DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 Cooling Tower NEMA Premium Product code: 11972328 Efficiency Three-Phase Catalog #: 02518ET3ECT284T-W22 Frame : 284T Cooling method : IC411 - TEFC Insulation class Mounting : F-2 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) : -20°C to +40°C Starting method Ambient temperature : Direct On Line : 1000 m.a.s.l. Approx. weight3 : 389 lb Altitude : IP55 Moment of inertia (J) : 5.11 sq.ft.lb Protection degree Design : B Output [HP] 25 20 20 20 25 25 Poles 4 4 4 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 230/460 380 400 415 380 400 415 Rated current [A] 59.0/29.5 28.2 35.9 34.3 29.1 27.5 33.2 L. R. Amperes [A] 366/183 190 175 189 198 189 196 LRC [A] 6.2x(Code 6.0x(Code | 6.7x(Code H) | 7.2x(Code J) | 5.3x(Code F) | 5.5x(Code F) | 5.9x(Code G) G) G) No load current [A] 22.0/11.0 11.0 11.7 12.4 11.0 11.7 12.4 Rated speed [RPM] 1770 1470 1473 1475 1455 1460 1465 Slip [%] 3.00 1.67 2.00 1.80 1.67 2.67 2.33 Rated torque [ft.lb] 90.2 74.2 71.4 71.3 71.2 89.9 89.6 Locked rotor torque [%] 240 229 250 270 180 200 220 Breakdown torque [%] 210 270 260 300 330 240 260 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 80 K 80 K 80 K 80 K 105 K 105 K Temperature rise 105 K Locked rotor time 43s (cold) 32s (cold) 32s (cold) 32s (cold) 25s (cold) 25s (cold) 25s (cold) 24s (hot) 18s (hot) 18s (hot) 18s (hot) 14s (hot) 14s (hot) 14s (hot) Noise level² 63.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 61.0 dB(A) 25% 91.7 91.1 91.0 90.8 92.9 92.8 92.2 50% 92.4 91.3 91.3 91.2 92.4 92.4 92.4 Efficiency (%) 75% 93.0 92.1 92.5 92.5 91.7 92.4 92.4 100% 92.1 92.7 93.6 92.6 91.0 91.7 92.4 25% 0.45 0.44 0.41 0.38 0.52 0.48 0.45 50% 0.70 0.69 0.65 0.62 0.76 0.73 0.70 Power Factor 75% 0.80 0.80 0.78 0.75 0.84 0.82 0.80 100% 0.84 0.85 0.83 0.82 0.86 0.85 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.8 6.8 6.8 6.8 6.8 6.8 6.8 P2 (0,5;1,0) 5.8 5.8 5.8 5.8 5.8 5.8 5.8 P3 (0,25;1,0) 5.3 5.3 5.3 5.3 5.3 5.3 5.3 P4 (0,9;0,5) Losses (%) 3.1 3.1 3.1 3.1 3.1 3.1 3.1 P5 (0,5;0,5) 2.2 2.2 2.2 2.2 2.2 2.2 2.2 P6 (0,5;0,25) 1.4 1.4 1.4 1.4 1.4 1.4 1.4 P7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6311 6211 Max. traction : 822 lb 2RS C3 2RS C3 Sealing V'Ring : 1210 lb V'Ring Max. compression Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

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DATA SHEET



Notes USABLE @208V 65.2A SF 1.16 SFA 75.0A	Three Phase Induction Motor - Squirrel Cage	<u> </u>
Notes USABLE @208V 65.2A SF 1.15 SFA 75.0A	Customer :	
USABLE @208V 60.24 SF 1.16 SF4 /5.04	Notes	
	USABLE @208V 65.2A SF 1.15 SFA 75.0A	

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		n Motor - Squirrei Cage	-		
Customer	:				
		Space heater inform	nation		
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Three Phase Induction Motor - Squirrel Cage



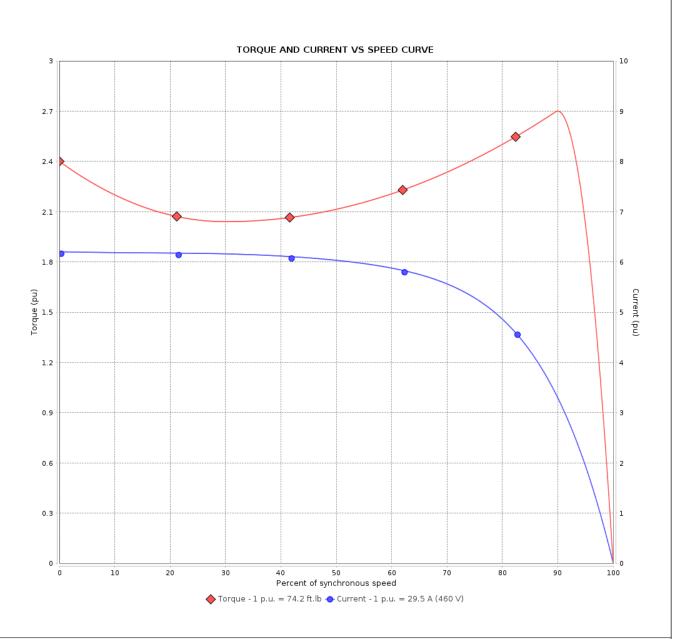
Customer :

Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328

Catalog #: 02518ET3ECT284T-W22



Performance : 230/460 V 60 Hz 4P Rated current : 59.0/29.5 A Moment of inertia (J) : 5.11 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 74.2 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 240 % : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 43s (cold) 24s (hot)

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Three Phase Induction Motor - Squirrel Cage



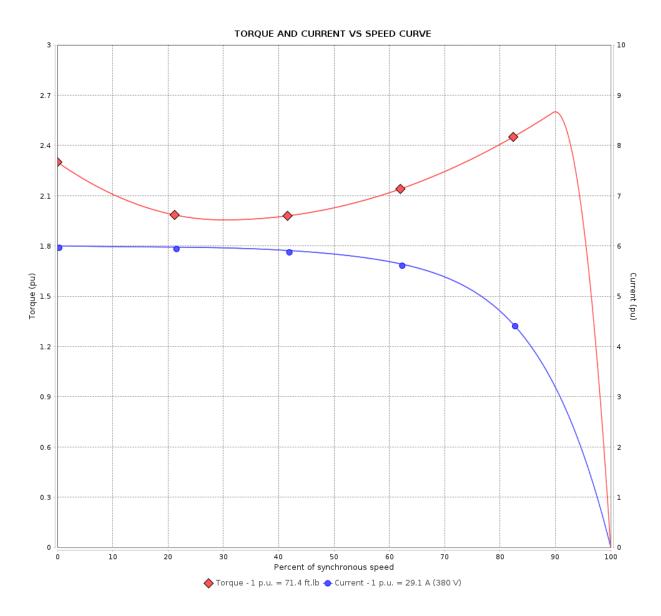
Customer :

Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328

Catalog #: 02518ET3ECT284T-W22



Performance	: 380 V 50 Hz 4P IE3			
Rated current	: 29.1 A	Moment of inertia (J)	: 5.11 sq.ft.lb	
LRC	: 6.0	Duty cycle	: Cont.(S1)	
Rated torque	: 71.4 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 1470 rpm	Design	: B	

Locked rotor time : 32s (cold) 18s (hot)

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Three Phase Induction Motor - Squirrel Cage



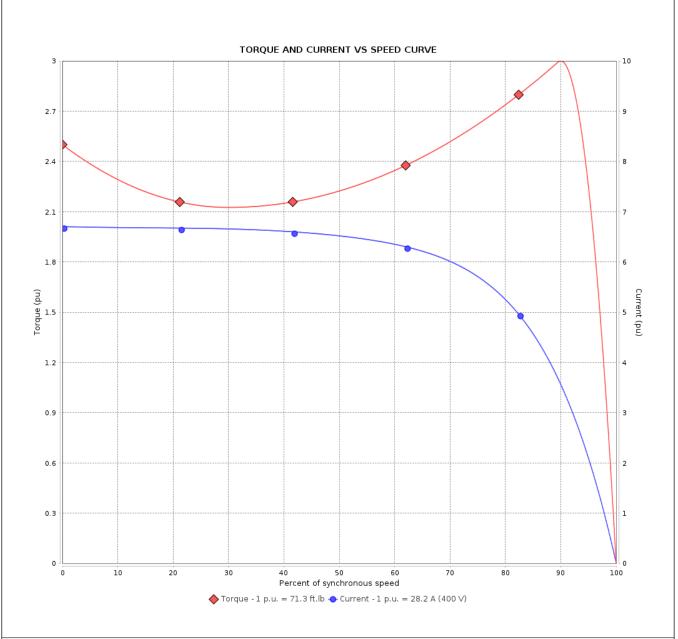
Customer :

Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328

Catalog #: 02518ET3ECT284T-W22



Performance : 400 V 50 Hz 4P IE3 Rated current : 28.2 A Moment of inertia (J) : 5.11 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class Rated torque : 71.3 ft.lb : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1473 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

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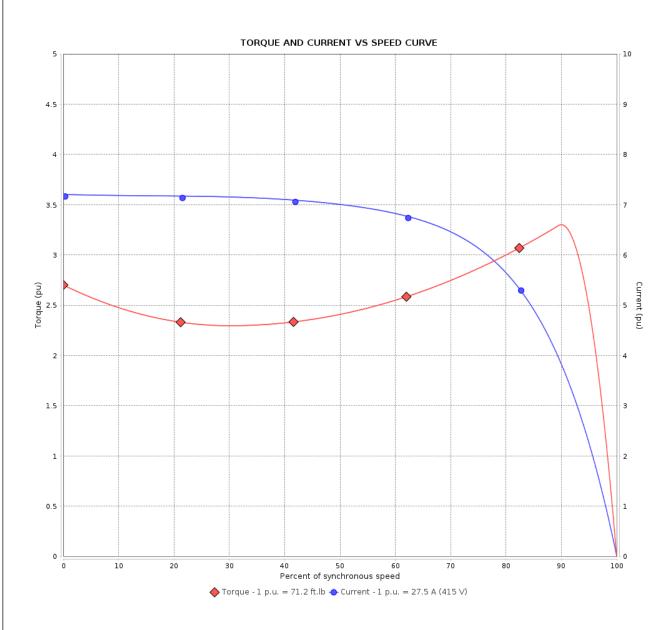
Customer :

Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328

Catalog #: 02518ET3ECT284T-W22



Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 27.5 A	Moment of inertia (J)	: 5.11 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 71.2 ft.lb	Insulation class	:F	
Locked rotor torque	: 270 %	Service factor	: 1.00	
Breakdown torque	: 330 %	Temperature rise	: 80 K	
Rated speed	: 1475 rpm	Design	: B	
Locked rotor time	· 32s (cold) 18s (hot)			

Locked rotor time : 32s (cold) 18s (hot)

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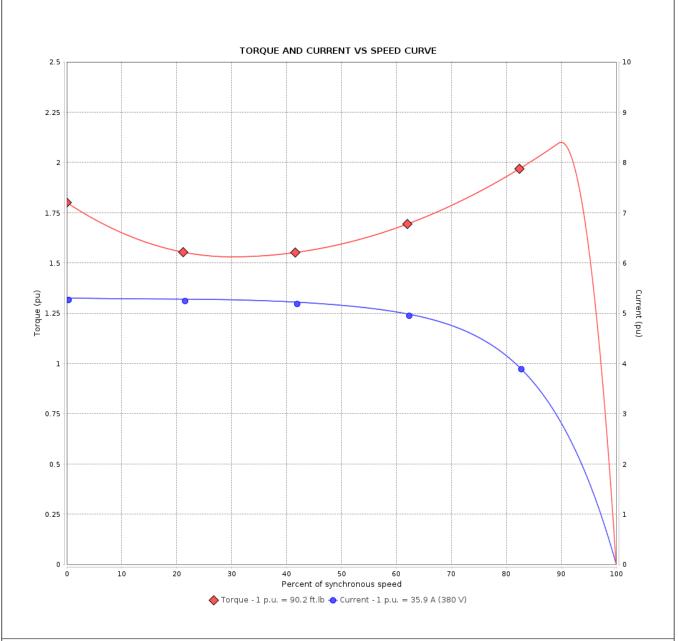
Customer :

Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328

Catalog #: 02518ET3ECT284T-W22



Performance : 380 V 50 Hz 4P IE1 Rated current : 35.9 A Moment of inertia (J) : 5.11 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 90.2 ft.lb : F Service factor Locked rotor torque : 180 % : 1.00 Breakdown torque : 210 % Temperature rise : 105 K Rated speed : 1455 rpm Design : B

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

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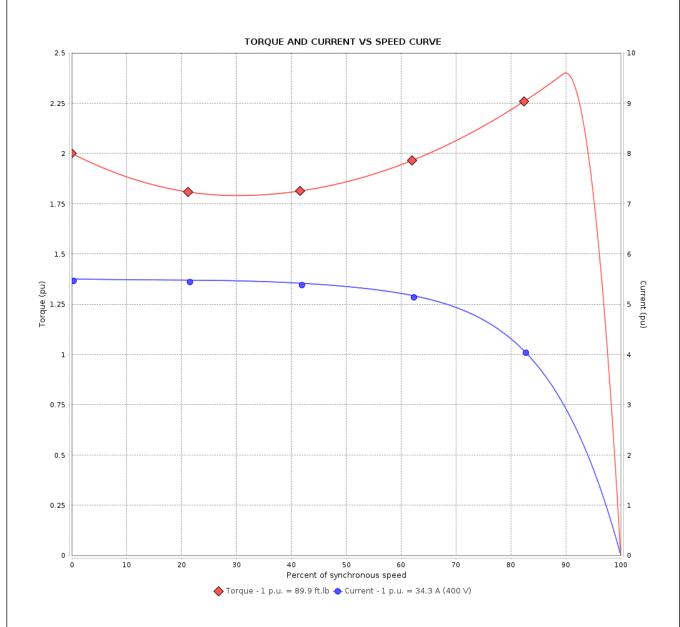
Customer :

Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328

Catalog #: 02518ET3ECT284T-W22



Performance	: 400 V 50 Hz 4P IE2			
Rated current	: 34.3 A	Moment of inertia (J)	: 5.11 sq.ft.lb	
LRC	: 5.5	Duty cycle	: Cont.(S1)	
Rated torque	: 89.9 ft.lb	Insulation class	:F	
Locked rotor torque	: 200 %	Service factor	: 1.00	
Breakdown torque	: 240 %	Temperature rise	: 105 K	
Rated speed	: 1460 rpm	Design	: B	
Locked rotor time	: 25s (cold) 14s (hot)			

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

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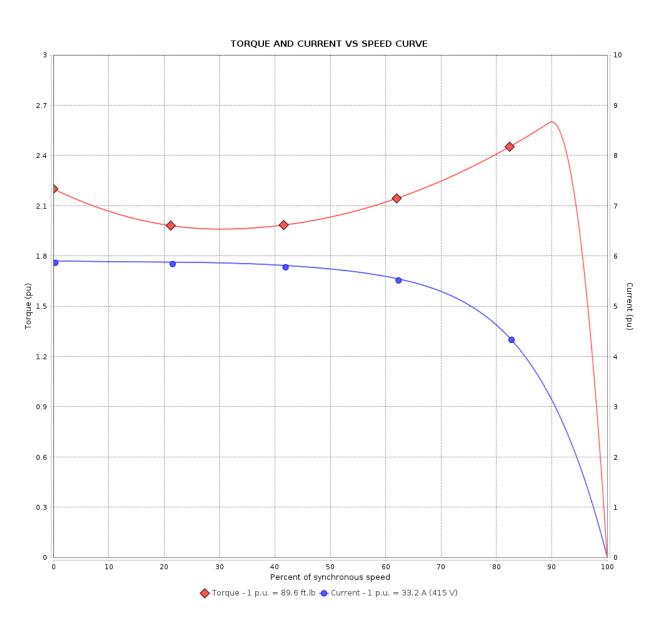


Customer :

Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328



Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.2 A : 5.9 : 89.6 ft.lb : 220 % : 260 % : 1465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 5.11 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Locked rotor time	: 25s (cold) 14s (hot)			

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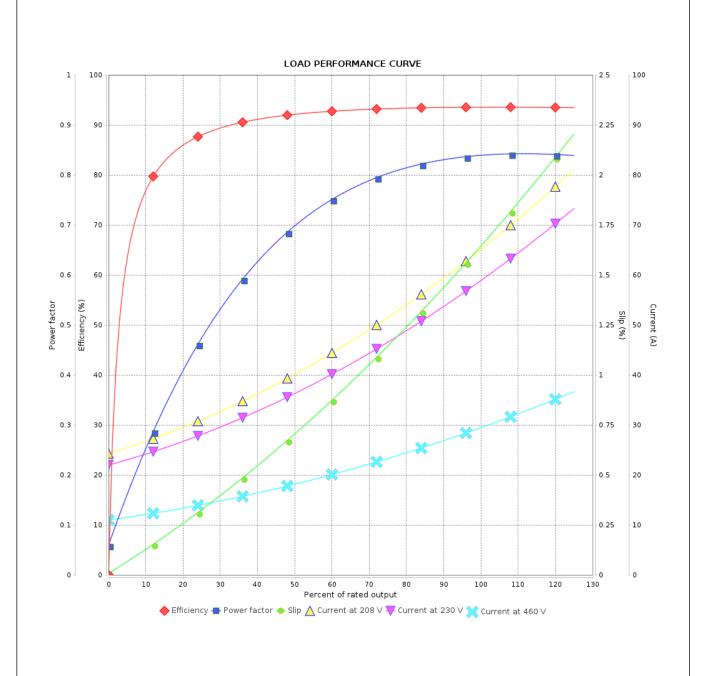


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Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	: 5	9.0/29.5 A	Momer	nt of inertia (J)	: 5.11 sq.ft.lb	
LRC	: 6	.2	Duty cy	/cle	: Cont.(S1)	
Rated torque	: 7	4.2 ft.lb	Insulati	on class	: F	
Locked rotor tord	que : 2	40 %	Service	e factor	: 1.25	
Breakdown torqu	Breakdown torque : 270 %		Tempe	Temperature rise		
Rated speed	: 1	770 rpm	Design		: B	
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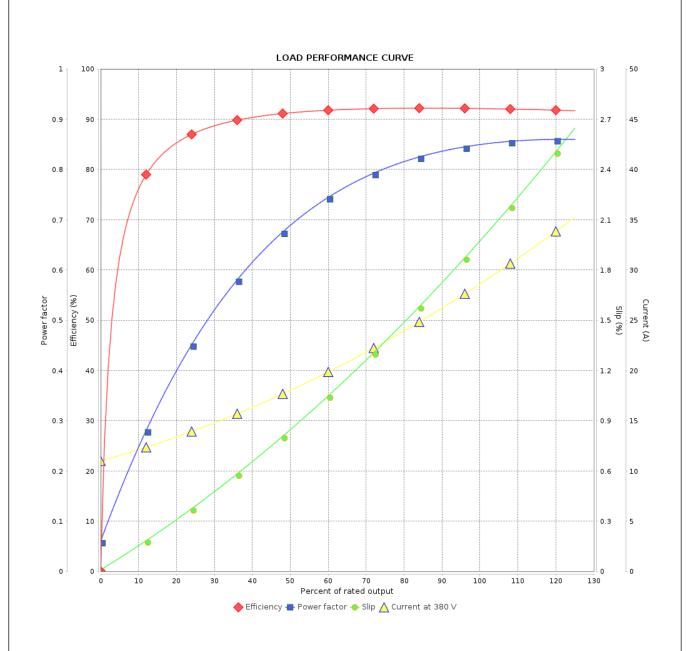


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Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328



Performance	: 3	80 V 50 Hz 4P IE3				
Rated current	: 2	9.1 A	Moment o	of inertia (J)	: 5.11 sq.ft.lb	
LRC	: 6	.0	Duty cycle	9	: Cont.(S1)	
Rated torque	: 7	1.4 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	29 %	Service fa	actor	: 1.00	
Breakdown torque :		60 %	Temperat	Temperature rise		
Rated speed	: 1	70 rpm Design		: B		
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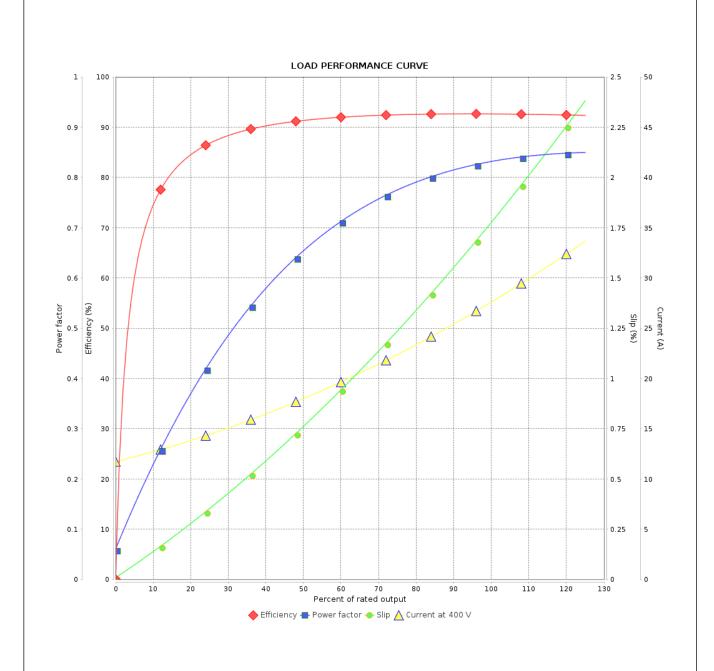


Customer :

Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current	: 2	8.2 A	Moment o	f inertia (J)	: 5.11 sq.ft.lb	
LRC	: 6	.7	Duty cycle	; · ·	: Cont.(S1)	
Rated torque	: 7	1.3 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torque		00 %	Temperate	ure rise	: 80 K	
Rated speed	: 1	473 rpm	Design		: B	
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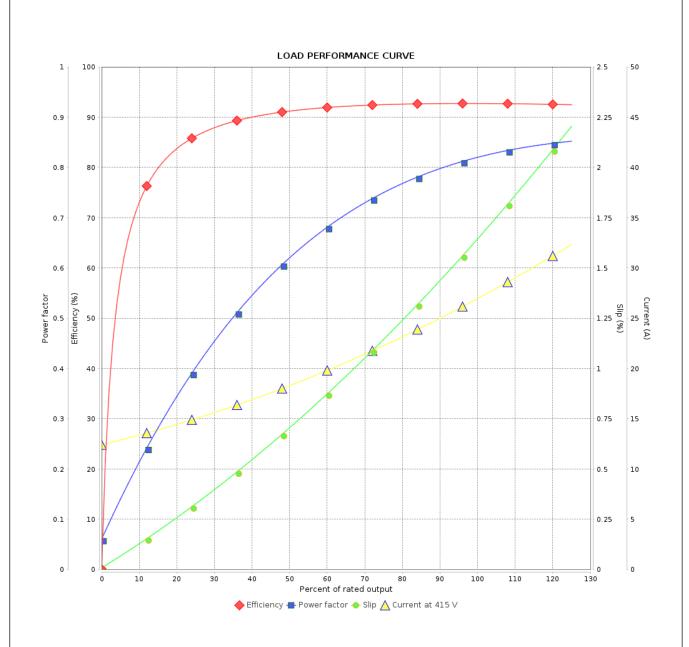
Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328

Catalog #: 02518ET3ECT284T-W22

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Performance : 415 V 50 Hz 4P IE3 Rated current : 27.5 A							
LRC : 7.2 Duty cycle : Cont.(\$1) Rated torque : 71.2 ft.lb Insulation class : F Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 330 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Changes Summary Performed Checked Date	Performance	:	415 V 50 Hz 4P IE	3			
Performed by	LRC Rated torque Locked rotor tord Breakdown torqu	: que : je :	7.2 71.2 ft.lb 270 % 330 %	Duty cycle Insulation Service fa Temperati	Duty cycle Insulation class Service factor Temperature rise		
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Three Phase Induction Motor - Squirrel Cage



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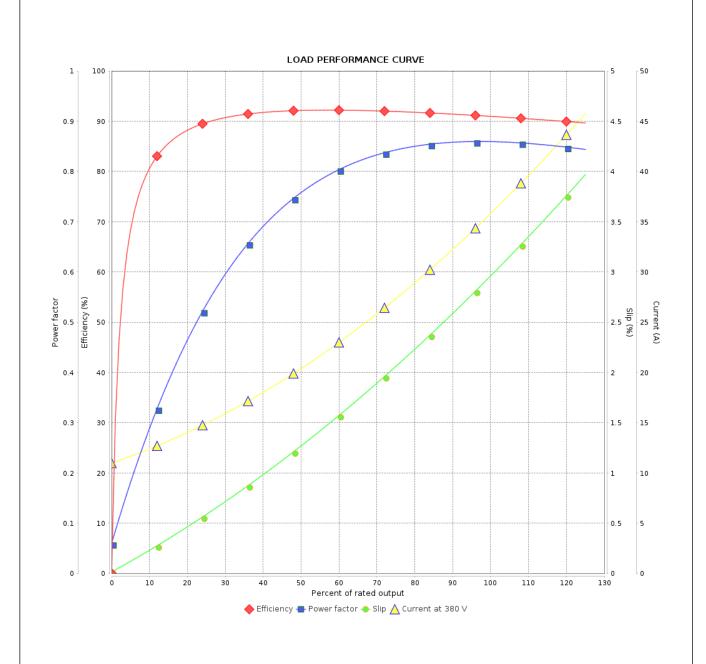
Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328

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Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.9 A : 5.3 : 90.2 ft.lb : 180 % : 210 % : 1455 rpm	Moment of i Duty cycle Insulation of Service fact Temperature Design	lass	: 5.11 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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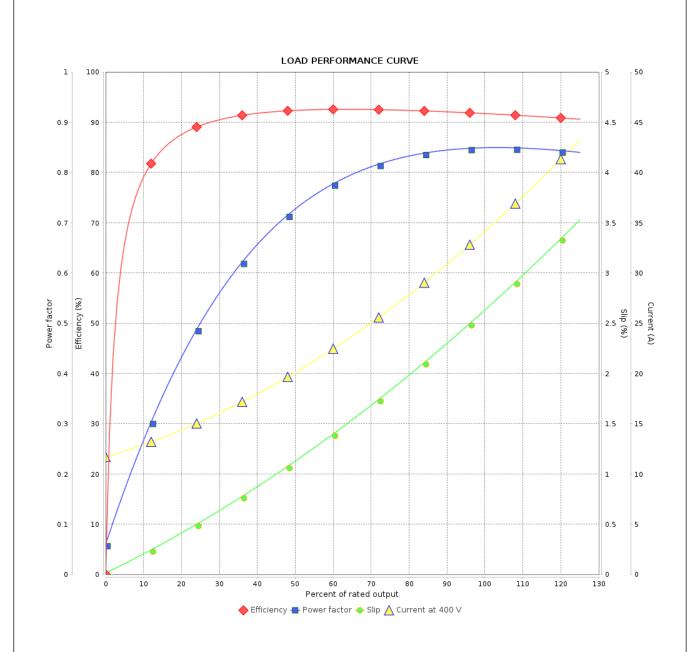


Customer :

Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328



Performance	: 4	00 V 50 Hz 4P IE2				
Rated current	: 3	4.3 A	Moment o	f inertia (J)	: 5.11 sq.ft.lb	
LRC	: 5	.5	Duty cycle	` '	: Cont.(S1)	
Rated torque	: 8	9.9 ft.lb	Insulation		: F ` ´	
Locked rotor torc	que : 2	00 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie : 2	40 %	Temperat	ure rise	: 105 K	
Rated speed	: 1	460 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage

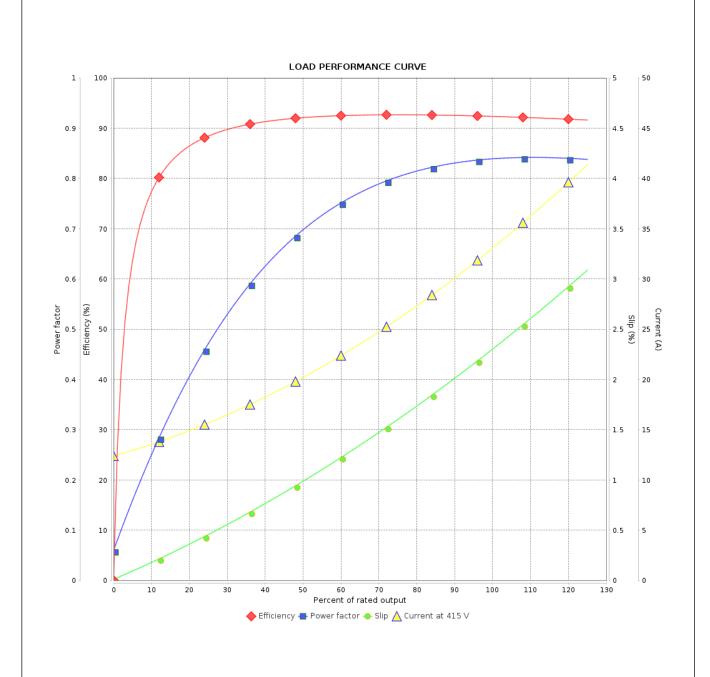


Customer :

Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328



Performance	: 4′	15 V 50 Hz 4P IE2				
Rated current	: 33	3.2 A	Moment o	f inertia (J)	: 5.11 sq.ft.lb	
LRC	: 5.	9	Duty cycle	•	: Cont.(S1)	
Rated torque	: 89	9.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 22	20 %	Service fa	ctor	: 1.00	
Breakdown torque			Temperati	ure rise	: 105 K	
Rated speed : 14		165 rpm	n Design		: B	
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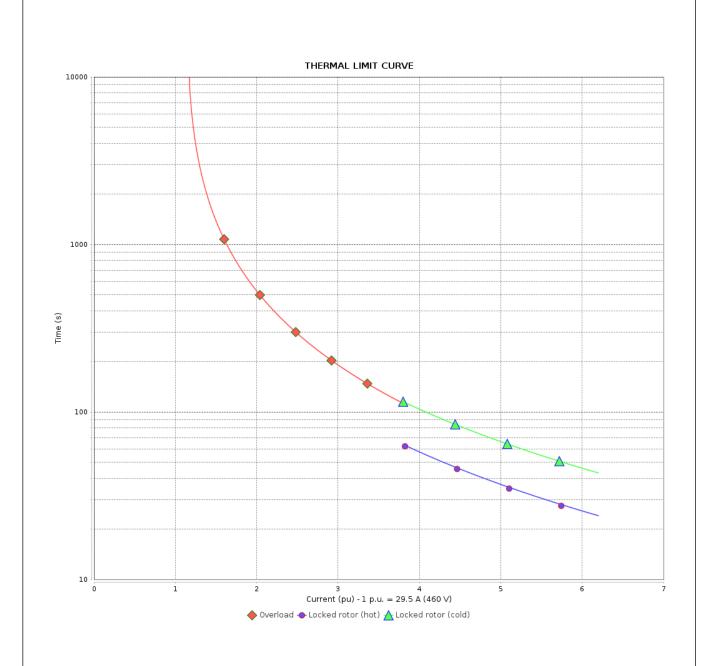


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Customer	:			
Product line	: W22 Cooling Tower NEMA Premiul Efficiency Three-Phase		uct code : 11972328	3 3ECT284T-W22
Performance	: 230/460 V 60 Hz 4P			
Rated current	: 59.0/29.5 A	Moment of iner		lb
LRC Rated torque	: 6.2 : 74.2 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor tord		Service factor	: 1.25	
Breakdown torqu	ue : 270 %	Temperature ris	se : 80 K	
Rated speed	: 1770 rpm	Design	: B	
Heating constan				
Cooling constan			orformed Charles	Dota
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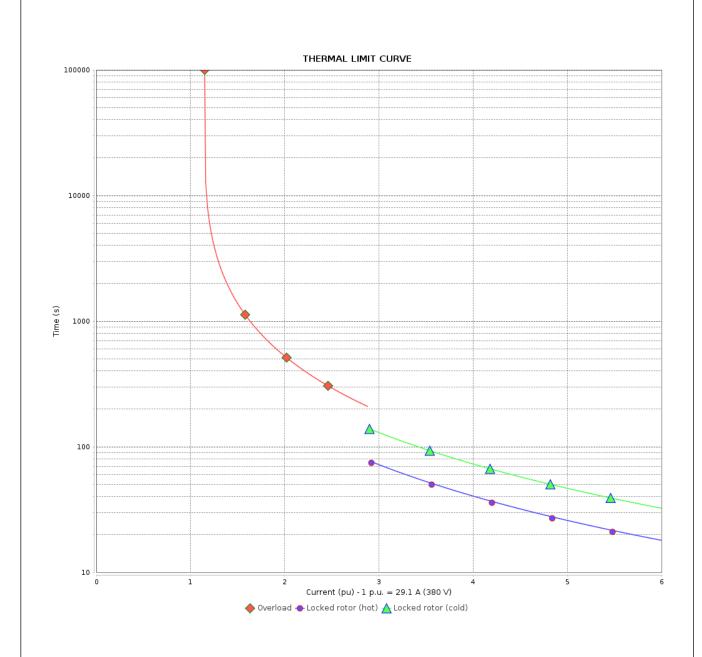


Customer	:			
Product line	: W22 Cooling Tower NEMA Premium Efficiency Three-Phase	Product code :	11972328	
	Lindianay Tinada Tinada	Catalog #:	02518ET3EC	T284T-W22
Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 29.1 A : 6.0 : 71.4 ft.lb : 229 % : 260 % : 1470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 5.11 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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Three Phase Induction Motor - Squirrel Cage

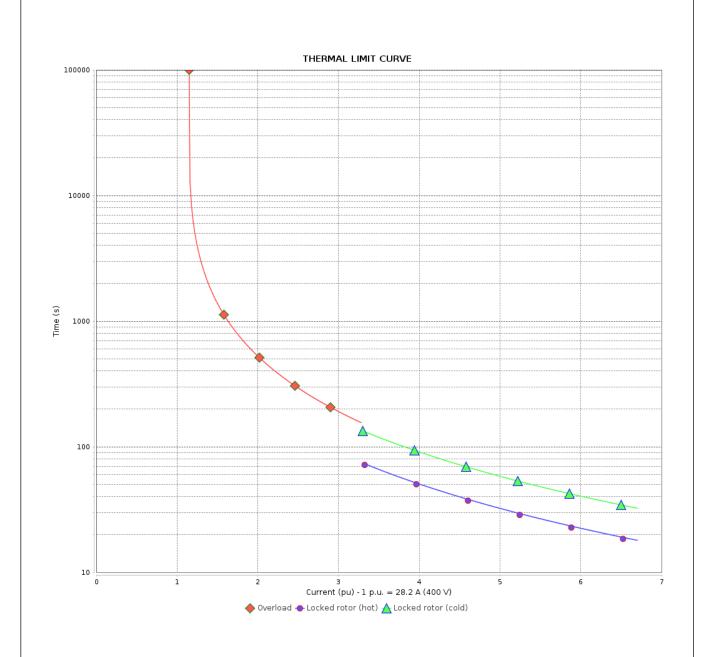


Customer	:		,	
Product line	: W22 Cooling Tower NEMA Premium Efficiency Three-Phase	Product code :	11972328	
	Elliciency Tillee-Fliase	Catalog # :	02518ET3E0	CT284T-W22
Performance	: 400 V 50 Hz 4P IE3		5.44 G.II	
Rated current LRC	: 28.2 A : 6.7	Moment of inertia (J) Duty cycle	: 5.11 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torque	: 71.3 ft.lb : 250 %	Insulation class Service factor	: F : 1.00	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 1473 rpm	Design	: B	
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Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

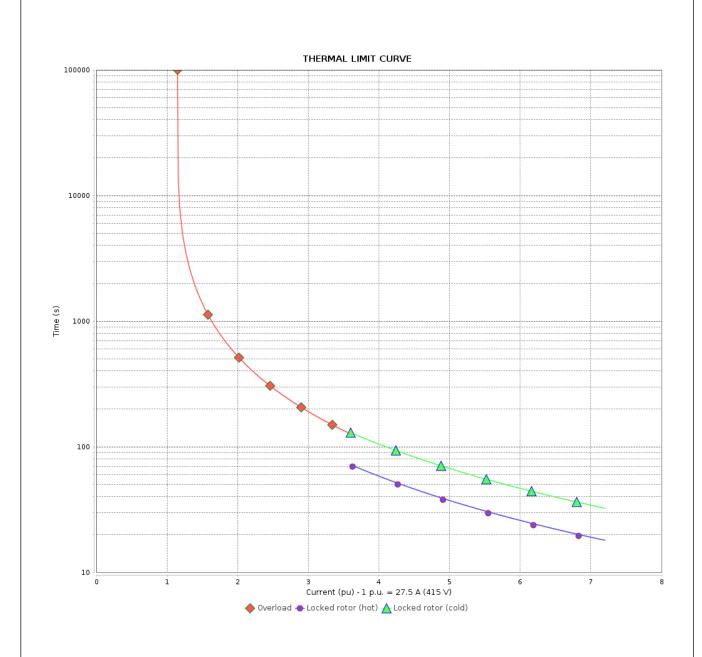


Customer	:			
Product line	: W22 Cooling Tower NEMA Premium	Product code :	11972328	
	Efficiency Three-Phase			
		Catalog # :	02518ET3E0	CT284T-W22
Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 27.5 A	Moment of inertia (J)	: 5.11 sq.ft.lb	
LRC	: 7.2	Duty cycle	: Cont.(S1)	
Rated torque	: 71.2 ft.lb : 270 %	Insulation class Service factor	: F : 1.00	
Locked rotor torque Breakdown torque	: 270 %	Temperature rise	: 1.00 : 80 K	
Rated speed	: 1475 rpm	Design	: B	
Heating constant				
Cooling constant				
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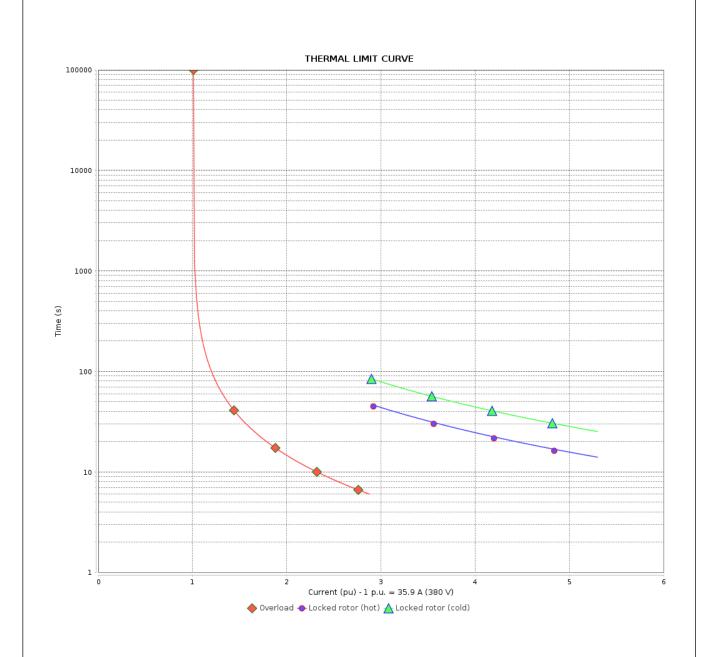


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Customer	:				
Product line	: W22 Cooling Tower NEMA Premium Efficiency Three-Phase		Product code : Catalog # :	11972328 02518ET3EC	:T284T-W22
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Performance	: 380 V 50 Hz 4P IE1	N4	f:t: / I)	. 5 44 4 11-	
Rated current LRC	: 35.9 A : 5.3	Duty cycle	f inertia (J)	: 5.11 sq.ft.lb : Cont.(S1)	
Rated torque	: 90.2 ft.lb	Insulation	class	: F	
Locked rotor torq		Service fa		: 1.00	
Breakdown torque Rated speed	ie : 210 % : 1455 rpm	Temperati Design	ire rise	: 105 K : B	
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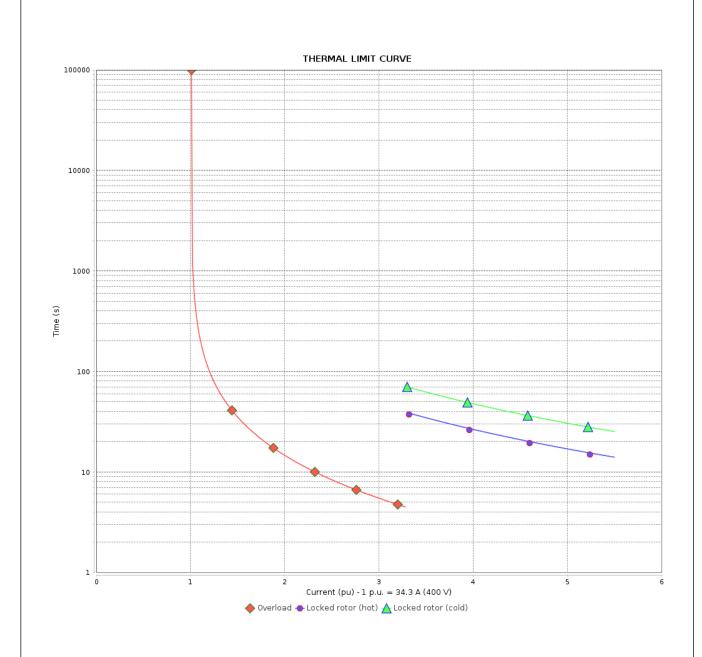


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Customer	:					
Product line	: W22 Coo	: W22 Cooling Tower NEMA Premium Efficiency Three-Phase		Product code :	11972328	
	Elliciency	Tillee-Filase		Catalog # :	02518ET3EC	T284T-W22
Dorforman		00 V 50 H= 4D IF 2				
Performance Rated current LRC		00 V 50 Hz 4P IE2 4.3 A		f inertia (J)	: 5.11 sq.ft.lb	
Rated torque	: 89	9.9 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		00 % 40 %	Service fa		: 1.00 : 105 K	
Breakdown torqu Rated speed		40 % 460 rpm	Temperatu Design	ire rise	: 105 K : B	
Heating constan						
Cooling constant	<u> </u>					
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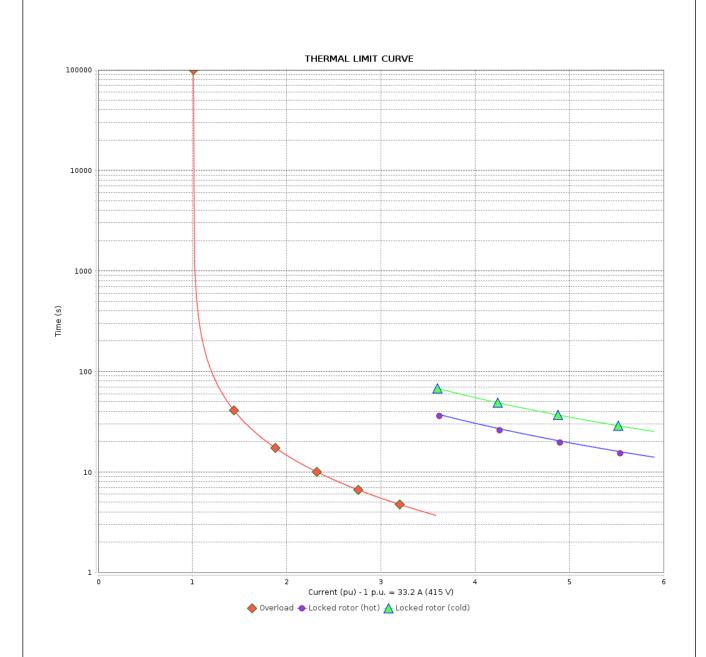


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Customer	:					
Product line	: W22 Coo	oling Tower NEMA Premium Three-Phase	า	Product code :	11972328	
	Lincichey	Tillice-i flase		Catalog # :	02518ET3EC	T284T-W22
Performance		15 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5. : 89 que : 20 ue : 20	3.2 A 9 9.6 ft.lb 20 % 60 % 465 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 5.11 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
		του τριτι	Design			
Heating constan						
Cooling constant	[Changes Summani		Dorformed	Chaakad	Doto
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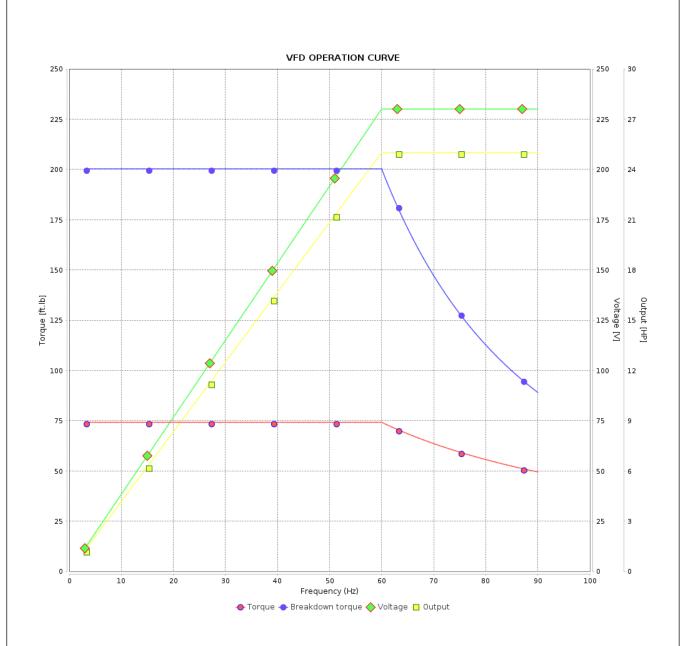
Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328

Catalog #: 02518ET3ECT284T-W22

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Performance : 230/460 V 60 Hz 4P Rated current : 59.0/29.5 A Moment of inertia (J) : 5.11 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 74.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage

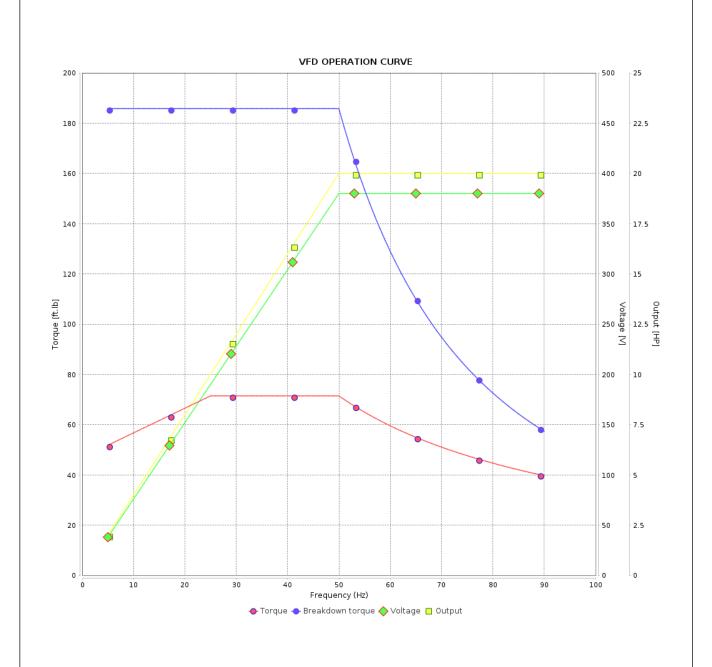


Customer :

Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328



Performance		: 380 V 50 Hz 4P IE3						
Rated current		9.1 A	Moment of inertia (J)		: 5.11 sq.ft.lb			
LRC : 6.		.0	Duty cycle	Duty cycle				
Rated torque : 7		1.4 ft.lb	Insulation class		:F			
Locked rotor torque : 2		29 %	Service fa	Service factor				
Breakdown torque		60 %	Temperature rise		: 80 K			
Rated speed		470 rpm Design		: B				
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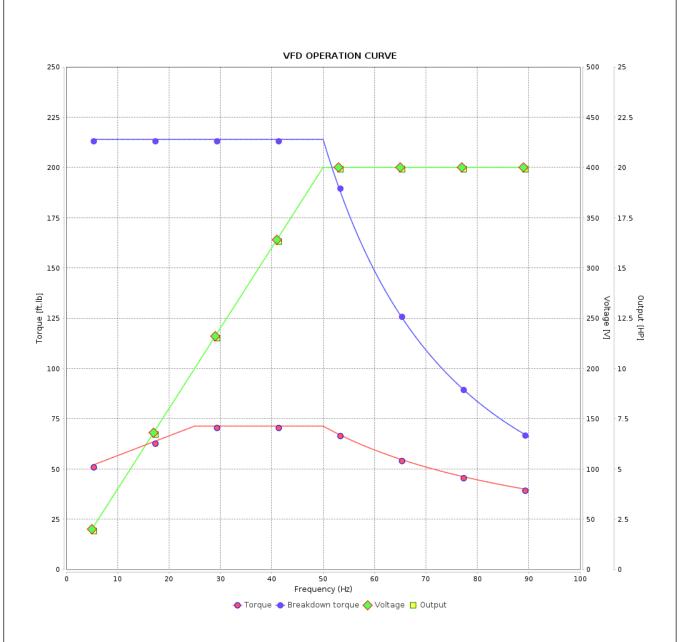
Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328

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Performance	: 400 V 50 Hz 4P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.2 A : 6.7 : 71.3 ft.lb : 250 % : 300 % : 1473 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.11 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
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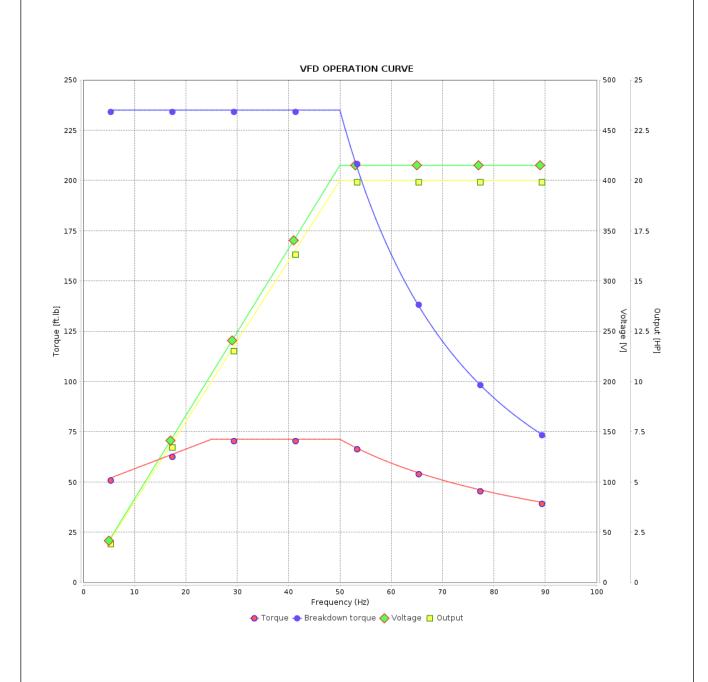


Customer :

Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328



Performance	:	415 V 50 Hz 4P IE3				
Rated current		27.5 A	Moment o	Moment of inertia (J)		
LRC		7.2	Duty cycle	Duty cycle		
Rated torque		71.2 ft.lb	Insulation	Insulation class		
		270 %	Service fa	Service factor		
Breakdown torque		330 %	Temperati	Temperature rise		
Rated speed		1475 rpm	75 rpm Design		: B	
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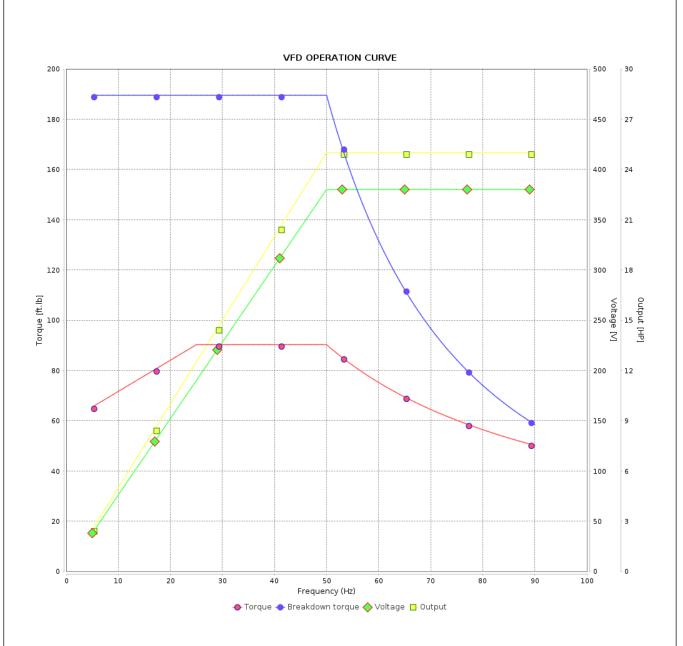
Product line : W22 Cooling Tower NEMA Premium

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Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.9 A : 5.3 : 90.2 ft.lb : 180 % : 210 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.11 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage

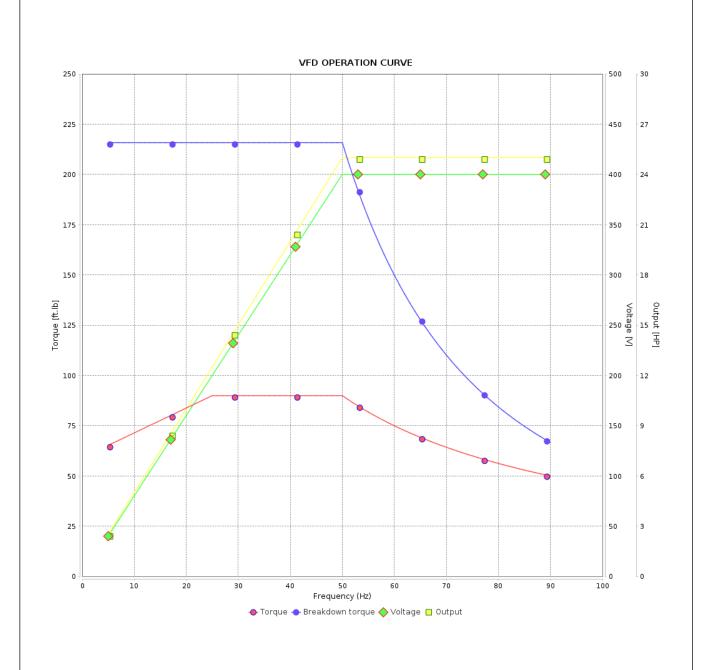


Customer :

Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

Product code: 11972328



Performance	: 4	100 V 50 Hz 4P IE2				
Rated current	: 3	4.3 A Moment of inertia (J)		f inertia (J)	: 5.11 sq.ft.lb	
LRC		5.5	Duty cycle		: Cont.(S1)	
Rated torque		39.9 ft.lb	Insulation class		: F	
Locked rotor torque		200 %	Service factor		: 1.00	
Breakdown torque	: 2	240 %	Temperature rise		: 105 K	
Rated speed	: ′	1460 rpm	Design		: B	
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Product line : W22 Cooling Tower NEMA Premium

Efficiency Three-Phase

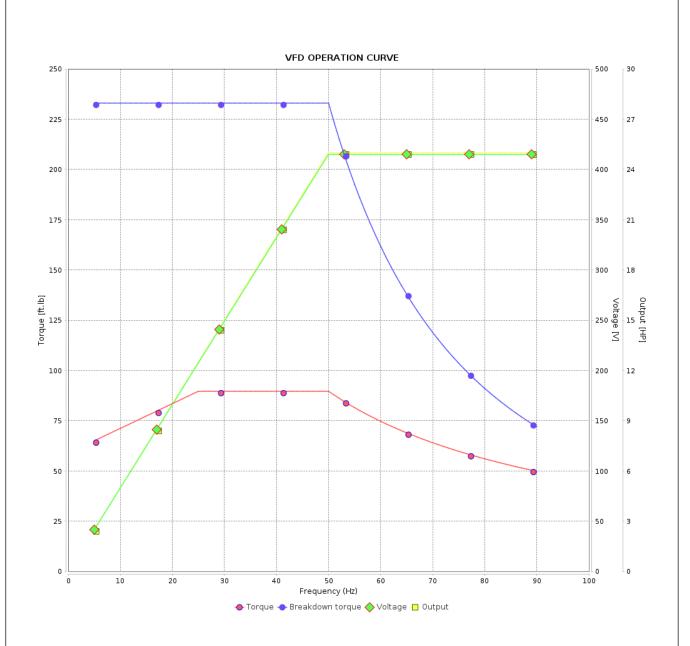
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Performance : 415 V 50 Hz 4P IE2 Rated current : 33.2 A Moment of inertia (J) : 5.11 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) : 89.6 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 105 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by