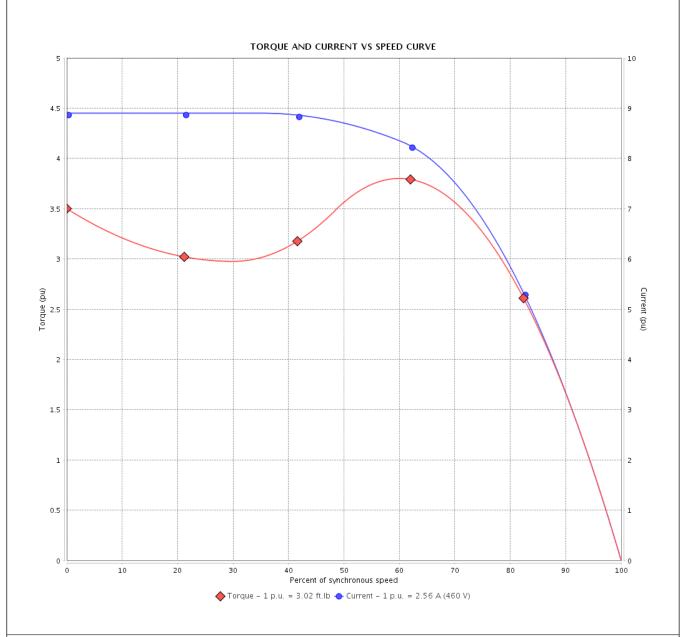
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 11793155

Catalog #: 00236ET3E145JP-W22



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: 11793155 Catalog #: 00236ET3E145JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current Percent of synchronous speed ♦ Torque – 1 p.u. = 2.73 ft.lb ♦ Current – 1 p.u. = 2.30 A (380 V) : 380 V 50 Hz 2P IE3 Performance 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 : 370 % : 1.25 Locked rotor torque Service factor : 370 % : 80 K Breakdown torque Temperature rise : B Rated speed : 2885 rpm Design

Locked rotor time	e : 25	5s (cold) 14s (hot)			
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#### Three Phase Induction Motor - Squirrel Cage



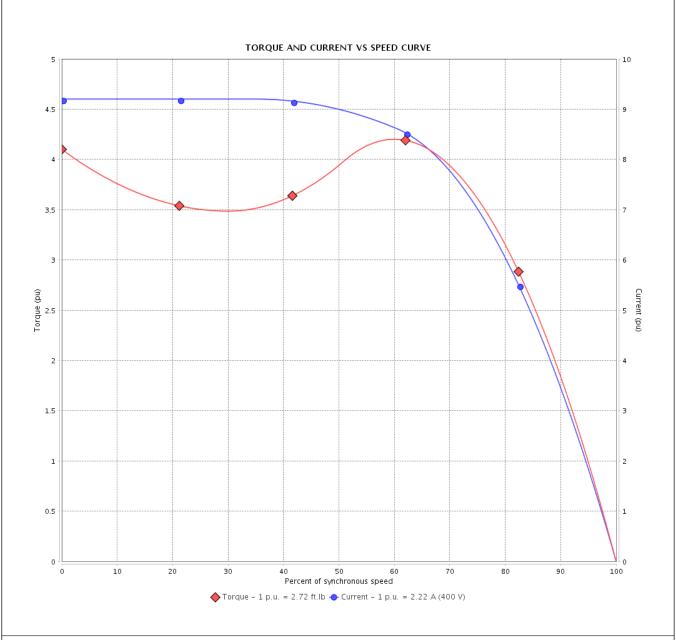
Customer :

Product line : NEMA Premium Efficiency Three- Pro

Phase

Product code: 11793155

Catalog #: 00236ET3E145JP-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

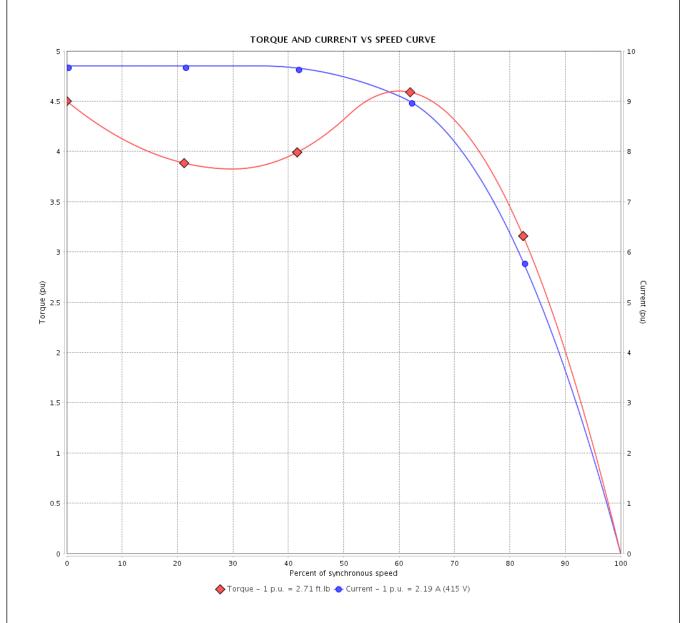
Locked rotor time : 25s (cold) 14s (hot)

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Customer Product line : NEMA Premium Efficiency Three-Product code: 11793155 Catalog #: 00236ET3E145JP-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)
Rated torque	: 2.71 ft.lb	Insulation class	:F
Locked rotor torque	: 450 %	Service factor	: 1.25
Breakdown torque	: 459 %	Temperature rise	: 80 K
Rated speed	: 2905 rpm	Design	: B
Locked rotor time	: 25s (cold) 14s (hot)		

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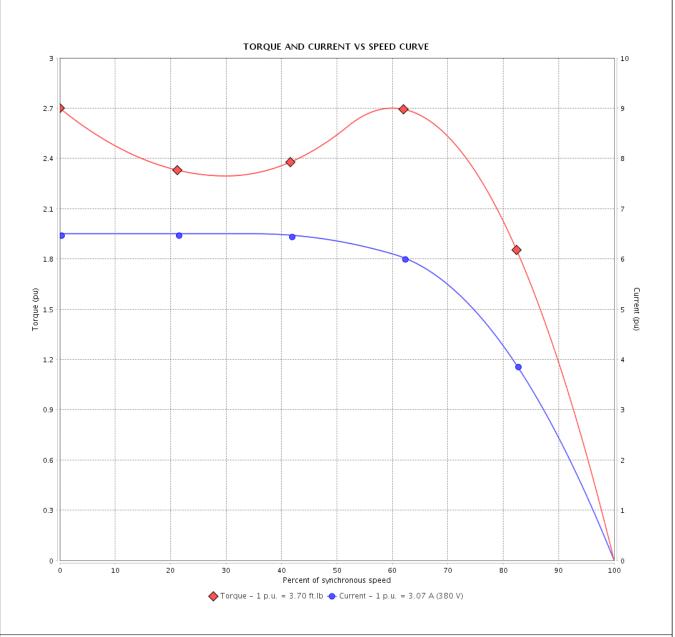
Customer :

Product line : NEMA Premium Efficiency Three- Produ

Phase

Product code: 11793155

Catalog #: 00236ET3E145JP-W22



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) Insulation class Rated torque : 3.70 ft.lb : F : 270 % Locked rotor torque Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 2835 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: 11793155 Catalog #: 00236ET3E145JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current Percent of synchronous speed ♦ Torque – 1 p.u. = 3.69 ft.lb ♦ Current – 1 p.u. = 2.90 A (400 V) : 400 V 50 Hz 2P IE2 Performance 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 : 300 % : 1.25 Locked rotor torque Service factor : 80 K Breakdown torque : 310 % Temperature rise : B Rated speed : 2850 rpm Design

Locked rotor time	e : 25	5s (cold) 14s (hot)			
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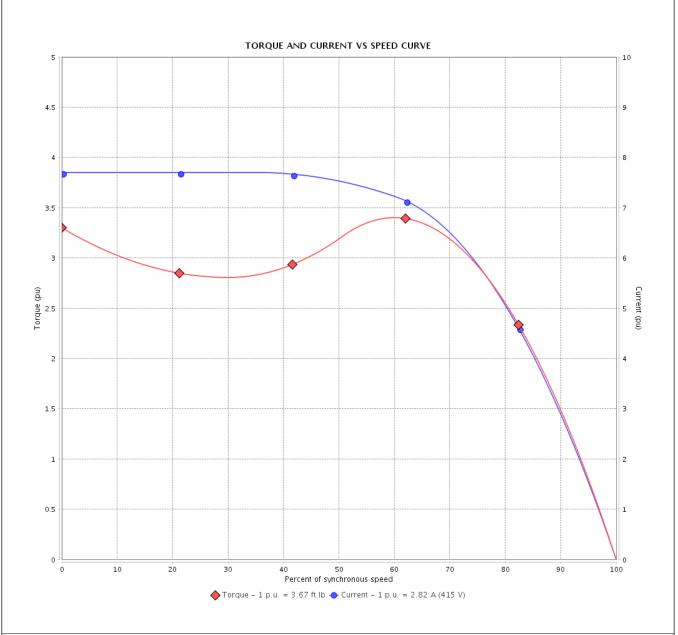
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00236ET3E145JP-W22

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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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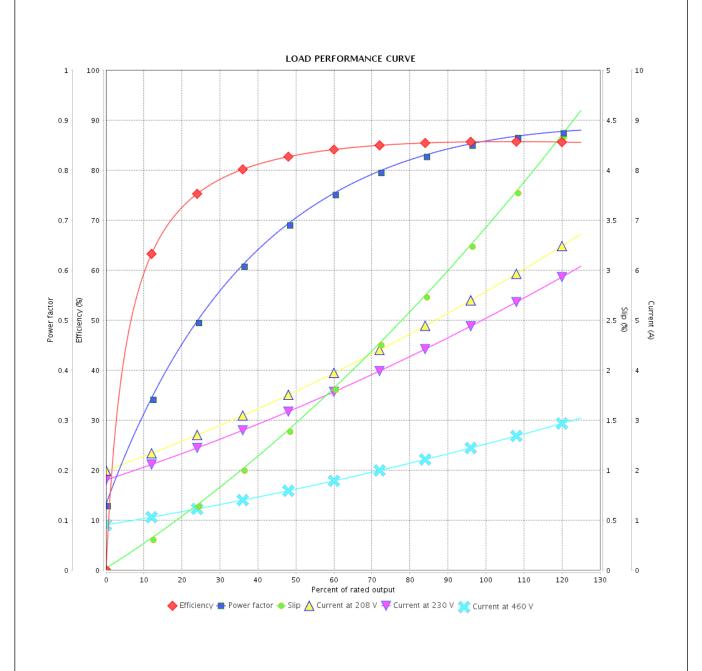


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11793155

Phase

Catalog #: 00236ET3E145JP-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 torqu		880 %	Temperati	ıre rise	: 80 K	
Rated speed	: 3	3475 rpm	Design		: B	
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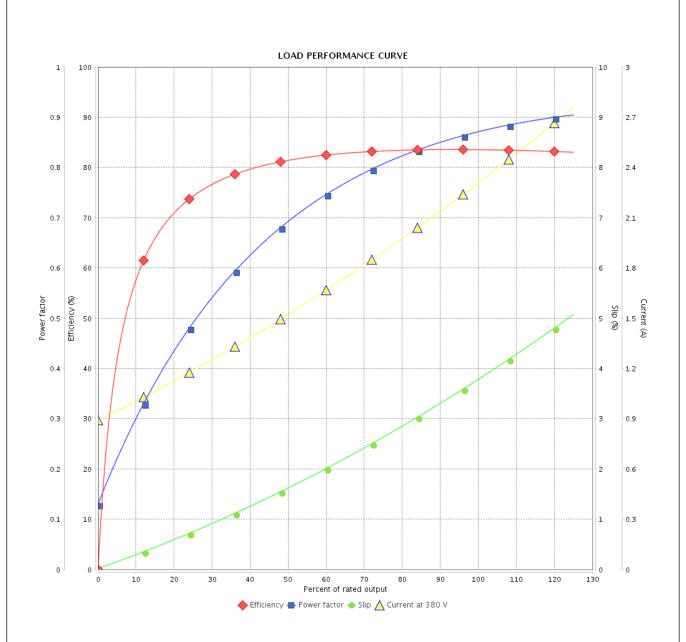
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Phase

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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) Insulation class Rated torque : 2.73 ft.lb : F Locked rotor torque : 370 % Service factor : 1.25 Breakdown torque : 370 % Temperature rise : 80 K Rated speed : 2885 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

#### Three Phase Induction Motor - Squirrel Cage

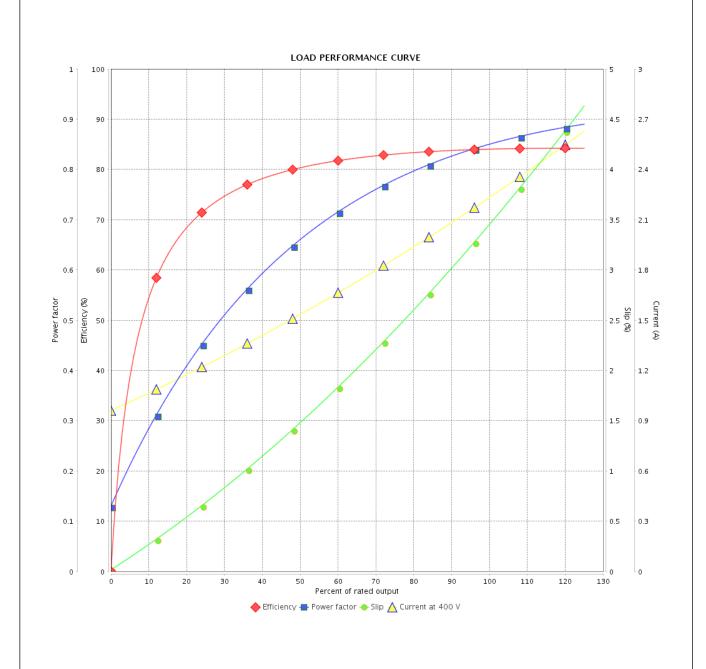


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Product line : NEMA Premium Efficiency Three- Product code : 11793155

Phase

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Performance : 400 V	' EO LI- OD IEO			
. 100 V	<sup>7</sup> 50 Hz 2P IE3			
Rated current : 2.22 A	A Moment of	of inertia (J)	: 0.0605 sq.ft.	lb
LRC : 9.2	Duty cycle	е	: Cont.(S1)	
Rated torque : 2.72 f	t.lb Insulation	class	: F	
Locked rotor torque : 409 %	6 Service fa	actor	: 1.25	
Breakdown torque : 420 %	6 Temperat	ure rise	: 80 K	
Rated speed : 2895	rpm Design		: B	
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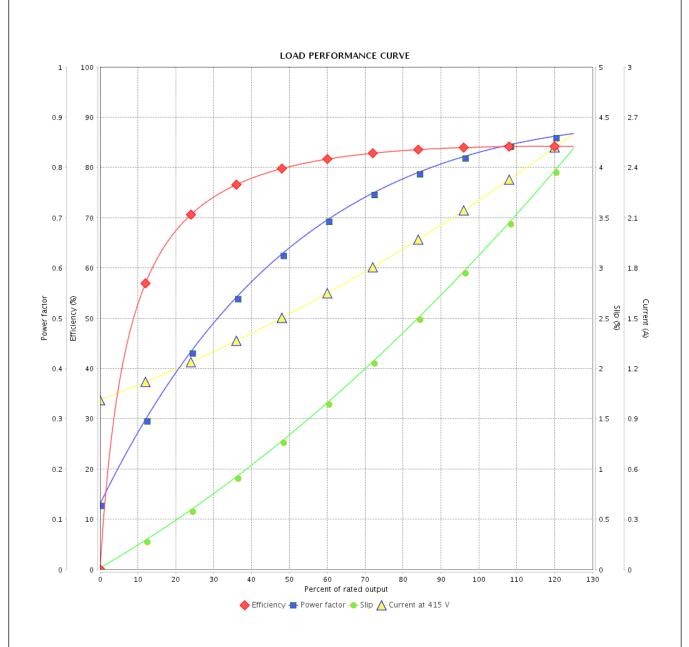
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Product line : NEMA Premium Efficiency Three- Product code :

Phase

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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



Customer :

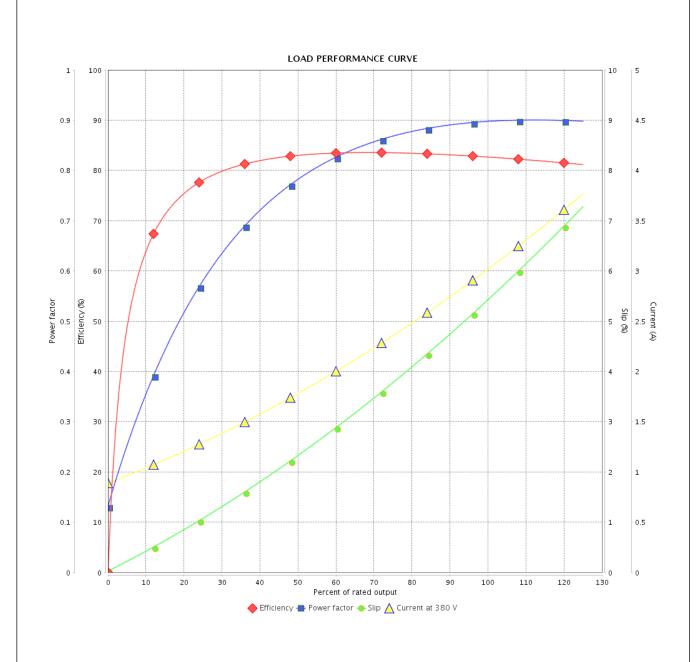
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: 3.07 A : 6.5	1	ertia (J)	: 0.0605 sq.ft.lb	
: 3.70 ft.lb : 270 % : 270 % : 2835 rpm	Duty cycle : Cont.(\$\footnote{\text{Insulation class}} : F Service factor : 1.25 Temperature rise : 80 K		: 1.25 : 80 K	
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	: 270 % : 270 % : 2835 rpm	: 270 % Service facto : 270 % Temperature : 2835 rpm Design	: 270 % Service factor : 270 % Temperature rise : 2835 rpm Design	: 270 %       Service factor       : 1.25         : 270 %       Temperature rise       : 80 K         : 2835 rpm       Design       : B

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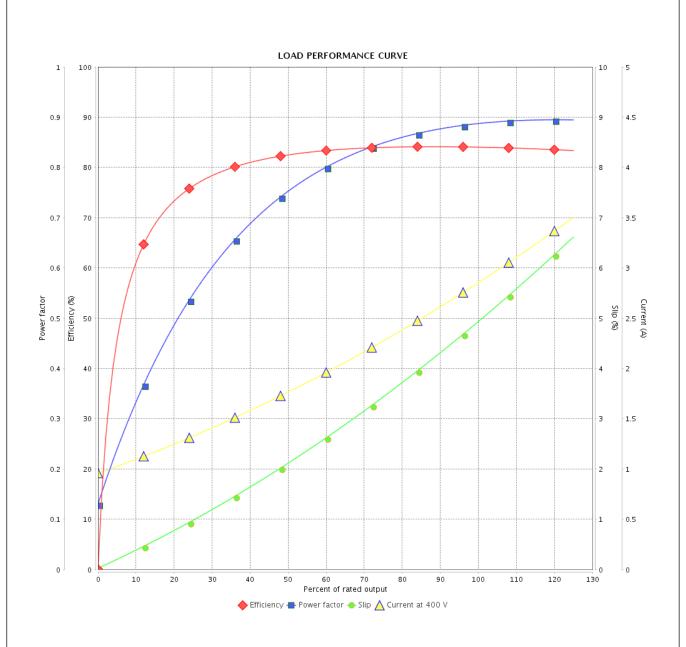
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Performance : 400 V 50 Hz 2P IE2 : 2.90 A Rated current Moment of inertia (J) : 0.0605 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 3.69 ft.lb Insulation class Rated torque : F Locked rotor torque : 300 % Service factor : 1.25 Breakdown torque :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

#### Three Phase Induction Motor - Squirrel Cage



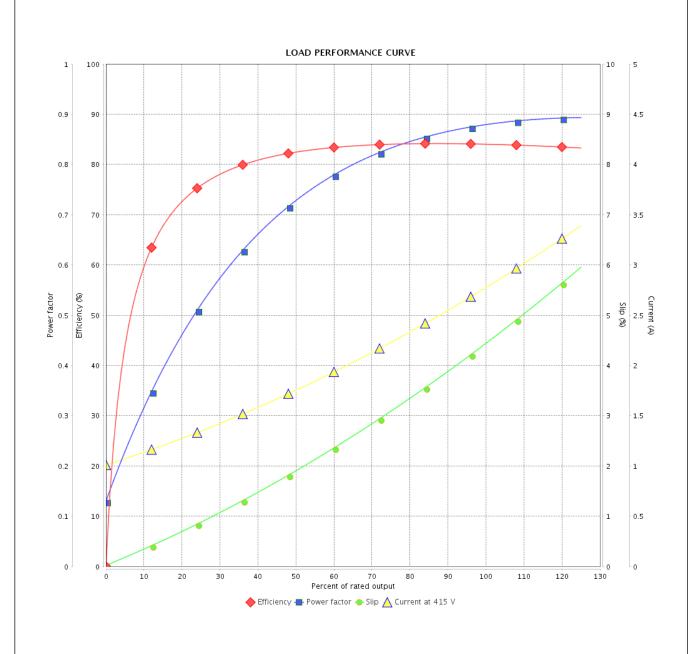
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Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.82 A : 7.7 : 3.67 ft.lb : 330 % : 340 % : 2865 rpm	Moment of inertia (J) : 0.0605 sq.ft.lb Duty cycle : Cont.(S1) Insulation class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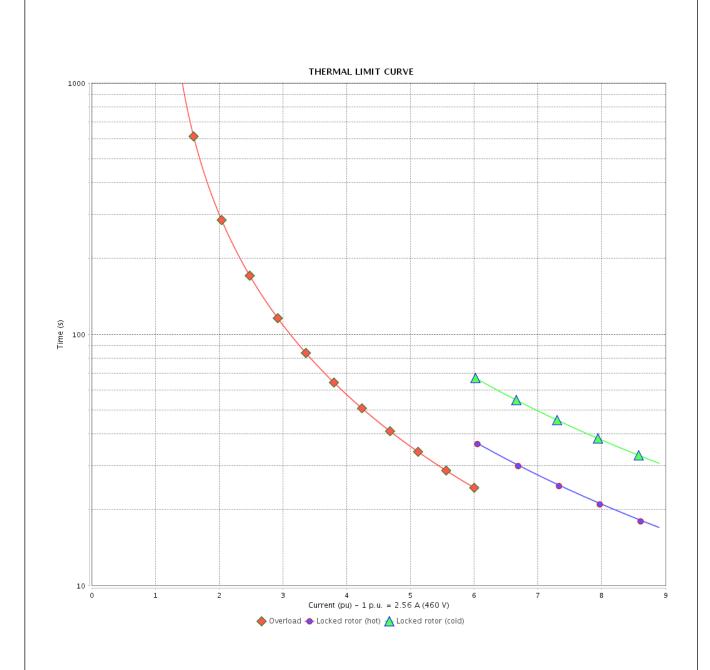


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	11793155	
				Catalog # :	00236ET3E1	45JP-W22
Performance		: 230/460 V 60 Hz 2P				
Rated current LRC		: 5.12/2.56 A : 8.9	Moment o	of inertia (J)	: 0.0605 sq.ft.l	b
Rated torque		: 3.02 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord		: 350 %	Service fa		: 1.25	
Breakdown torqu Rated speed		: 380 % : 3475 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan						
Cooling constant						
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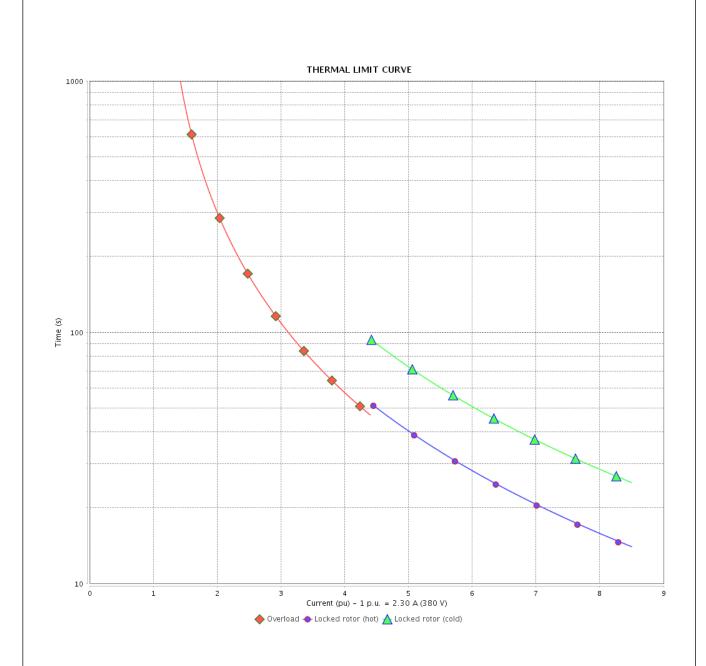


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11793155 00236ET3E1	45JP-W22
Performance	:	380 V 50 Hz 2P IE3				
Rated current LRC Rated torque	:	2.30 A 8.5 2.73 ft.lb	Moment o Duty cycle Insulation		: 0.0605 sq.ft.ll : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu	que :	370 % 370 %	Service fa Temperati	ctor	: 1.25 : 80 K	
Rated speed Heating constant		2885 rpm	Design		: B	
Cooling constant						
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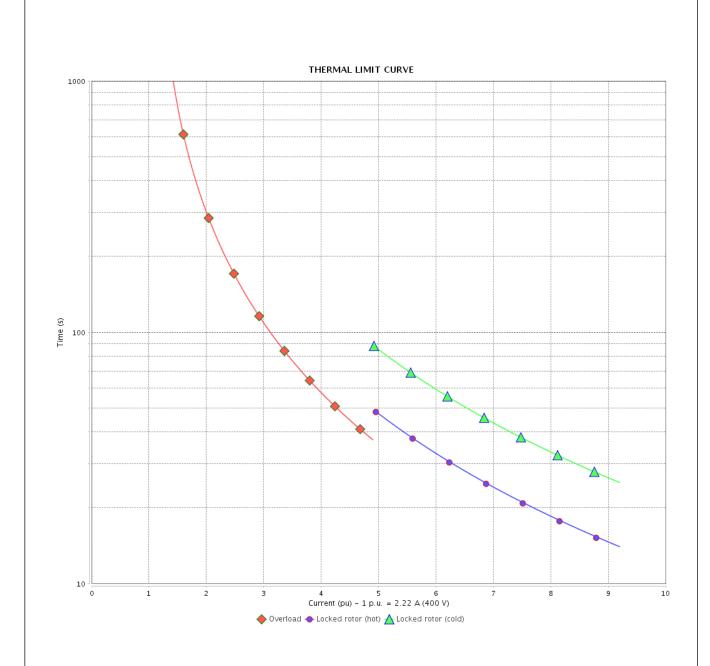


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11793155 00236ET3E1	45JP-W22
Performance		: 400 V 50 Hz 2P IE3				
Rated current LRC		: 2.22 A : 9.2	Moment of Duty cycle	of inertia (J)	: 0.0605 sq.ft.l : Cont.(S1)	b
Rated torque		: 2.72 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 409 % : 420 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 2895 rpm	Design		: B	
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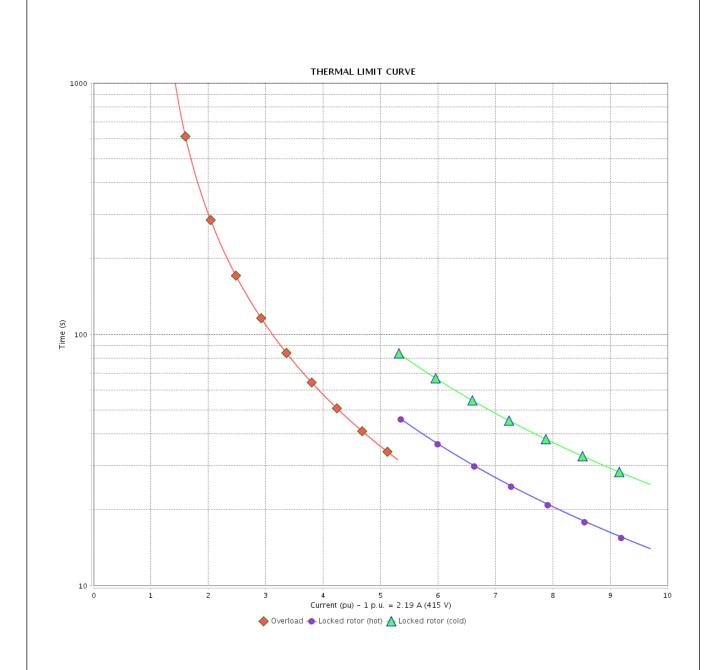


Customer	:				
Product line	: NEMA Premium Efficiend Phase		Product code : Catalog # :	11793155 00236ET3E <sup>2</sup>	145JP-W22
Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque	: 2.19 A : 9.7 : 2.71 ft.lb	Duty cycle Insulation	class	: 0.0605 sq.ft. : Cont.(S1) : F	lb
Locked rotor torque Breakdown torque Rated speed	: 450 % : 459 % : 2905 rpm	Service fa Temperati Design		: 1.25 : 80 K : B	
Heating constant	·				
Cooling constant  Rev.	Changes Summary		Performed	Checked	Date
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## Three Phase Induction Motor - Squirrel Cage



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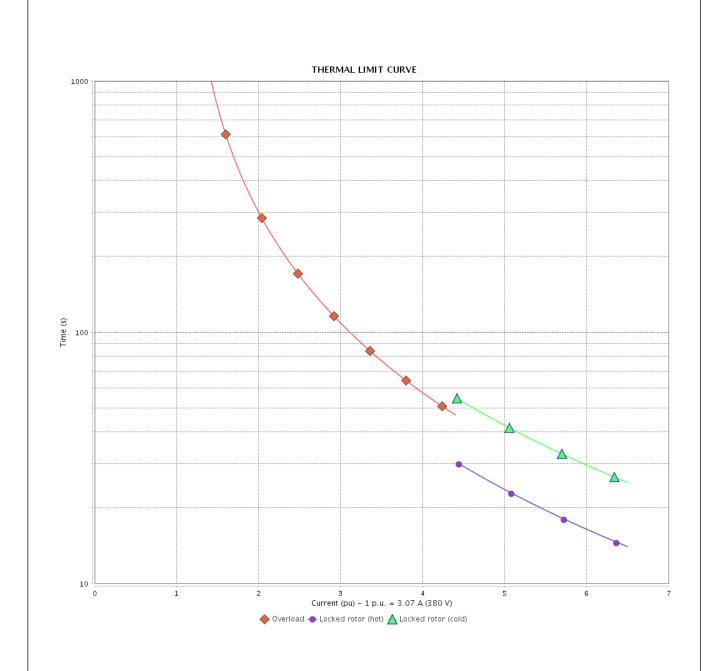


Customer	:				
Product line	: NEMA Pr Phase	emium Efficiency Three-	Product code :	11793155	
	1 11400		Catalog #:	00236ET3E1	45JP-W22
Performance	: 380 V 50 H	dz 2P IE2			
Rated current	: 3.07 A	Mome	nt of inertia (J)	: 0.0605 sq.ft.l	b
LRC Rated torque	: 6.5 : 3.70 ft.lb	Duty o	cycle tion class	: Cont.(S1) : F	
Locked rotor torq	ue : 270 %	Service	e factor	: 1.25	
Breakdown torque			erature rise	: 80 K	
Rated speed	: 2835 rpm	Design	· · · · · · · · · · · · · · · · · · ·	: B	
Heating constant					
Cooling constant Rev.	Change	s 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

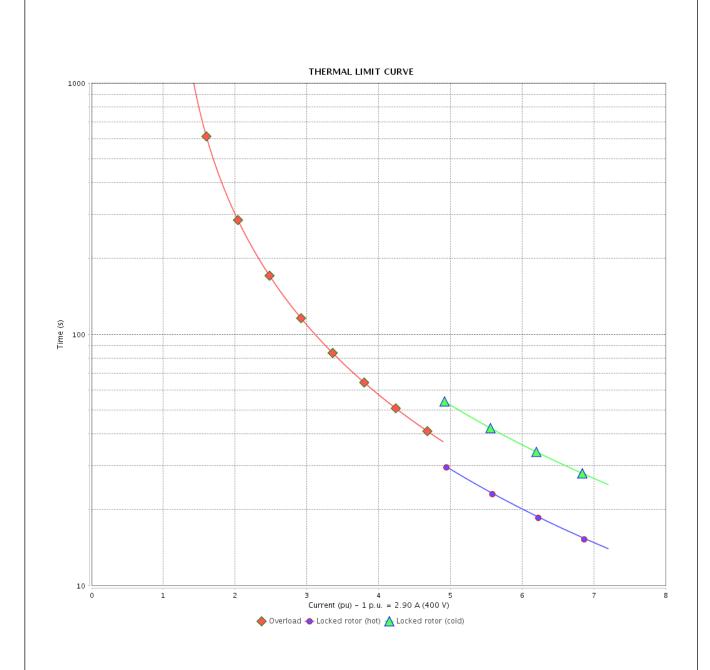


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11793155 00236ET3E1	45JP-W22
Performance		: 400 V 50 Hz 2P IE2				
Rated current LRC		: 2.90 A : 7.2	Moment of Duty cycle	of inertia (J)	: 0.0605 sq.ft.l : Cont.(S1)	b
Rated torque		: 3.69 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 300 % : 310 %	Service fa Temperat		: 1.25 : 80 K	
Rated speed		: 2850 rpm	Design	J. 5 1100	: B	
Heating constan						
Cooling constan	t	Oharana O		D- ( )	Ob. 1	Б.
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### Three Phase Induction Motor - Squirrel Cage

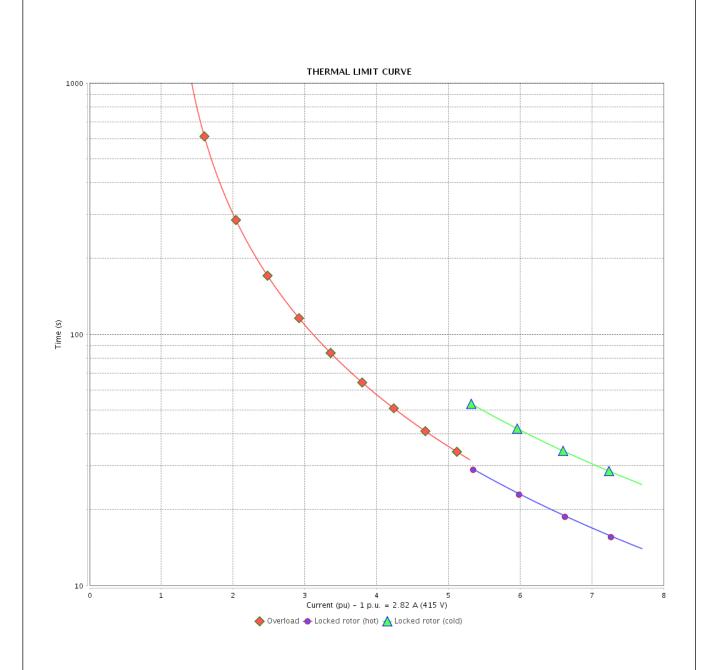


Customer		:				
Product line		: NEMA Premium Efficiency <sup>*</sup> Phase		Product code : Catalog # :	11793155 00236ET3E1	45JP-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torque Rated speed Heating constant	: : : : : : : : : : :	415 V 50 Hz 2P IE2 2.82 A 7.7 3.67 ft.lb 330 % 340 % 2865 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0605 sq.ft.l : Cont.(S1) : F : 1.25 : 80 K : B	b
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 :

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

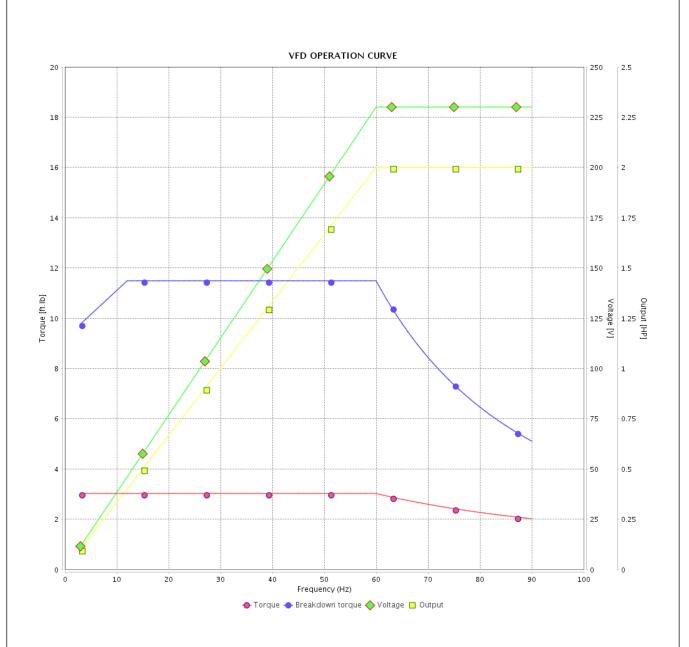
Product code: 11793155

Catalog #: 00236ET3E145JP-W22

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Performance	: 23	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 8. : 3. jue : 38 ie : 38	.12/2.56 A 9 .02 ft.lb 50 % 80 % 475 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
Rev.		Changes Summary		Performed	Checked	Date
Performed by						

## Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 11793155

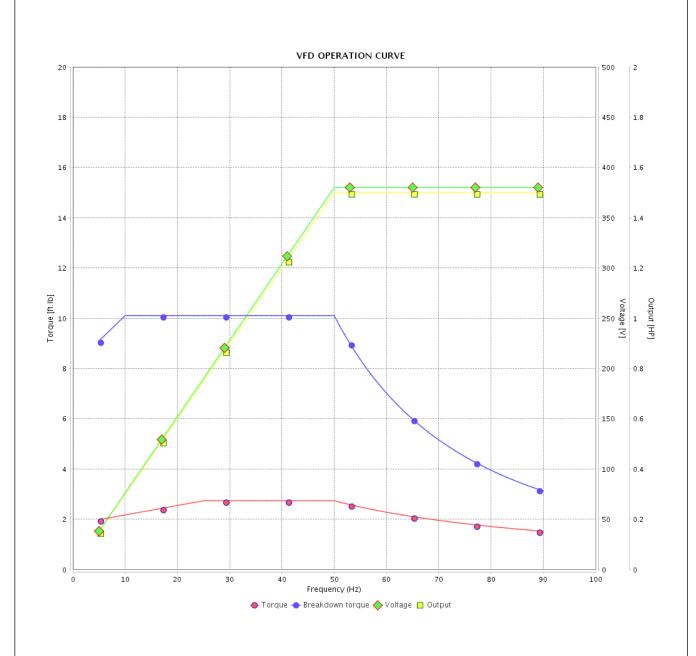
Phase

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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	Duty cycle Insulation class Service factor Temperature ri		: Cont.(S1) class : F actor : 1.25	
Rev.	: 2885 rpm Design  Changes Summary		Performed	Checked	Date
Performed by					

#### Three Phase Induction Motor - Squirrel Cage



Customer :

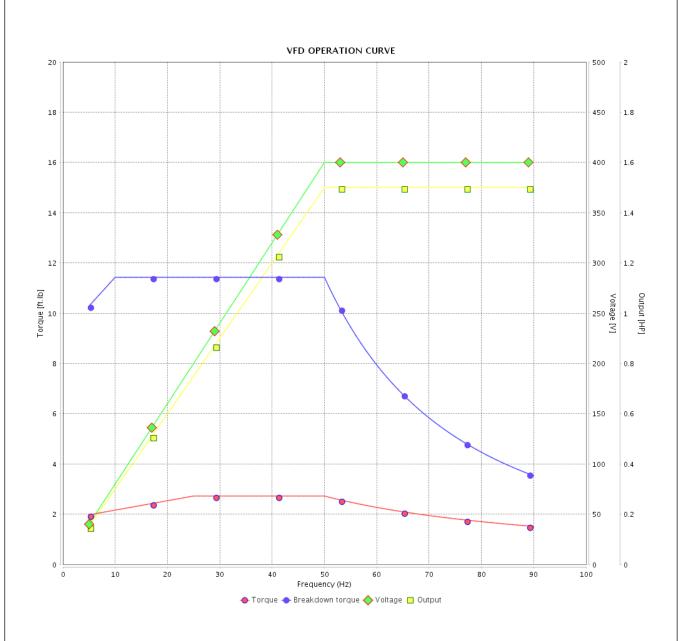
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11793155

Catalog #: 00236ET3E145JP-W22

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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       Moment of inertia (J)       : 0.0605 sq.ff         : 9.2       Duty cycle       : Cont.(S1)         : 2.72 ft.lb       Insulation class       : F         : 409 %       Service factor       : 1.25         : 420 %       Temperature rise       : 80 K         : 2895 rpm       Design       : B		Duty cycle Insulation class Service factor Temperature rise		lb
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Checked by				Page	Revision

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#### Three Phase Induction Motor - Squirrel Cage

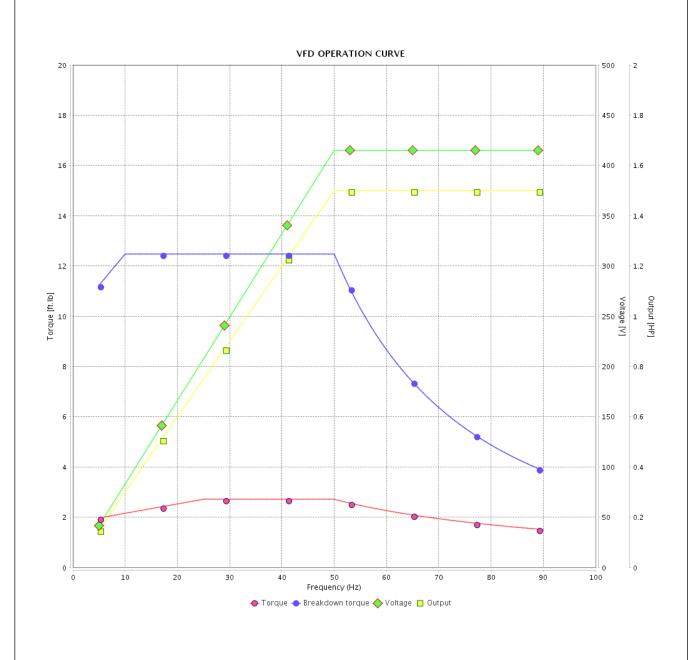


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11793155

Phase

Catalog #: 00236ET3E145JP-W22



Performance : 415 V 50 Hz 2P IE3						
Rated current	: 2	.19 A	Moment of	f inertia (J)	: 0.0605 sq.ft.lb	
LRC	: 9	.7	Duty cycle	)	: Cont.(S1)	
Rated torque	: 2	.71 ft.lb	Insulation	class	: F	
Locked rotor torque : 4		50 %	Service fa	Service factor		
Breakdown torque	: 4	59 %	Temperati	Temperature rise		
Rated speed	: 2	5 rpm Design		: B		
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#### Three Phase Induction Motor - Squirrel Cage



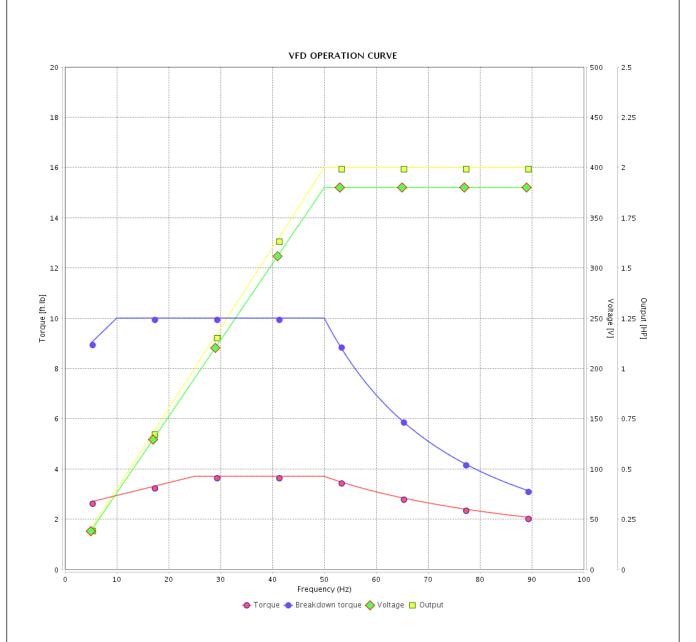
Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11793155

Phase

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Performance	: 380 V 50 Hz 2P IE2			
renormance	. 360 V 30 HZ ZP IEZ			
Rated current	: 3.07 A	Moment of inertia (J)	: 0.0605 sq.ft	lb
		Duty cycle	: Cont.(S1)	
Rated torque	: 3.70 ft.lb	Insulation class	: F	
Locked rotor torque	: 270 %	Service factor	: 1.25	
Breakdown torque	: 270 %	Temperature rise	: 80 K	
Rated speed	: 2835 rpm	Design	: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer

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Date

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Product line : NEMA Premium Efficiency Three- Product code : 11793155

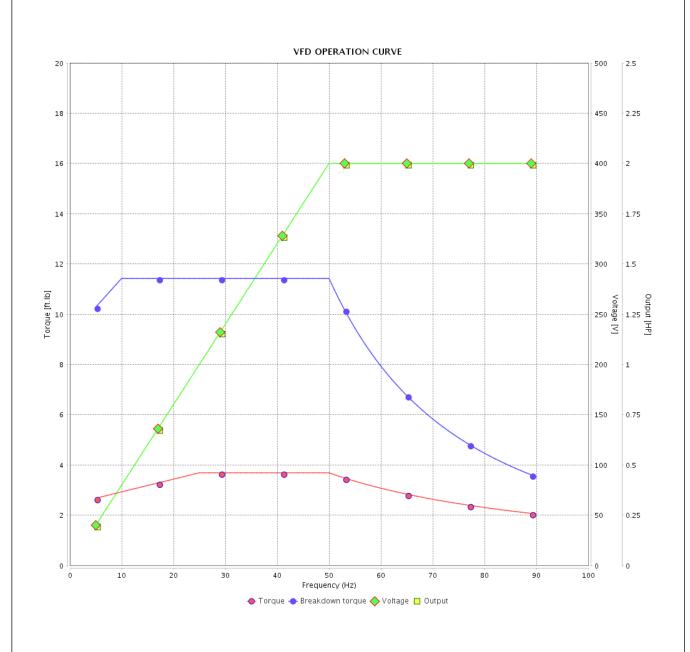
Phase

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Performance	: 400 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.90 A : 7.2 : 3.69 ft.lb : 300 % : 310 % : 2850 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	
Rev.	Changes Summary		Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

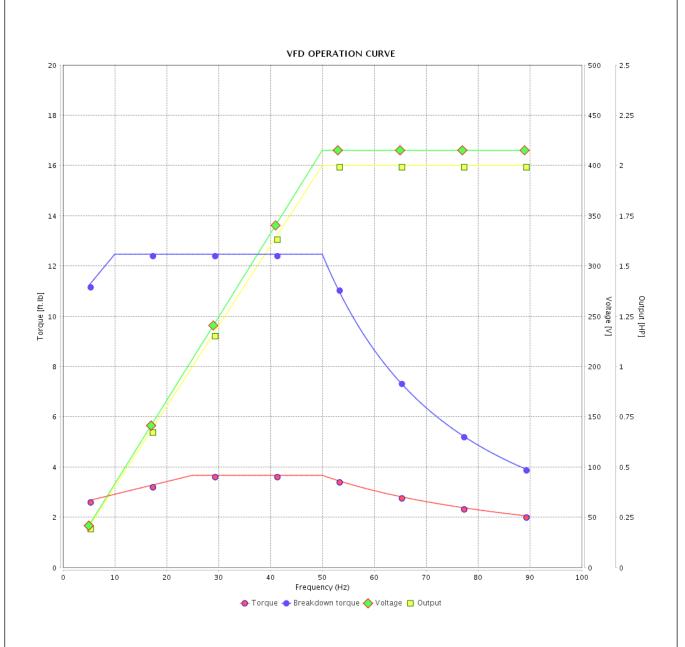
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11793155

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Performance	: 415 V 50 Hz 2P IE2						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.82 A : 7.7 : 3.67 ft.lb : 330 % : 340 % : 2865 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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