### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12756302

Catalog #: 00112ET3E145JP-W22

Frame : 143/5JP 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 Altitude · 1000 m a s l · 52 9 lb Approx. weight3

Altitude		: 1000 m.a.	S.I.	Approx	weight	: 5	2.9 ID	
Protection degre	е	: IP55		Momer	nt of inertia (J)	: C	.1595 sq.ft.lb	
Design		: B						
Output [HP]		1	0.75	0.75	0.75	1	1	1
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		3.46/1.73	1.60	1.62	1.66	1.96	1.94	1.95
L. R. Amperes [A]		21.5/10.7	9.28	9.88	10.5	9.41	10.1	10.7
LRC [A]		6.2x(Code K)	5.8x(Code K)	6.1x(Code L)	6.3x(Code	4.8x(Code	5.2x(Code H)	5.5x(Code J)
					M)	G)		
No load current [A	]	2.39/1.20	1.18	1.28	1.36	1.18	1.28	1.36
Rated speed [RPN	<b>/</b> 1]	1160	960	970	970	940	950	950
Slip [%]		3.33	4.00	3.00	3.00	6.00	5.00	5.00
Rated torque [ft.lb]		4.53	4.10	4.06	4.06	5.59	5.53	5.53
Locked rotor torqu	Locked rotor torque [%]		280	300	320	200	229	250
Breakdown torque	[%]	300	310	330	340	220	260	280
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		50s (cold)	36s (cold)	36s (cold)	36s (cold)	36s (cold)	36s (cold)	36s (cold)
		28s (hot)	20s (hot)	20s (hot)	20s (hot)	20s (hot)	20s (hot)	20s (hot)
Noise level <sup>2</sup>		50.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)
	25%	76.0	73.6	71.6	68.6	77.6	76.1	73.4
Efficiency (%)	50%	77.0	74.8	73.2	70.7	77.0	75.5	74.0
Efficiency (%)	75%	82.0	78.4	77.5	75.8	80.0	80.0	78.5
100%		82.5	79.3	78.9	77.9	78.5	78.5	78.5
	25%	0.25	0.24	0.22	0.21	0.30	0.27	0.25
Power Factor	50%	0.45	0.44	0.41	0.38	0.53	0.49	0.46
1 OWEL FACIOI	75%	0.57	0.57	0.53	0.50	0.66	0.62	0.59
	100%	0.66	0.66	0.62	0.59	0.74	0.71	0.68

Non drive end Drive end Foundation loads

Bearing type 6206 ZZ 6204 ZZ Max. traction : 108 lb Sealing V'Ring V'Ring : 161 lb Max. compression

Lubricant amount Lubricant type Mobil Polyrex EM

Notes

Lubrication interval

USABLE @208V 3.82A SF 1.15 SFA 4.39A

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



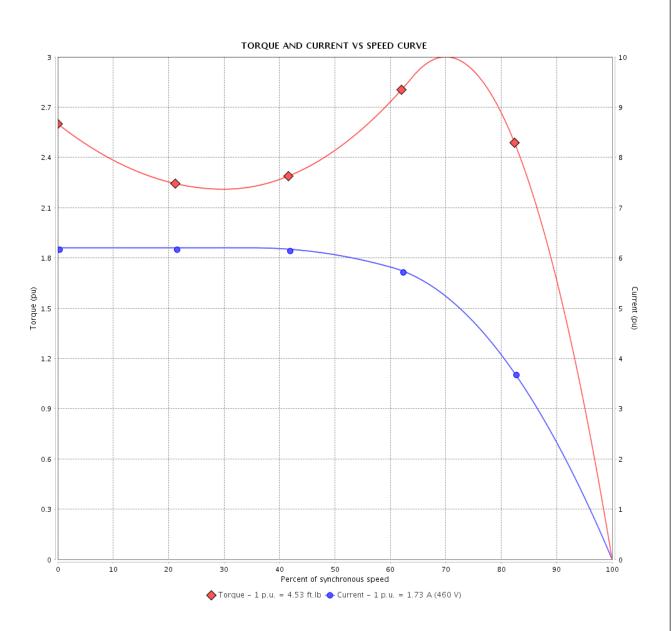
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12756302

Catalog #: 00112ET3E145JP-W22



Performance : 230/460 V 60 Hz 6P Rated current : 3.46/1.73 A Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 4.53 ft.lb : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1160 rpm Design : B

Locked rotor time : 50s (cold) 28s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12756302 Catalog #: 00112ET3E145JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 4.10 ft.lb ◆ Current - 1 p.u. = 1.60 A (380 V) Performance : 380 V 50 Hz 6P IE3 Rated current : 1.60 A Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 4.10 ft.lb : 280 % Locked rotor torque Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 960 rpm Design : B Locked rotor time : 36s (cold) 20s (hot) Rev. Performed Checked Date **Changes Summary** Performed by

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#### Three Phase Induction Motor - Squirrel Cage

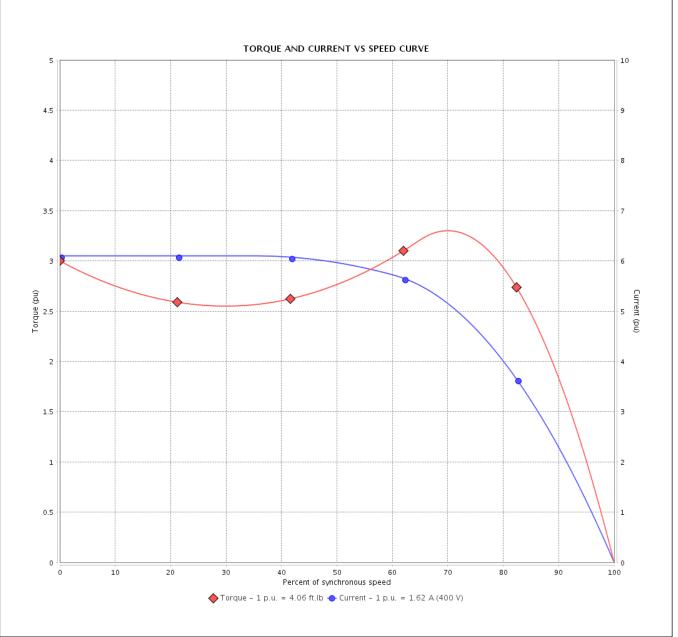


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12756302

Phase

Catalog #: 00112ET3E145JP-W22



Performance : 400 V 50 Hz 6P IE3 Rated current : 1.62 A Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** : 6.1 Duty cycle : Cont.(S1) : F : 4.06 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 300 % : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 970 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12756302 Catalog #: 00112ET3E145JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 4.06 ft.lb ◆ Current - 1 p.u. = 1.66 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 1.66 A Moment of inertia (J) : 0.1595 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 4.06 ft.lb Insulation class : F Rated torque : 320 % Locked rotor torque Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 970 rpm Design : B Locked rotor time : 36s (cold) 20s (hot) Rev. Performed Checked Date **Changes Summary** 

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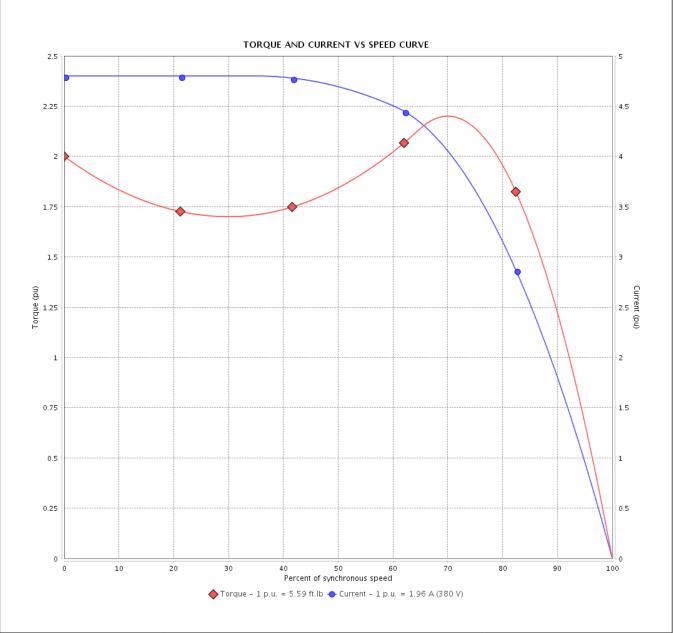
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12756302

Catalog #: 00112ET3E145JP-W22



Performance	: 380 V 50 Hz 6P IE2		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.96 A : 4.8 : 5.59 ft.lb : 200 % : 220 % : 940 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1595 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B

Locked rotor time : 36s (cold) 20s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12756302 Catalog #: 00112ET3E145JP-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Torque (pu) 1.2 0.6 0.3 40 50 -Percent of synchronous speed ♦ Torque – 1 p.u. = 5.53 ft.lb ♦ Current – 1 p.u. = 1.94 A (400 V)

Performance	: 400 V 50 Hz 6P IE2		
Rated current	: 1.94 A	Moment of inertia (J)	: 0.1595 sq.ft.lb
LRC	: 5.2	Duty cycle	: Cont.(S1)
Rated torque	: 5.53 ft.lb	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 950 rpm	Design	: B
Locked rotor time	: 36s (cold) 20s (hot)		

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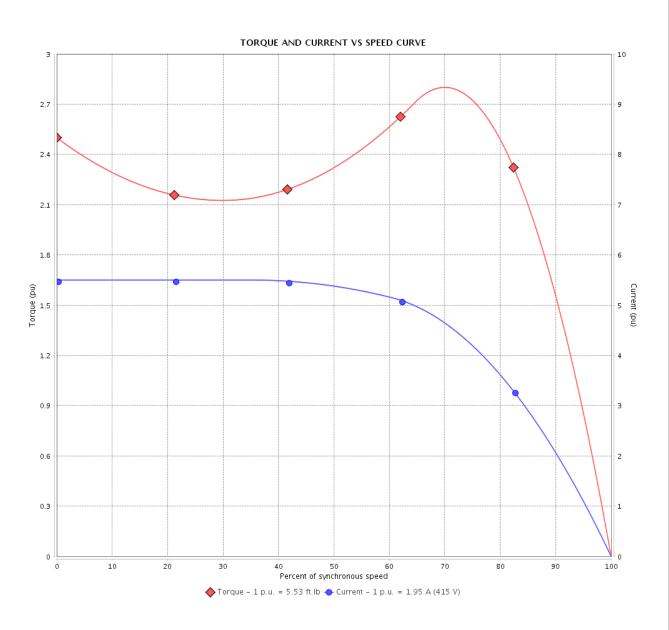
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00112ET3E145JP-W22

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Performance	: 415 V 50 Hz 6P IE2		
Rated current	: 1.95 A	Moment of inertia (J)	: 0.1595 sq.ft.lb
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 5.53 ft.lb	Insulation class	: F
Locked rotor torque Breakdown torque	: 250 % : 280 %	Service factor Temperature rise	: 1.00 : 80 K
Rated speed	: 950 rpm	Design	: B

Locked rotor time : 36s (cold) 20s (hot)

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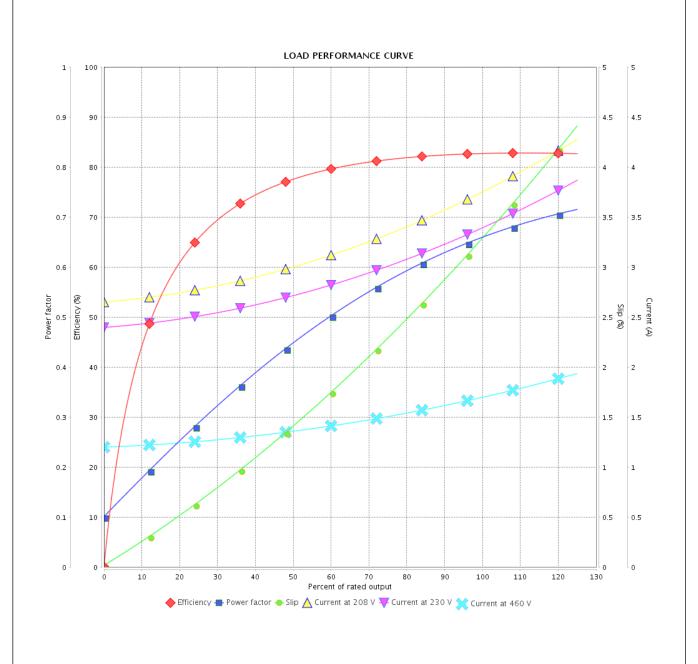


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12756302

Phase

Catalog #: 00112ET3E145JP-W22



Performance	: 2	230/460 V 60 Hz 6P				
Rated current	::	3.46/1.73 A	Moment o	f inertia (J)	: 0.1595 sq.ft.lb	
LRC	: 6	6.2	Duty cycle		: Cont.(S1)	
Rated torque	: 4	4.53 ft.lb	Insulation	class	: F	
Locked rotor torque	e : 2	260 %	Service fa	ctor	: 1.25	
Breakdown torque	: 3	300 %	Temperature rise		: 80 K	
Rated speed	: '	1160 rpm	Design		: B	
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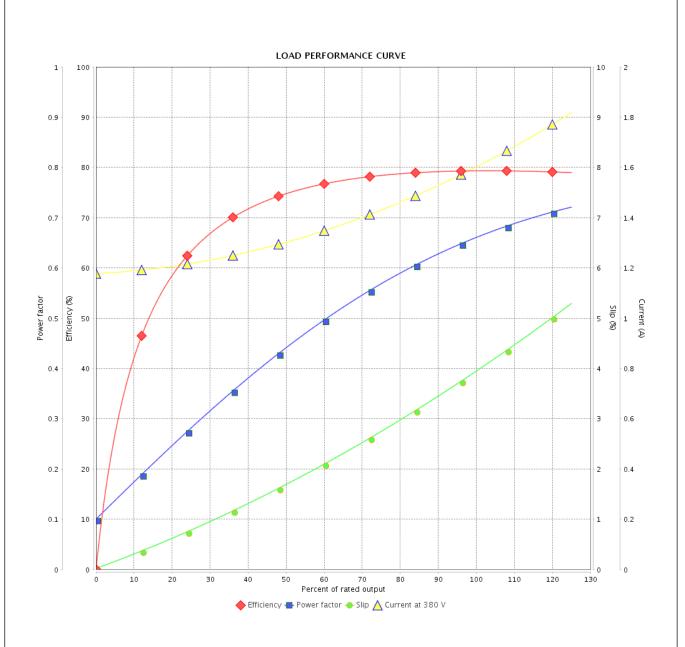
Product line : NEMA Premium Efficiency Three- Product code : 12756302

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 1.60 A : 5.8 : 4.10 ft.lb : 280 % : 310 %	Moment of Duty cycle Insulation Service fa	class ctor	: 0.1595 sq.ft.ll : Cont.(S1) : F : 1.00 : 80 K	b
Rated speed	: 960 rpm	Design		: B	
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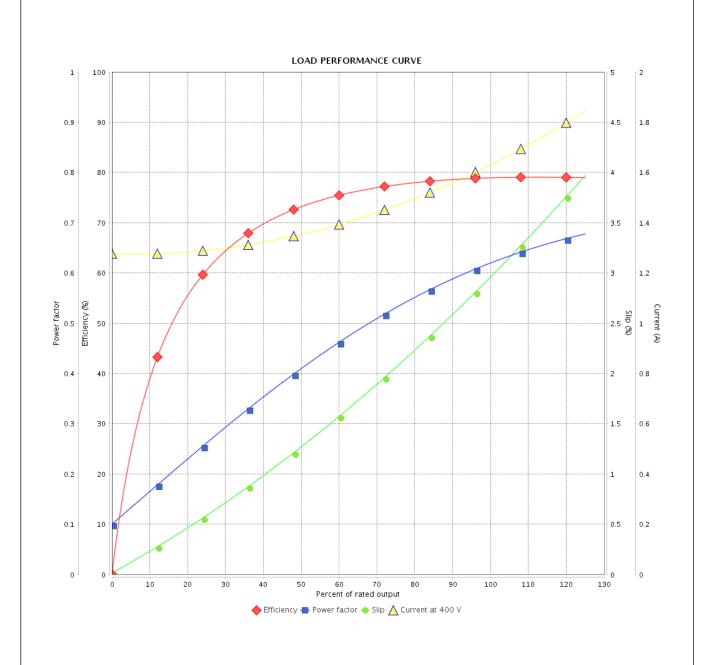
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Performance	: 400 V 50 Hz 6P IE3				
Rated current : 1.62 A		Moment of inertia (J)		: 0.1595 sq.ft.lb	
LRC	: 6.1	Duty cycle		: Cont.(S1)	
Rated torque	: 4.06 ft.lb	Insulation cla	ISS	: F	
Locked rotor torque	: 300 %	Service factor		: 1.00	
Breakdown torque	: 330 %	Temperature rise		: 80 K	
Rated speed	: 970 rpm	Design		: B	
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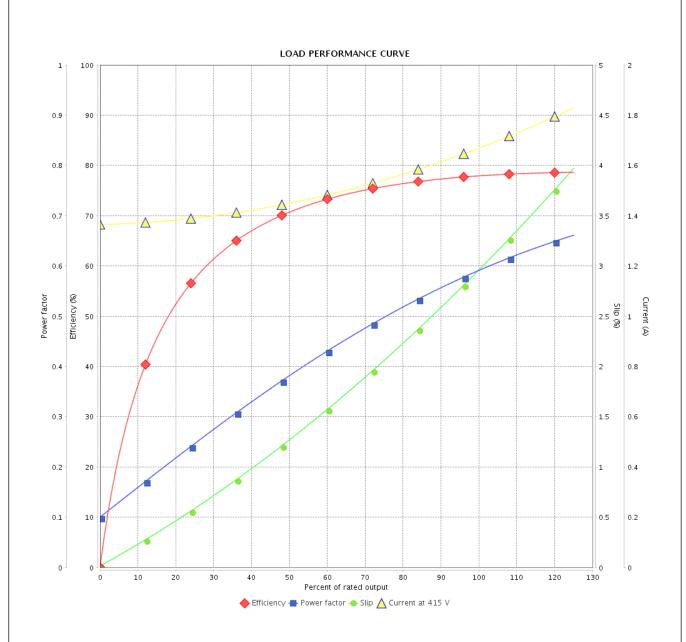
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Performance	: 415 V 50 Hz 6P IE3				
Rated current	: 1.66 A	Moment of inertia (J)		: 0.1595 sq.ft.lb	
LRC	: 6.3	Duty cycle		: Cont.(S1)	
Rated torque	: 4.06 ft.lb	Insulation	class	: F	
Locked rotor torque	: 320 %	Service factor		: 1.00	
Breakdown torque	: 340 %	Temperature rise		: 80 K	
Rated speed	: 970 rpm	Design		: B	
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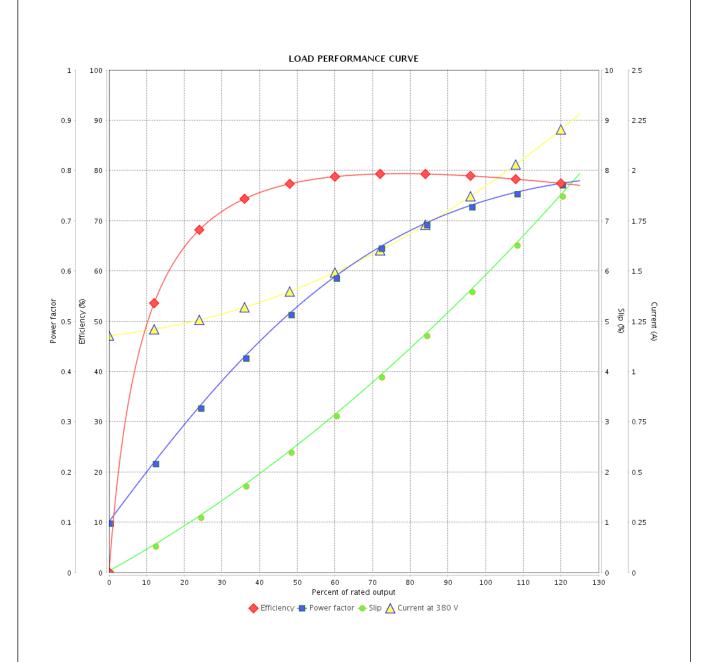
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12756302

Phase

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Performance	: 380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 1.96 A : 4.8 : 5.59 ft.lb : 200 % : 220 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.1595 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 940 rpm	Design		: B	
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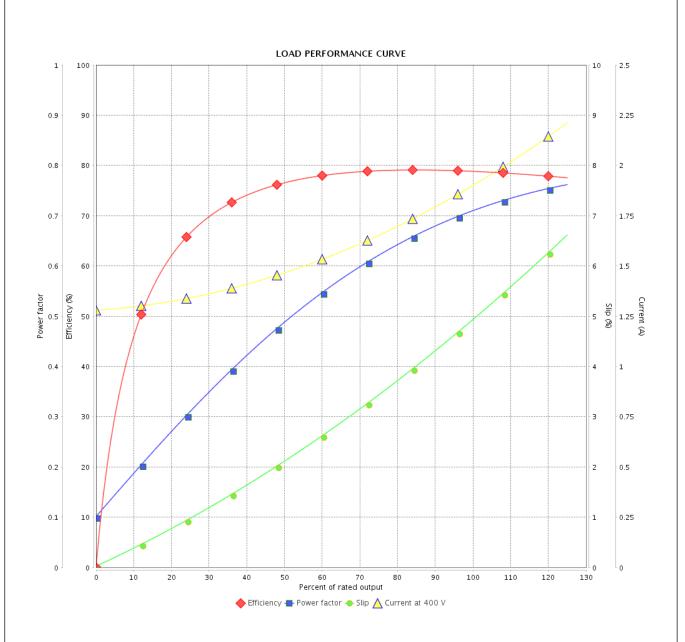
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Phase

Product code: 12756302

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Performance	: 400 V 50 Hz 6P IE2				
Rated current	ted current : 1.94 A Mol		(J)	: 0.1595 sq.ft.	lb
LRC	: 5.2	Duty cycle		: Cont.(S1)	
Rated torque	: 5.53 ft.lb	Insulation class		: F	
Locked rotor torque	: 229 %	Service factor		: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 950 rpm	Design		: B	
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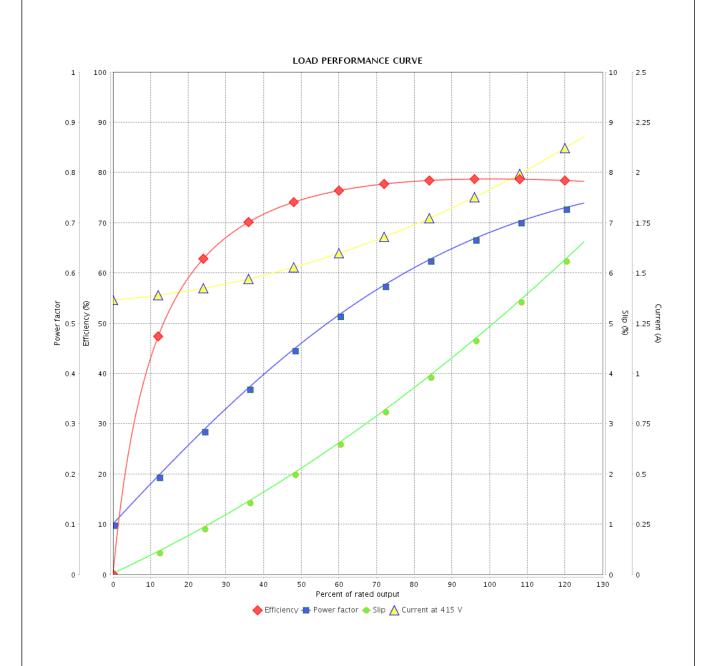


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12756302

Phase

Catalog #: 00112ET3E145JP-W22



Performance	rformance : 415 V 50 Hz 6P IE2						
Rated current	Rated current : 1.95 A		Moment o	f inertia (J)	: 0.1595 sq.ft.lb		
LRC	: 5	5.5	Duty cycle	!	: Cont.(S1)		
Rated torque	: 5	5.53 ft.lb	Insulation	class	: F		
Locked rotor torqu	e : 2	250 %	Service fa	ctor	: 1.00		
Breakdown torque	: 2	80 %	Temperatu	Temperature rise		: 80 K	
Rated speed	: 9	50 rpm Design		: B			
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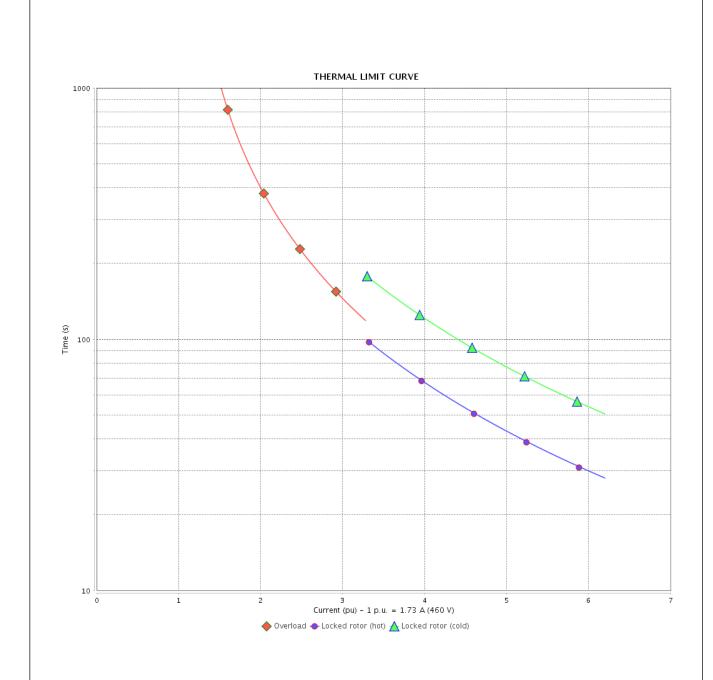


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12756302	
	PI	hase		Catalog # :	00112ET3E1	45JP-W22
Performance		30/460 V 60 Hz 6P				
Rated current LRC	: 3. : 6.	46/1.73 A 2	Moment o	f inertia (J)	: 0.1595 sq.ft.l : Cont.(S1)	D
Rated torque	: 4.	53 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		60 % 00 %	Service fa Temperati		: 1.25 : 80 K	
Rated speed		160 rpm	Design		: B	
Heating constant						
Cooling constant						
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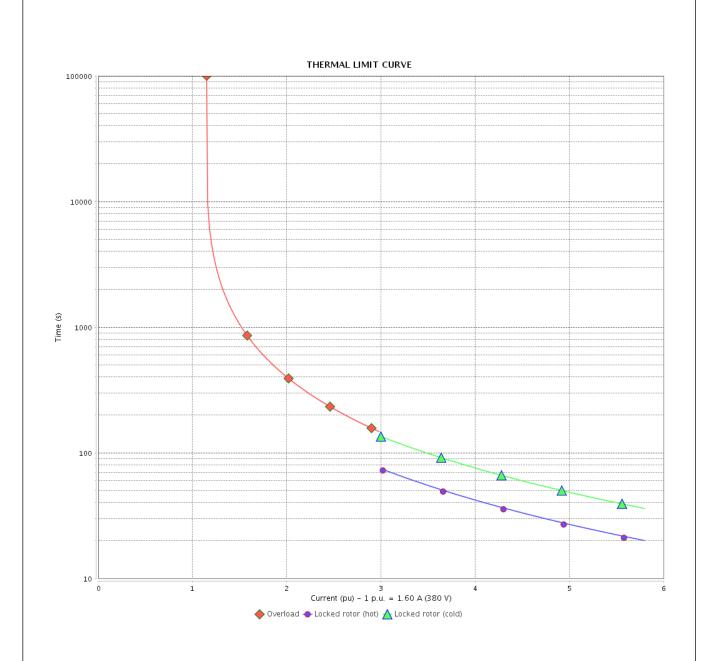


Customer	:				
Product line	: NEMA Premium Effi	ciency Three-	Product code :	12756302	
	Phase		Catalog # :	00112ET3E1	45JP-W22
Performance Rated current	: 380 V 50 Hz 6P IE3 : 1.60 A	Momont	of inertia (J)	· 0 1505 cc # !	h
LRC	: 5.8	Duty cycl	е	: 0.1595 sq.ft.l : Cont.(S1)	U
Rated torque Locked rotor torque	: 4.10 ft.lb : 280 %	Insulation Service fa		: F : 1.00	
Breakdown torque	: 310 %	Temperat		: 80 K	
Rated speed	: 960 rpm	Design		: B	
Heating constant					
Cooling constant  Rev.	Changes Summary	<u> </u>	Performed	Checked	Date
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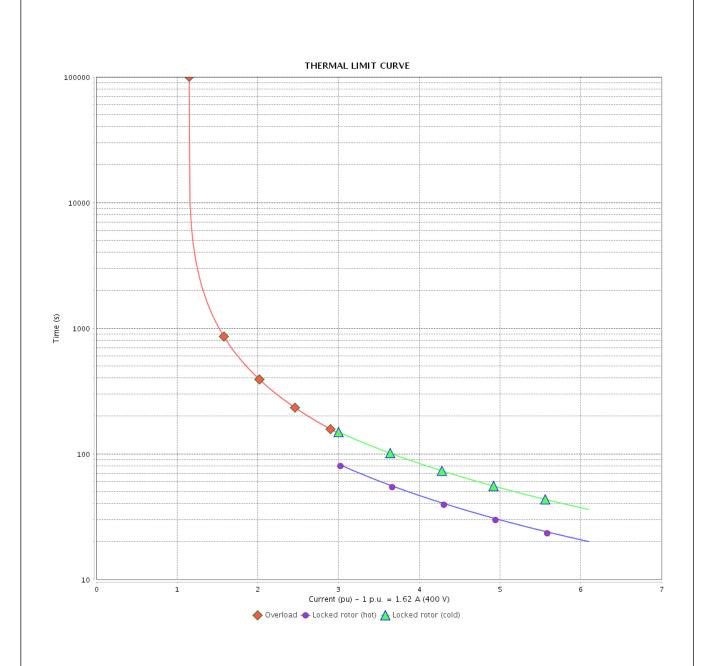


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12756302	
	Р	hase		Catalog # :	00112ET3E1	45JP-W22
Performance		00 V 50 Hz 6P IE3				
Rated current LRC	: 1. : 6.	.62 A .1	Moment o Duty cycle	f inertia (J)	: 0.1595 sq.ft.l : Cont.(S1)	b
Rated torque	: 4.	.06 ft.lb	Insulation	class	: F	
Locked rotor torque Breakdown torque		00 % 30 %	Service fa Temperatu		: 1.00 : 80 K	
Rated speed		70 rpm	Design		: B	
Heating constant						
Cooling constant						
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### Three Phase Induction Motor - Squirrel Cage



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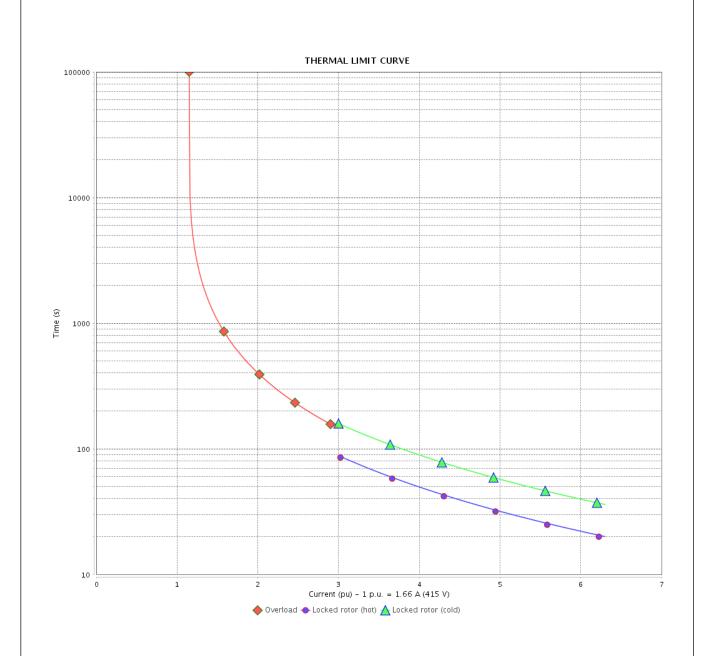


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12756302 00112ET3E1	45JP-W22
Performance	<u> </u>	: 415 V 50 Hz 6P IE3				
Rated current LRC		: 1.66 A : 6.3	Moment of Duty cycle	of inertia (J)	: 0.1595 sq.ft.l : Cont.(S1)	b
Rated torque		: 4.06 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 320 % : 340 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 970 rpm	Design	uro 1100	: B	
Heating constan						
Cooling constant	t	01 0			<u> </u>	
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### Three Phase Induction Motor - Squirrel Cage



Customer



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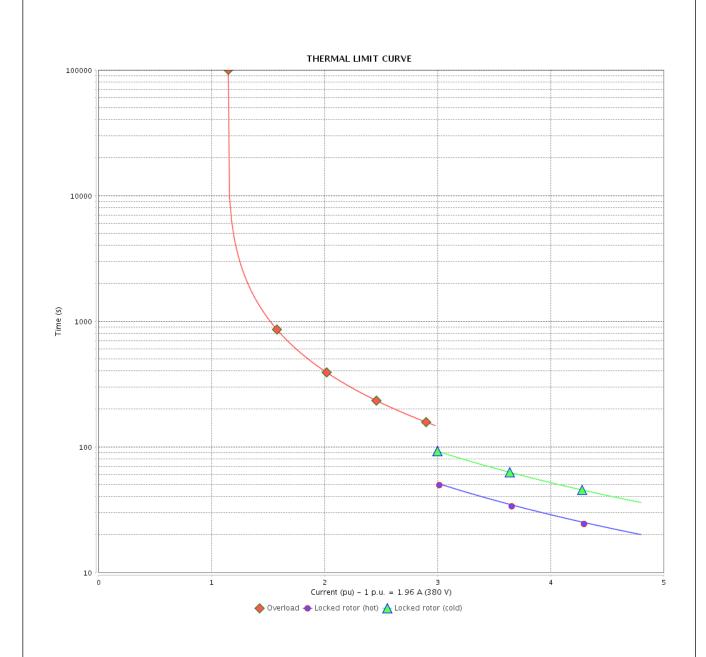


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12756302 00112ET3E1	45JP-W22
Performance	:	380 V 50 Hz 6P IE2				
Rated current LRC Rated torque	:	1.96 A 4.8 5.59 ft.lb	Moment of Duty cycle Insulation		: 0.1595 sq.ft.l : Cont.(S1) : F	b
Locked rotor tord Breakdown torqu	ie :	200 % 220 %	Service fa Temperate		: 1.00 : 80 K	
Rated speed	:	940 rpm	Design		: B	
Heating constant Cooling constant						
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#### Three Phase Induction Motor - Squirrel Cage



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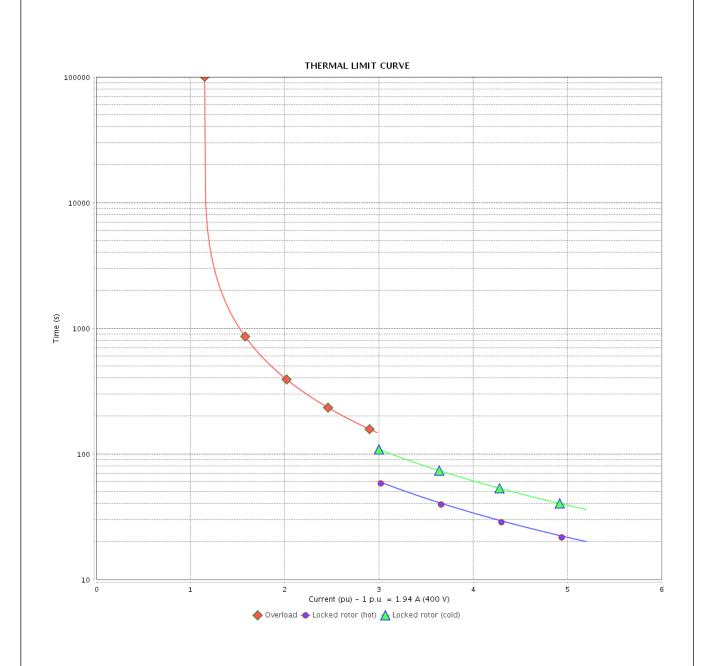


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Product line		: NEMA Premium Efficiency <sup>-</sup> Phase		Product code :	12756302 00112ET3E14	15JP-W22
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: : : : : : : : :	400 V 50 Hz 6P IE2 1.94 A 5.2 5.53 ft.lb 229 % 260 % 950 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 0.1595 sq.ft.lt : Cont.(S1) : F : 1.00 : 80 K : B	)
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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#### Three Phase Induction Motor - Squirrel Cage



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### Three Phase Induction Motor - Squirrel Cage

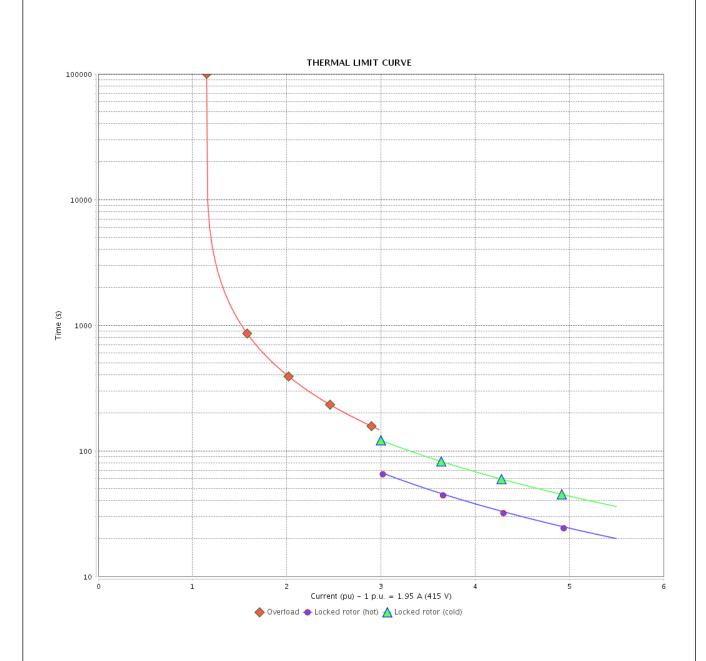


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12756302 00112ET3E1	45JP-W22
Performance	<u> </u>	: 415 V 50 Hz 6P IE2				
Rated current LRC		: 1.95 A : 5.5	Moment o	of inertia (J)	: 0.1595 sq.ft.l	b
Rated torque		: 5.53 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord Breakdown torqu		: 250 % : 280 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 950 m	Design	uic lise	: B	
Heating constan						
Cooling constant	t					
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### Three Phase Induction Motor - Squirrel Cage



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#### Three Phase Induction Motor - Squirrel Cage



Customer :

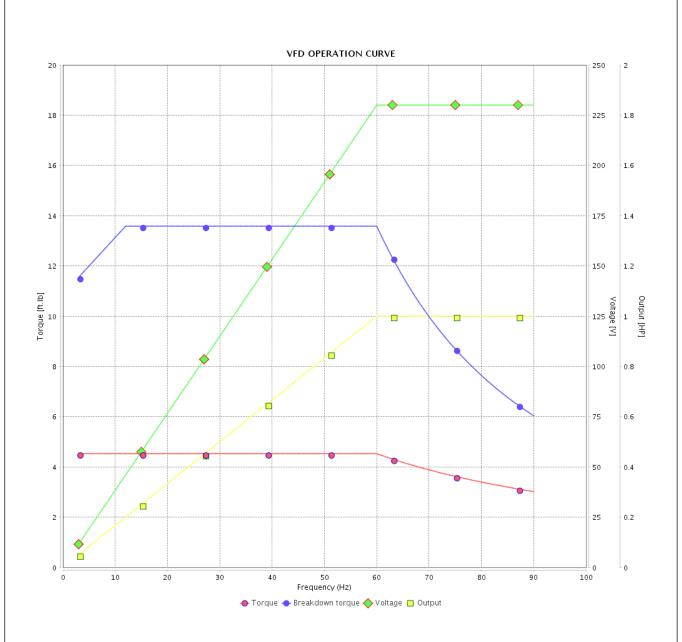
Product line : NEMA Premium Efficiency Three- Prod

Phase

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Catalog #: 00112ET3E145JP-W22

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Performance	: 230/460 V 60 Hz 6P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 3.46/1.73 A Moment : 6.2 Duty cyc : 4.53 ft.lb Insulatio : 260 % Service : 300 % Tempera		class actor	: 0.1595 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B			
Rated speed	: 1160 rpm	Design					
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#### Three Phase Induction Motor - Squirrel Cage



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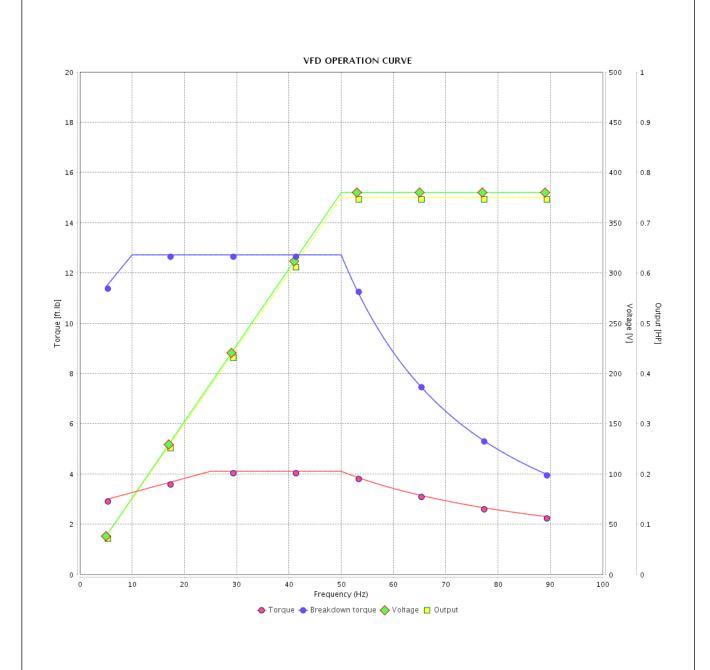
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 00112ET3E145JP-W22

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Performance	erformance : 380 V 50 Hz 6P IE3				
Rated current	: 1.60 A	Moment of	f inertia (J)	: 0.1595 sq.ft.lb	
LRC	: 5.8	Duty cycle	•	: Cont.(S1)	
Rated torque	: 4.10 ft.lb	Insulation	class	: F	
Locked rotor torque	: 280 %	Service fa	ctor	: 1.00	
Breakdown torque	: 310 %	Temperati	Temperature rise		
Rated speed	: 960 rpm	· · · · · · · · · · · · · · · · · · ·		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : NEMA Premium Efficiency Three-

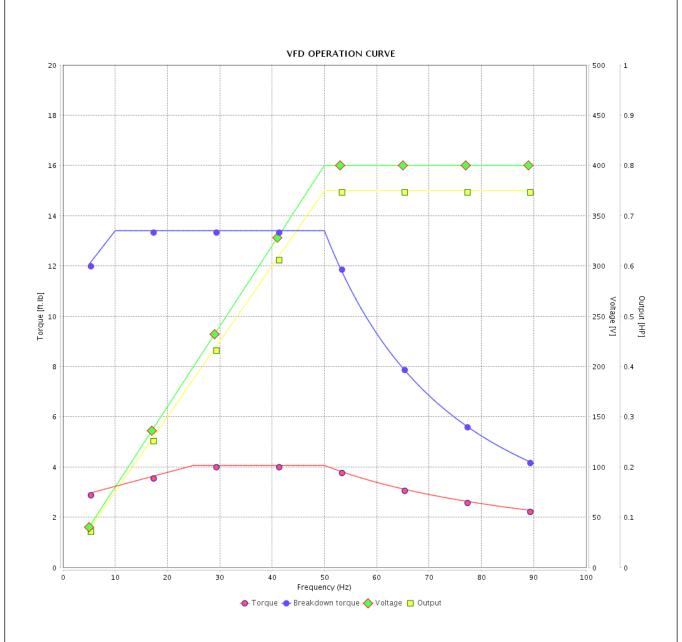
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Performance	Performance : 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1595 sq.ft.l : Cont.(S1) : F : 1.00 : 80 K : B	b
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#### Three Phase Induction Motor - Squirrel Cage



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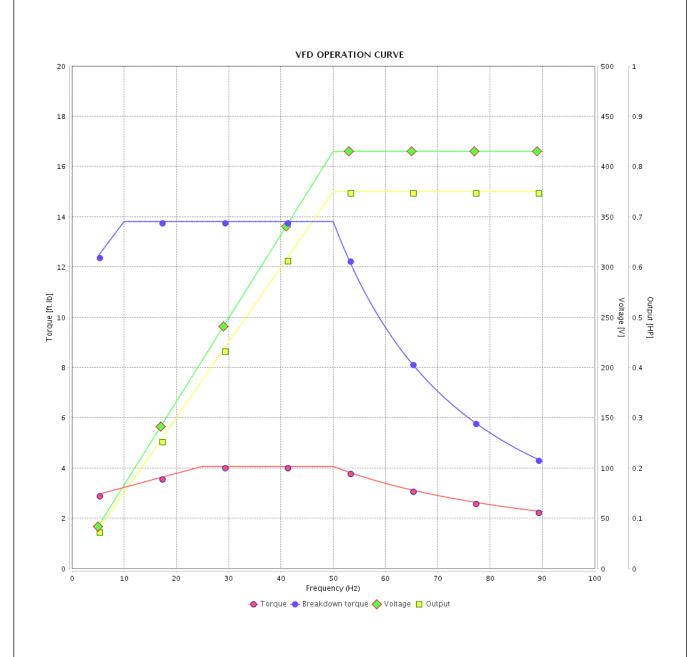
Product line : NEMA Premium Efficiency Three- Product code : 12756302

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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.66 A : 6.3 : 4.06 ft.lb : 320 % : 340 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1595 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : NEMA Premium Efficiency Three- Product c

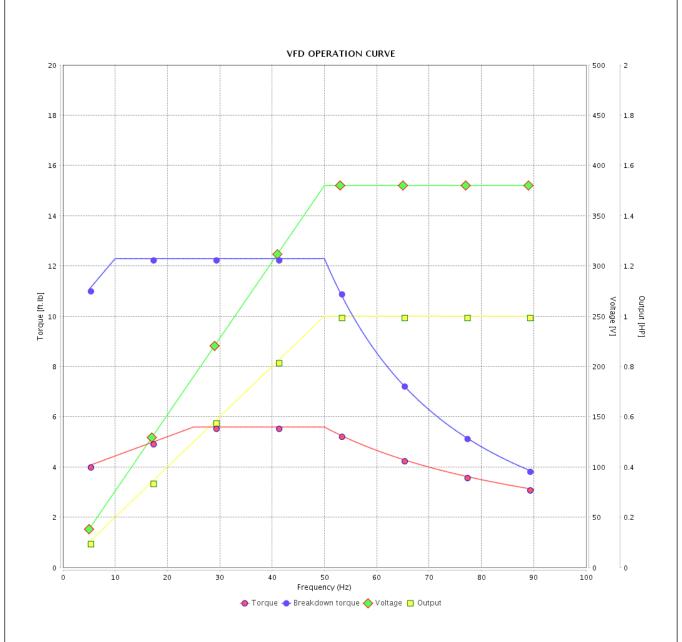
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Performance	::	380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	jue ::	1.96 A 4.8 5.59 ft.lb 200 % 220 % 940 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.1595 sq.ft.I : Cont.(S1) : F : 1.00 : 80 K : B	b
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#### Three Phase Induction Motor - Squirrel Cage



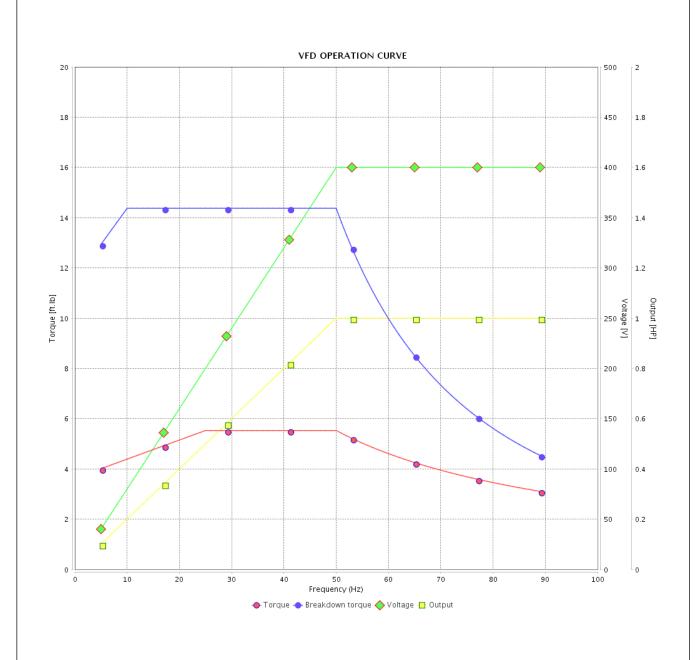
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Product line : NEMA Premium Efficiency Three- Product code : 12756302

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D. (	400 1/ 50 11 00 150						
Performance	: 400 V 50 Hz 6P IE2						
Rated current	: 1.94 A	Moment of inertia (J)		: 0.1595 sq.ft.lb			
LRC	: 5.2	Duty cycle		: Cont.(S1)			
Rated torque	: 229 % Service	Insulation of	class	: F			
Locked rotor torque		Service factor Temperature rise Design		: 1.00 : 80 K : B			
Breakdown torque							
Rated speed	: 950 rpm						
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

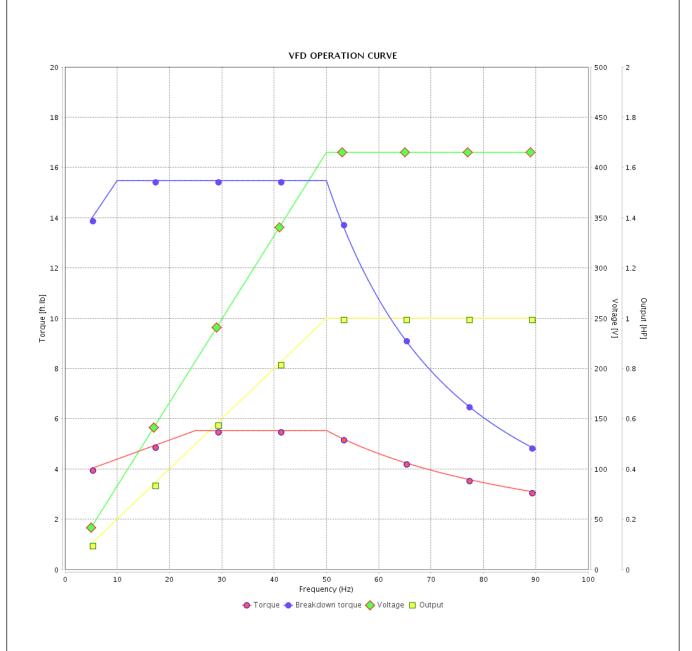
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12756302

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		<del></del>					
Performance	: 415 V 50	: 415 V 50 Hz 6P IE2					
Rated current	: 1.95 A	Moment	Moment of inertia (J)		: 0.1595 sq.ft.lb		
LRC	: 5.5 Duty cycle		le	: Cont.(S1) : F			
Rated torque	: 5.53 ft.lb	ft.lb Insulation class					
Locked rotor torq	ue : 250 %	Service t	Service factor	: 1.00 : 80 K			
Breakdown torqu	e : 280 %	Tempera	ture rise				
Rated speed	: 950 rpm	: 950 rpm Design		: B			
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