DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency Product code: 11165995

Three-Phase

Catalog #: 06036ET3E364TS-W22

Frame : 364/5TS Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

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

: -20°C to +40°C Ambient temperature Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ : 388 kg Altitude

Protection degree · IP55 Moment of inertia (J) : 0.4485 kgm²

Protection degree		: IP55		Mome	nt of inertia (J)	: 0	.4485 kgm²	
Design		: B						
Output [HP]		60	50	50	50	60	60	60
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]		134/67.0	65.9	63.3	61.7	81.3	77.6	74.8
L. R. Amperes [A]		884/442	415	443	457	423	450	464
LRC [A]		6.6x(Code	6.3x(Code F)	7.0x(Code	7.4x(Code H)	5.2x(Code E)	5.8x(Code F)	6.2x(Code F)
		G)		G)				
No load current [A]		30.0/15.0	15.0	16.2	17.4	15.0	16.2	17.4
Rated speed [RPM	1]	3560	2955	2960	2965	2945	2950	2955
Slip [%]		1.11	1.50	1.33	1.17	1.83	1.67	1.50
Rated torque [kgfm]		12.2	12.3	12.3	12.2	14.8	14.8	14.7
Locked rotor torque [%]		200	190	220	229	160	180	190
Breakdown torque [%]		260	250	280	300	210	229	250
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	105 K	105 K	105 K
Locked rotor time		25s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)
		14s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)
Noise level ²		79.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)
	25%							
Efficiency (%)	50%	91.7	92.1	91.7	91.6	92.4	92.4	92.4
Lindicity (70)	75%	93.0	92.8	92.8	92.9	93.0	93.0	93.0
	100%	93.6	93.7	93.7	93.7	92.4	93.0	93.0
25%								
Power Factor	50%	0.81	0.81	0.79	0.76	0.85	0.83	0.81
I OWEL FACIOI	75%	0.88	0.88	0.87	0.85	0.90	0.89	0.88
	100%	0.90	0.91	0.90	0.89	0.91	0.90	0.90

Drive end Non drive end Foundation loads Bearing type 6314 C3 6314 C3 Max. traction : 220 kgf Sealing WSeal WSeal : 607 kgf Max. compression

Lubrication interval 4000 h 4000 h 27 g Lubricant amount 27 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 148A SF 1.10 SFA 163A

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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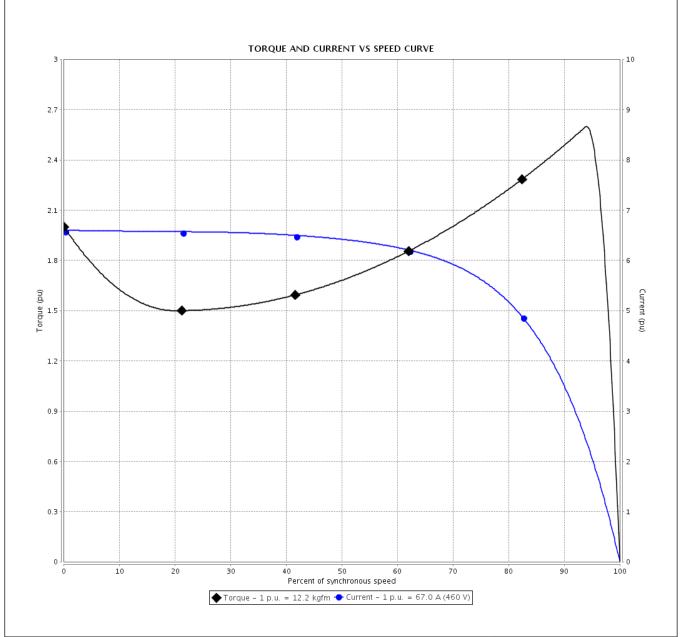
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165995

Catalog #: 06036ET3E364TS-W22



: 230/460 V 60 Hz 2P Performance Rated current : 134/67.0 A Moment of inertia (J) : 0.4485 kgm² **LRC** Duty cycle : Cont.(S1) : F : 12.2 kgfm Insulation class Rated torque : 200 % Service factor Locked rotor torque : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3560 rpm Design : B

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

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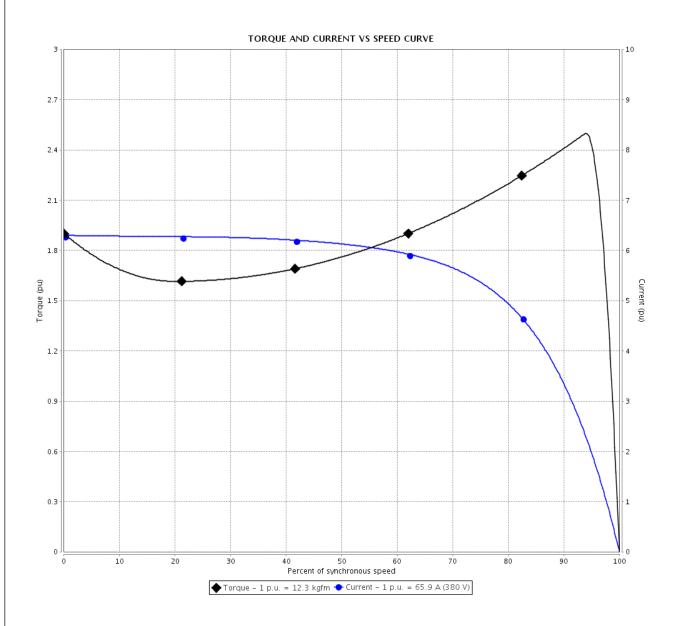
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165995

Catalog #: 06036ET3E364TS-W22



Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 65.9 A	Moment of inertia (J)	: 0.4485 kgm²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	:F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2955 rpm	Design	: B
Locked rotor time	: 21s (cold) 12s (hot)		

Locked rotor time

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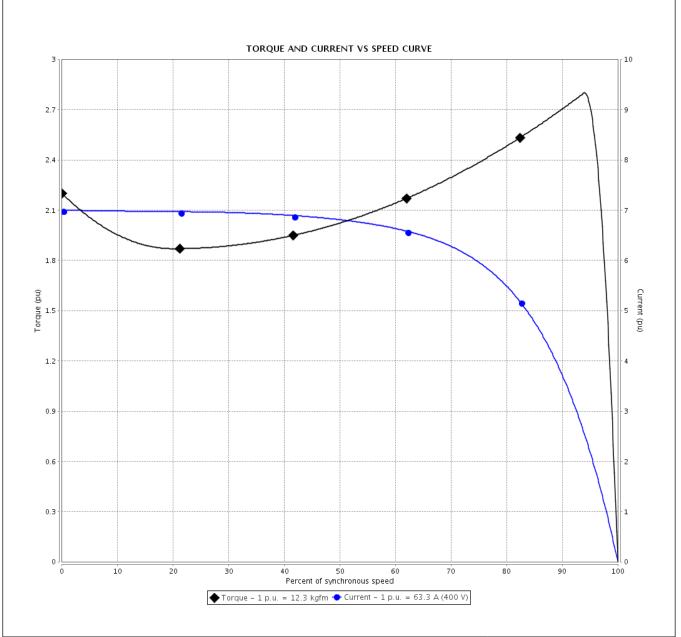
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165995

Catalog #: 06036ET3E364TS-W22



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 63.3 A	Moment of inertia (J)	: 0.4485 kgm²
LRC Rated torque	: 7.0 : 12.3 kgfm	Duty cycle Insulation class	: Cont.(S1) : F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 2960 rpm	Design	: B
Locked rotor time	: 21s (cold) 12s (hot)		

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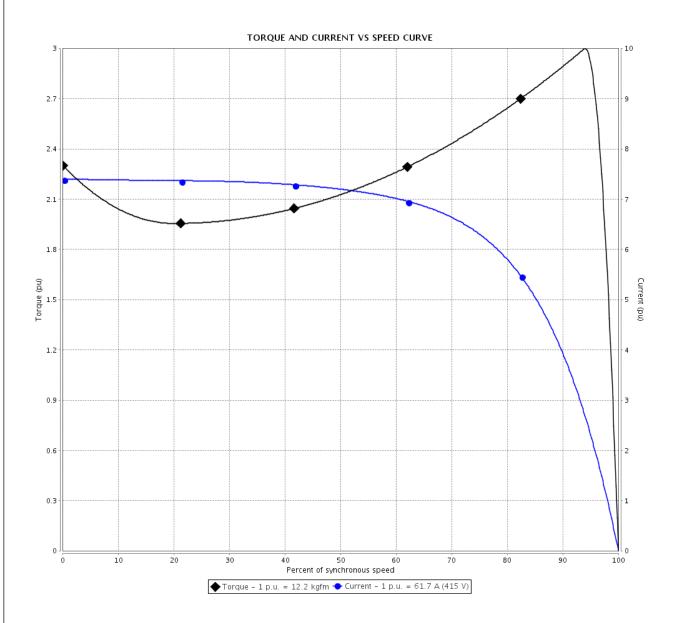
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165995

Catalog #: 06036ET3E364TS-W22



Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 61.7 A	Moment of inertia (J)	: 0.4485 kgm²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 12.2 kgfm	Insulation class	:F
Locked rotor torque	: 229 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2965 rpm	Design	: B
Locked rotor time	: 21s (cold) 12s (hot)		

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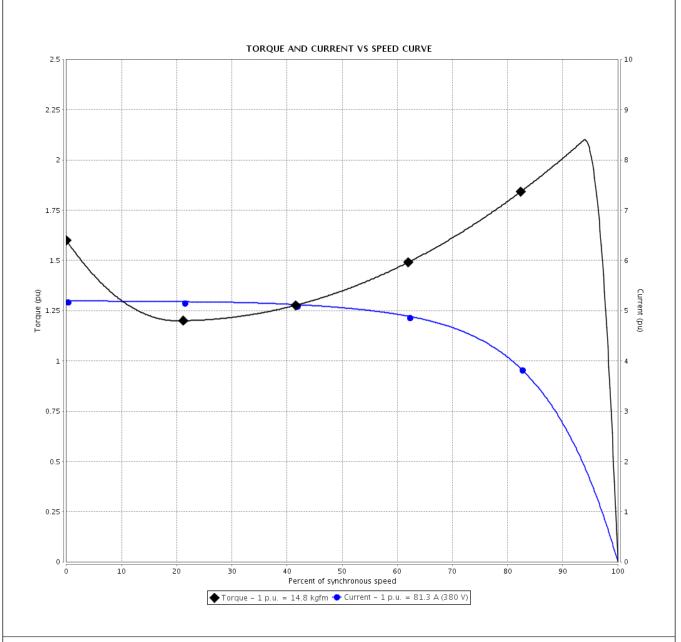
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165995

Catalog #: 06036ET3E364TS-W22



Performance : 380 V 50 Hz 2P IE1 Rated current : 81.3 A Moment of inertia (J) : 0.4485 kgm² **LRC** : 5.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 14.8 kgfm : 160 % Service factor Locked rotor torque : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 2945 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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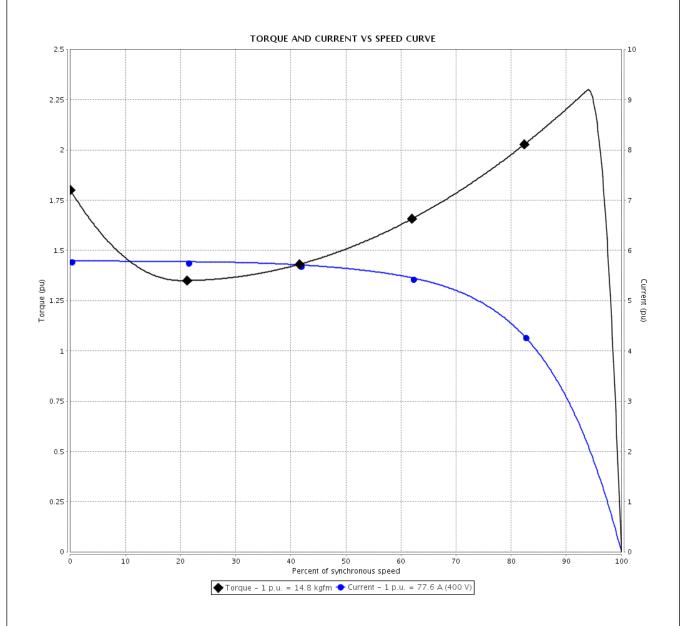
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165995

Catalog #: 06036ET3E364TS-W22



Performance : 400 V 50 Hz 2P IE2 Rated current : 77.6 A Moment of inertia (J) : 0.4485 kgm² **LRC** : 5.8 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 14.8 kgfm : 1.00 Locked rotor torque : 180 % Service factor Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 2950 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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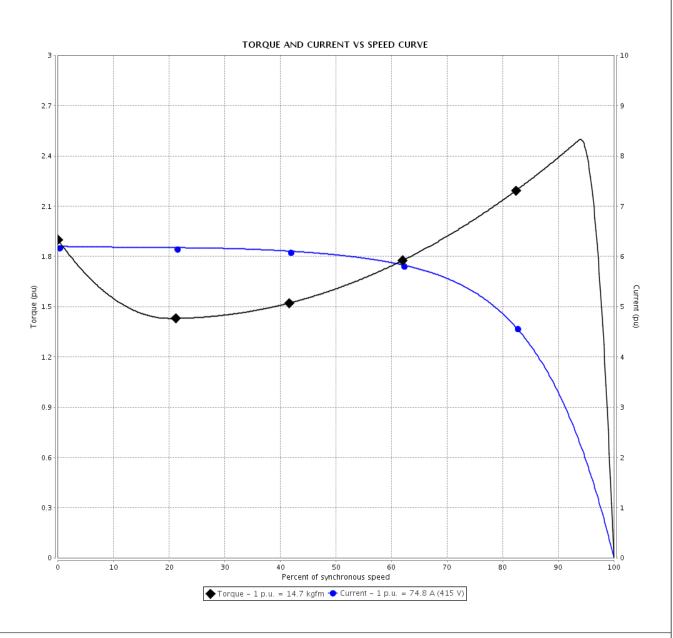
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165995

Catalog #: 06036ET3E364TS-W22



Performance : 415 V 50 Hz 2P IE2 Rated current : 74.8 A Moment of inertia (J) : 0.4485 kgm² **LRC** : 6.2 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 14.7 kgfm : 190 % Service factor Locked rotor torque : 1.00

Breakdown torque : 250 % Temperature rise : 105 K Rated speed : 2955 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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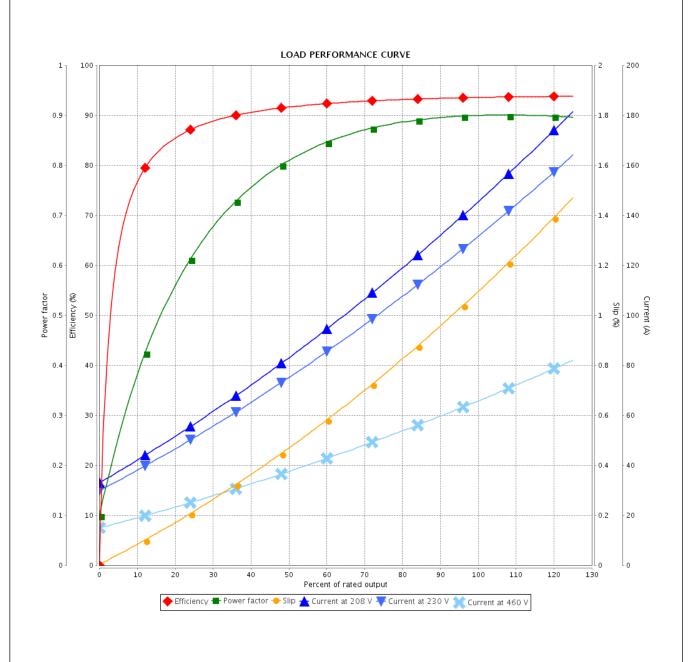


Customer

Product line : W22 NEMA Premium Efficiency Product code : 11165995

Three-Phase

Catalog #: 06036ET3E364TS-W22



Performance	::	: 230/460 V 60 Hz 2P				
Rated current	current : 134/67.0 A		Moment o	f inertia (J)	: 0.4485 kgm²	
LRC	: (6.6	Duty cycle	;	: Cont.(S1)	
Rated torque	:	12.2 kgfm	Insulation	class	: F	
Locked rotor torque	e ::	: 200 % Service factor		ctor	: 1.25	
Breakdown torque	::	260 %	Temperature rise		: 80 K	
Rated speed		3560 rpm Design			: B	
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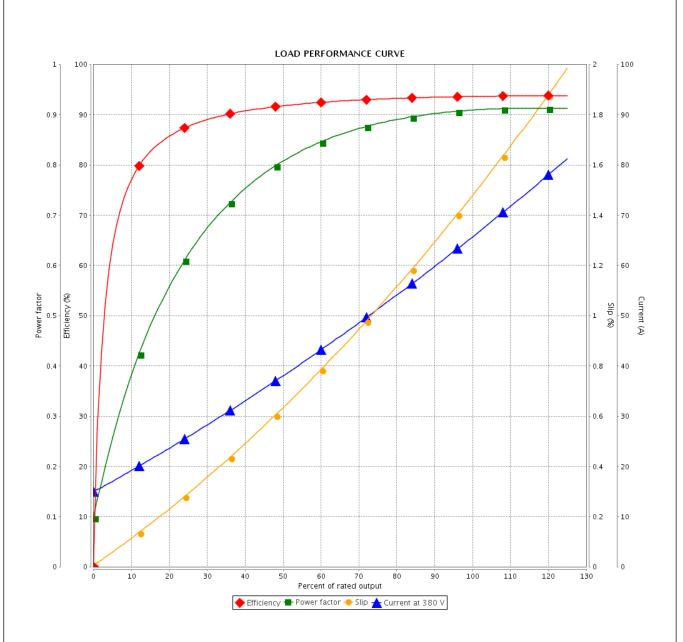
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165995

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 65.9 A Momen: : 6.3 Duty cy. : 12.3 kgfm Insulation : 190 % Service : 250 % Temper.		class ctor	: 0.4485 kgm² : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	: 2955 rpm	Design		: B	
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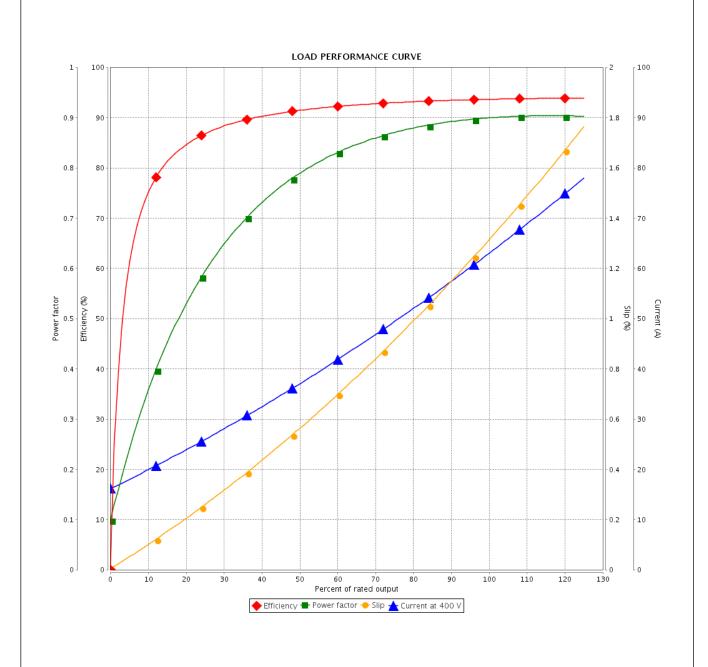


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Three-Phase

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Performance	: 4	00 V 50 Hz 2P IE3				
Rated current	: 6	3.3 A	A Moment of inertia (J)		: 0.4485 kgm²	2
LRC	: 7	.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1	2.3 kgfm	Insulation	Insulation class		
Locked rotor torqu	ue : 2	20 %	Service fa	Service factor		
Breakdown torque	e : 2	80 %	Temperati	Temperature rise		
Rated speed	Rated speed : 2960 rpm Design		Design		: B	
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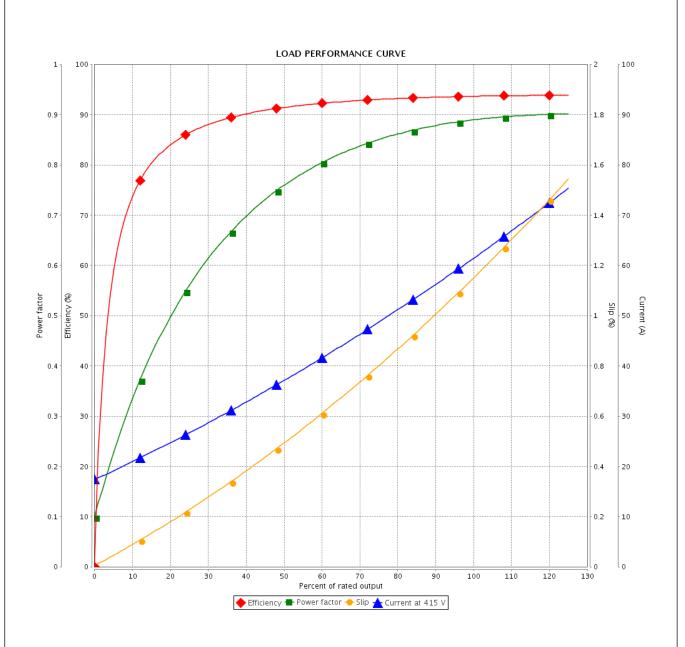
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Three-Phase

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- ·	445.7450.11.00.150				
Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 61.7 A : 7.4 : 12.2 kgfm : 229 % : 300 % : 2965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4485 kgm ² : Cont.(S1) : F : 1.00 : 80 K : B	•
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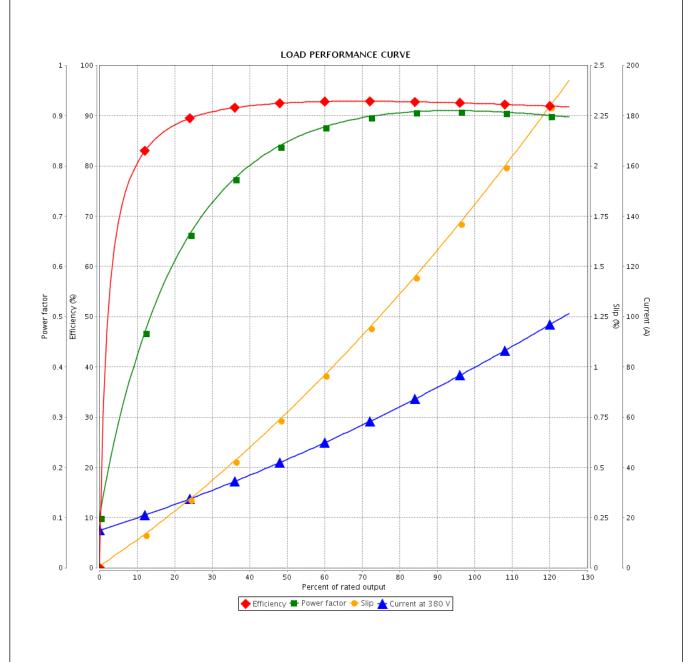
Customer

Product line : W22 NEMA Premium Efficiency Product code :

Three-Phase

Catalog #: 06036ET3E364TS-W22

11165995



Performance	:	: 380 V 50 Hz 2P IE1				
Rated current		: 81.3 A Mom		f inertia (J)	: 0.4485 kgm²	
LRC	:	5.2	Duty cycle	;	: Cont.(S1)	
Rated torque	:	14.8 kgfm	Insulation	class	: F	
Locked rotor torque	e :	160 %	Service factor		: 1.00	
Breakdown torque		210 %	Temperature rise		: 105 K	
Rated speed : 2945 rpm		2945 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



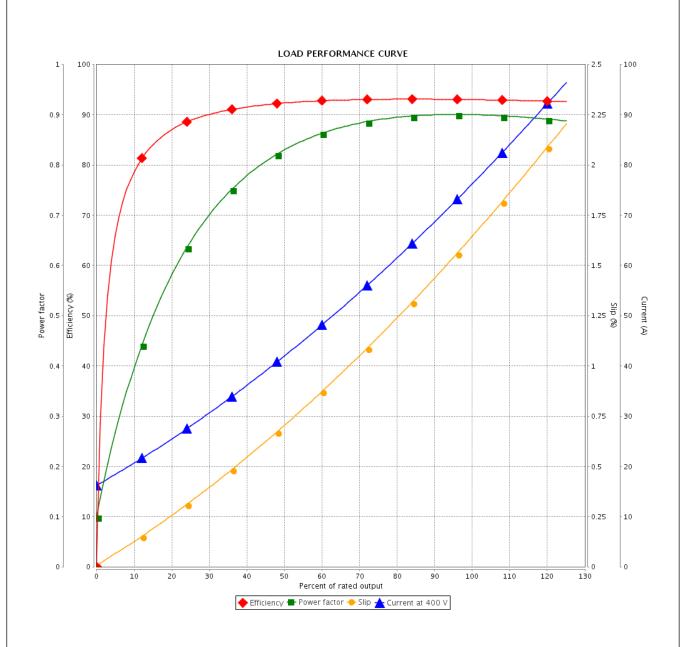
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165995

Catalog #: 06036ET3E364TS-W22



				·	
Performance	: 400 V 50 Hz 2P IE2	P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 77.6 A : 5.8 : 14.8 kgfm : 180 % : 229 % : 2950 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4485 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	2
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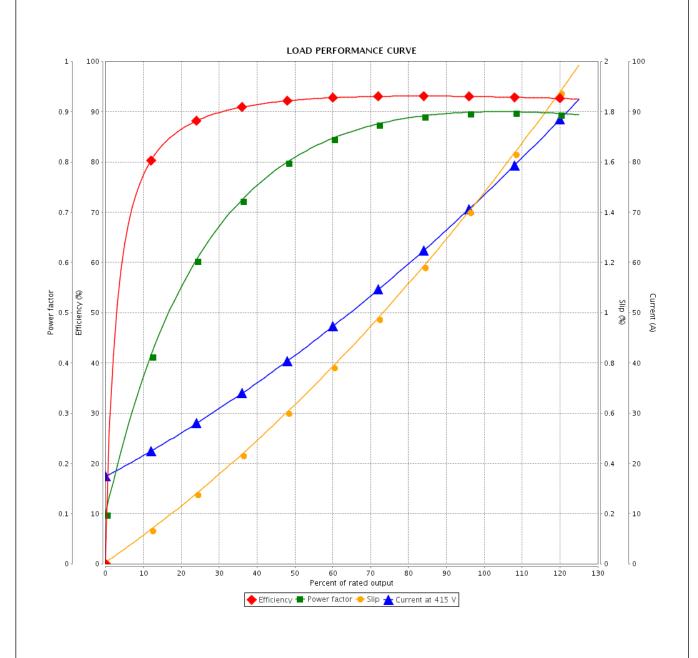


Customer

Product line : W22 NEMA Premium Efficiency Product code: 11165995

Three-Phase

Catalog #: 06036ET3E364TS-W22



Performance	: •	415 V 50 Hz 2P IE2	5 V 50 Hz 2P IE2			
Rated current	:	: 74.8 A Moment of inert		f inertia (J)	: 0.4485 kgm²	!
LRC : 6.		6.2	Duty cycle	;	: Cont.(S1)	
Rated torque :		14.7 kgfm	Insulation	class	: F	
Locked rotor torque		190 %	Service fa	ctor	: 1.00	
Breakdown torque		250 %	Temperati	Temperature rise		
Rated speed : 2955 rp		2955 rpm	Design		: B	
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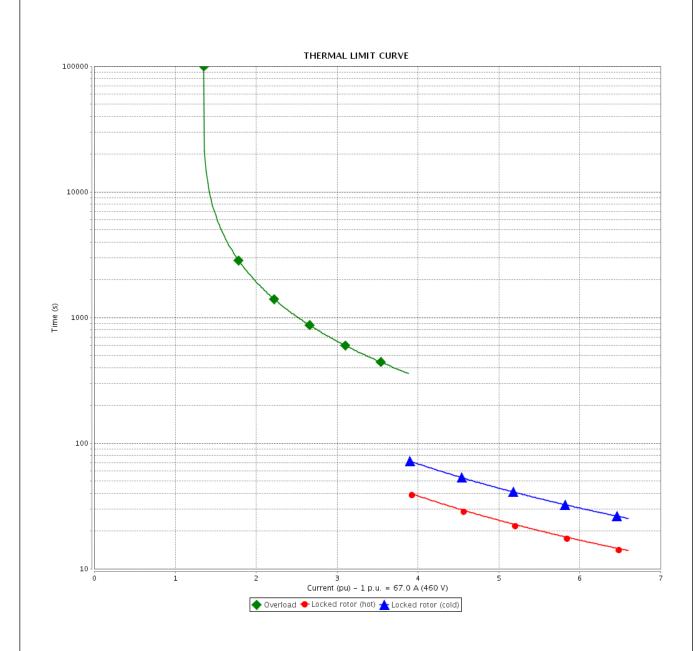


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Product line		/22 NEMA Premium Effici	iency I	Product code :	11165995	
	Th	Three-Phase		Catalog # :	06036ET3E3	64TS-W22
Performance		0/460 V 60 Hz 2P			0	
Rated current LRC	: 134 : 6.6	4/67.0 A	Moment of Duty cycle	f inertia (J)	: 0.4485 kgm² : Cont.(S1)	
Rated torque	: 12.	.2 kgfm	Insulation	class	: F	
Locked rotor torque Breakdown torque	: 200 : 260		Service fa		: 1.25 : 80 K	
Rated speed		60 rpm	Design		: B	
Heating constant						
Cooling constant						
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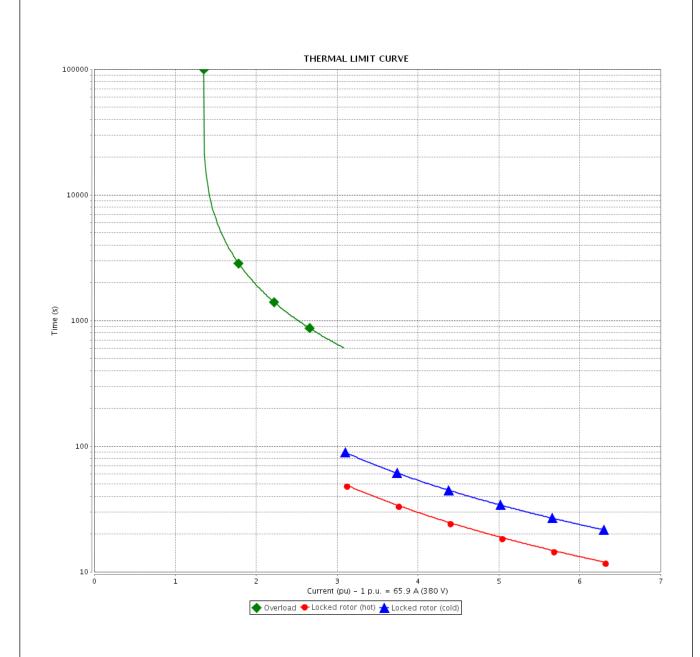


Customer	:				
Product line	: W22 NEMA Premium Et Three-Phase		Product code :	11165995	
			Catalog # :	06036ET3E3	864TS-W22
Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque	: 65.9 A : 6.3 : 12.3 kgfm : 190 %	Moment of Duty cycle Insulation Service fa	class	: 0.4485 kgm² : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	: 250 % : 2955 rpm	Temperate Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant					
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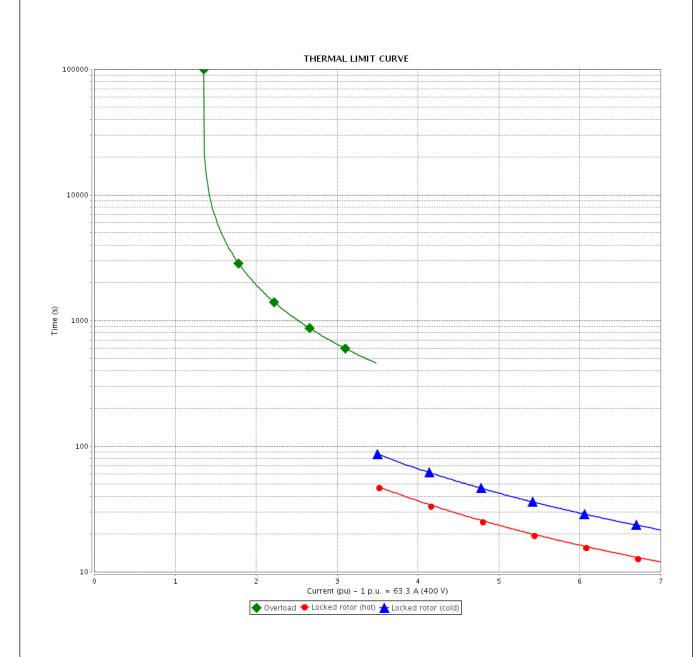


Customer	:					
Product line	: \	N22 NEMA Premium Efficienree-Phase	ency I	Product code :	11165995	
	11	iree-Phase	(Catalog # :	06036ET3E36	64TS-W22
Performance	· 4(00 V 50 Hz 2P IE3				
Rated current		3.3 A	Moment of	f inertia (J)	: 0.4485 kgm²	
LRC Rated torque	: 7.		Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	jue : 22	20 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		30 % 960 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant					- -	
Cooling constant						
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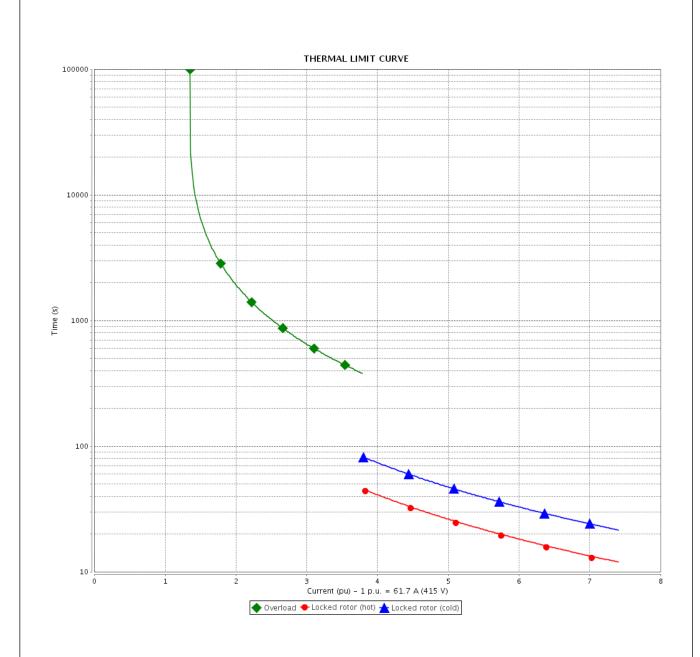


Customer		:				
Product line		: W22 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	11165995 06036ET3E36	64TS-W22
Performance Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	que ue	: 415 V 50 Hz 2P IE3 : 61.7 A : 7.4 : 12.2 kgfm : 229 % : 300 % : 2965 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.4485 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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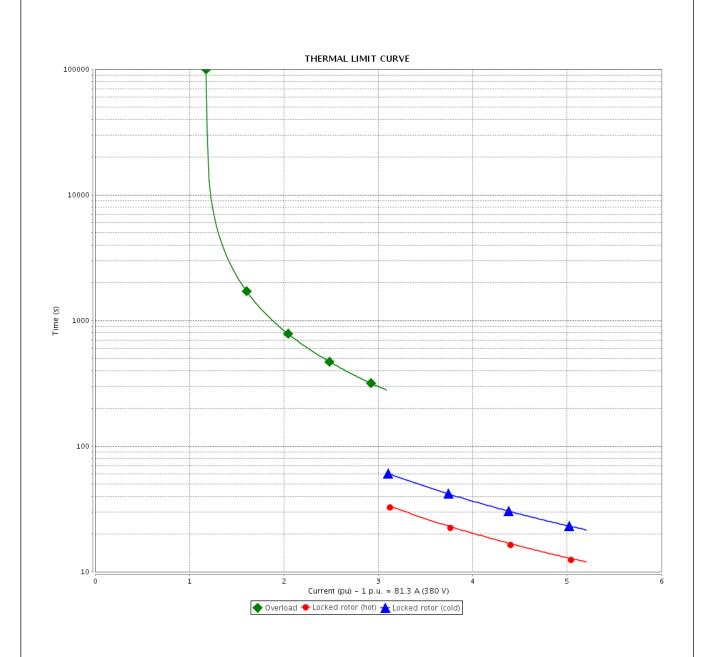


Customer		:				
Product line		: W22 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	11165995 06036ET3E36	4TS-W22
Performance		380 V 50 Hz 2P IE1				
Rated current LRC	:	81.3 A 5.2	Moment o	f inertia (J)	: 0.4485 kgm² : Cont.(S1)	
Rated torque	:	14.8 kgfm	Insulation	class	: F	
Locked rotor tord Breakdown torqu		160 % 210 %	Service fa Temperatu		: 1.00 : 105 K	
Rated speed		2945 rpm	Design		: B	
Heating constant						
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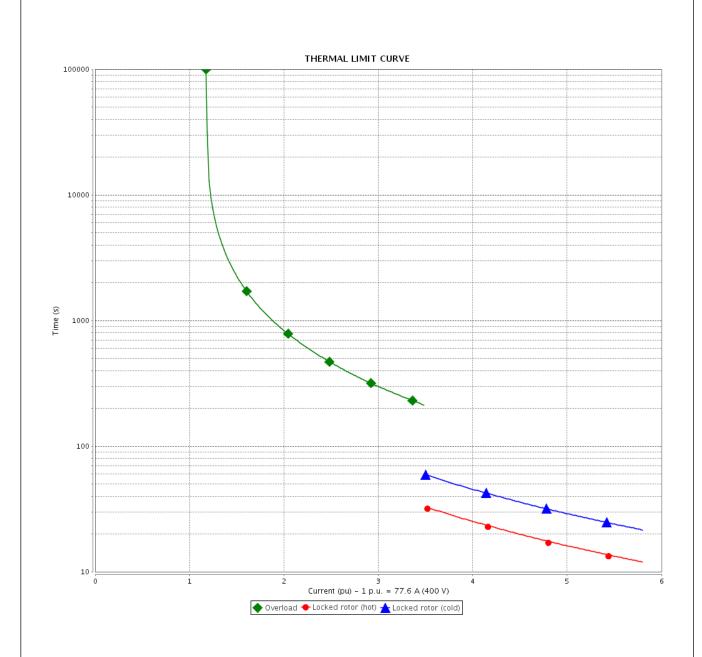


Customer		:				
Product line		: W22 NEMA Premium Effici Three-Phase		Product code : Catalog # :	11165995 06036ET3E3	64TS-W22
Performance		: 400 V 50 Hz 2P IE2				
Rated current LRC		: 77.6 A : 5.8	Duty cycle		: 0.4485 kgm² : Cont.(S1)	
Rated torque Locked rotor torc	que	: 14.8 kgfm : 180 %	Insulation Service fa	ictor	: F : 1.00	
Breakdown torqu Rated speed		: 229 % : 2950 rpm	Temperati Design	ure rise	: 105 K : B	
Heating constan						
Cooling constant	L	Changes Summary		Performed	Checked	Date
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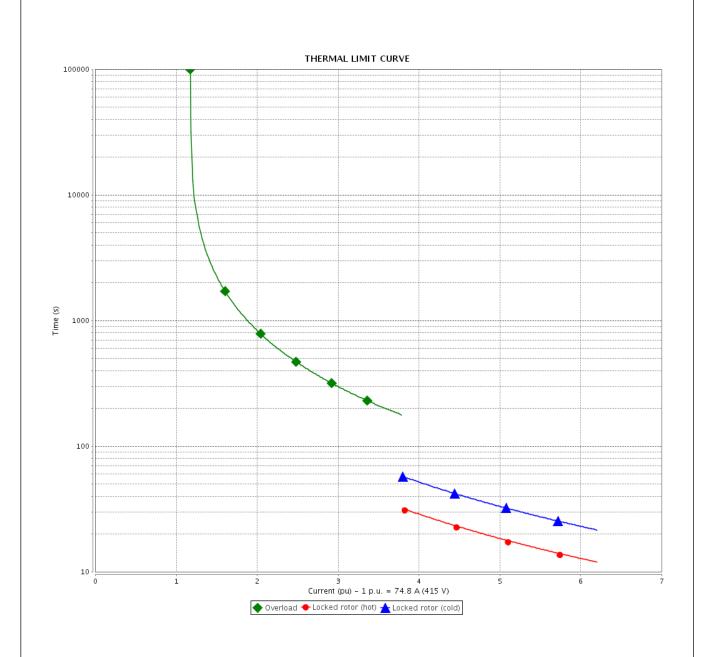


Customer		:				
Product line		: W22 NEMA Premium Efficie Three-Phase		Product code : Catalog # :	11165995 06036ET3E36	4TS-W22
Performance		415 V 50 Hz 2P IE2				
Rated current LRC	:	74.8 A 6.2	Duty cycle		: 0.4485 kgm² : Cont.(S1)	
Rated torque		14.7 kgfm 190 %	Insulation Service fa	class	: F : 1.00	
Locked rotor tord Breakdown torqu Rated speed	ue :	250 % 2955 rpm	Temperati Design		: 1.00 : 105 K : B	
Heating constant	t		-			
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Three Phase Induction Motor - Squirrel Cage



Customer



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Customer :

Date

26/01/2022

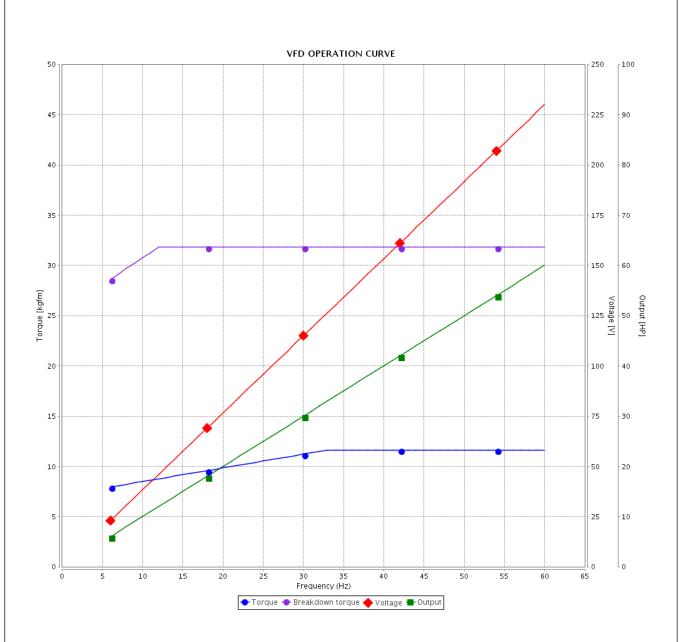
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165995

Catalog #: 06036ET3E364TS-W22

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Performance : 230/460 V 60 Hz 2P : 134/67.0 A : 0.4485 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.6 Insulation class Rated torque : 12.2 kgfm : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 3560 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



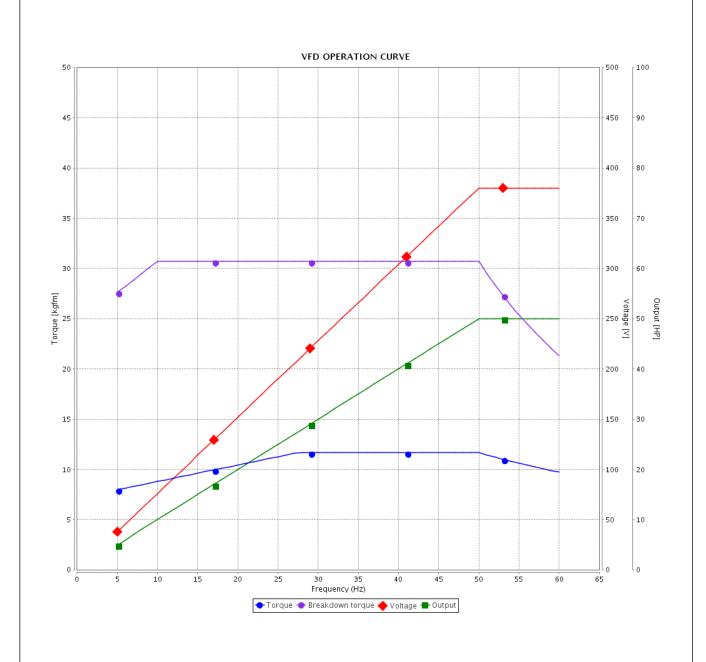
Customer

Product line : W22 NEMA Premium Efficiency Product code : 11165995

Three-Phase

Catalog # : 06036ET3E364TS-W22

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Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 65.9 A : 6.3 : 12.3 kgfm : 190 % : 250 % : 2955 rpm	Moment of inertia (J Duty cycle Insulation class Service factor Temperature rise Design)	: 0.4485 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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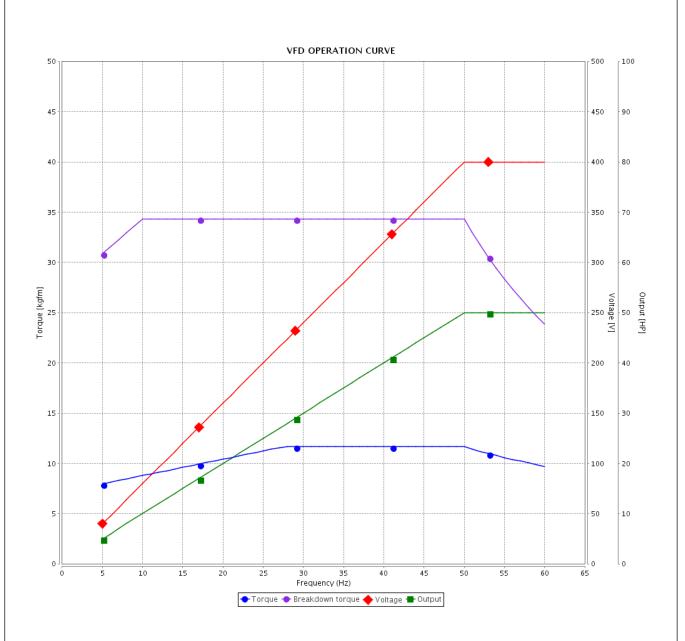
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165995

Catalog #: 06036ET3E364TS-W22

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Performance	: 400 V 50 Hz 2P IE3				
Rated current	: 63.3 A	Moment o	f inertia (J)	: 0.4485 kgm²	2
LRC	: 7.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 12.3 kgfm	Insulation	class	: F	
Locked rotor torque	: 220 %	Service fa	ctor	: 1.00	
Breakdown torque	: 280 %	Temperati	ıre rise	: 80 K	
Rated speed	: 2960 rpm	Design		: B	
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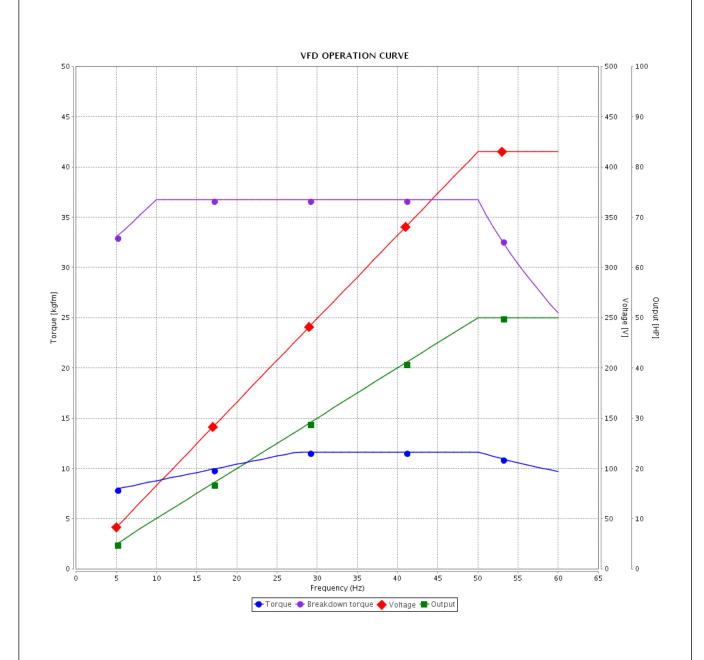
Customer

Product line : W22 NEMA Premium Efficiency Product code : 11165995

Three-Phase

Catalog #: 06036ET3E364TS-W22

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Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 61.7 A : 7.4 : 12.2 kgfm : 229 % : 300 % : 2965 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 0.4485 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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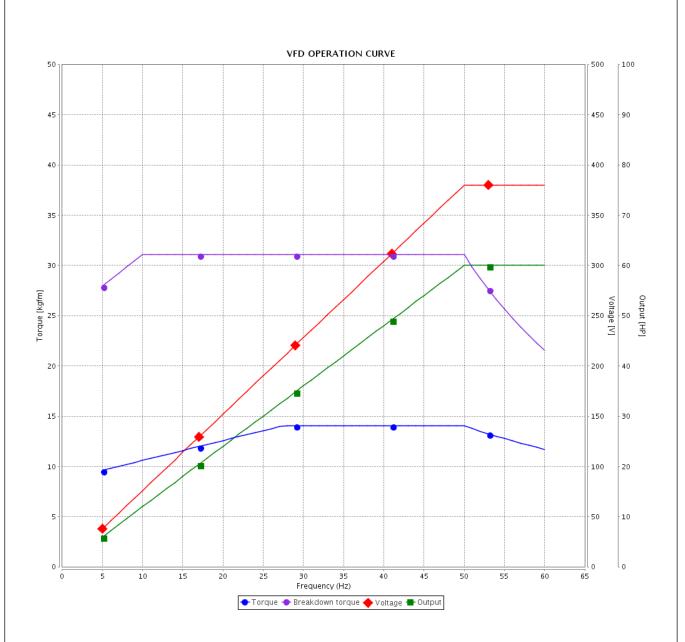
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165995

Catalog #: 06036ET3E364TS-W22



Performance : 380 V 50 Hz 2P IE1 : 0.4485 kgm² Rated current : 81.3 A Moment of inertia (J) **LRC** : 5.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 14.8 kgfm : F Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 2945 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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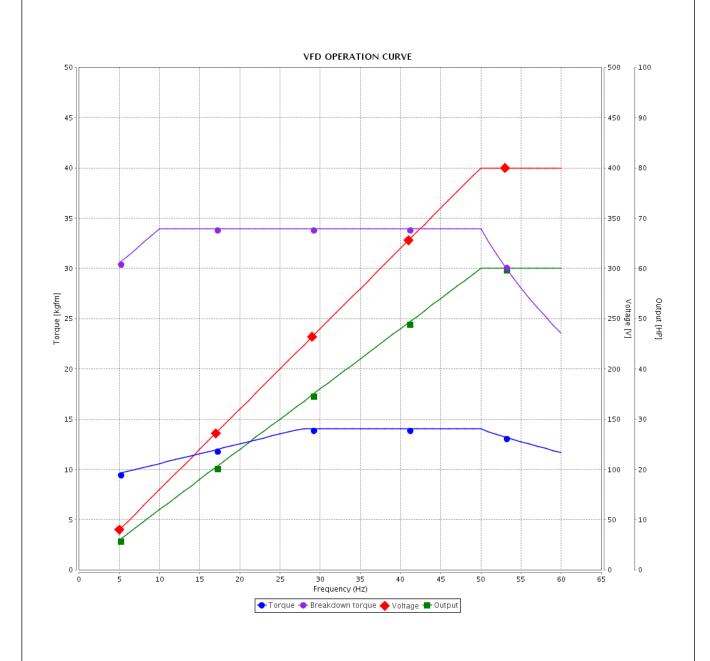
Customer

Product line : W22 NEMA Premium Efficiency Product

Three-Phase

Product code: 11165995

Catalog #: 06036ET3E364TS-W22



Performance		: 400 V 50 Hz 2P IE2						
Rated current	:	77.6 A	Moment of inertia (J)		: 0.4485 kgm²			
LRC		5.8	Duty cycle		: Cont.(S1)			
Rated torque	:	: 14.8 kgfm Insulati		class	:F			
Locked rotor torqu	ue :	180 %	Service fa	ctor	: 1.00			
Breakdown torque	e :	229 %	Temperati	Temperature rise				
Rated speed	:	2950 rpm Design		: B				
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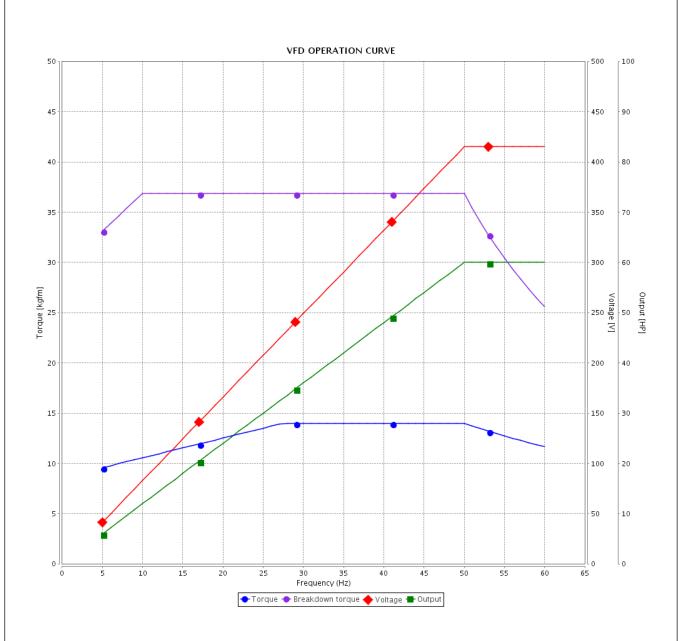
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11165995

Catalog #: 06036ET3E364TS-W22

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Performance	: 415 V 50 Hz 2P IE2							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 74.8 A : 6.2 : 14.7 kgfm : 190 % : 250 % : 2955 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4485 kgm² : Cont.(S1) : F : 1.00 : 105 K : B				
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