### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 13273263 Catalog #: 02012ET3H286T-W22G Frame : 284/6T Locked rotor time : 28s (cold) 16s (hot) Output : 20 HP (15 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V : 1000 m.a.s.l. Altitude : 19.4 A Rated current Protection degree : IP55 L. R. Amperes : 120 A Cooling method : IC411 - TEFC : 6.2x(Code G) LRC Mounting : F-1 No load current : 7.60 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1175 rpm Noise level<sup>2</sup> : 59.0 dB(A) Starting method Slip : 2.08 % : Direct On Line Rated torque : 89.4 ft.lb Approx. weight<sup>3</sup> : 426 lb Locked rotor torque : 229 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 9.16 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 90.8 91.7 : 800 lb Efficiency (%) 91.0 91.7 Max. traction Power Factor 0.44 0.80 0.85 : 1226 lb 0.70 Max. compression Non drive end Drive end Bearing type 6311 C3 6211 C3 V'Ring Sealing V'Ring Lubrication interval 20000 h 20000 h Lubricant amount 18 g 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.
- (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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			1/6	

### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage

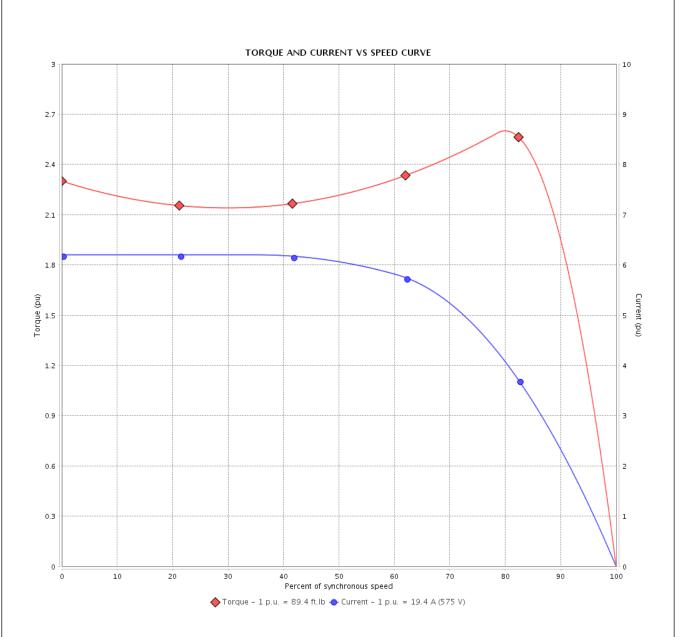


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13273263

Phase

Catalog #: 02012ET3H286T-W22G



Performance : 575 V 60 Hz 6P Rated current : 19.4 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 89.4 ft.lb : 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 : 28s (cold) 16s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2/6	

# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

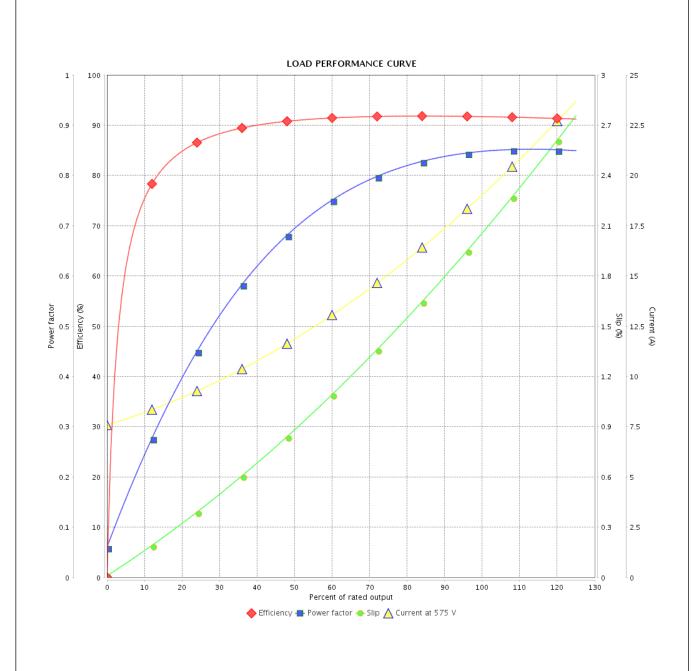


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 02012ET3H286T-W22G

13273263



Performance	: 5	575 V 60 Hz 6P				
Rated current	: 1	: 6.2 Duty cy   : 89.4 ft.lb Insulation   : 229 % Service		f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 6			<b>;</b>	: Cont.(S1)	
Rated torque	: 8			class	: F	
Locked rotor torqu	ie : 2			ctor	: 1.25	
Breakdown torque	: : 2			Temperature rise		
Rated speed	: 1	1175 rpm	5 rpm Design		: B	
Rev.		Changes Summar	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				3/6	

## THERMAL LIMIT CURVE

#### Three Phase Induction Motor - Squirrel Cage



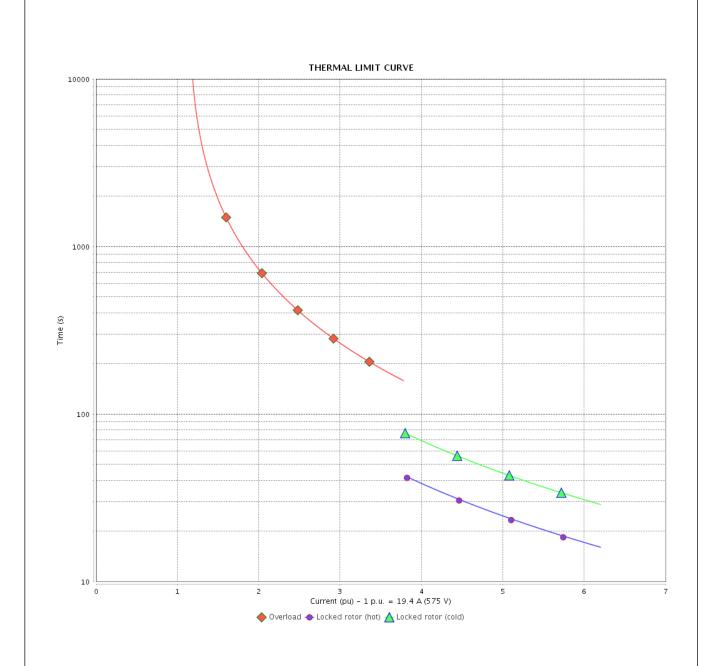
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Customer	:					
Product line	<u>:</u>	NEMA Premium Efficiency	Three-	Product code :	13273263	
	ŀ	Phase		Catalog # :	02012ET3H2	286T-W22G
Performance	: 5	575 V 60 Hz 6P				
Rated current		19.4 A	Moment o	of inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque		6.2 39.4 ft.lb	Duty cycle Insulation	<del>:</del> class	: Cont.(S1) : F	
Locked rotor tord	que : 2	229 %	Service fa	ictor	: 1.25	
Breakdown torque Rated speed		260 % 1175 rpm	Temperati Design	ure rise	: 80 K : B	
		· r				
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
		<u> </u>			-	
Performed by				1		
Checked by					Page	Revision
Date	14/04/2022	7			4/6	

# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					1
Checked by				Page	Revision
Date	14/04/2022			5/6	

## VFD OPERATION CURVE

### Three Phase Induction Motor - Squirrel Cage

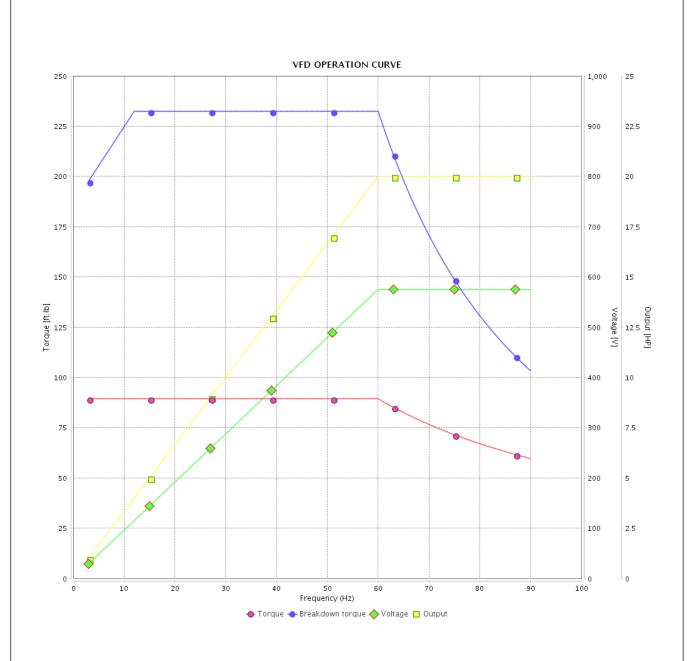


Customer

Product line : NEMA Premium Efficiency Three-Product code:

Catalog #: 02012ET3H286T-W22G

13273263



Performance	: 5	75 V 60 Hz 6P				
Rated current	: 19	9.4 A Moment of inertia (J)		: 9.16 sq.ft.lb		
LRC	: 6.	2	Duty cycle		: Cont.(S1)	
Rated torque	: 89	9.4 ft.lb	Insulation class		:F	
Locked rotor tord	que : 2:	29 %	Service factor		: 1.25	
Breakdown torque		60 %	Temperature rise		: 80 K	
Rated speed	: 1175 rpm		Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	14/04/2022	1			6/6	

