DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:				
Product line		: NEMA Premium Efficiency T Phase			Three- Product code : Catalog # :	13500618 25018ET3GKD449T-W22
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Design		: 447/9T : 250 HP (185 kW) : 4 : 60 Hz : 460 V : 291 A : 2241 A : 7.7x(Code J) : 108 A : 1785 rpm : 0.83 % : 735 ft.lb : 280 % : 280 % : F : 1.15		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) : 75.0 dB(A) : Direct On Line : 2562 lb	
Output Efficiency (%) Power Factor	25% 0.000 0.00	50% 95.8 0.69	75% 96.2 0.79	100% 96.2 0.83	Foundation loads Max. traction Max. compression	: 4209 lb : 6771 lb
Bearing type : NU-322 C3 Sealing : WSeal Lubrication interval : 4000 h Lubricant amount : 60 g Lubricant type : Mob		Non drive 6 6319 C WSea 8000 h 45 g sbil Polyrex EM	3			

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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Checked by				Page	Revision
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



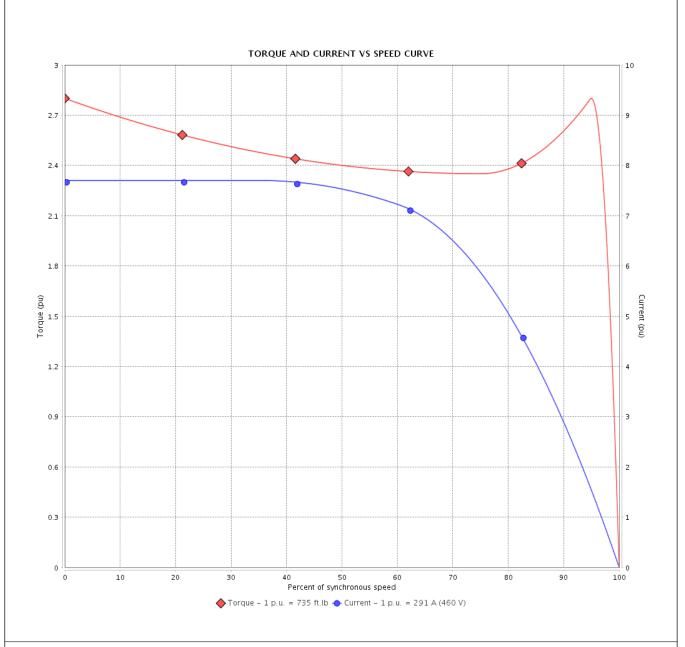
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13500618

Catalog #: 25018ET3GKD449T-W22



Performance : 460 V 60 Hz 4P

Rated current : 291 A Moment of inertia (J)

LRC : 7.7 Duty cycle : Cont.(S1)

: 735 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 280 % : 1.15 : 80 K Breakdown torque : 280 % Temperature rise Rated speed : 1785 rpm Design : A

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

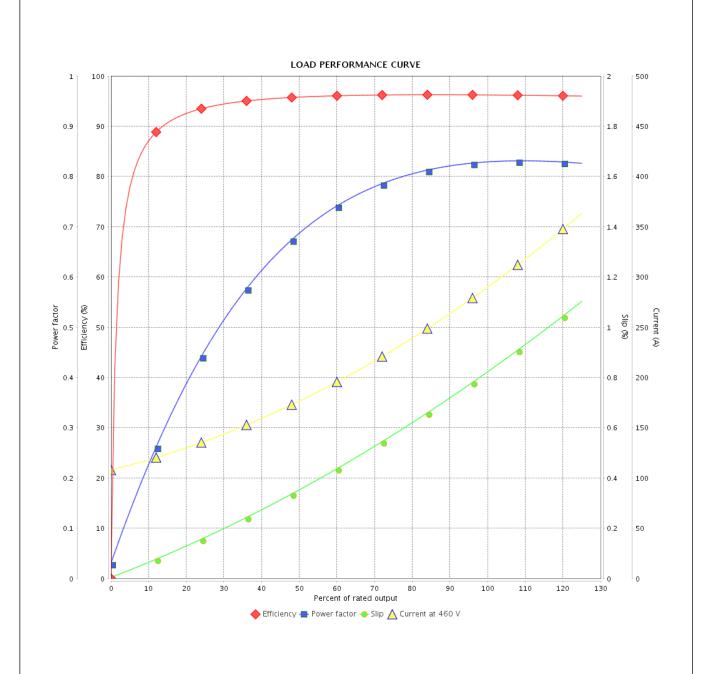


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13500618

Phase

Catalog #: 25018ET3GKD449T-W22



Performance	: 4	: 460 V 60 Hz 4P						
Rated current	::	: 291 A Moment of ir : 7.7 Duty cycle : 735 ft.lb Insulation class : 280 % Service factor : 280 % Temperature		f inertia (J)				
LRC	: ')	: Cont.(S1)			
Rated torque	: '			class	: F			
Locked rotor torque	e ::			ctor	: 1.15			
Breakdown torque	: :			Temperature rise Design				
Rated speed	: 1785 rpm		Design					
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



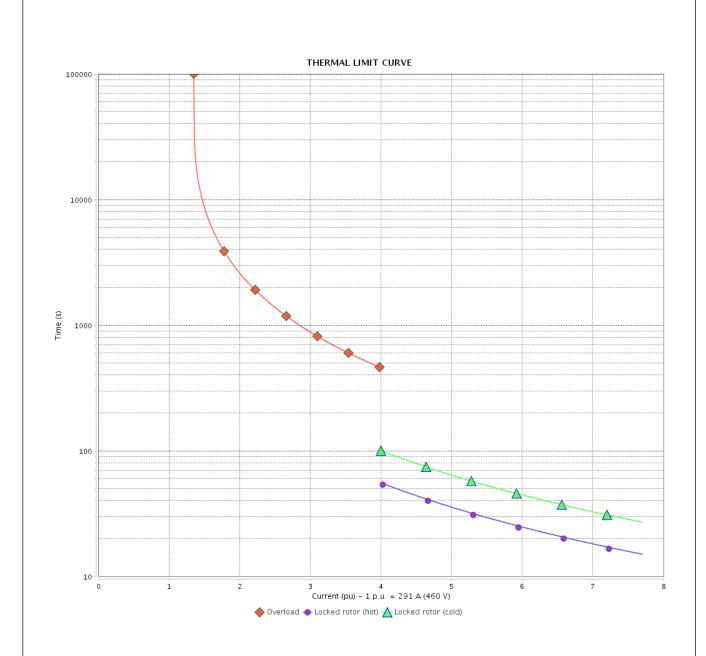
Customer	:				
Product line	: NEMA Premium Efficien Phase		Product code : Catalog # :	13500618 25018ET3Gk	(D449T-W22
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 460 V 60 Hz 4P : 291 A : 7.7 : 735 ft.lb : 280 % : 280 % : 1785 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: Cont.(S1) : F : 1.15 : 80 K : A	
Heating constant Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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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



Revision

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Customer :

Checked by

Date

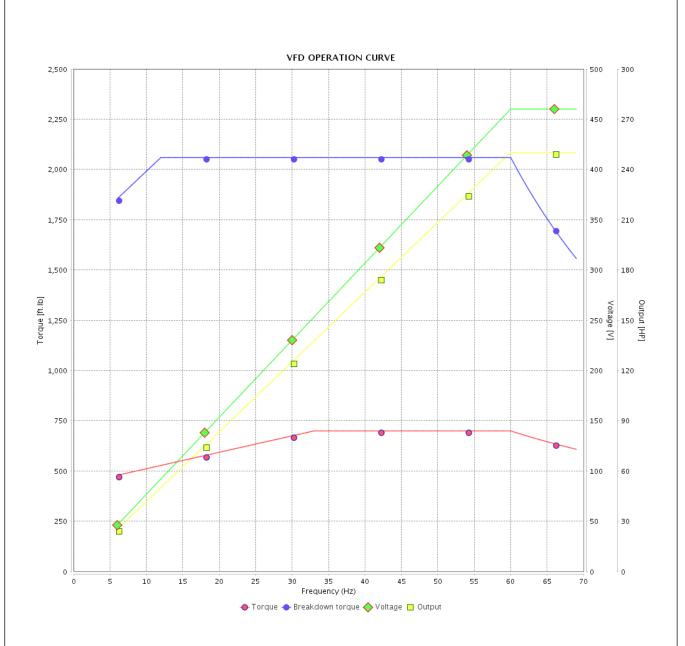
01/06/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 13500618

Catalog #: 25018ET3GKD449T-W22



Performance : 460 V 60 Hz 4P : 291 A Rated current Moment of inertia (J) **LRC** : 7.7 Duty cycle : Cont.(S1) : 735 ft.lb Insulation class Rated torque : F Locked rotor torque : 280 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1785 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by

