DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12321439 Catalog #: 03018ET3H286JP-W22 Frame : 284/6JP Locked rotor time : 36s (cold) 20s (hot) Output : 30 HP (22 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 Rated current : 28.1 A Protection degree : IP55 : 171 A L. R. Amperes Cooling method : IC411 - TEFC LRC : 6.1x(Code G) Mounting : F-1 No load current : 10.4 A Rotation¹ : Both (CW and CCW) Rated speed : 1765 rpm Noise level² : 63.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 89.3 ft.lb Approx. weight³ : 478 lb Locked rotor torque : 240 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 5.85 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 93.6 : 695 lb Efficiency (%) 92.3 93.0 93.0 Max. traction Power Factor 0.80 0.84 0.46 0.70 Max. compression : 1173 lb 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

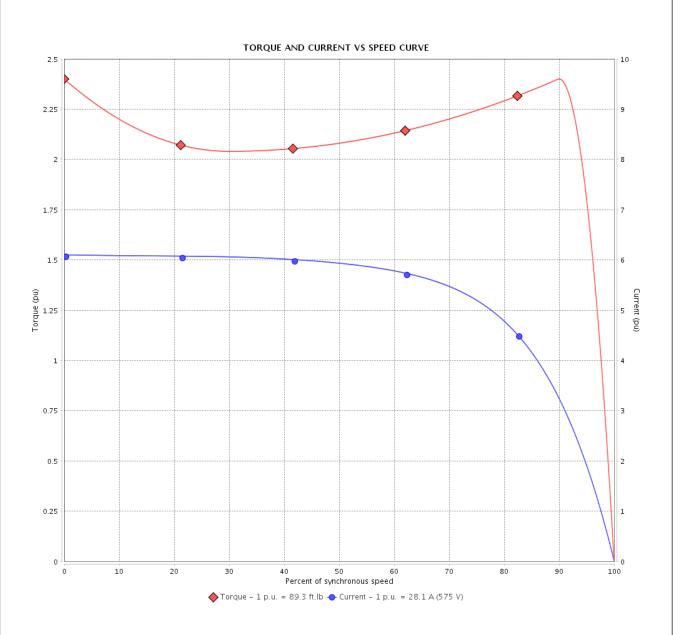


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12321439

Phase

Catalog #: 03018ET3H286JP-W22



Performance	: 575 V 60 Hz 4P			
Rated current	: 28.1 A	Moment of inertia (J)	: 5.85 sq.ft.lb	
LRC	: 6.1	Duty cycle	: Cont.(S1)	
Rated torque	: 89.3 ft.lb	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.25	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1765 rpm	Design	: B	
Locked rotor time	: 36s (cold) 20s (bot)			

Locked rotor time : 36s (cold) 20s (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



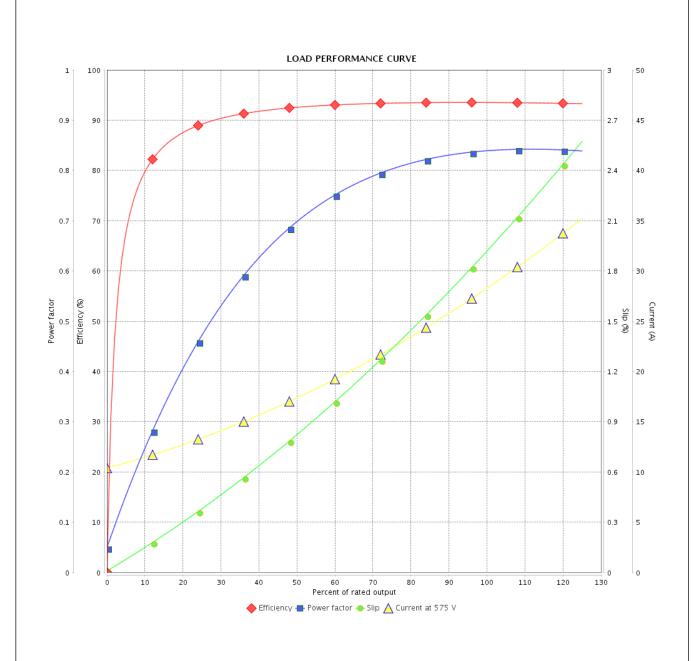
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12321439

Phase

Catalog #: 03018ET3H286JP-W22

3/6



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 28.1 A : 6.1 : 89.3 ft.lb : 240 % : 240 % : 1765 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 5.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary	'	Performed	Checked	Date
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14/04/2022

Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



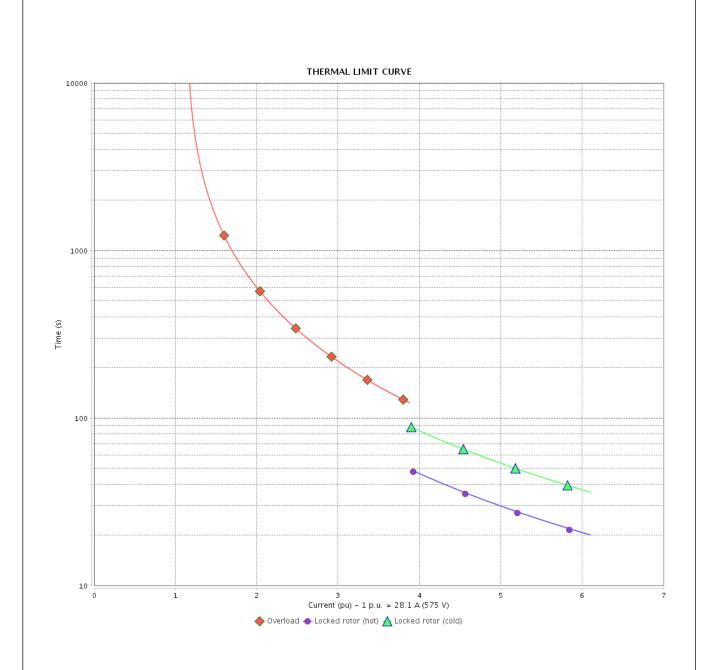
Customer	:			
Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	12321439 03018ET3H2	86JP-W22
Performance	: 575 V 60 Hz 4P			
Rated current	: 28.1 A	Moment of inertia (J)	: 5.85 sq.ft.lb	
LRC Rated torque	: 6.1 : 89.3 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
Locked rotor torque	: 240 %	Service factor	: 1.25	
Breakdown torque Rated speed	: 240 % : 1765 rpm	Temperature rise Design	: 80 K : B	
Heating constant				
Cooling constant				
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Data 14/04/3	2022		1/6	

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			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

Page 6 / 6

Customer :

Checked by

Date

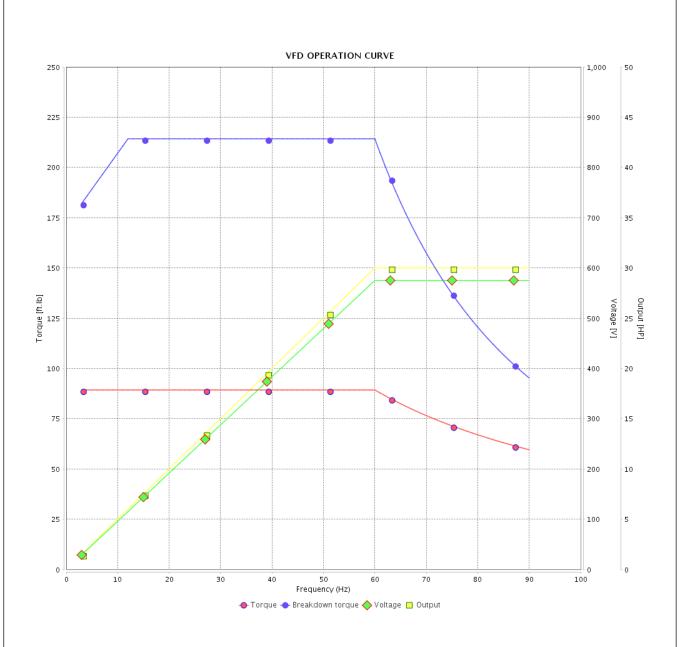
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12321439

Catalog #: 03018ET3H286JP-W22



Performance : 575 V 60 Hz 4P : 28.1 A Rated current Moment of inertia (J) : 5.85 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.1 : 89.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

