### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 13413918 Catalog #: 00118OT3P143TC-S Frame : 143/5TC Locked rotor time : 39s (cold) 22s (hot) Output : 1 HP (0.75 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Frequency : 60 Hz Rated voltage : 200 V Altitude : 1000 m.a.s.l. Cooling method Rated current : 3.47 A : IC01 - ODP L. R. Amperes : 27.8 A Mounting : F-1 : Both (CW and CCW) LRC : 8.0x(Code L) Rotation<sup>1</sup> No load current : 2.20 A Noise level<sup>2</sup> : 52.0 dB(A) Rated speed : 1760 rpm Starting method : Direct On Line Slip : 2.22 % Approx. weight<sup>3</sup> : 34.4 lb Rated torque : 2.98 ft.lb Locked rotor torque : 290 % Breakdown torque : 360 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.1101 sq.ft.lb Design 25% 50% 75% 100% Output Foundation loads 84.0 85.5 : 76 lb Efficiency (%) 79.9 81.5 Max. traction Power Factor 0.51 0.65 : 110 lb 0.29 0.73 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

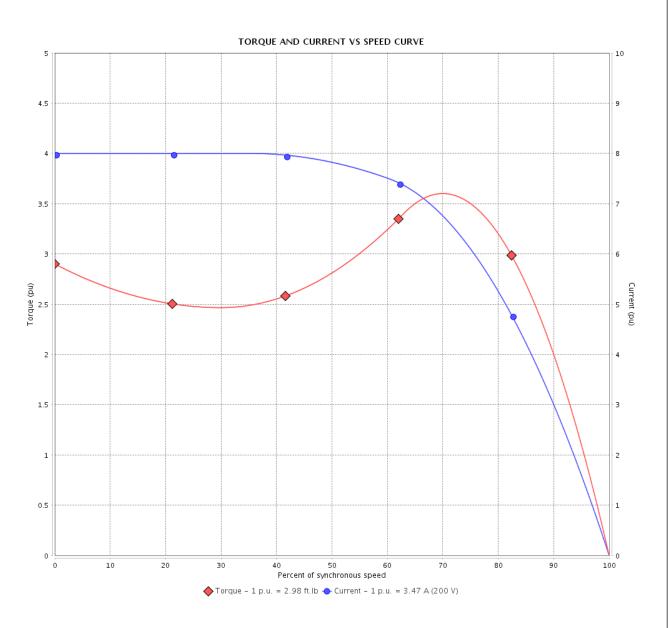


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13413918

Phase

Catalog #: 00118OT3P143TC-S



Performance : 200 V 60 Hz 4P Rated current : 3.47 A Moment of inertia (J) : 0.1101 sq.ft.lb **LRC** : 8.0 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 2.98 ft.lb Service factor Locked rotor torque : 290 % : 1.15 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 1760 rpm Design : B

Locked rotor time : 39s (cold) 22s (hot)

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# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

11/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 13413918

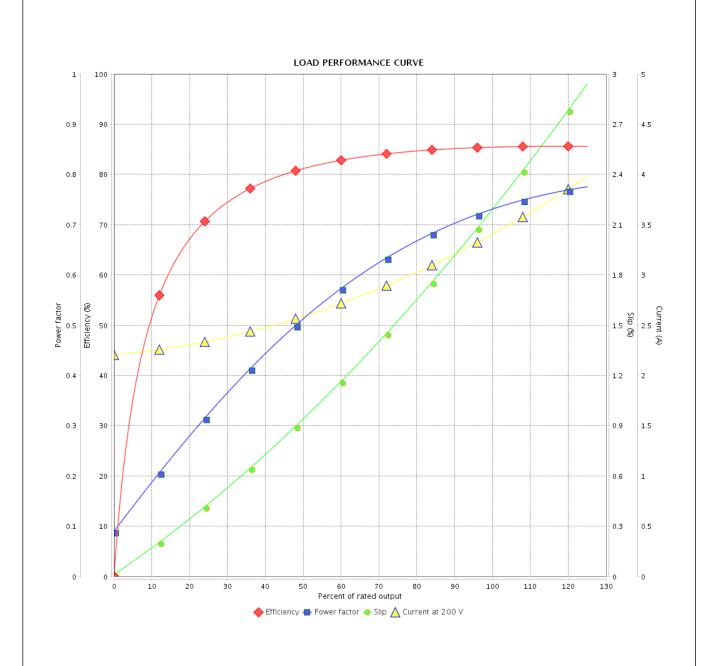
Phase

Catalog #: 00118OT3P143TC-S

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Revision



Performance	: 200 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1101 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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## THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



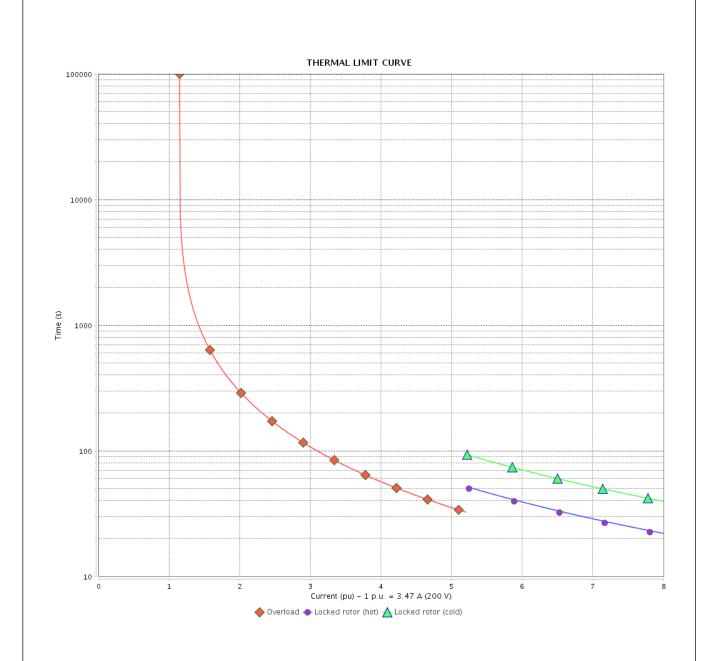
Customer		:			·	
Product line		NEMA Drawing Efficiency	There	Product code :	42442040	
Product line		: NEMA Premium Efficiency Phase	mee-	Froduct code .	13413918	
				Catalog # :	00118OT3P1	43TC-S
Performance		: 200 V 60 Hz 4P				
Rated current LRC		: 3.47 A : 8.0	Moment of Duty cycle	of inertia (J)	: 0.1101 sq.ft.l : Cont.(S1)	b
Rated torque		: 2.98 ft.lb	Insulation	class	: F	
Locked rotor torc	lue	: 290 %	Service fa	ictor	: 1.15	
Breakdown torqu Rated speed		: 360 % : 1760 rpm	Temperate Design	ure rise	: 80 K : B	
			= -5.5.		- <del>-</del>	
Heating constant Cooling constant						
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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



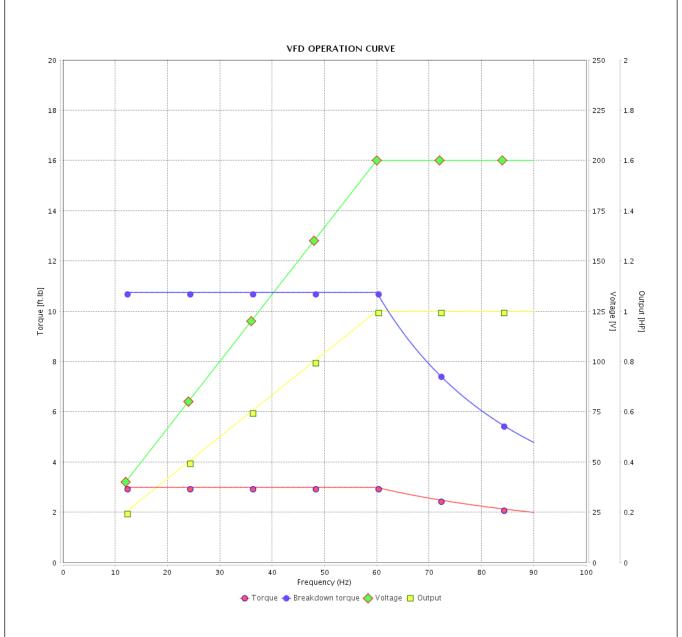
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13413918

Catalog #: 00118OT3P143TC-S



Performance	: 200 V 60 Hz 4P							
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.47 A : 8.0 : 2.98 ft.lb : 290 % : 360 % : 1760 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1101 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B				
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Date

