### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12792531 Catalog #: 00218OT3H145T-SG Frame : 143/5T Locked rotor time : 30s (cold) 17s (hot) Output : 2 HP (1.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 2.15 A : IC01 - ODP L. R. Amperes Mounting : F-1 : 16.6 A : 7.7x(Code K) : Both (CW and CCW) LRC Rotation<sup>1</sup> No load current : 1.10 A Noise level<sup>2</sup> : 52.0 dB(A) Rated speed : 1740 rpm Starting method : Direct On Line Slip : 3.33 % Approx. weight<sup>3</sup> : 39.8 lb Rated torque : 6.04 ft.lb Locked rotor torque : 260 % Breakdown torque : 320 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1168 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 85.5 86.5 86.5 : 148 lb Efficiency (%) 85.2 Max. traction : 188 lb Power Factor 0.36 0.74 0.81 0.61 Max. compression Drive end Non drive end

Bearing type : 6205 ZZ 6203 ZZ
Sealing : Without Bearing Seal Without Bearing Seal
Lubrication interval : - -

Lubricant amount : -

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



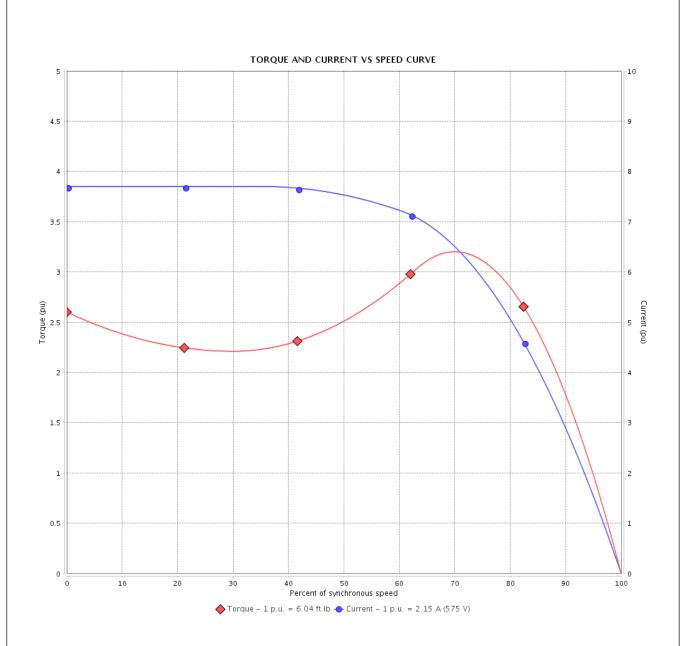
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog # : 00218OT3H145T-SG

12792531



Performance : 575 V 60 Hz 4P Rated current : 2.15 A Moment of inertia (J) : 0.1168 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : F : 6.04 ft.lb Insulation class Rated torque : 260 % Service factor Locked rotor torque : 1.15 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1740 rpm Design : B

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

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## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage

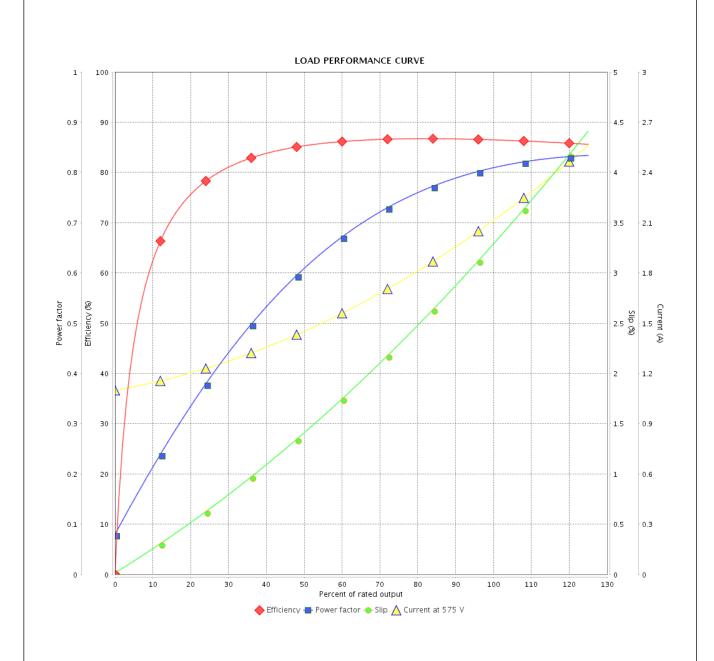


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12792531

Phase

Catalog #: 00218OT3H145T-SG



Performance	: 5	: 575 V 60 Hz 4P						
Rated current	: 2	2.15 A Moment of ine		inertia (J) : 0.1168 sq.ft.lb		lb		
LRC	: 7	7.7	Duty cycle		: Cont.(S1)			
Rated torque	: 6	6.04 ft.lb	Insulation class		: F			
Locked rotor torque	e :2	260 %	Service factor		: 1.15			
Breakdown torque	: 3	320 %	Temperature rise		: 80 K			
Rated speed	: '	1740 rpm	Design	Design				
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



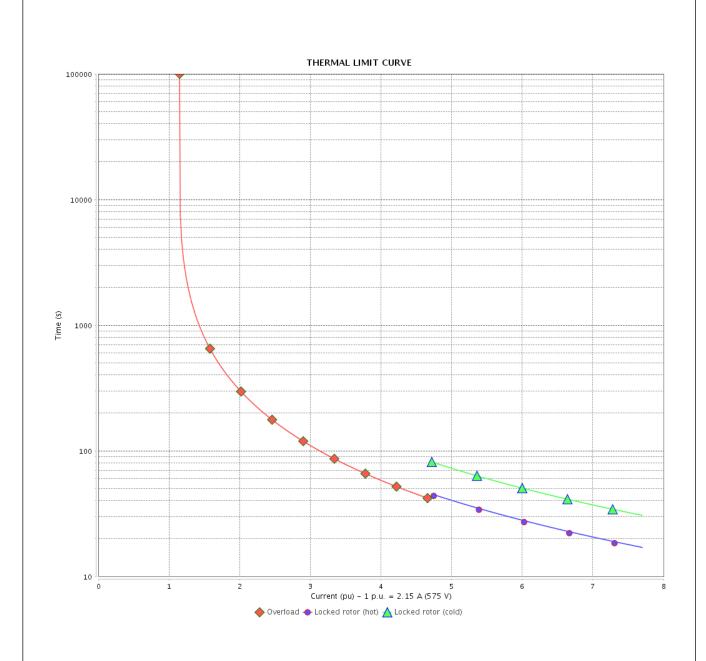
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Product line	: Î Pi	NEMA Premium Efficiency Thase	Γhree- I	Product code :	12792531	
		11400	(	Catalog # :	00218OT3H	145T-SG
Performance	: 57	75 V 60 Hz 4P				
Rated current LRC	: 2. : 7.	15 A 7	Moment of Duty cycle		: 0.1168 sq.ft.l : Cont.(S1)	b
Rated torque		.04 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		60 % 20 %	Service fac Temperatu		: 1.15 : 80 K	
Rated speed		740 rpm	Design	ii C 113C	: B	
Heating constant						
Cooling constant	•	Changes Summani		Performed	Chaokad	Data
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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



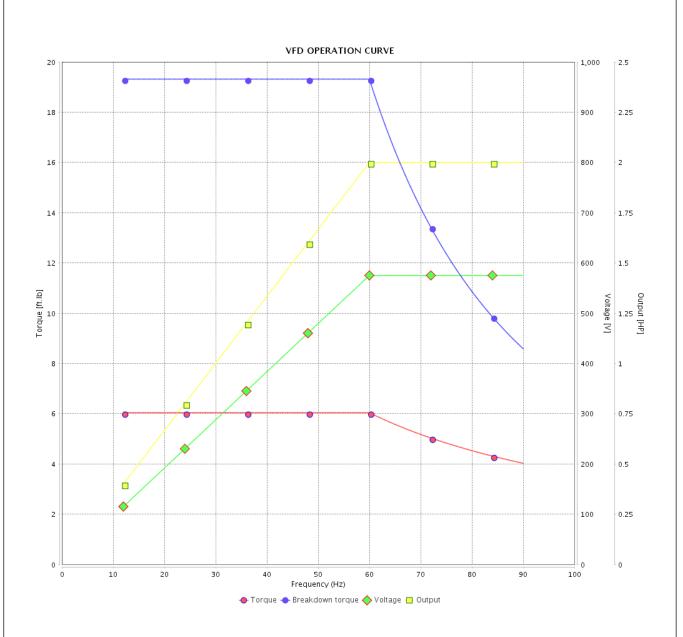
Customer :

Product line : NEMA Premium Efficiency Three- Product

Phase

Product code: 12792531

Catalog #: 00218OT3H145T-SG



Performance	: 575 V 60 Hz 4P						
Rated current	: 2.15 A	Moment of inertia (J)		: 0.1168 sq.ft.lb			
LRC	: 7.7	Duty cycle		: Cont.(S1)			
Rated torque	: 6.04 ft.lb Insulation		class	: F : 1.15			
Locked rotor torque	: 260 %	Z20 % Temperature rise					
Breakdown torque	: 320 %			: 80 K			
Rated speed	: 1740 rpm			: B			
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Date

