### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12582353 Catalog #: 01536ET3H254JM-W22 Frame : 254/6JM Locked rotor time : 41s (cold) 23s (hot) Output : 15 HP (11 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 : 13.8 A Protection degree : IP55 L. R. Amperes Cooling method : IC411 - TEFC : 92.2 A LRC : 6.7x(Code G) Mounting : F-1 No load current : 3.68 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3535 rpm Noise level<sup>2</sup> : 72.0 dB(A) Starting method Slip : 1.81 % : Direct On Line Rated torque : 22.3 ft.lb Approx. weight<sup>3</sup> : 278 lb Locked rotor torque : 220 % Breakdown torque : 270 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 1.26 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 91.0 : 149 lb Efficiency (%) 89.2 89.5 91.0 Max. traction Power Factor 0.85 0.88 0.55 0.77 Max. compression : 427 lb Non drive end Drive end 6209 C3 Bearing type 6309 C3 V'Ring Sealing V'Ring Lubrication interval 19000 h 20000 h Lubricant amount 13 g 9 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.

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### TORQUE AND CURRENT VS SPEED CURVE

### Three Phase Induction Motor - Squirrel Cage

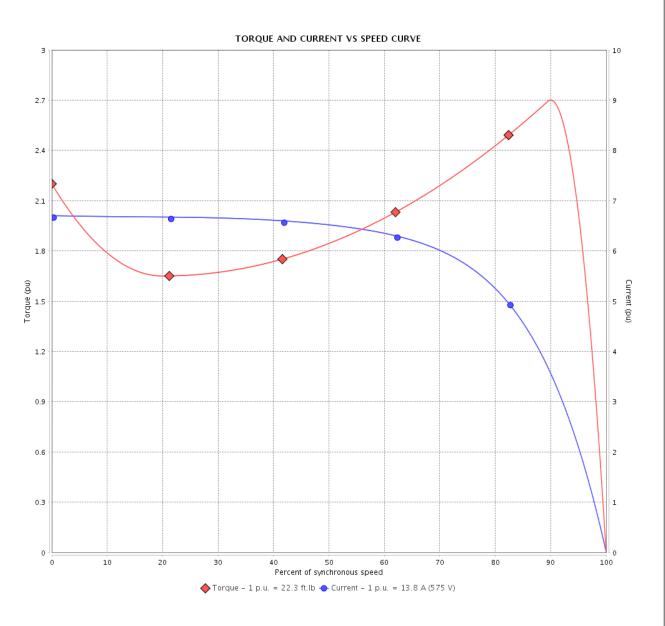


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12582353

Phase

Catalog #: 01536ET3H254JM-W22



Performance	: 575 V 60 Hz 2P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 13.8 A : 6.7 : 22.3 ft.lb : 220 % : 270 % : 3535 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B
Locked rotor time	: 41s (cold) 23s (hot)	Design	. Б

Locked rotor time : 41s (cold) 23s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



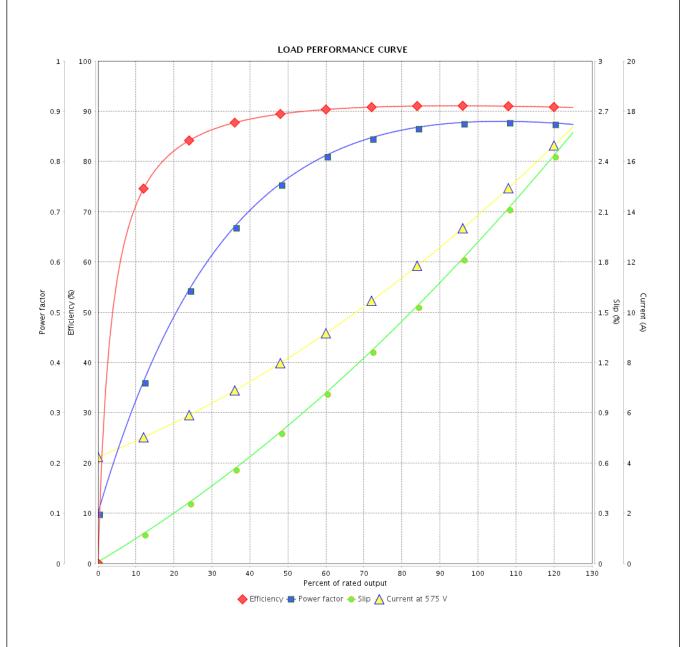
Customer

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Product line : NEMA Premium Efficiency Three- Product code : 12582353

Phase

Catalog #: 01536ET3H254JM-W22



Performance	: 575 V 60 Hz 2P	·				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 13.8 A : 6.7 : 22.3 ft.lb : 220 % : 270 % : 3535 rpm	[ ] 3	Moment of Duty cycle nsulation Service fac Temperatu Design	class ctor	: 1.26 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



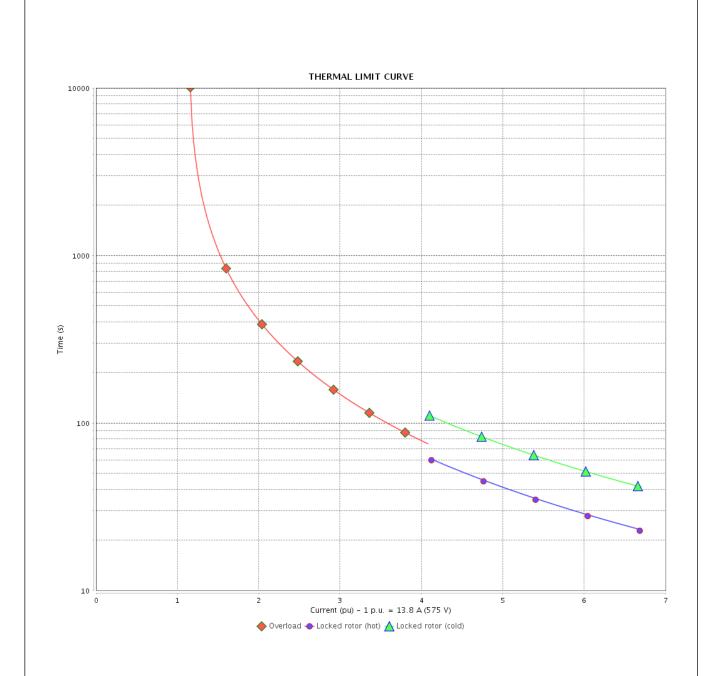
Customer	:				·	
Product line		NEMA Premium Efficienc	y Three-	Product code :	12582353	
	PI	hase		Catalog # :	01536ET3H25	54.IM-W22
					01000E101120	7-101VI VVZZ
Performance	· 57	75 V 60 Hz 2P				
Rated current		3.8 A	Moment o	f inertia (J)	: 1.26 sq.ft.lb	
LRC	: 6.	.7	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torque		2.3 ft.lb 20 %	Insulation Service fa		: F : 1.25	
Breakdown torque	: 27	70 %	Temperati		: 80 K	
Rated speed	: 35	535 rpm	Design		: B	
Heating constant						
Cooling constant		Changes Cumman		Performed	Chaskad	Doto
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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



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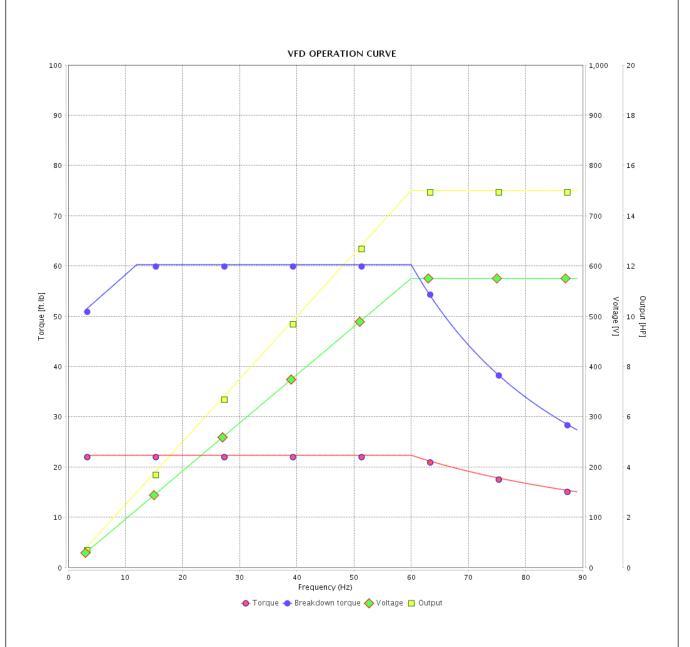
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Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12582353

Catalog #: 01536ET3H254JM-W22



Performance : 575 V 60 Hz 2P : 13.8 A Rated current Moment of inertia (J) : 1.26 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 22.3 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

