DATA SHEET

Three Phase Induction Motor - Squirrel Cage



0.88

Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12603096

Phase

Catalog #: 04036ET3E324JP-W22

Frame : 324/6JP Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 555 lb
Protection degree : IP55 Moment of inertia (J) : 4.90 sq.ft.lb

Design : B

Output [HP] 40 30 30 30 40 40 Poles 2 2 2 2 2 2 2 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 230/460 400 380 400 380 415 415 Rated current [A] 92.6/46.3 56.3 41.0 39.4 38.4 53.1 51.7

L. R. Amperes [A] 583/292 295 296 292 282 297 321 7.2x(Code | 7.5x(Code H) 7.6x(Code H) 5.0x(Code E) 5.6x(Code F) 6.2x(Code F) LRC [A] 6.3x(Code G) G) No load current [A] 26.0/13.0 12.0 13.0 13.5 12.0 13.0 13.5 Rated speed [RPM] 3560 2965 2970 2970 2940 2945 2955 2.00 Slip [%] 1.11 1.17 1.00 1.00 1.83 1.50

Rated torque [ft.lb] 59.1 53.2 53.1 53.0 71.4 71.3 71.2 Locked rotor torque [%] 250 240 270 290 180 200 220 Breakdown torque [%] 200 240 250 280 310 210 229 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 80 K 105 K Temperature rise 80 K 80 K 80 K 105 K 105 K 27s (cold) Locked rotor time 39s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 22s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot)

Noise level² 76.0 dB(A) 72.0 dB(A) 72.0 dB(A) 72.0 dB(A) 72.0 dB(A) 72.0 dB(A) 72.0 dB(A) 25% 91.6 90.0 89.3 90.0 92.2 91.6 92.2 50% 91.7 90.9 90.3 90.7 91.7 91.7 91.7 Efficiency (%) 75% 92.4 91.8 91.7 92.1 91.7 91.7 92.4 100% 92.4 92.7 92.7 92.7 91.0 91.7 91.7 25% 0.55 0.54 0.50 0.48 0.62 0.59 0.56 50% 0.80 0.77 0.75 0.73 0.84 0.82 0.80 Power Factor 75% 0.86 0.85 0.83 0.82 0.88 0.87 0.86

Sealing : V'Ring V'Ring Max. compression : 905 lb Lubrication interval : 12000 h

Mobil Polyrex EM

13 g

21 g

Lubricant type :

Lubricant amount

USABLE @208V 101A SF 1.10 SFA 111A

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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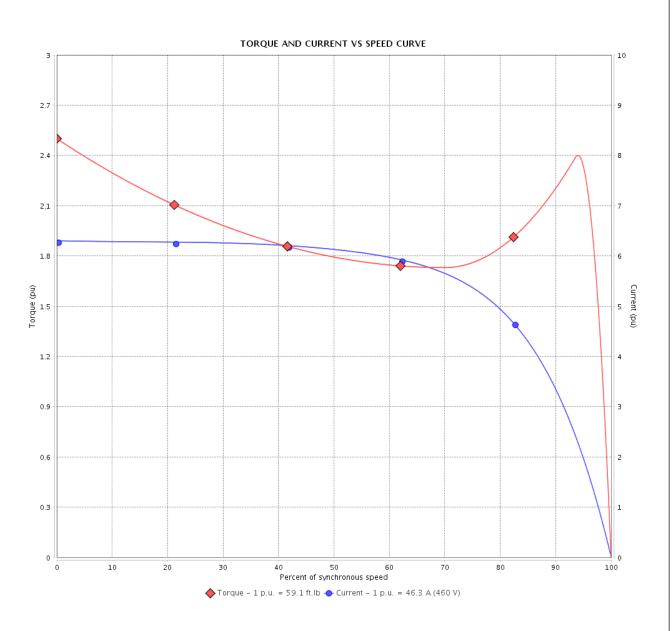
Customer :

Product line : NEMA Premium Efficiency Three- Produc

Phase

Product code: 12603096

Catalog #: 04036ET3E324JP-W22



Performance : 230/460 V 60 Hz 2P Rated current : 92.6/46.3 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 59.1 ft.lb : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 3560 rpm Design : B

Locked rotor time : 39s (cold) 22s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12603096 Catalog #: 04036ET3E324JP-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Torque (pu) 1.2 0.6 0.3 40 50 -Percent of synchronous speed ♦ Torque – 1 p.u. = 53.2 ft.lb ♦ Current – 1 p.u. = 41.0 A (380 V)

Performance	: 380 V 50 Hz 2P IE3			
Rated current	: 41.0 A	Moment of inertia (J)	: 4.90 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 53.2 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 2965 rpm	Design	: B	
Locked rotor time	: 27s (cold) 15s (hot)			
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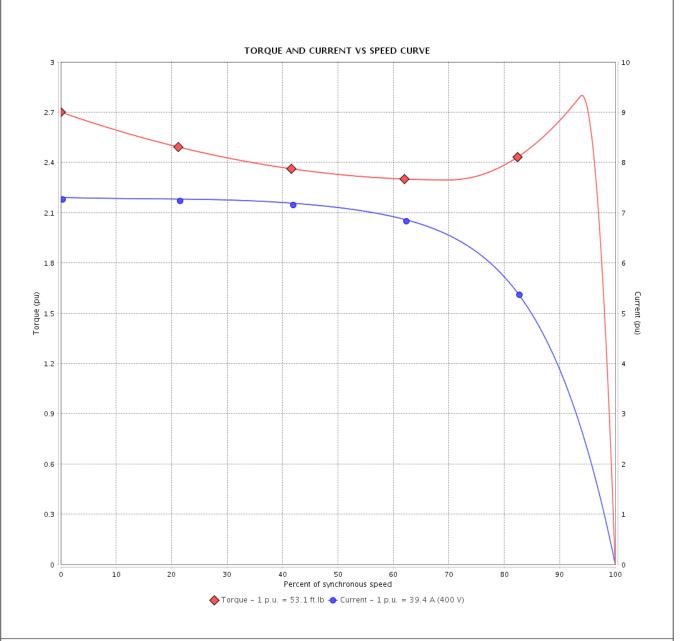
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12603096

Catalog #: 04036ET3E324JP-W22



Performance : 400 V 50 Hz 2P IE3 Rated current : 39.4 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.1 ft.lb : F Service factor Locked rotor torque : 270 % : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 2970 rpm Design : B

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

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 12603096 Catalog #: 04036ET3E324JP-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 53.0 ft.lb ◆ Current - 1 p.u. = 38.4 A (415 V) Performance : 415 V 50 Hz 2P IE3 Rated current : 38.4 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.0 ft.lb : F : 290 % Locked rotor torque Service factor : 1.00 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2970 rpm Design : B Locked rotor time : 27s (cold) 15s (hot) Rev. Performed Checked Date **Changes Summary**

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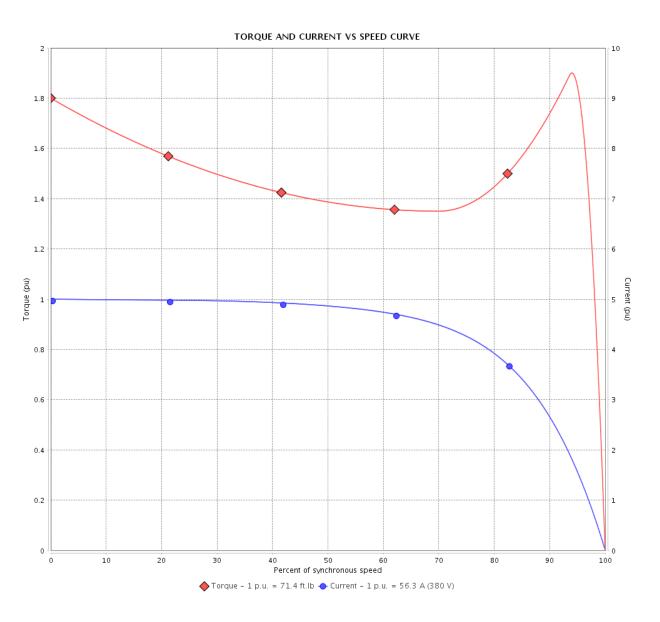
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12603096

Catalog #: 04036ET3E324JP-W22



Performance : 380 V 50 Hz 2P IE1 Rated current : 56.3 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) : 71.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 2940 rpm Design : B

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

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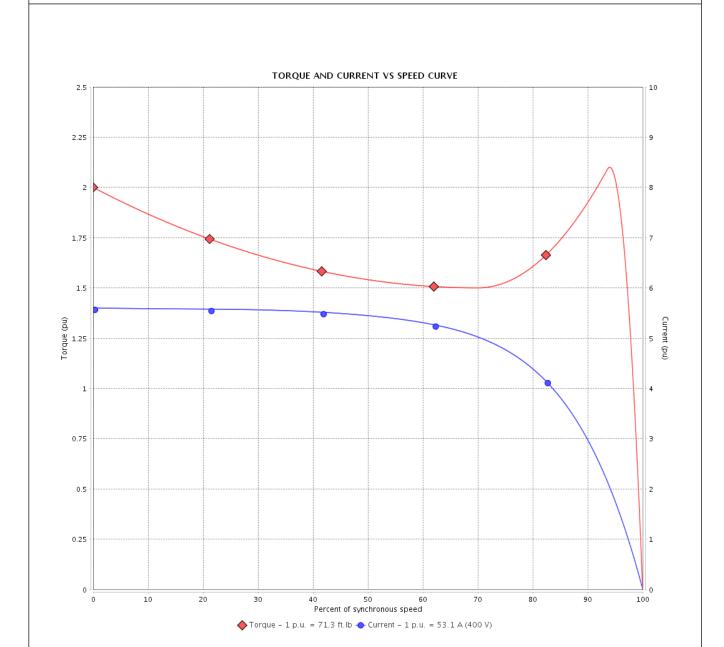
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Product line : NEMA Premium Efficiency Three- Product code : 12603096

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Performance	: 400 V 50 Hz 2P IE1			
Rated current	: 53.1 A	Moment of inertia (J)	: 4.90 sq.ft.lb	
LRC	: 5.6	Duty cycle	: Cont.(S1)	
Rated torque	: 71.3 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 210 %	Temperature rise	: 105 K	
Rated speed	: 2945 rpm	Design	: B	

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

LOCKCO TOTOL TITLE	. 2	73 (cold) 103 (flot)			
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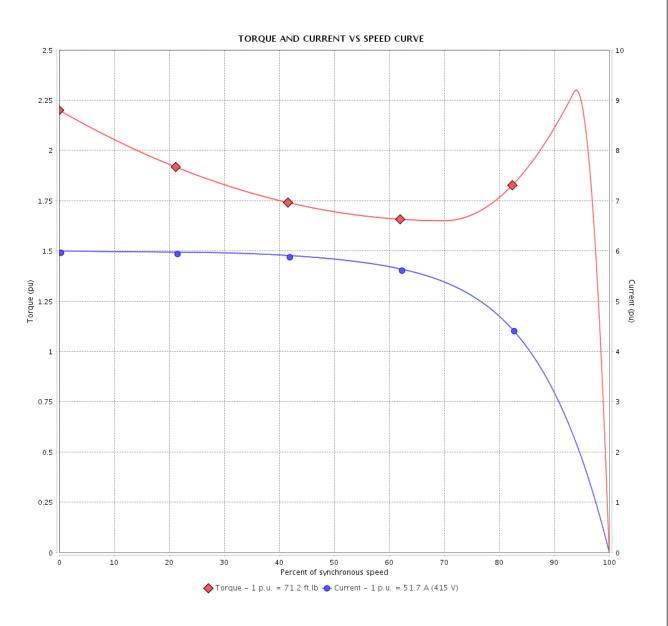


Customer

Product line : NEMA Premium Efficiency Three-Product code:

12603096

Catalog #: 04036ET3E324JP-W22



Performance : 415 V 50 Hz 2P IE1 Rated current : 51.7 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 71.2 ft.lb : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2955 rpm Design : B

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

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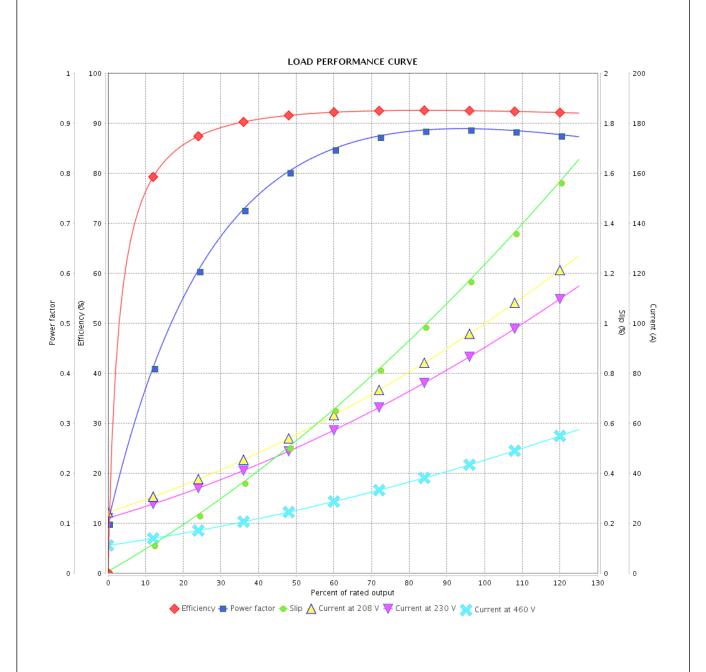


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Product line : NEMA Premium Efficiency Three- Product code : 12603096

Phase

Catalog #: 04036ET3E324JP-W22



Performance	: 2	30/460 V 60 Hz 2P				
Rated current	: 9:	2.6/46.3 A	Moment o	f inertia (J)	: 4.90 sq.ft.lb	
LRC	: 6	.3	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	9.1 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	50 %	Service fa	ctor	: 1.25	
Breakdown torque	: 2	40 %	Temperati	ure rise	: 80 K	
Rated speed	: 3	560 rpm	Design		: B	
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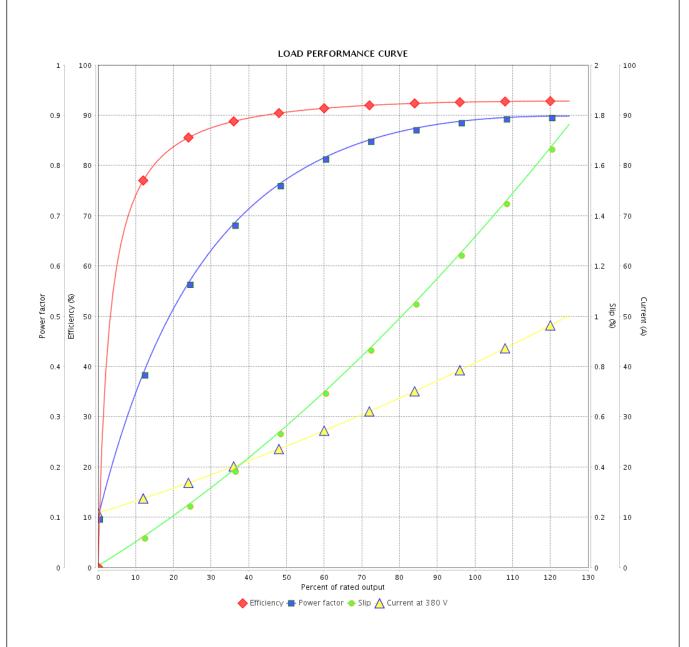
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12603096

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Performance	: 380 V 50 Hz 2P IE3			
Performance	. 300 V 50 HZ ZP IE3			
Rated current	: 41.0 A	Moment of inertia (J)	: 4.90 sq.ft.lb)
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 53.2 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.00	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 2965 rpm	Design	: B	
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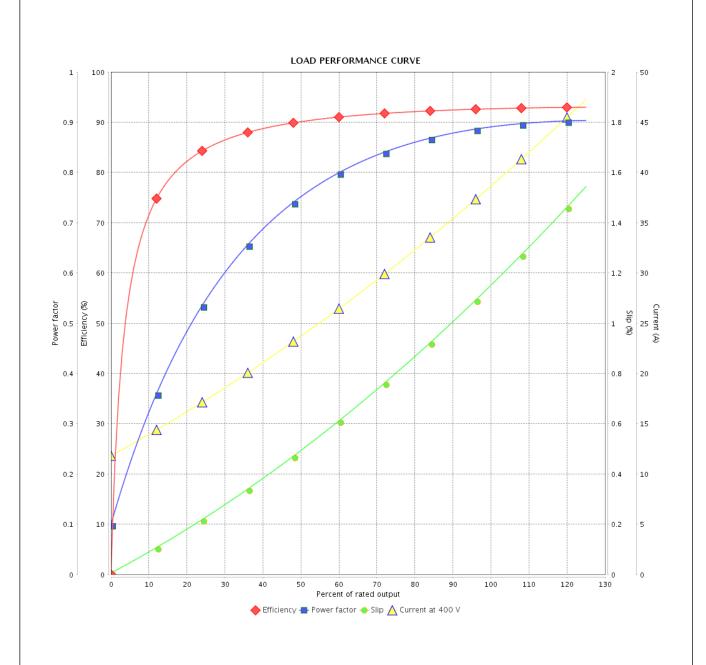
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Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 39.4 A : 7.5 : 53.1 ft.lb : 270 % : 280 % : 2970 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 4.90 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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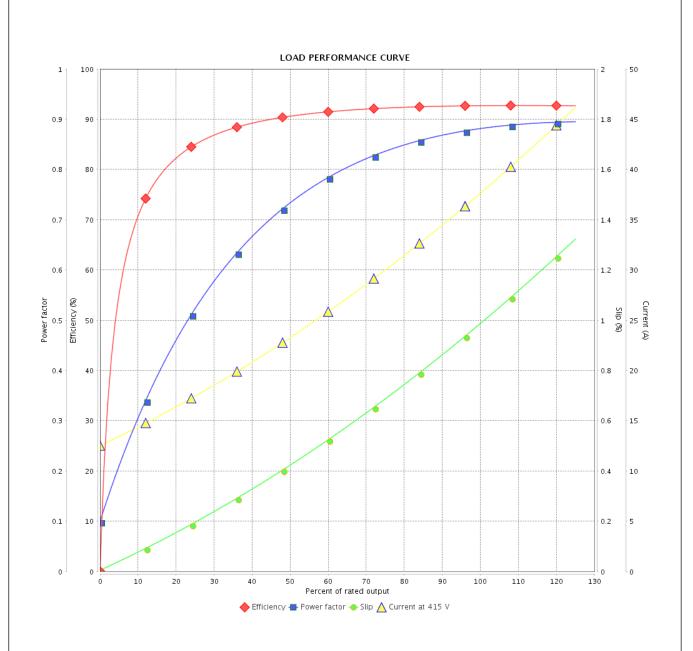
Product line : NEMA Premium Efficiency Three- Product code :

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Performance	:	415 V 50 Hz 2P IE3	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	iue :	38.4 A 7.6 53.0 ft.lb 290 % 310 % 2970 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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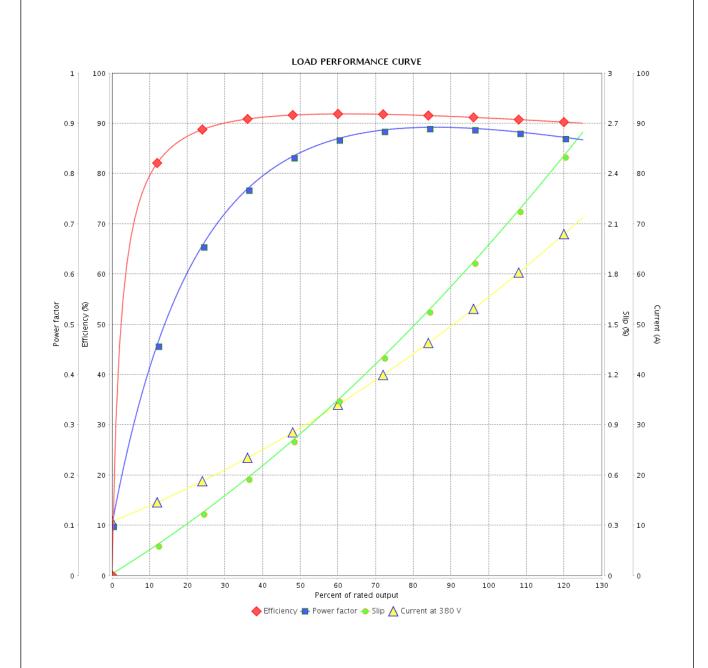


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Product line : NEMA Premium Efficiency Three- Product code : 12603096

Phase

Catalog #: 04036ET3E324JP-W22



Performance	: 3	880 V 50 Hz 2P IE1				
Rated current	: 5	56.3 A	Moment o	f inertia (J)	: 4.90 sq.ft.lb	
LRC	: 5	5.0	Duty cycle		: Cont.(S1)	
Rated torque	: 7	'1.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 1	80 %	Service factor		: 1.00	
Breakdown torque	: 2	: 200 % Temperature rise		ıre rise	: 105 K	
Rated speed	: 2	2940 rpm	Design		: B	
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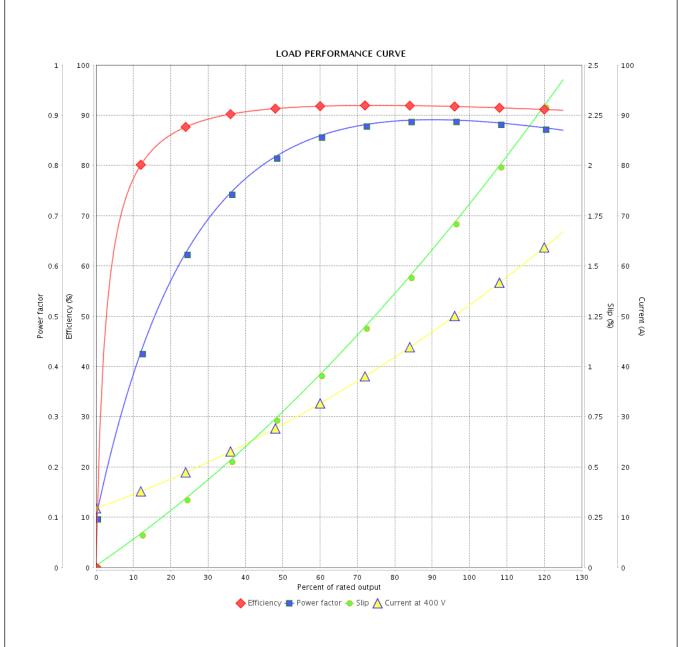
Product line : NEMA Premium Efficiency Three- Product co

Phase

Product code: 12603096

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Performance	: 400 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 53.1 A : 5.6 : 71.3 ft.lb : 200 % : 210 % : 2945 rpm	Moment of in Duty cycle Insulation of Service fact Temperature Design	lass	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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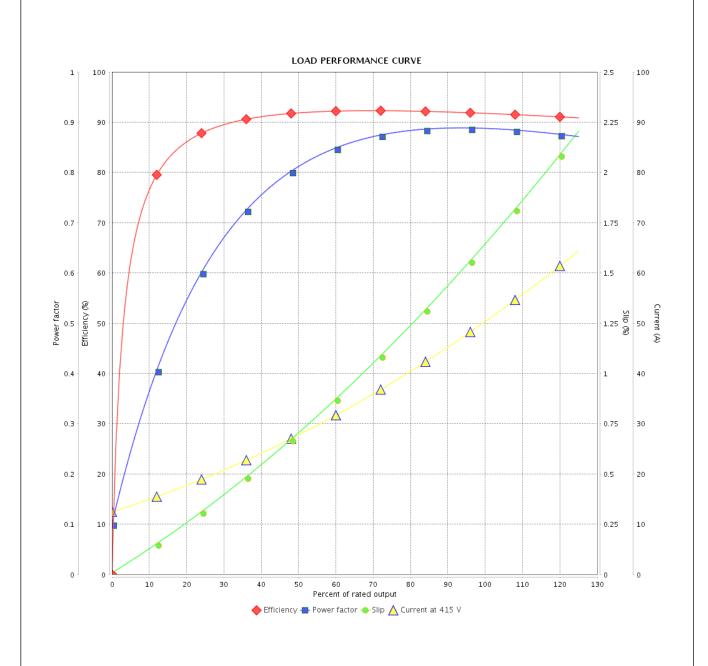
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 12603096

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Performance	: 415 V 50 Hz 2P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 51.7 A : 6.2 : 71.2 ft.lb : 220 % : 229 % : 2955 rpm	Moment of i Duty cycle Insulation cl Service fact Temperature Design	ass or	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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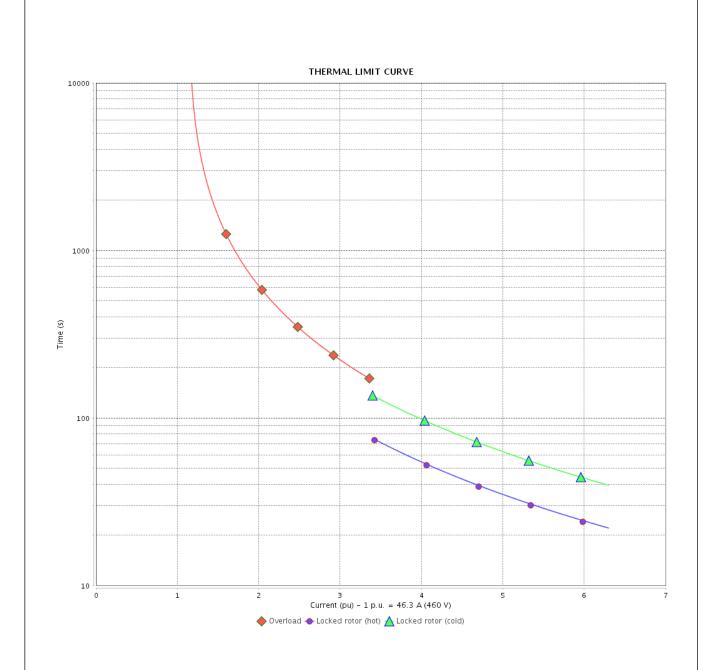


Customer	:					
Product line		NEMA Premium Efficiency	Three-	Product code :	12603096	
	Pl	hase		Catalog # :	04036ET3E32	24JP-W22
Performance	. 21	30/460 V 60 Hz 2P				
Rated current		2.6/46.3 A	Moment o	f inertia (J)	: 4.90 sq.ft.lb	
LRC	: 6.	3	Duty cycle	;	: Cont.(S1)	
Rated torque Locked rotor torque		9.1 ft.lb 50 %	Insulation Service fa		: F : 1.25	
Breakdown torque	e : 24	40 %	Temperatu		: 80 K	
Rated speed		560 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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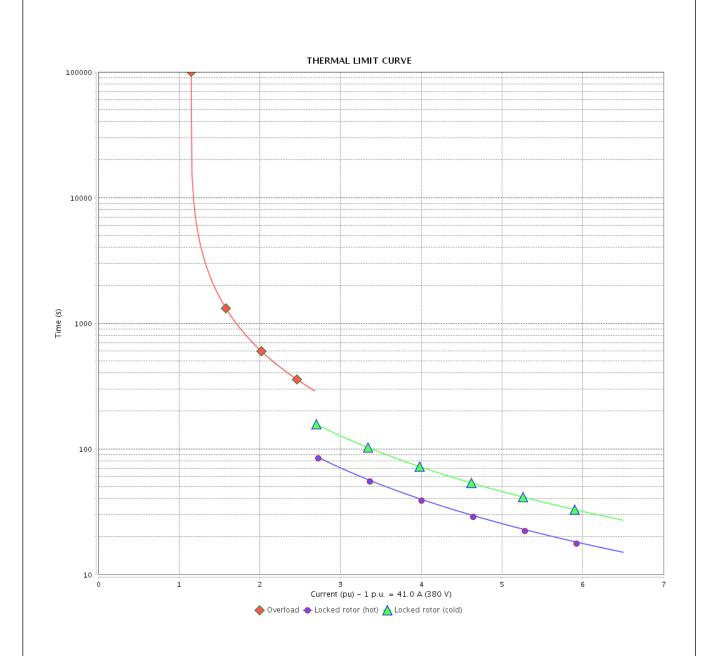


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12603096 04036ET3E32	24JP-W22
Performance		: 380 V 50 Hz 2P IE3				
Rated current LRC		: 41.0 A : 7.2	Moment of	of inertia (J)	: 4.90 sq.ft.lb : Cont.(S1)	
Rated torque		: 53.2 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 240 % : 250 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 2965 rpm	Design	are rise	: B	
Heating constan						
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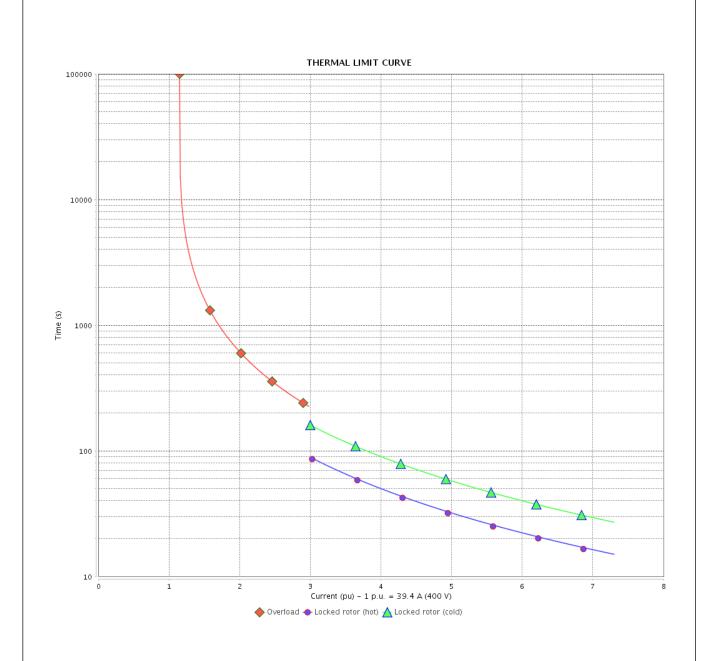


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	12603096 04036ET3E32	24JP-W22
Performance		: 400 V 50 Hz 2P IE3				
Rated current LRC		: 39.4 A : 7.5	Moment of Duty cycle	of inertia (J)	: 4.90 sq.ft.lb : Cont.(S1)	
Rated torque		: 53.1 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 270 % : 280 %	Service fa Temperat		: 1.00 : 80 K	
Rated speed		: 2970 rpm	Design	· 	: B	
Heating constant						
Cooling constant	t	Changes Summary		Performed	Checked	Date
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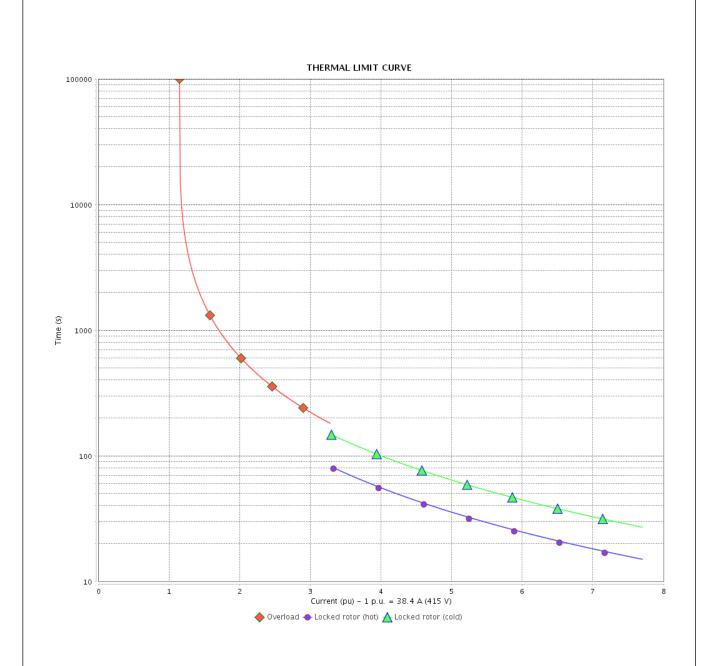


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Product line		NEMA Premium Efficiency Thase	Γhree- F	Product code :	12603096	
	FI	iase	(Catalog # :	04036ET3E32	24JP-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed Heating constant Cooling constant Rev.	: 38 : 7. : 53 ue : 29 e : 31 : 29	15 V 50 Hz 2P IE3 3.4 A 6 3.0 ft.lb 90 % 10 % 970 rpm Changes Summary	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	Date
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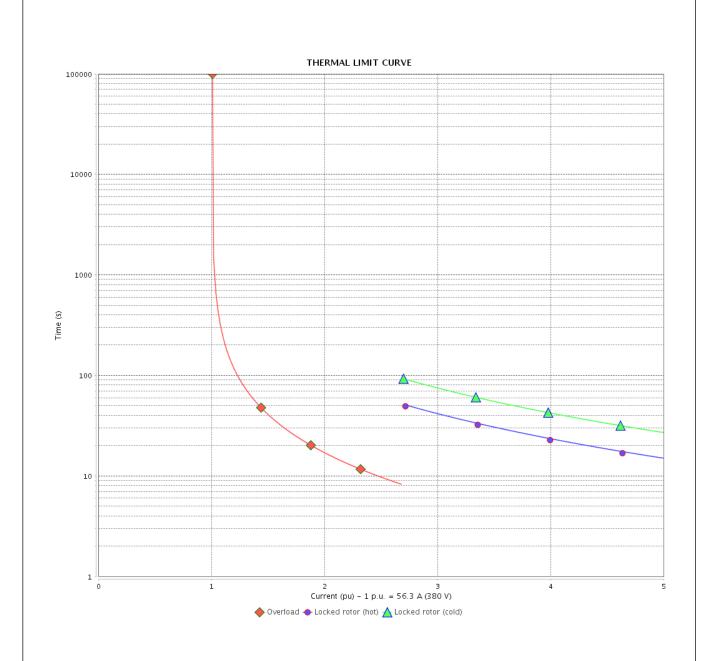


Customer	:				
Product line	: NEMA Premium Efficiend Phase		Product code :	12603096 04036ET3E3	24JP-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 380 V 50 Hz 2P IE1 : 56.3 A : 5.0 : 71.4 ft.lb : 180 % : 200 % : 2940 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 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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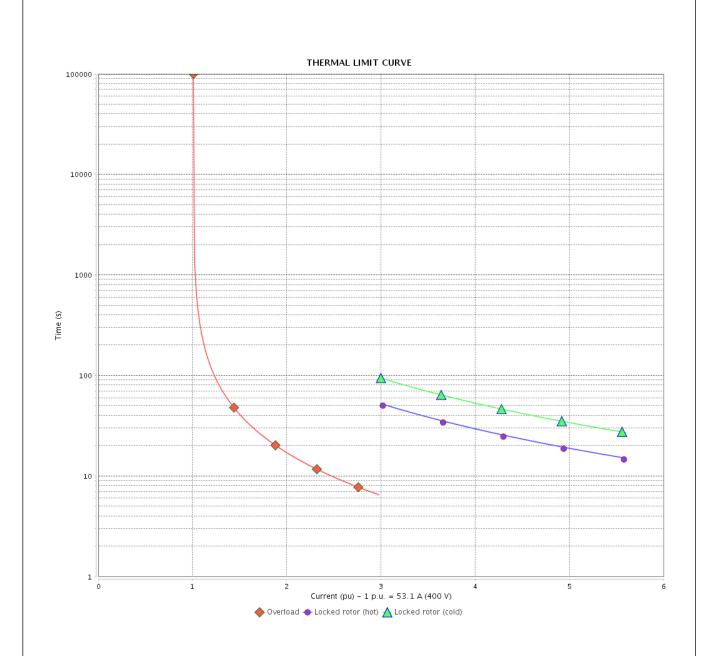


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Product line		NEMA Premium Efficiency ⁻ Phase		Product code :	12603096 04036ET3E3	24JP-W22
				Catalog # .	04030E13E3	Z4JP-VVZZ
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed Heating constant Cooling constant	: { : ! que : 2 ie : 2	400 V 50 Hz 2P IE1 53.1 A 5.6 71.3 ft.lb 200 % 210 % 2945 rpm	Moment or Duty cycle Insulation Service far Temperatu Design	class ctor	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	Date
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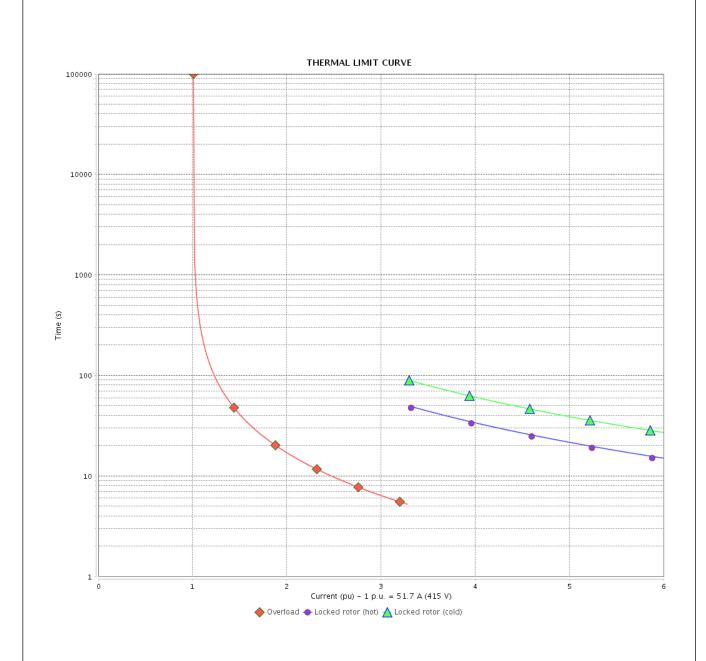


Customer	:		
Product line	: NEMA Premium Efficiency Phase		12603096
		Catalog # :	04036ET3E324JP-W22
Performance	: 415 V 50 Hz 2P IE1		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 51.7 A : 6.2 : 71.2 ft.lb : 220 % : 229 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B
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Heating constant Cooling constant			
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Product line : NEMA Premium Efficiency Three- Produ

Phase

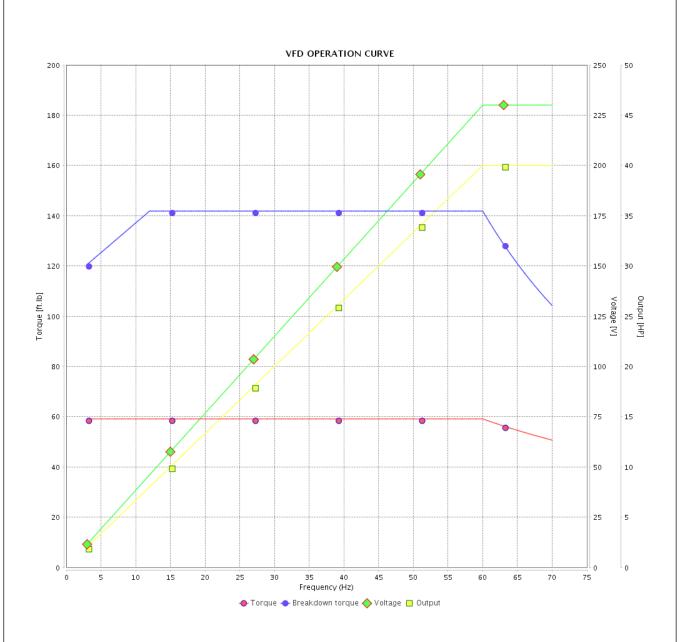
Product code: 12603096

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Revision



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 92.6/46.3 A : 6.3 : 59.1 ft.lb : 250 % : 240 % : 3560 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 4.90 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary	1	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 : 12603096

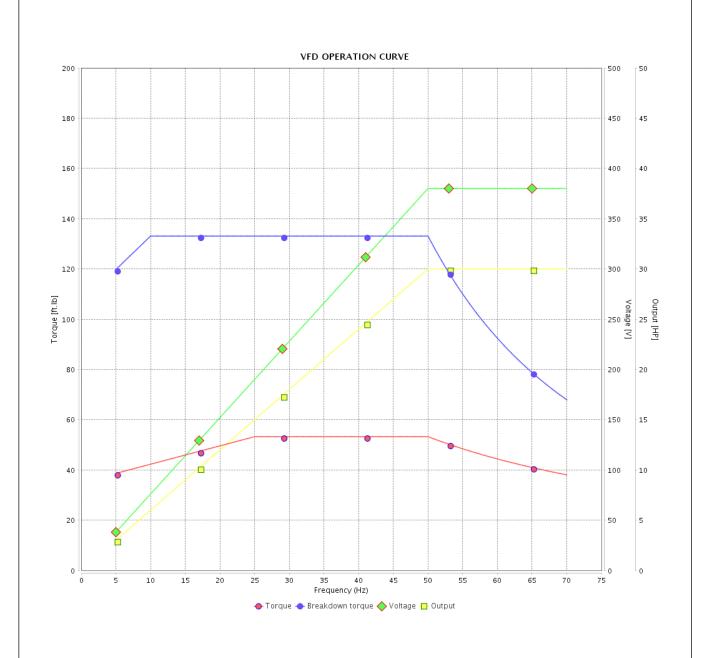
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Revision



Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 41.0 A : 7.2 : 53.2 ft.lb : 240 % : 250 % : 2965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.90 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Three Phase Induction Motor - Squirrel Cage



Customer :

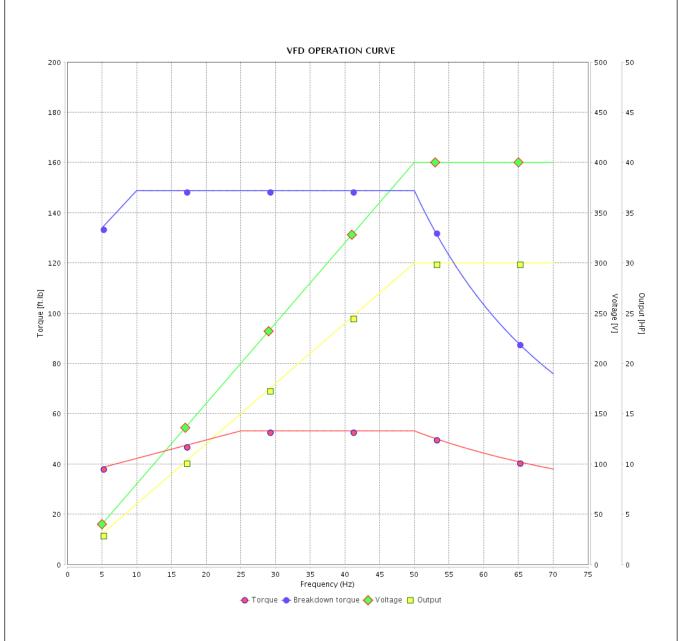
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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Performance	: 400 V 50 Hz 2P IE3	: 400 V 50 Hz 2P IE3			
Rated current	: 39.4 A	Moment of inertia (J)		: 4.90 sq.ft.lb	
LRC	: 7.5	Duty cycle	•	: Cont.(S1)	
Rated torque	: 53.1 ft.lb	Insulation class		: F	
Locked rotor torque	: 270 %	Service factor		: 1.00	
Breakdown torque	: 280 %	Temperature rise Design		: 80 K : B	
Rated speed	: 2970 rpm				
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Performed by					
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13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



Customer

Date

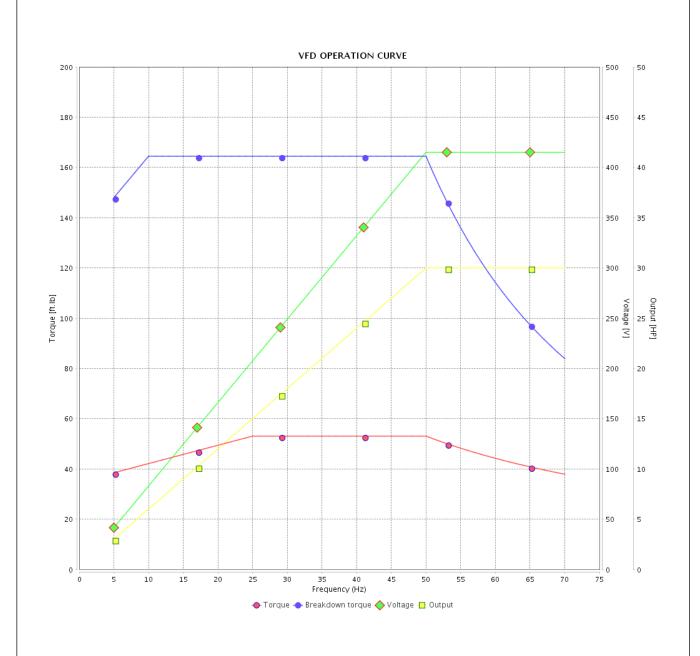
13/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12603096

Phase

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Performance		: 415 V 50 Hz 2P IE	3			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	jue je	: 38.4 A : 7.6 : 53.0 ft.lb : 290 % : 310 % : 2970 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

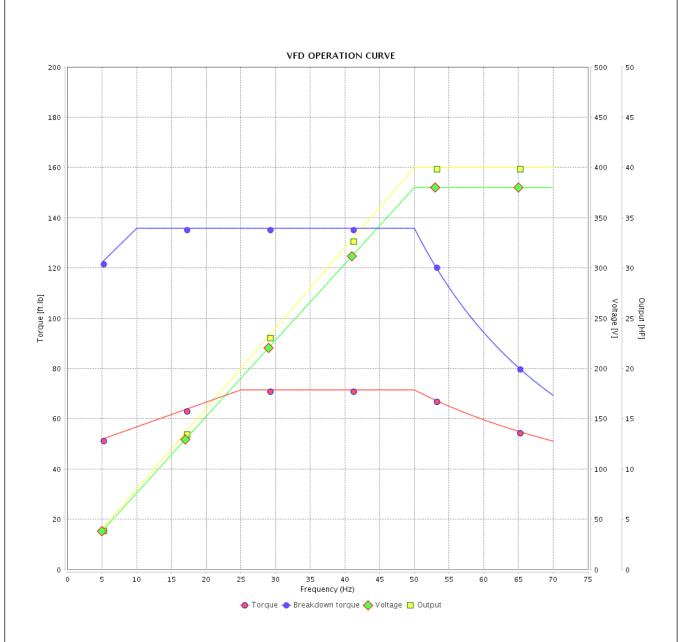
Product code: 12603096

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Performance : 380 V 50 Hz 2P IE1 Rated current : 56.3 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** : 5.0 Duty cycle : Cont.(S1) : 71.4 ft.lb Insulation class : F Rated torque Locked rotor torque : 180 % Service factor : 1.00 Breakdown torque : 200 % Temperature rise : 105 K Rated speed : 2940 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



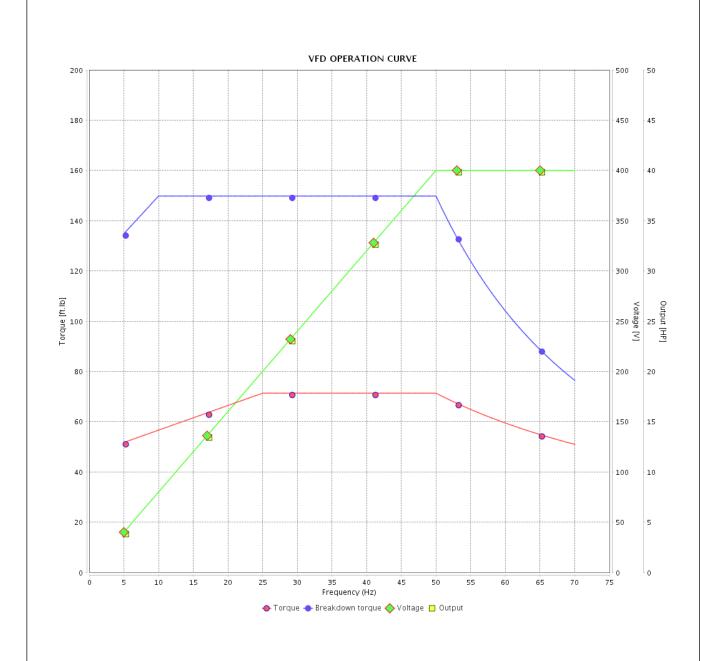
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12603096

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Performance	:	400 V 50 Hz 2P IE1				
Rated current		53.1 A	B.1 A Moment of inertia (J)		: 4.90 sq.ft.lb	
LRC	:	5.6	Duty cycle	;	: Cont.(S1)	
Rated torque	:	71.3 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	200 %	Service fa	ctor	: 1.00	
Breakdown torqu	•		ure rise	: 105 K		
Rated speed	:	2945 rpm	Design		: B	
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Product line : NEMA Premium Efficiency Three-

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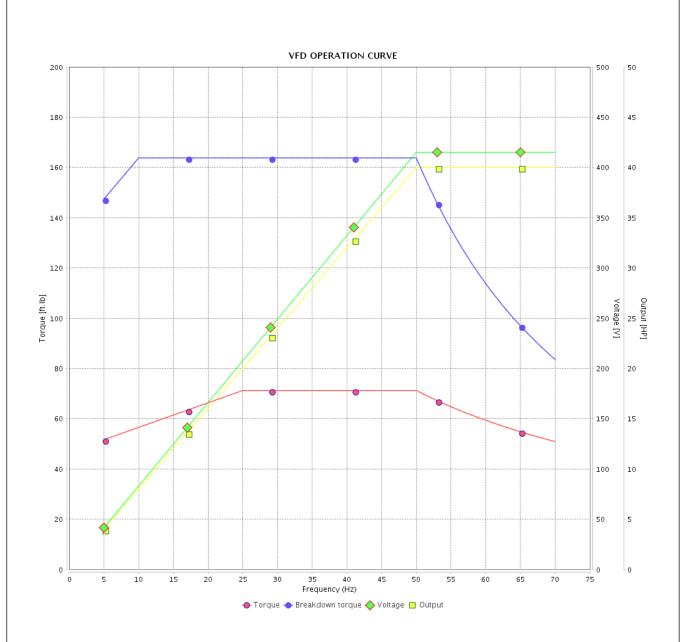
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Performance : 415 V 50 Hz 2P IE1 Rated current : 51.7 A Moment of inertia (J) : 4.90 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.2 : 71.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2955 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

