DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 14281753 Catalog #: 00112XT3E145TC Frame : 143/5TC Locked rotor time : 50s (cold) 28s (hot) Output : 1 HP (0.75 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 208-230/460 V : 1000 m.a.s.l. Altitude Rated current : 3.60-3.26/1.63 A Protection degree : IP55 L. R. Amperes : 22.3-20.2/10.1 A Cooling method : IC411 - TEFC LRC : 6.2x(Code K) Mounting : F-1 No load current : 1.75-2.04/1.02 A Rotation¹ : Both (CW and CCW) Rated speed : 1145 rpm Noise level² : 50.0 dB(A) Starting method Slip : 4.58 % : Direct On Line Rated torque : 4.59 ft.lb Approx. weight³ : 77.2 lb Locked rotor torque : 260 % Breakdown torque : 300 % Insulation class : F Service factor : 1.15 Design : B 25% 50% 75% 100% Foundation loads Output Efficiency (%) 0.000 77.0 82.0 82.5 Max. traction : 81 lb Power Factor Max. compression 0.00 0.51 0.63 0.70 : 158 lb Drive end Non drive end 6205 2RS Bearing type 6204 2RS Oil Seal Lip Seal Sealing Lubrication interval 0 h 0 h Lubricant amount 0 g 0 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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DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer	
Customer	

Thermal protection

1		•	Quantity Sensing Temperature es 1 x Phase 155 °C	
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

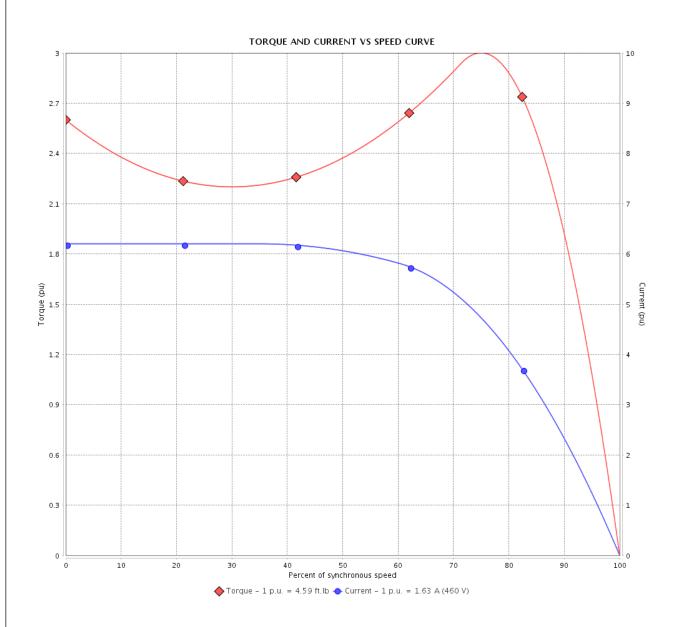


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14281753

Phase

Catalog #: 00112XT3E145TC



Performance	: 208-230/460 V 60 Hz 6F			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.60-3.26/1.63 A : 6.2 : 4.59 ft.lb : 260 % : 300 % : 1145 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: Cont.(S1) : F : 1.15 : 80 K : B	
Locked rotor time	: 50s (cold) 28s (hot)			

		(****) = *** (*****)			
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

11/04/2022

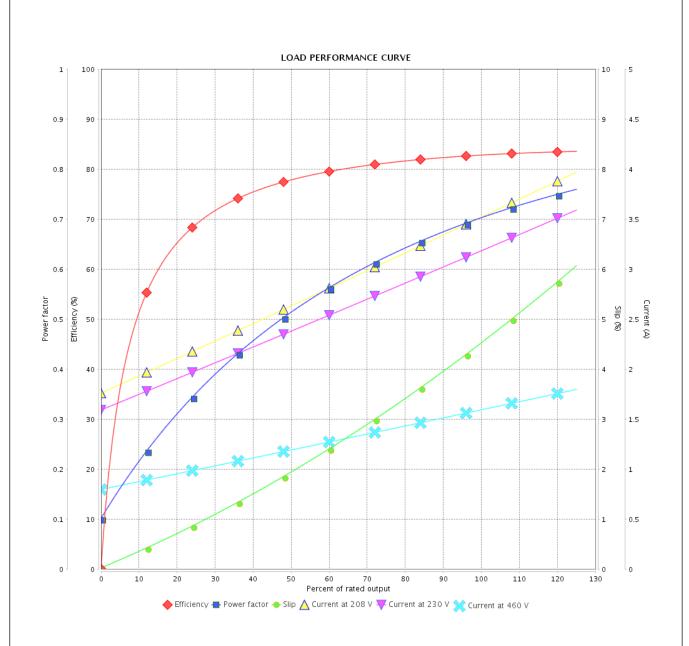
Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00112XT3E145TC

14281753

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Performance : 208-230/460 V 60 Hz 6P : 3.60-3.26/1.63 A Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.2 : 4.59 ft.lb Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1145 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



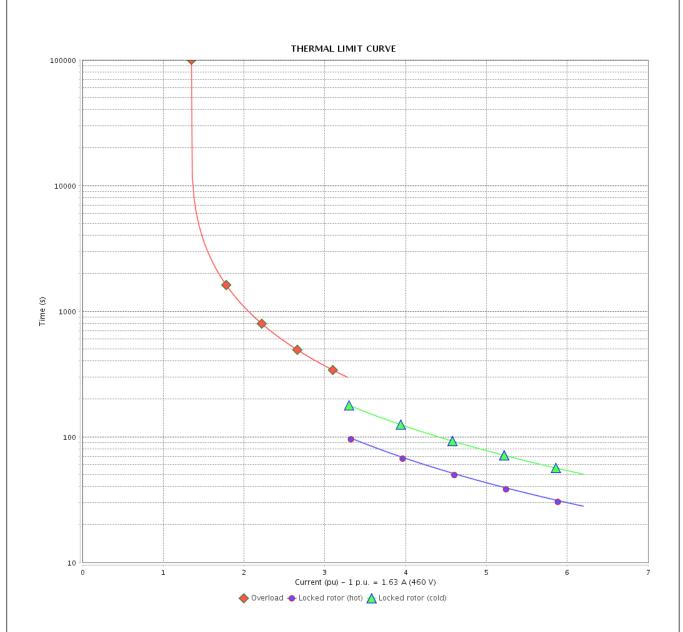
Customer	:					
Product line		NEMA Promium Efficiency	Throo	Product code :	14281753	
Product line		NEMA Premium Efficiency Phase				
				Catalog # :	00112XT3E1	45TC
Performance		208-230/460 V 60 Hz 6P				
Rated current LRC	: 3 : 6	3.60-3.26/1.63 A 3.2	Moment of Duty cycle	of inertia (J)	: Cont.(S1)	
Rated torque	: 4	1.59 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown tord	que : 2	260 % 300 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		145 rpm	Design	uie lise	: 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



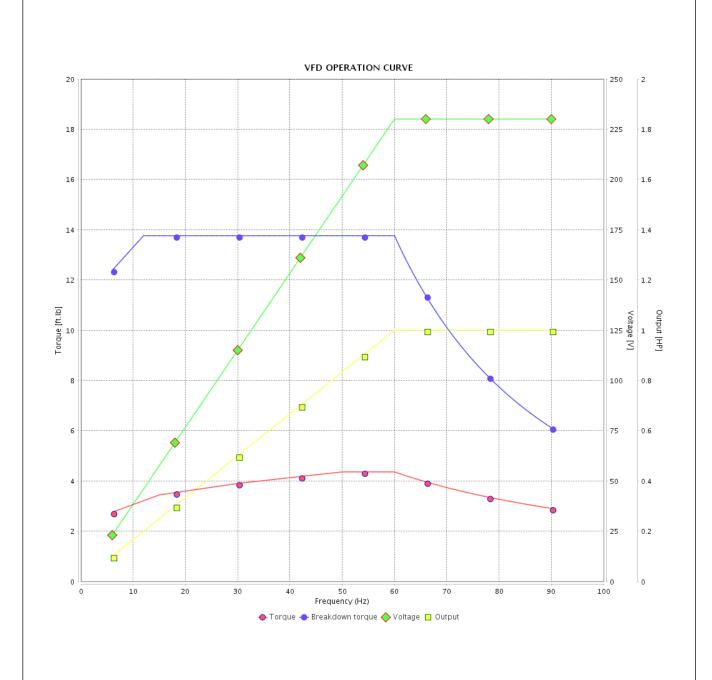
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 00112XT3E145TC

14281753



Performance	:	208-230/460 V 60 Hz 6F	D			
Rated current	:	3.60-3.26/1.63 A	60-3.26/1.63 A Moment of inertia (J)			
LRC	:	6.2	Duty cycle)	: Cont.(S1)	
Rated torque	:	4.59 ft.lb Insulation class		class	: F	
Locked rotor toro	jue :	260 %	Service fa	ctor	: 1.15	
Breakdown torqu	ie :	300 %	Temperature rise		: 80 K	
Rated speed	:	145 rpm Design		: B		
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