## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer		:				
Product line		: NEN Phas		m Efficiency	Three- Product code :  Catalog # :	12712156 03036ET3H286JM-W22
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design		: 30 F : 2 : 60 F : 575 : 27.4 : 172 : 6.3x : 8.00 : 354 : 1.67 : 44.6 : 200 : 250 : F	5 V 4 A 2 A x(Code G) 0 A 0 rpm 7 % 6 ft.lb 1 %		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 27s (cold) 15s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 72.0 dB(A) : Direct On Line : 421 lb
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	91.6	91.7	91.7	91.7	Max. traction	: 275 lb
Power Factor	0.55	0.80	0.86	0.88	Max. compression	: 695 lb
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		Drive end : 6311 C3 : V'Ring : 14000 h : 18 g : Mo		11 C3 'Ring 000 h 18 g	Non drive end 6211 C3 V'Ring 17000 h 11 g obil Polyrex EM	<u>d</u>
Notes						

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.

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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



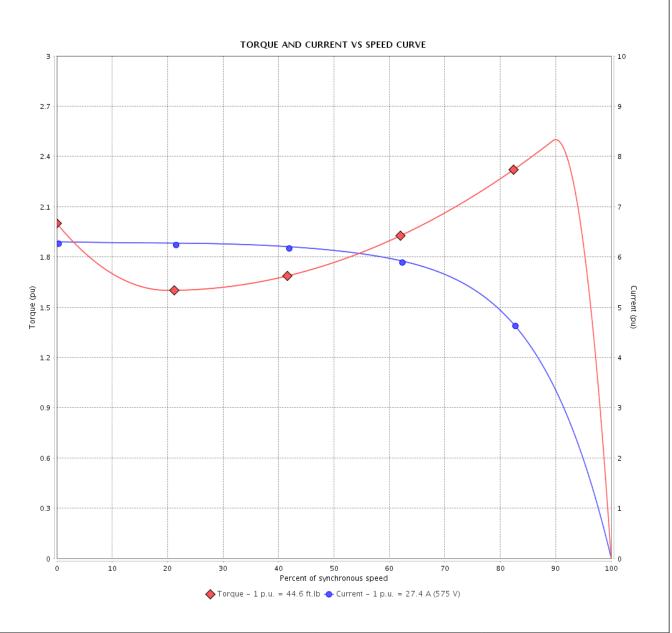
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12712156

Catalog #: 03036ET3H286JM-W22



Performance : 575 V 60 Hz 2P Rated current : 27.4 A Moment of inertia (J) : 3.37 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 44.6 ft.lb : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 3540 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12712156

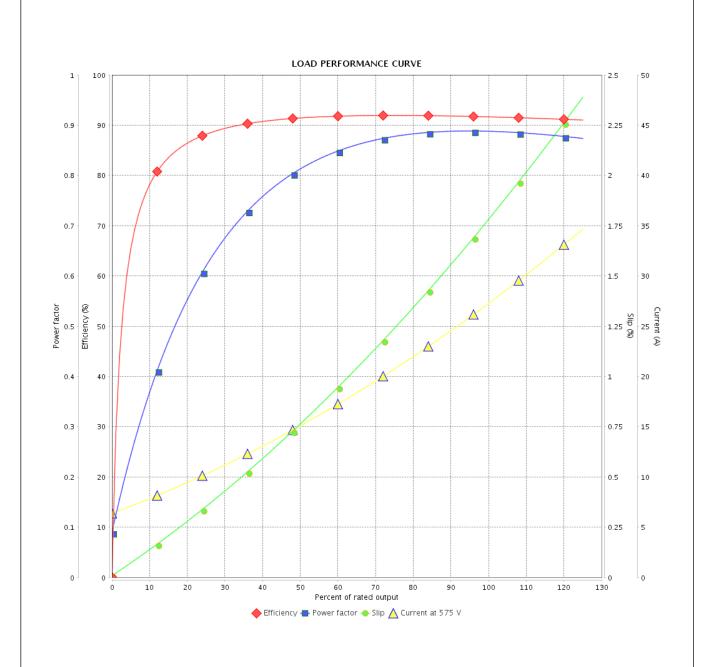
Phase

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Revision



Performance	: 575 V 60 Hz 2P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.4 A : 6.3 : 44.6 ft.lb : 200 % : 250 % : 3540 rpm	: 6.3 Duty cycle : 44.6 ft.lb Insulation class : 200 % Service factor : 250 % Temperature rise		: 3.37 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		
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## THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



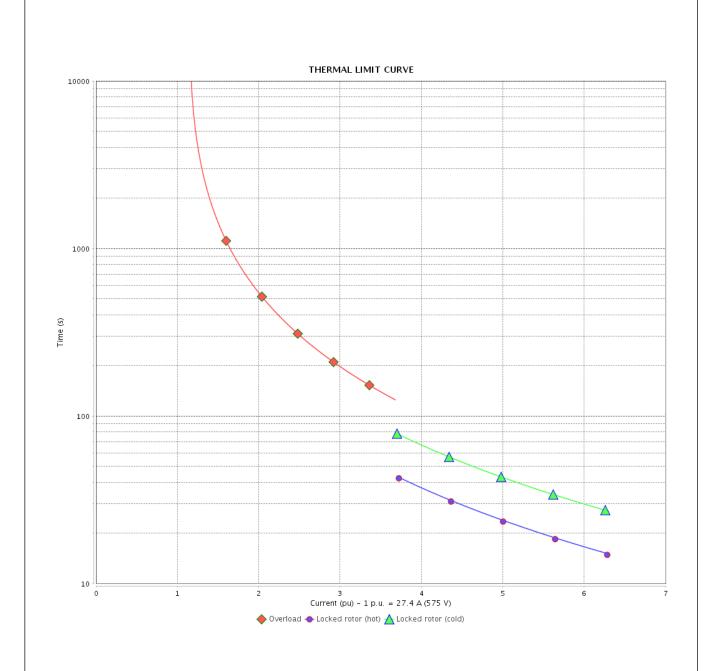
Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12712156 03036ET3H2	86JM-W22
						SOOM-VVZZ
Performance Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	jue ie	27.4 A 6.3 44.6 ft.lb 200 % 250 % 3540 rpm	Moment o Duty cycle Insulation Service fa Temperati Design	class ctor	: 3.37 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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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 :

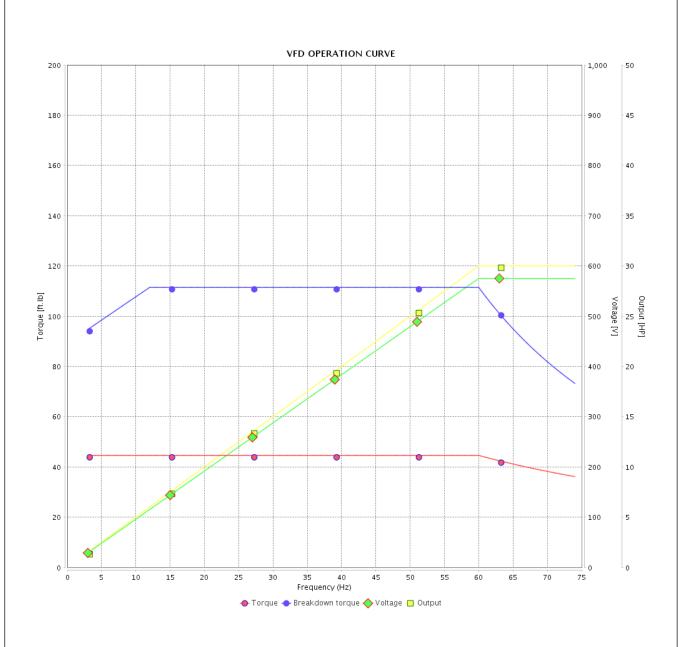
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12712156

Catalog #: 03036ET3H286JM-W22

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Performance	: 575 V 60 Hz 2P				
Rated current	: 27.4 A	Moment of inertia (J)		: 3.37 sq.ft.lb	
LRC	: 6.3	Duty cycle		: Cont.(S1)	
Rated torque	: 44.6 ft.lb	Insulation class		: F ` ´	
Locked rotor torque	: 200 %	Service factor		: 1.25	
Breakdown torque	: 250 %	Temperature rise		: 80 K	
Rated speed	: 3540 rpm	Design		: B	
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