## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer		:			
Product line		: NEMA P Phase	remium Efficiency	y Three- Product code : Catalog # :	12712152 02536ET3H284JM-W22
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor tord Breakdown torque Insulation class Service factor Moment of inertic	ue	: 284/6JM : 25 HP (1 : 2 : 60 Hz : 575 V : 22.8 A : 144 A : 6.3x(Coo : 6.00 A : 3535 rpr : 1.81 % : 37.1 ft.lb : 200 % : 250 % : F : 1.25 : 2.69 sq.1	8.5 kW) de G) n	Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 30s (cold) 17s (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 : 414 lb
Output	50%	75%	100%	Foundation loads	
Efficiency (%) Power Factor			Max. traction Max. compression	: 197 lb : 612 lb	
Bearing type Sealing Lubrication inter Lubricant amour Lubricant type		: : :	<u>Drive end</u> 6311 C3 V'Ring 14000 h 18 g	Non drive end 6211 C3 V'Ring 17000 h 11 g Mobil 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

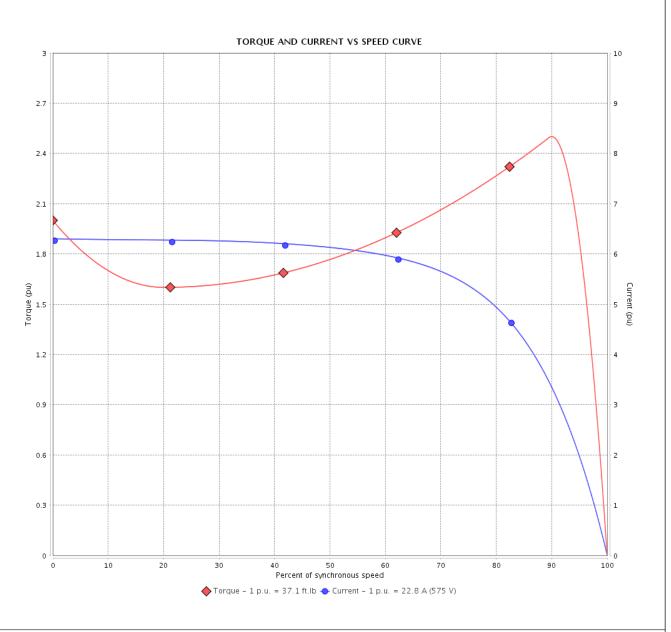


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12712152

Phase

Catalog #: 02536ET3H284JM-W22



Performance	: 575 V 60 Hz 2P			
Rated current	: 22.8 A	Moment of inertia (J)	: 2.69 sq.ft.lb	
LRC	: 6.3	Duty cycle	: Cont.(S1)	
Rated torque	: 37.1 ft.lb	Insulation class	: F	
Locked rotor torque	: 200 %	Service factor	: 1.25	
Breakdown torque	: 250 %	Temperature rise	: 80 K	
Rated speed	: 3535 rpm	Design	: B	
Looked votov time	. 20a (aald) 17a (bat)	•		

Locked rotor time : 30s (cold) 17s (hot)

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# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



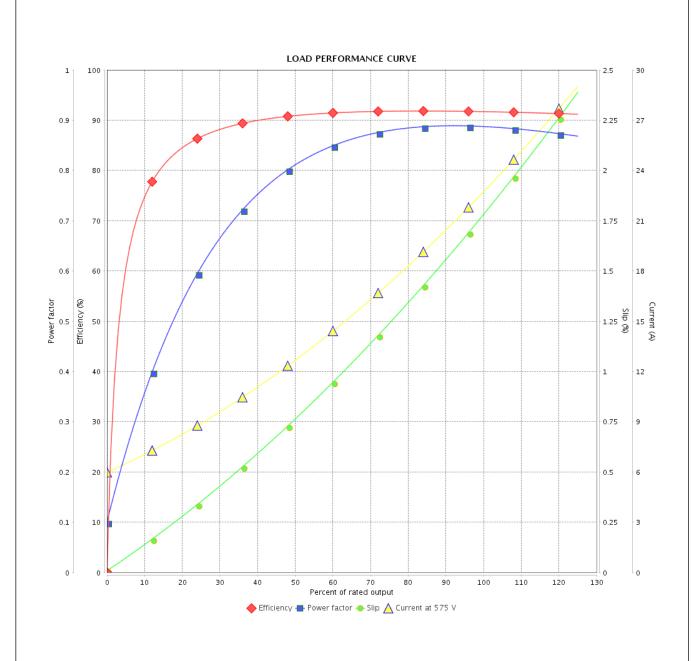
Customer

Product line : NEMA Premium Efficiency Three- Product code : 12712152

Phase

Catalog #: 02536ET3H284JM-W22

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Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 22.8 A : 6.3 : 37.1 ft.lb : 200 % : 250 % : 3535 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



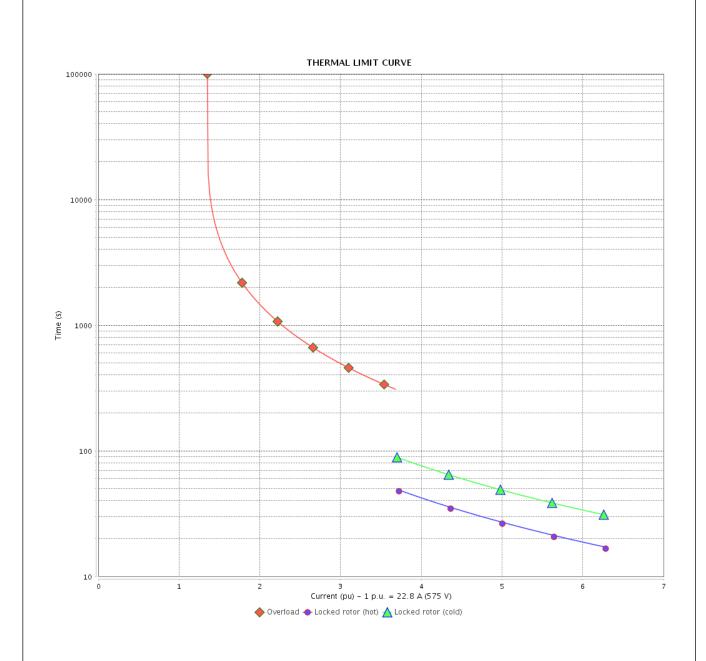
Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code :	12712152 02536ET3H28	34JM-W22
Performance Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	jue ie	22.8 A 6.3 37.1 ft.lb 200 % 250 % 3535 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 2.69 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

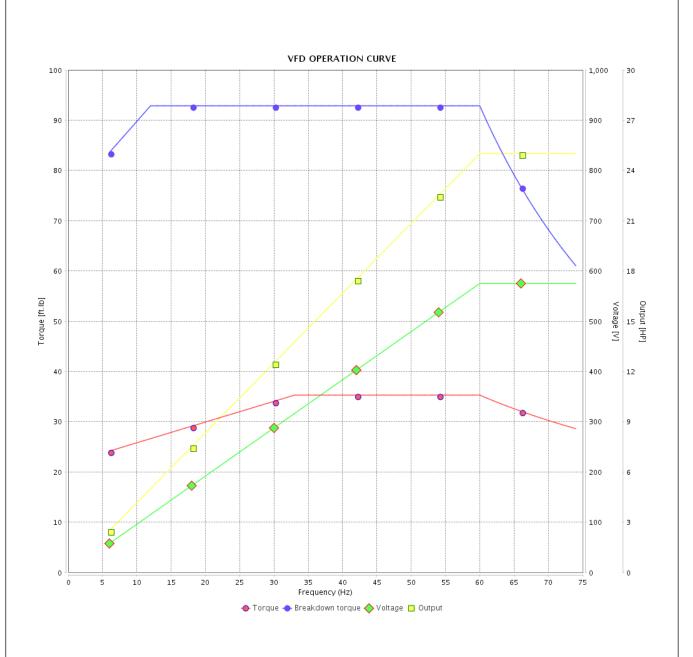
Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12712152

Catalog #: 02536ET3H284JM-W22

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Performance	: 575 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 22.8 A : 6.3 : 37.1 ft.lb : 200 % : 250 %	Moment of iner Duty cycle Insulation class Service factor Temperature ris		: Cont.(S1) class : F ctor : 1.25	
Rated speed  Rev.	: 3535 rpm  Changes Summary	Design	Performed	: B Checked	Date
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