## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer		:				
Product line		: NEMA Premium Efficiency T Phase			Three- Product code :  Catalog # :	13500596 25012ET3GKD449T-W22
	Output       : 250 HP (185 kW)         Poles       : 6         Frequency       : 60 Hz         Rated voltage       : 460 V         Rated current       : 292 A         L. R. Amperes       : 1781 A         LRC       : 6.1x(Code G)         No load current       : 120 A         Rated speed       : 1185 rpm         Slip       : 1.25 %         Rated torque       : 1110 ft.lb         Locked rotor torque       : 240 %         Breakdown torque       : 240 %         Insulation class       : F         Service factor       : 1.15		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 21s (cold) 12s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 70.0 dB(A) : Direct On Line : 3023 lb		
Output  Efficiency (%)  Power Factor	25% 0.000 0.00	50% 95.0 0.68	75% 95.4 0.79	95.8 0.83	Foundation loads Max. traction Max. compression	: 5577 lb : 8600 lb
Bearing type Sealing Lubrication interv Lubricant amount Lubricant type Notes		: : : : : : : : : : : : : : : : : : : :	NU- W 70	<u>e end</u> 322 C3 /Seal 000 h 60 g Mo	Non drive end 6319 C3 WSeal 13000 h 45 g obil Polyrex EM	

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



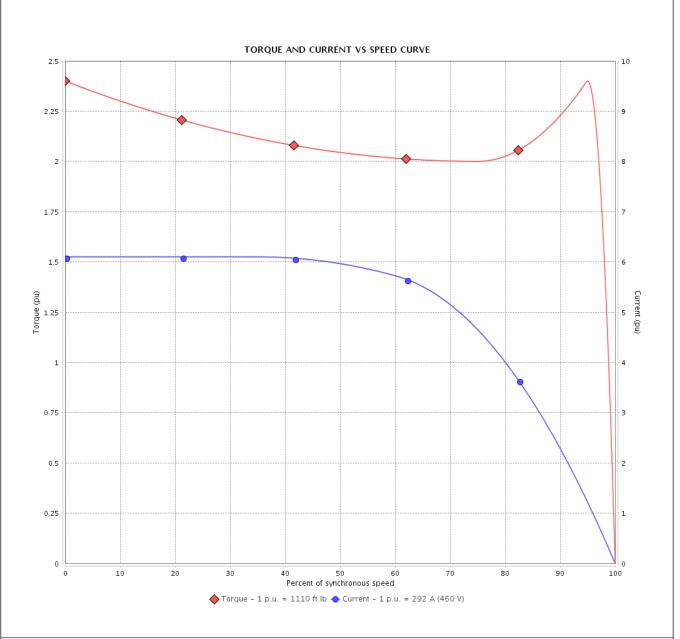
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 25012ET3GKD449T-W22

13500596



Performance : 460 V 60 Hz 6P Rated current : 292 A Moment of inertia (J) : Cont.(S1) **LRC** : 6.1 Duty cycle : F : 1110 ft.lb Insulation class Rated torque : 240 % Service factor Locked rotor torque : 1.15 : 80 K Breakdown torque : 240 % Temperature rise Rated speed : 1185 rpm Design : A

Locked rotor time : 21s (cold) 12s (hot)

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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

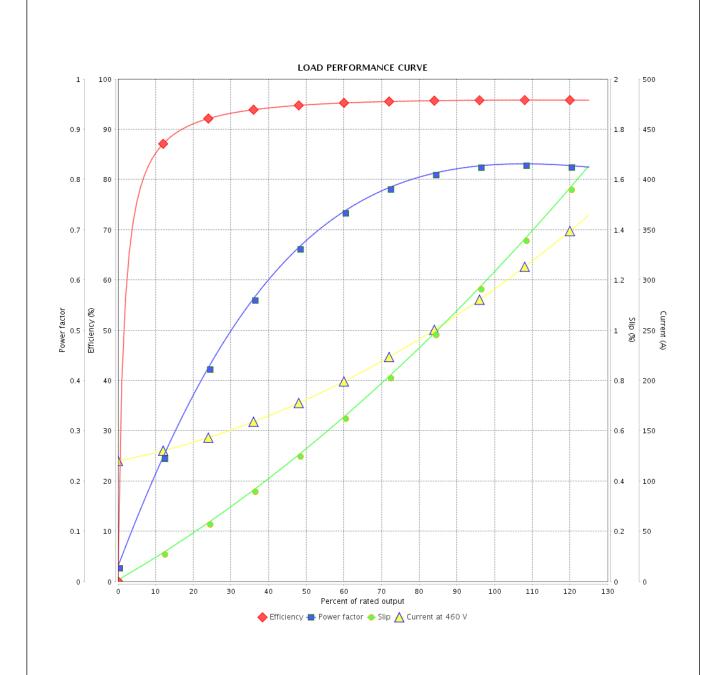


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13500596

Phase

Catalog #: 25012ET3GKD449T-W22



Performance		60 V 60 Hz 6P				
Rated current : 2		2 A Moment of inertia (J)				
LRC : 6.1		.1	Duty cycle		: Cont.(S1)	
Rated torque : 1		110 ft.lb	Insulation class		: F	
Locked rotor torque : 2		40 %	Service factor		: 1.15	
Breakdown torque		40 %	Temperature rise		: 80 K	
Rated speed	: 1	185 rpm Design		: A		
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



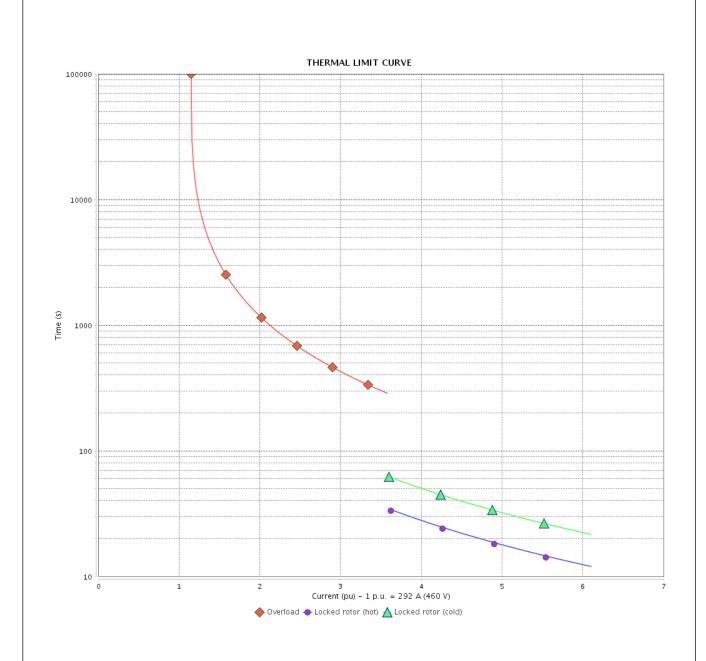
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Product line	: N	NEMA Premium Efficienc hase	y Three-	Product code :	13500596	
				Catalog # :	25012ET3Gk	(D449T-W22
Performance		60 V 60 Hz 6P	N/	finantio (IV		
Rated current LRC	: 6.		Duty cycle	f inertia (J)	: Cont.(S1)	
Rated torque	: 11	110 ft.lb 40 %	Insulation Service fa	class	: F : 1.15	
Locked rotor torque Breakdown torque	: 24	40 %	Temperati		: 80 K	
Rated speed		185 rpm	Design		: 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



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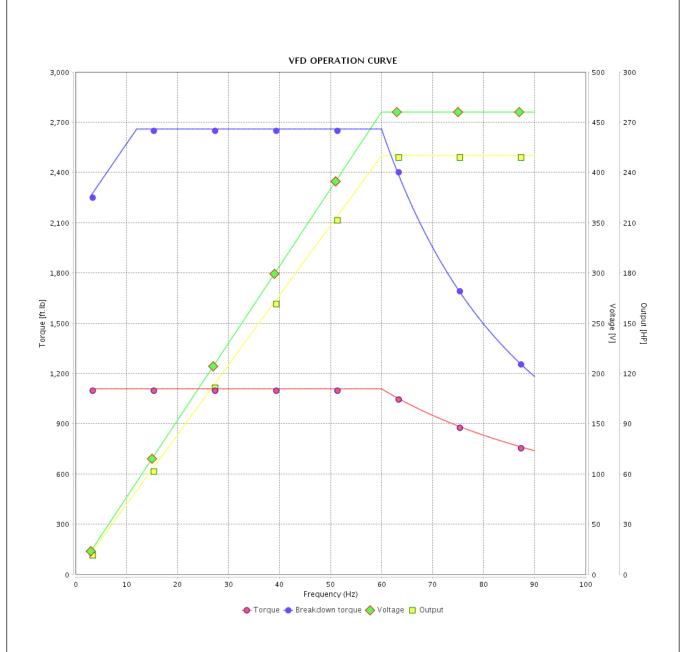
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Product line : NEMA Premium Efficiency Three-

Phase

Product code: 13500596

Catalog #: 25012ET3GKD449T-W22



Performance : 460 V 60 Hz 6P : 292 A Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.1 Insulation class : 1110 ft.lb : F Rated torque Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by

