DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:				
Product line		: NEN Phase		m Efficiency	Three- Product code : Catalog # :	11679187 45036ET3G449TS-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		: 450 : 2 : 60 F : 460 : 475 : 342	V A O A (Code G) A 5 rpm % ft.lb %	W)	Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 46s (cold) 26s (hot) : 105 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 88.0 dB(A) : Direct On Line : 3332 lb
Output Efficiency (%) Power Factor	25% 0.000 0.00	50% 95.4 0.84	75% 95.8 0.89	100% 95.8 0.91	Foundation loads Max. traction Max. compression	: 2916 lb : 6247 lb
Bearing type Sealing Lubrication interv Lubricant amount Lubricant type Notes		: : : : : : : : : : : : : : : : : : : :	63 W 40	<u>e end</u> 14 C4 /Seal 000 h 27 g Mo	Non drive end 6314 C4 WSeal 4000 h 27 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

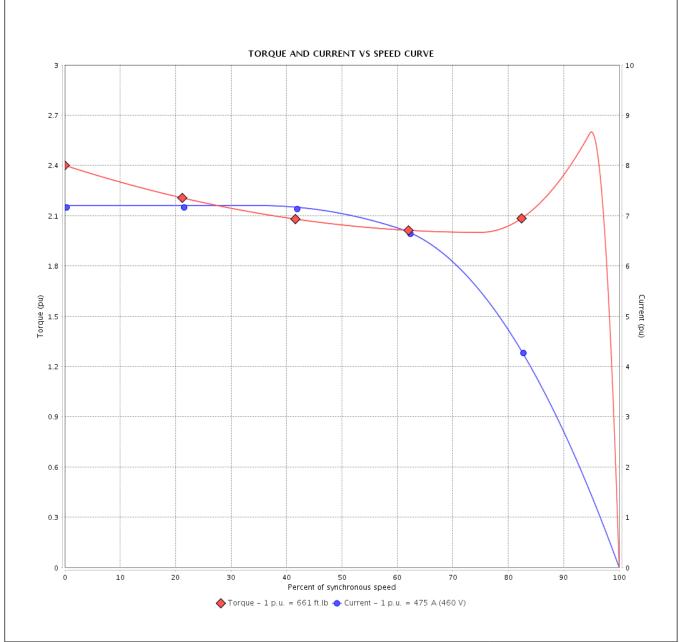


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11679187

Phase

Catalog #: 45036ET3G449TS-W22



Performance : 460 V 60 Hz 2P Rated current : 475 A Moment of inertia (J) : Cont.(S1) **LRC** : 7.2 Duty cycle Insulation class Rated torque : 661 ft.lb : F Service factor Locked rotor torque : 240 % : 1.15 : 260 % : 105 K Breakdown torque Temperature rise Rated speed : 3575 rpm Design : B

Locked rotor time : 46s (cold) 26s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

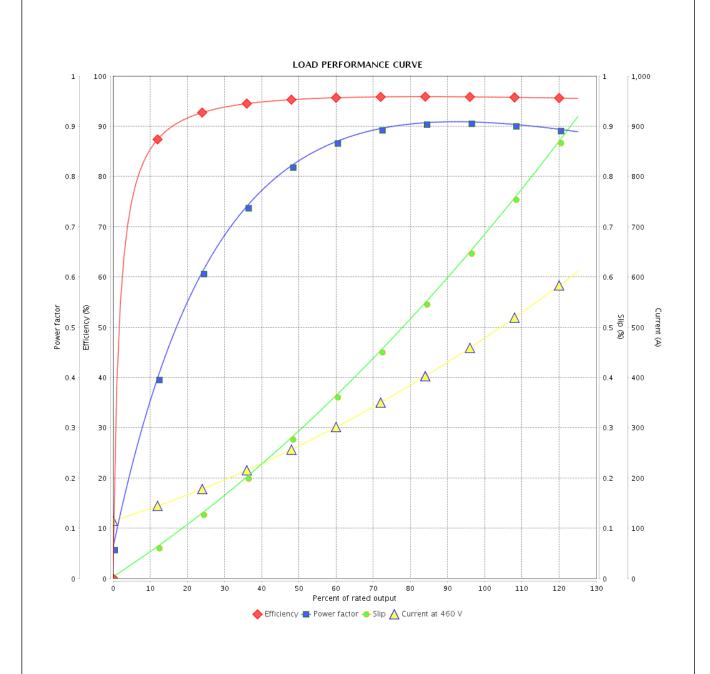


Customer

Product line : NEMA Premium Efficiency Three- Product code : 11679187

Phase

Catalog #: 45036ET3G449TS-W22



Performance	:	460 V 60 Hz 2P				
Rated current : 475 A		Moment of inertia (J)				
LRC	:	7.2	Duty cycle	Duty cycle		
Rated torque	:	661 ft.lb	Insulation	class	: F	
Locked rotor torque	e ::	240 %	Service factor		: 1.15	
Breakdown torque	::	260 %	Temperature rise		: 105 K	
Rated speed	:	3575 rpm	Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



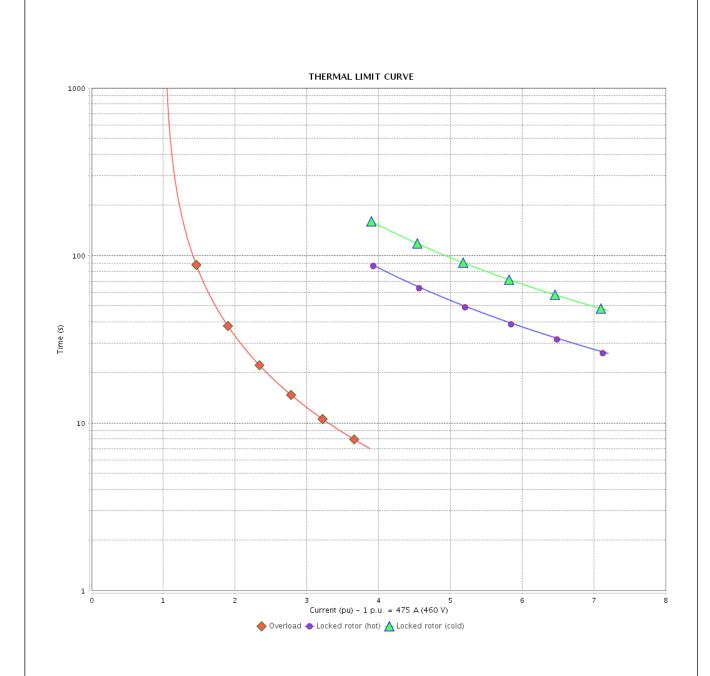
Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11679187 45036ET3G4	149TS-W22
Performance Rated current LRC Rated torque Locked rotor torc	jue	: 460 V 60 Hz 2P : 475 A : 7.2 : 661 ft.lb : 240 % : 260 %	Duty cycle Insulation Service fa	class ctor	: Cont.(S1) : F : 1.15 : 105 K	
Breakdown torqu Rated speed Heating constant	:	: 250 % : 3575 rpm	Temperati Design	uic iisc	: 105 K	
Cooling constant		Ohana O		Daví I	01- 1-1	
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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



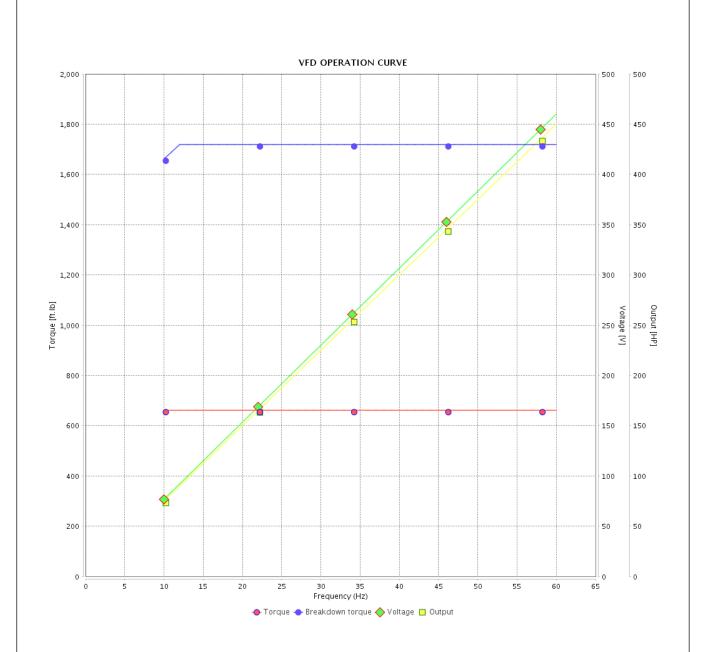
Customer

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 45036ET3G449TS-W22

11679187



Performance	: 40	60 V 60 Hz 2P					
Rated current :		5 A Moment of inertia (J)					
LRC ::		.2	Duty cycle	Duty cycle		: Cont.(S1)	
Rated torque :		61 ft.lb	Insulation	Insulation class		: F	
		40 %	Service fa	ctor	: 1.15		
Breakdown torque		60 %	Temperati	Temperature rise			
Rated speed	: 3	575 rpm	Design		: B		
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