DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14409582 Catalog #: 02012XT3H286T Frame : 286T Locked rotor time : 39s (cold) 22s (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 : 139 A Cooling method : IC411 - TEFC LRC : 7.2x(Code H) Mounting : F-1 No load current : 7.20 A Rotation¹ : Both (CW and CCW) Rated speed : 1175 rpm Noise level² : 59.0 dB(A) Starting method Slip : 2.08 % : Direct On Line Rated torque : 89.4 ft.lb Approx. weight³ : 494 lb Locked rotor torque : 250 % Breakdown torque : 260 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 8.02 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 91.7 : 766 lb Efficiency (%) 91.5 91.7 91.7 Max. traction Power Factor 0.80 0.85 : 1261 lb 0.45 0.70 Max. compression Non drive end Drive end Bearing type 6311 C3 6211 C3 Oil Seal Sealing Lip Seal 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			1/7	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	
Customer	

Thermal protection

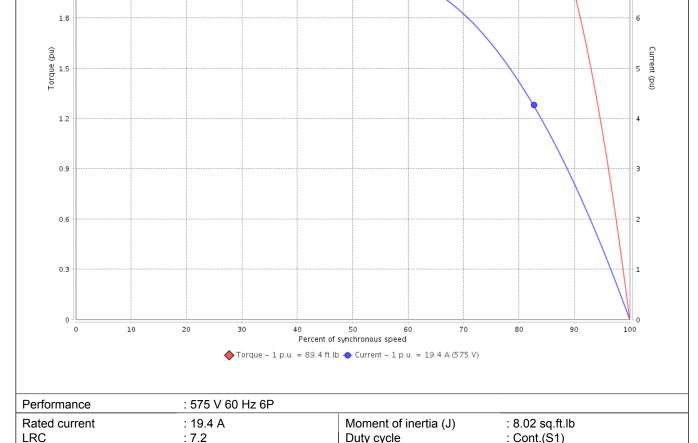
		•		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			2/7	

TORQUE AND CURRENT VS SPEED CURVE



Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14409582 Catalog #: 02012XT3H286T TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1



Rated torque

Locked rotor torque

: 89.4 ft.lb

: 250 %

Insulation class

Service factor

: F

: 1.15

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

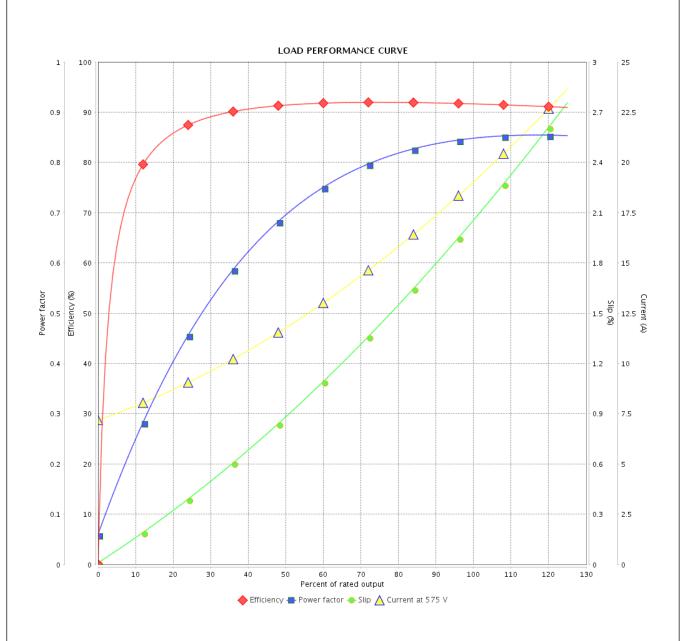
14/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14409582

Catalog #: 02012XT3H286T



Performance : 575 V 60 Hz 6P : 19.4 A Rated current Moment of inertia (J) : 8.02 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) : 89.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 250 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision

Page 4/7

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



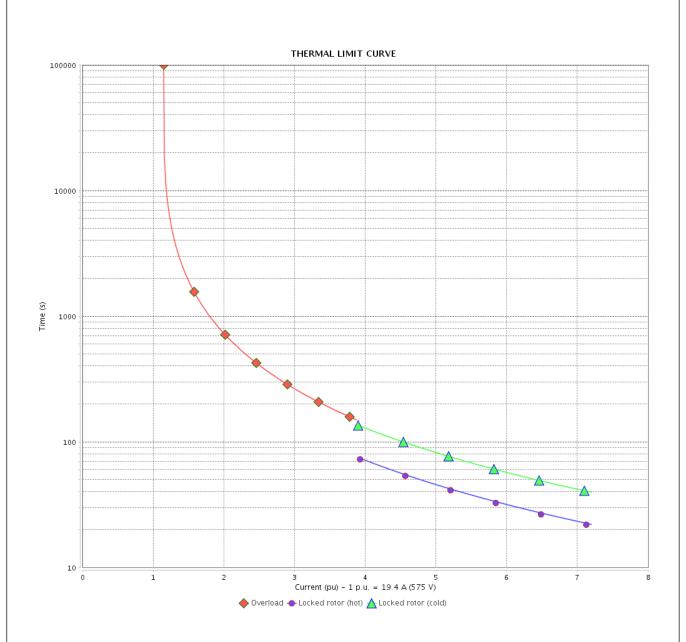
Product line : NEMA Premium Efficience Phase	cy Three- Product coo		
	Catalog # :	02012XT3	9H286T
erformance : 575 V 60 Hz 6P ated current : 19.4 A RC : 7.2	Moment of inertia (J)		lb
RC : 7.2	Duty cycle Insulation class Service factor Temperature rise	: Cont.(S1) : F : 1.15 : 80 K : B	
ocked rotor torque : 250 % reakdown torque : 260 %	Design		
ocked rotor torque : 250 % reakdown torque : 260 % ated speed : 1175 rpm eating constant	Design		
ocked rotor torque : 250 % reakdown torque : 260 %	Design	ned Checked	Date
cocked rotor torque : 250 % reakdown torque : 260 % ated speed : 1175 rpm eating constant cooling constant		ned Checked	Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/04/2022			6/7	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



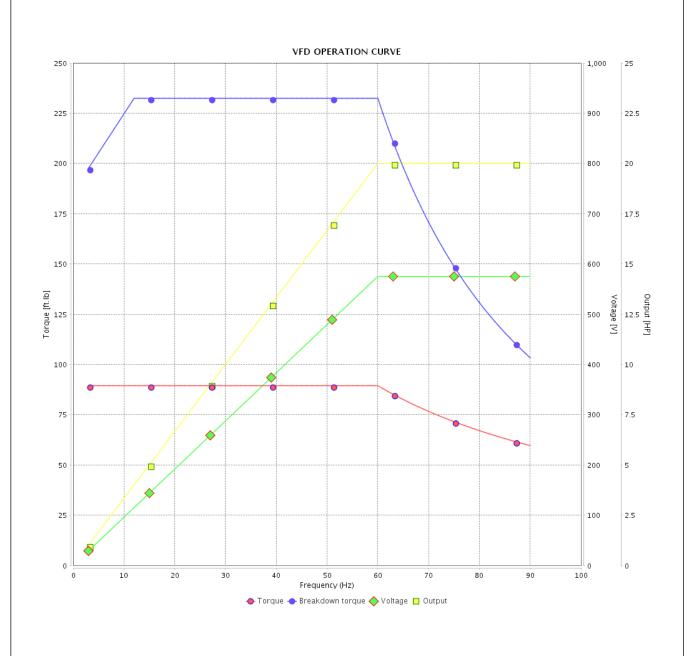
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02012XT3H286T

14409582



Performance : 5		: 575 V 60 Hz 6P					
Rated current		9.4 A Moment of inertia (J)		: 8.02 sq.ft.lb			
LRC : 7.2		7.2	Duty cycle		: Cont.(S1)		
Rated torque : 89		9.4 ft.lb	Insulation class		: F		
Locked rotor torque : 2		250 %	Service factor		: 1.15		
Breakdown torque		260 %	Temperati	Temperature rise			
Rated speed	: 1	1175 rpm Design			: B		
Rev.		Changes Summa	ry	Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	14/04/2022				7 / 7		

