# DATA SHEET



Customer	:							
Product line			: W22 IEEE 841 NEMA Prem Efficiency Three-Phase			Product code :	12424291	
			ciency infee-	riiase		Catalog # :	01512ST30	QIE284TC-W22
Frame : 284/6TC			Locked	rotor time	: 36s (cold)	20s (hot)		
Output		: 15	HP (11 kW)		Temper	ature rise	: 80 K	` ,
Poles		: 6	,		Duty cy	cle	: Cont.(S1)	
Frequency		: 60	Hz			t temperature	: -20°C to +	40°C
Rated voltage : 460		0 V		Altitude		: 1000 m.a.	s.l.	
Rated current		: 17	.9 A		Protecti	on degree	: IP56	
L. R. Amperes : 115 A		5 A			method	: IC411 - TE	FC	
LRC '		: 6.4	4x(Code G)		Mountir		: F-1	
No load current			00 A		Rotation		: Both (CW	and CCW)
Rated speed			75 rpm		Noise le		: 59.0 dB(A	
Slip			08 %			method	: Direct On	
Rated torque			.0 ft.lb			. weight³	: 409 lb	0
Locked rotor tor	nue		9 %		, wprox.	Jigiit	. 100 10	
Breakdown torq			0 %					
Insulation class	40	: F	J 70					
Service factor		: 1.2	25					
Moment of inerti	a ( I)		35 sq.ft.lb					
Design	a (3)	. 7.0 : B	33 Sq.it.ib					
Output	25%	50%	75%	100%	4	ion loads	070 !!	
Efficiency (%) 90.8 91.0 91.7 91.7 Power Factor 0.44 0.69 0.80 0.84		91.7 0.84	Max. tra	ction mpression	: 676 lb : 1085 lb			
	<b></b>					•		
P1 (0,9;1,0)	P2 (0,5		s (speed;torqi P3 (0,25;1,0		),9;0,5)	ated output power P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,2
8.6	6.9		6.2		1.3	2.8	1.8	1.2
0.0	0.8	,			+.5	_		1.2
Di 4			<u>Drive</u>			Non drive end	<u>l</u>	
Bearing type		:		1 C3		6211 C3		
Sealing		:	•	o/Seal		Inpro/Seal		
Lubrication inter		:		000 h		20000 h		
Lubricant amou	nt	:	18	8 g	hil Dolyro	11 g		
Lubricant type		•		IVIC	bil Polyre	K EIVI		
Notes								
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.				are average values supply, subject to th				

(4) At 100 /0 01 It	ili loau.					
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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage

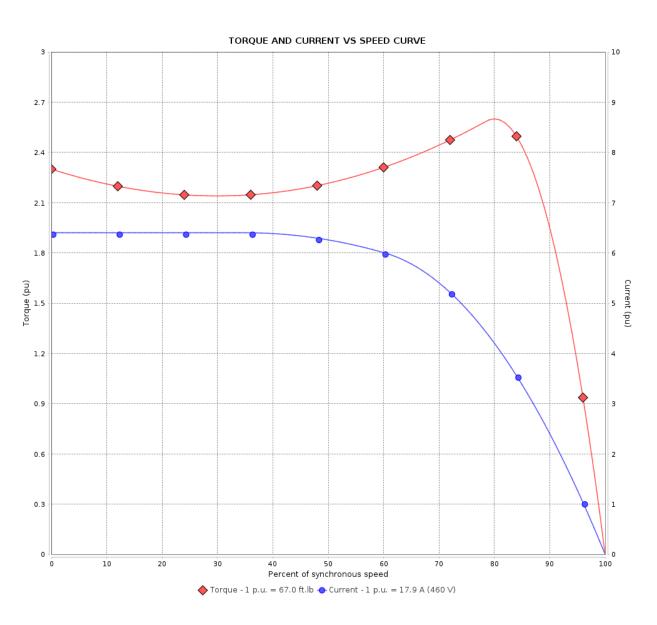


Customer

Product line : W22 IEEE 841 NEMA Premium Product code: 12424291

Efficiency Three-Phase

Catalog #: 01512ST3QIE284TC-W22



Performance	: 460 V 60 Hz 6P			
Rated current	: 17.9 A	Moment of inertia (J)	: 7.85 sq.ft.lb	
LRC	: 6.4	Duty cycle	: Cont.(S1)	
Rated torque	: 67.0 ft.lb	Insulation class	: F	
Locked rotor torque	: 229 %	Service factor	: 1.25	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 1175 rpm	Design	: B	
Locked rotor time	: 36s (cold) 20s (hot)			

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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



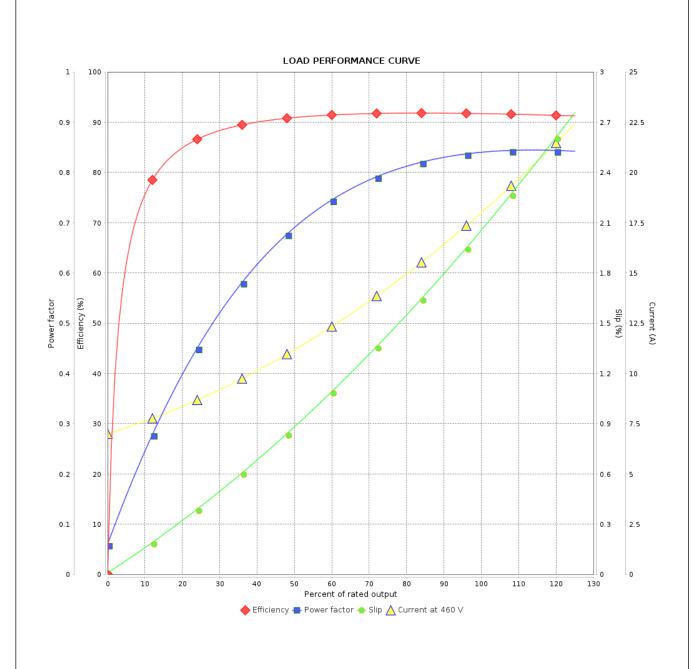
Customer

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12424291

Catalog #: 01512ST3QIE284TC-W22



Performance : 460 V 60 Hz 6P						
Rated current		17.9 A	.9 A Moment of inertia (J)		: 7.85 sq.ft.lb	
LRC : 6. Rated torque : 6		6.4	Duty cycle	)	: Cont.(S1)	
		7.0 ft.lb Insulation c		class	: F	
Locked rotor torque		229 %	Service fa	Service factor		
Breakdown torque	e ::	260 %	Temperati	Temperature rise Design		
Rated speed	:	1175 rpm	Design			
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## THERMAL LIMIT CURVE

#### Three Phase Induction Motor - Squirrel Cage



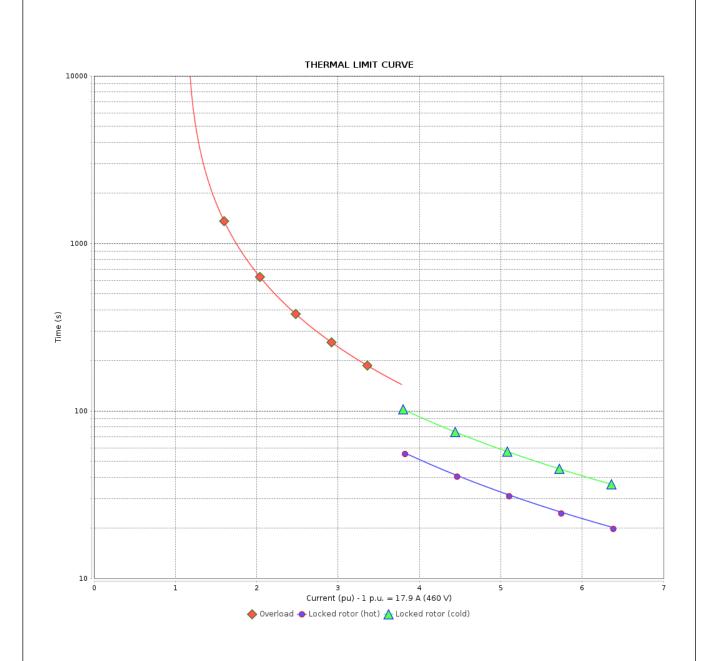
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Customer	:					
Product line		W22 IEEE 841 NEMA Pren fficiency Three-Phase	nium l	Product code :	12424291	
	_	molerity Times Triacs	(	Catalog # :	01512ST3QIE	284TC-W22
Performance	: 4	60 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 6 : 6 que : 2 ue : 2	7.0 ft.lb 29 % 60 %	Duty cycle Insulation Service fa Temperatu	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rated speed		175 rpm	Design		. D	
Heating constan						
Cooling constant	t 	Changes Comment		Dorformsl	Chaskad	Data
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer



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## VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

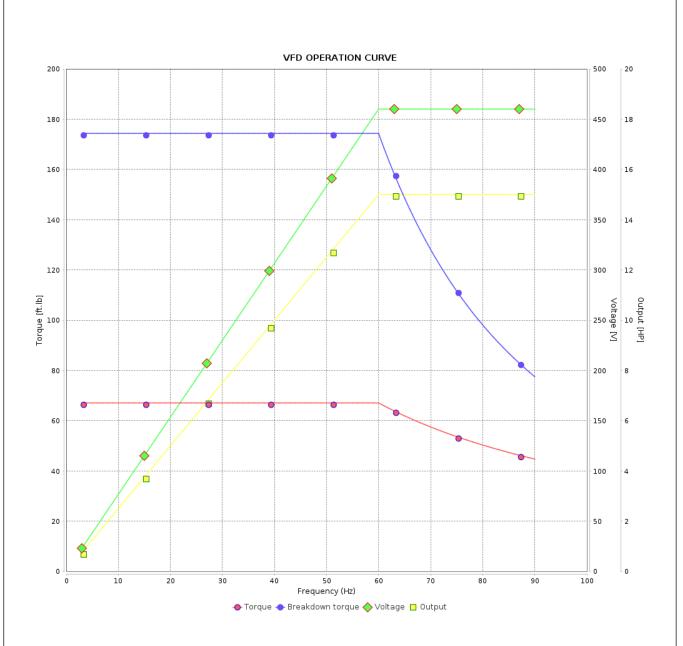
Product code: 12424291

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Revision



Performance		: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 17.9 A : 6.4 : 67.0 ft.lb : 229 % : 260 % : 1175 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 7.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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