## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer		:				
Product line		: NEMA Premium Efficiency Th Phase			Three- Product code :  Catalog # :	13473782 25018ET3H447TS-W22
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor tor Breakdown torq Insulation class Service factor Moment of inerti	ue	: 4 : 60 l : 575 : 225 : 146 : 6.5 : 72.0 : 178 : 1.1 : 738 : 229 : 240 : F	HP (185 k Hz 5 V 5 A 61 A k(Code G) 0 A 00 rpm 1 % 6 ft.lb 9 %	kW)	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) : 73.0 dB(A) : Direct On Line : 2513 lb
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	95.7	95.8	96.2	96.2	Max. traction	: 3462 lb
Power Factor	0.50	0.75	0.83	0.86	Max. compression	: 5975 lb
Bearing type Sealing Lubrication inter Lubricant amoun Lubricant type		: : : :	63 V 12	re end 814 C3 VSeal 2000 h 27 g	Non drive end 6314 C3 WSeal 12000 h 27 g obil 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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### TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage



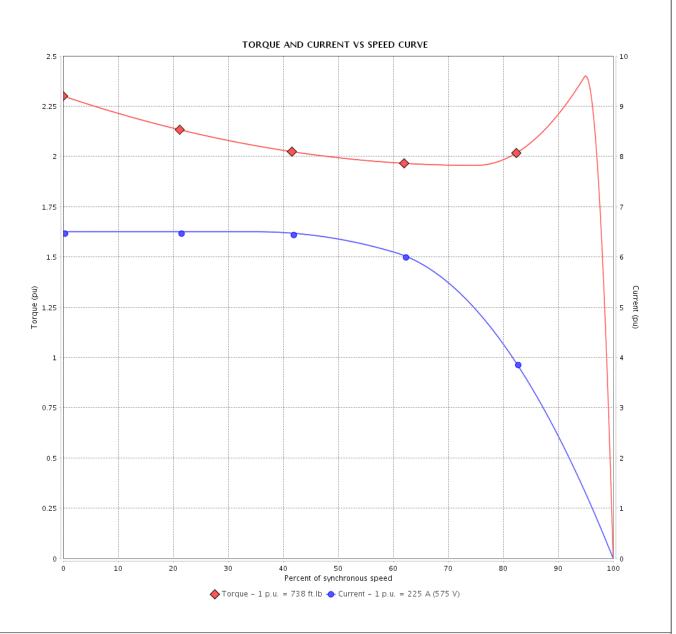
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 25018ET3H447TS-W22

13473782



Performance : 575 V 60 Hz 4P Rated current : 225 A Moment of inertia (J) : 89.6 sq.ft.lb **LRC** : 6.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 738 ft.lb : F Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

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

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



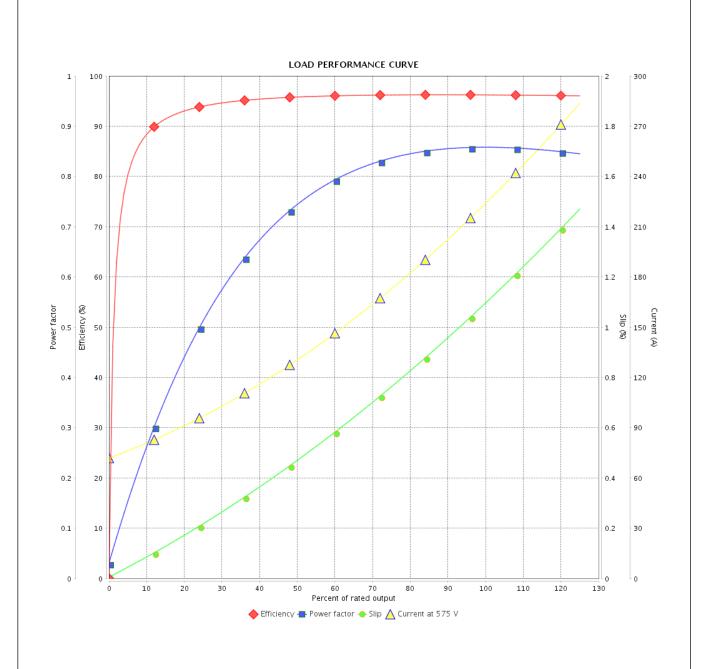
Customer

Product line : NEMA Premium Efficiency Three- Product code : 13473782

Phase

Catalog #: 25018ET3H447TS-W22

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Performance	: 575 V 60 Hz 4P				
Rated current	: 225 A Moment of ine		nertia (J)	: 89.6 sq.ft.lb	
LRC	: 6.5	Duty cycle		: Cont.(S1)	
Rated torque	: 738 ft.lb	Insulation cl	ass	: F	
Locked rotor torque	: 229 %	Service factor		: 1.15	
Breakdown torque	: 240 %	Temperature rise Design		: 80 K	
Rated speed	: 1780 rpm			: B	
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



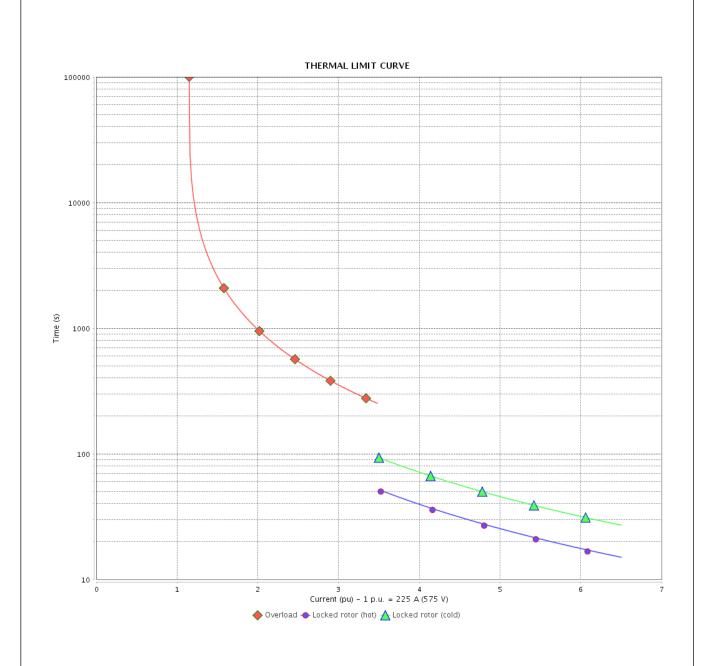
Customer		:				
Product line		NEMA Promium Efficience	Thros	Droduct code :	40.470700	
Product line		: NEMA Premium Efficiency <sup>*</sup> Phase		Product code :	13473782	
				Catalog # :	25018ET3H44	17TS-W22
Performance		575 V 60 Hz 4P				
Rated current LRC		225 A 6.5	Moment of Duty cycle	of inertia (J)	: 89.6 sq.ft.lb : Cont.(S1)	
Rated torque	:	738 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord		229 % 240 %	Service fa Temperati		: 1.15 : 80 K	
Rated speed		1780 rpm	Design	uic lisc	: B	
Heating constan	 t					
Cooling constan						
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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 :

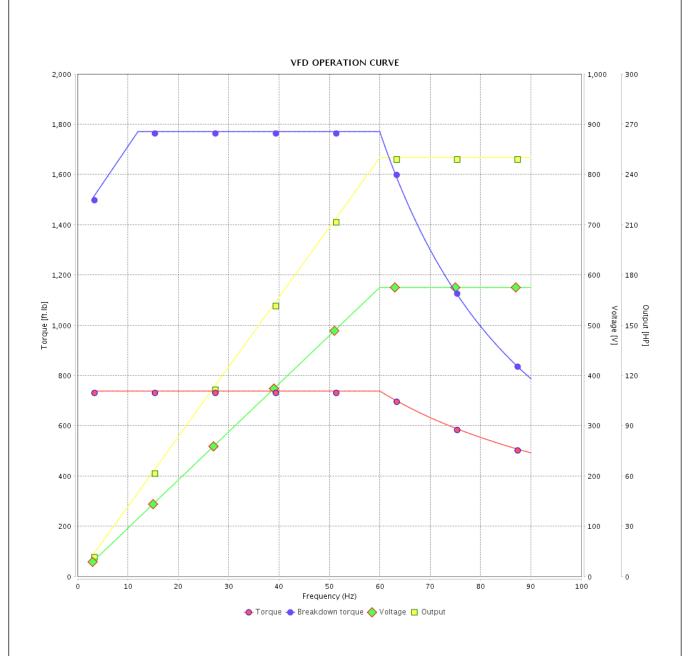
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 25018ET3H447TS-W22

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13473782



Performance	: 575 V 60 Hz 4P				
Rated current	: 225 A	5 A Moment of inertia (J)		: 89.6 sq.ft.lb	
LRC	: 6.5	Duty cycle		: Cont.(S1)	
Rated torque	: 738 ft.lb	Insulation of	class	: F	
Locked rotor torque	: 229 %	Service factor		: 1.15	
Breakdown torque	: 240 %	Temperature rise		: 80 K	
Rated speed	: 1780 rpm	Design		: B	
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