DATA SHEET



Customer	:								
Product line			: W22 IEEE 841 NEMA Premium Product code :			11433397			
		Effi	ciency Three-F	Phase		Catalog # :	02012ST30	02012ST3QIE286TC-W22	
Frame		. 20	4/6TC		Lookod	rotor time			
Output : 20 HP (15 kW)					ature rise	: 28s (cold) 16s (hot) : 80 K			
Poles : 6				Duty cy		: Cont.(S1)			
Frequency : 60 Hz					t temperature		: -20°C to +40°C		
Rated voltage : 460 V		Altitude		: 1000 m.a.					
Rated current : 24.2 A			on degree	: IP56	3.1.				
L. R. Amperes		: 14				method	: IC411 - TE	FC	
LRC							: F-1	EFC	
No load current			9x(Code G) 30 A		Mountir Rotation			and CCM/	
		_					: Both (CW		
Rated speed			75 rpm		Noise le		: 59.0 dB(A		
Slip			08 %			method	: Direct On	Line	
Rated torque			0.4 ft.lb		Approx	. weight³	: 455 lb		
Locked rotor tor			0 %						
Breakdown torq	ue		0 %						
Insulation class		: F	-						
Service factor		: 1.2							
Moment of inert	ıa (J)		16 sq.ft.lb						
Design		: B							
Output	25%	50%	75%	100%	Foundat	ion loads			
Efficiency (%)	90.8	91.0	91.7	91.7	Max. tra	ction	: 853 lb		
Power Factor	0.46	0.70	0.80	0.85	Max. co	mpression	: 1308 lb		
Losses at norma	tive opera	ting point	s (speed;torqu	ıe), in perc	entage of r	ated output powe	r		
P1 (0,9;1,0)	P2 (0,5	5;1,0)	P3 (0,25;1,0) P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,2	
9.9	8.5		7.9		5.2	3.7	2.6	1.8	
			Drive	end		Non drive en	<u>ıd</u>		
Bearing type		:	631	1 C3		6211 C3			
Sealing		:	Inpro	/Seal		Inpro/Sea	I		
Lubrication inte	val	:		00 h		20000 h			
Lubricant amou		:	18		11 g				
Lubricant type		:			Mobil Polyrex EM				
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.						s based on tests withe tolerances stip			

(4) At 100% Of it	ili loau.				
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	19/09/2024			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

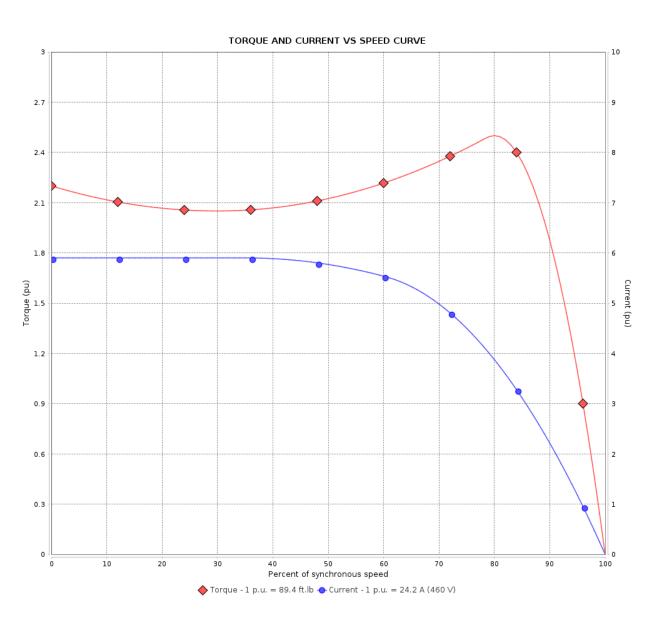


Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 11433397

Efficiency Three-Phase

Catalog #: 02012ST3QIE286TC-W22



Performance : 460 V 60 Hz 6P Rated current : 24.2 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) : 89.4 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	19/09/2024			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

19/09/2024

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

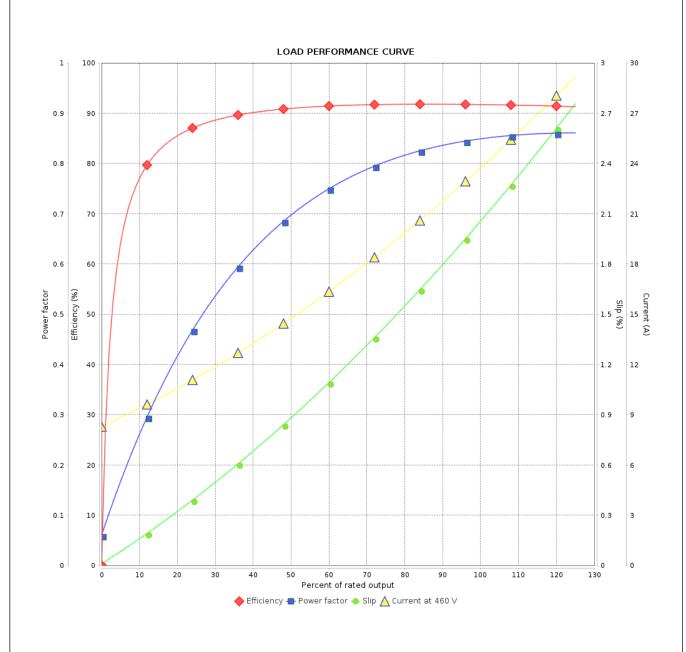
Product code: 11433397

Catalog #: 02012ST3QIE286TC-W22

Page

3/6

Revision



Performance		: 460 V 60 Hz 6P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque		: 24.2 A : 5.9 : 89.4 ft.lb : 220 % : 250 %	Duty cycl Insulation Service f	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K		
Rated speed : 1		: 1175 rpm	Design	Design				
Rev.		Changes Sumr	mary	Performed	Checked	Date		
Performed by								

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



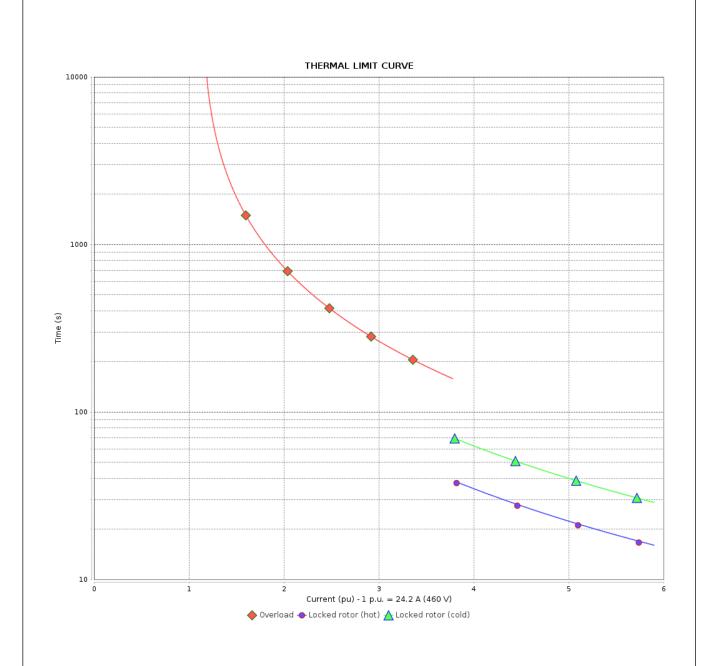
		<u> </u>					
Customer	:						
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code :	11433397		
		Lindicately Trace Trace		Catalog # :	02012ST3Q	E286TC-W22	
Performance		460 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	que	24.2 A 5.9 89.4 ft.lb 220 % 250 %	Duty cycle Insulation Service fa Temperate	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K		
Rated speed		1175 rpm	Design		: B 		
Heating constan							
Cooling constan	t	Change Comm		Dorf	Ohl !	D-4-	
Rev.		Changes Summary		Performed	Checked	Date	
Davida III							
Performed by					D	Davideti	
Checked by	40/00/225:				Page	Revision	
Date	19/09/2024				4/6		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	19/09/2024			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

19/09/2024

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

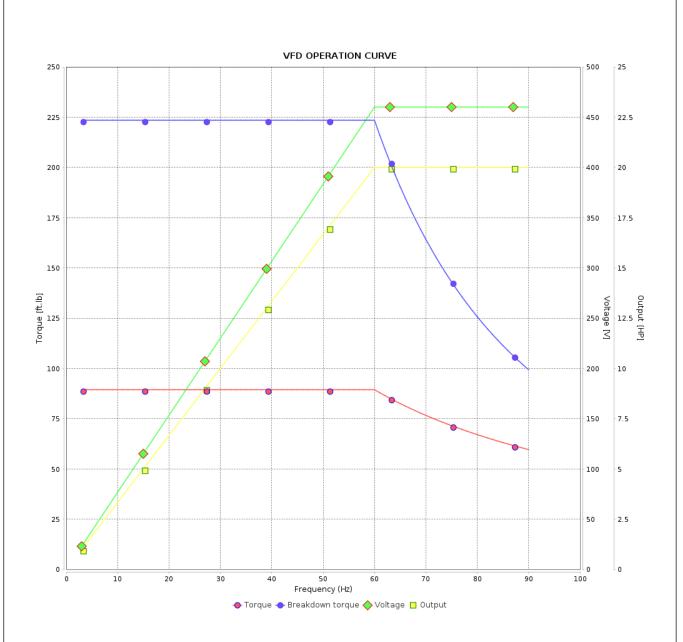
Product code: 11433397

Catalog #: 02012ST3QIE286TC-W22

Page

6/6

Revision



Performance		: 460 V 60 Hz 6P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque		: 24.2 A : 5.9 : 89.4 ft.lb : 220 % : 250 % : 1175 rpm	Duty Insul Serv	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K		
Rated speed		. 1175 Ipili	Desi	gn		: B		
Rev.	Rev. Changes Summary		nmary		Performed	Checked	Date	
Performed by								

