## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer		:					
Product line		: NEMA Premium Efficiency T Phase			Three- Product code :		11164700
						Catalog # :	15018ET3H445T-W22
Frame Output Poles		: 150	: 444/5T : 150 HP (110 kW) : 4			ed rotor time perature rise cycle	: 48s (cold) 27s (hot) : 80 K : Cont.(S1)
Frequency Rated voltage		: 60 I : 575	: 60 Hz : 575 V			ent temperature de	: -20°C to +40°C : 1000 m.a.s.l.
Rated current L. R. Amperes		: 136 : 898	A			ection degree ng method	: IP55 : IC411 - TEFC : F-1
LRC No load current Rated speed		: 46.4 : 178	: 6.6x(Code G) : 46.4 A : 1780 rpm			tion <sup>1</sup> e level <sup>2</sup>	: Both (CW and CCW) : 73.0 dB(A)
Slip Rated torque Locked rotor torque		: 1.11 % : 443 ft.lb : 200 %				ng method ox. weight³	: Direct On Line : 1844 lb
Breakdown torqu Insulation class			: 250 %				
Service factor Moment of inertia	a (J)		sq.ft.lb				
Design		: B					
Output	25%	50%	75%	100%	1	ation loads	
Efficiency (%) Power Factor	95.3 0.49	95.4 0.74	95.8 0.82	95.8 0.85	Max. tra	action ompression	: 2027 lb : 3871 lb
			Driv	e end		Non drive end	
Bearing type		:	6319 C3		6316 C3		
Sealing Lubrication interv	/al	:		/Seal 000 h		WSeal 10000 h	
Lubrication interv		:	-	45 g		34 g	
Lubricant type		:	_		lobil Polyrex EM		
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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Checked by				Page	Revision
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### TORQUE AND CURRENT VS SPEED CURVE

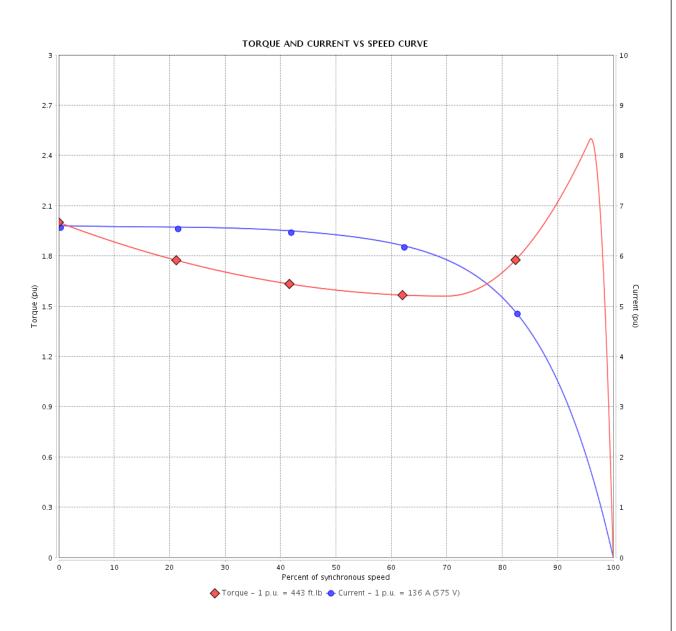
#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11164700

Catalog #: 15018ET3H445T-W22



Performance : 575 V 60 Hz 4P Rated current : 136 A Moment of inertia (J) : 66.7 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 443 ft.lb : F Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 48s (cold) 27s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



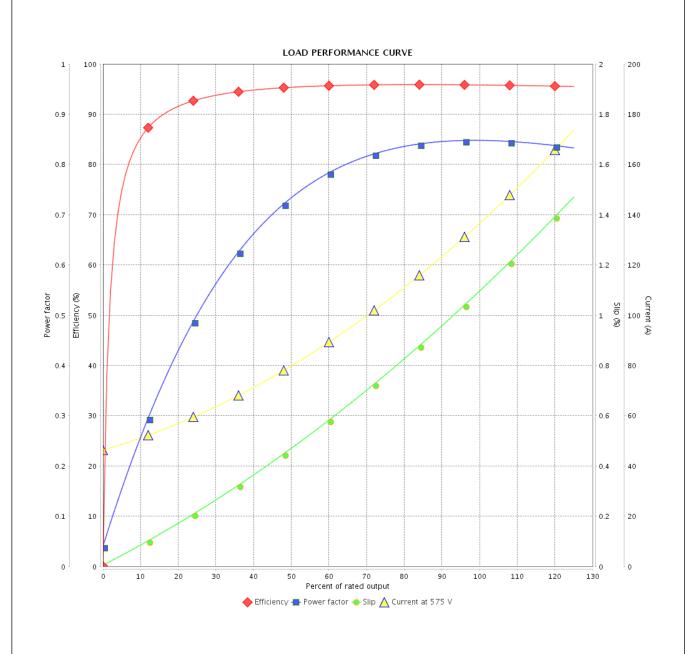
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11164700

Phase

Catalog #: 15018ET3H445T-W22

3/6



Performance	: 575 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment of inerti Duty cycle Insulation class Service factor Temperature rise Design	. ,	: 66.7 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



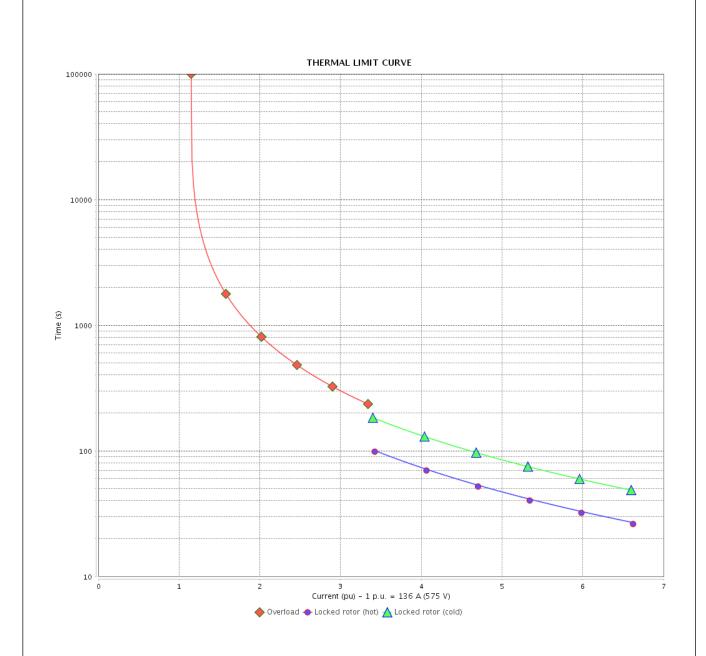
Customer	:				
Product line	: NEMA Premium Efficiency Phase		Product code :	11164700 15018ET3H4	45T-W22
Performance Rated current	: 575 V 60 Hz 4P : 136 A	Moment o	f inertia (J)	: 66.7 sq.ft.lb	
LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.6 : 443 ft.lb : 200 % : 250 % : 1780 rpm	Duty cycle Insulation Service fa Temperatu Design	e class ctor	: Cont.(S1) : F : 1.15 : 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 :

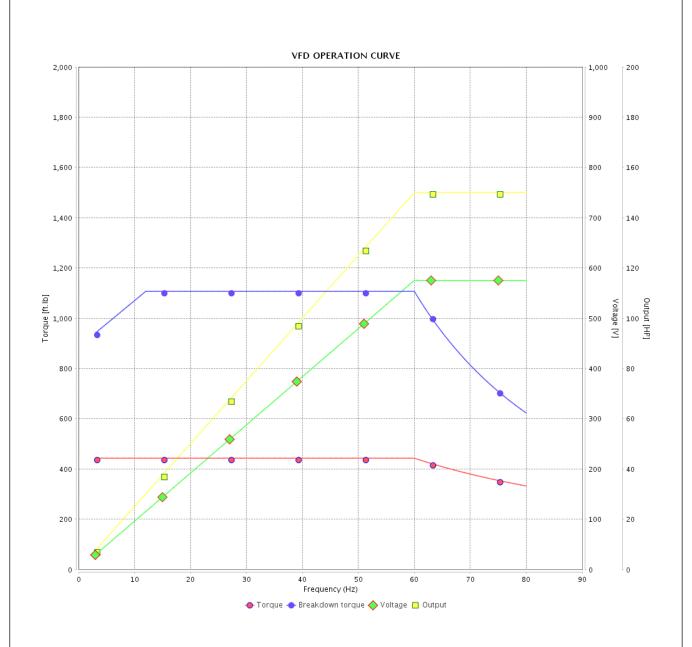
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 15018ET3H445T-W22

11164700

6/6



Performance	: 575 V 60 Hz 4P					
Rated current	: 136 A	Moment of inertia (J)		: 66.7 sq.ft.lb		
LRC	: 6.6	Duty cycle		: Cont.(S1)		
Rated torque	: 443 ft.lb	Insulation cl	ass	: F		
Locked rotor torque	: 200 %	Service factor		: 1.15		
Breakdown torque	: 250 %	Temperature rise Design		: 80 K		
Rated speed	: 1780 rpm			: B		
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