DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 13273168 Catalog #: 12512ET3H445T-W22G Frame : 444/5T Locked rotor time : 34s (cold) 19s (hot) Output : 125 HP 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 : 114 A Rated current Protection degree : IP55 L. R. Amperes : 732 A Cooling method : IC411 - TEFC : 6.4x(Code G) LRC Mounting : F-1 No load current : 44.8 A Rotation¹ : Both (CW and CCW) Rated speed : 1185 rpm Noise level² : 69.0 dB(A) Starting method Slip : 1.25 % : Direct On Line Rated torque : 554 ft.lb Approx. weight³ : 1751 lb Locked rotor torque : 210 % Breakdown torque : 240 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 104 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 95.0 : 2668 lb Efficiency (%) 95.2 95.0 95.4 Max. traction Power Factor 0.83 0.45 0.70 0.79 Max. compression : 4420 lb Non drive end Drive end Bearing type 6319 C3 6316 C3 Sealing WSeal WSeal Lubrication interval 13000 h 16000 h Lubricant amount 45 g 34 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



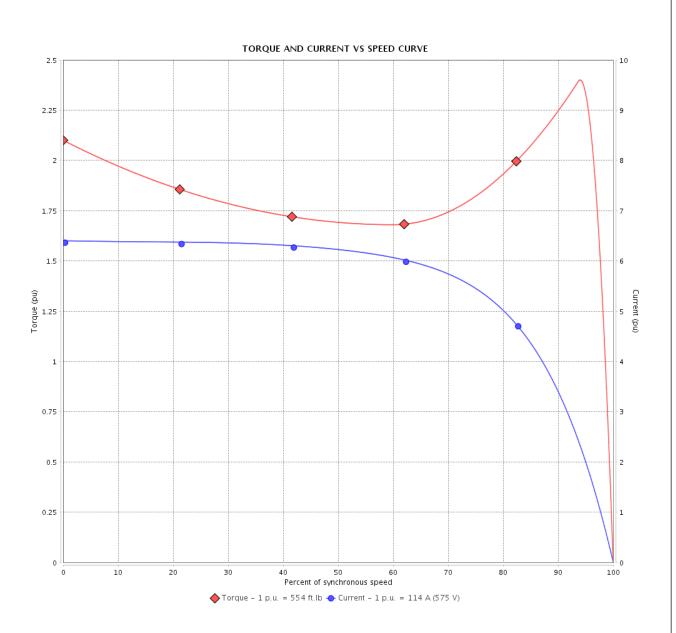
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 12512ET3H445T-W22G

13273168



Performance	: 575 V 60 Hz 6P			
Rated current	: 114 A	Moment of inertia (J)	: 104 sq.ft.lb	
LRC	: 6.4	Duty cycle	: Cont.(S1)	
Rated torque	: 554 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.15	
Breakdown torque	: 240 %	Temperature rise	: 80 K	
Rated speed	: 1185 rpm	Design	: B	

Locked rotor time : 34s (cold) 19s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

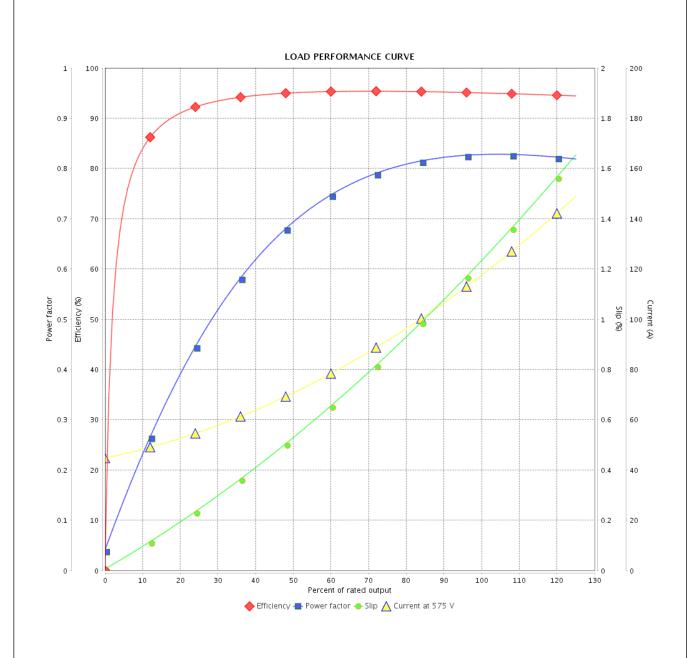
Product line : NEMA Premium Efficiency Three- Product code :

Phase

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13273168



Performance	: 575 V 60 Hz 6P				
Rated current	: 114 A	Moment of inertia (J)		: 104 sq.ft.lb	
LRC	: 6.4	Duty cycle		: Cont.(S1)	
Rated torque	: 554 ft.lb	Insulation class		: F	
Locked rotor torque	: 210 %	: 210 % Service factor Temperature rise	tor : 1.15		
Breakdown torque	: 240 %		re rise	: 80 K	
Rated speed	: 1185 rpm	Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



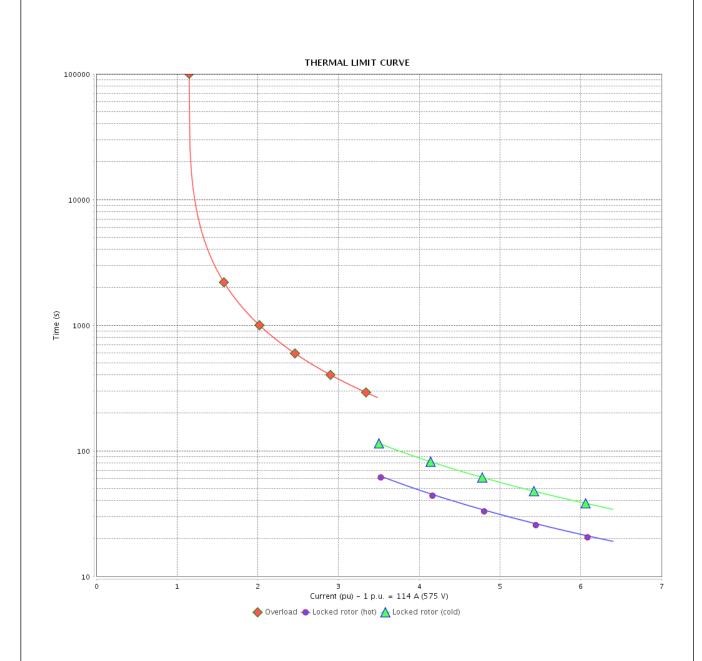
Customer		:				
Product line		: NEMA Premium Efficiency	Three-	Product code :	13273168	
1 Toddot IIIIc		Phase				
				Catalog # :	12512ET3H4	45T-W22G
Performance		: 575 V 60 Hz 6P				
Rated current		: 114 A	Moment o	of inertia (J)	: 104 sq.ft.lb	
LRC Rated torque		: 6.4 : 554 ft.lb	Duty cycle Insulation	Э	: Cont.(S1) : F	
Locked rotor torc		: 210 %	Service fa		. г : 1.15	
Breakdown torqu	ie	: 240 %	Temperati		: 80 K	
Rated speed		: 1185 rpm	Design		: B	
Heating constant						
Cooling constant					1	
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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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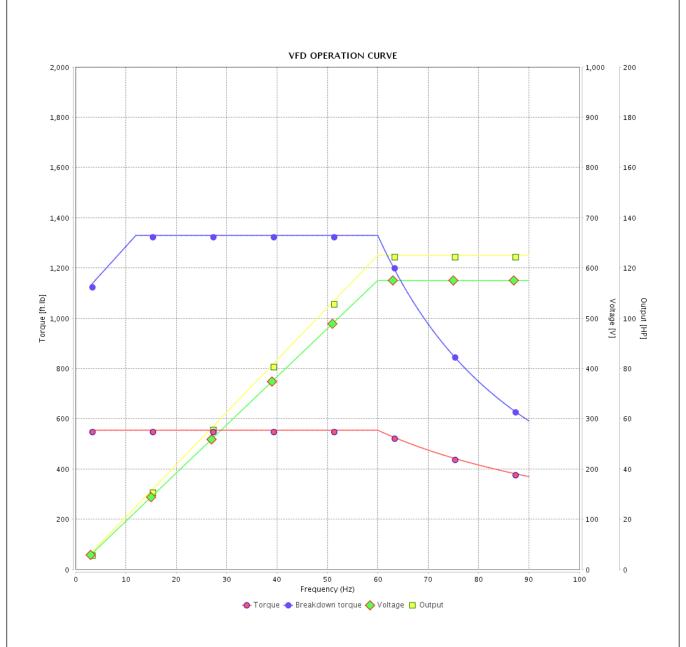
13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13273168

Catalog #: 12512ET3H445T-W22G



Performance : 575 V 60 Hz 6P : 114 A Rated current Moment of inertia (J) : 104 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) Insulation class : 554 ft.lb : F Rated torque Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

