DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:				
Product line		: NEN Phas		m Efficiency	Three- Product code : Catalog # :	13500513 50012ET3GKD580Z-W22
Frame : 586/7TZ Output : 500 HP (370 kW) Poles : 6 Frequency : 60 Hz Rated voltage : 460 V Rated current : 603 A L. R. Amperes : 3618 A LRC : 6.0x(Code G) No load current : 240 A Rated speed : 1192 rpm Slip : 0.67 % Rated torque : 2200 ft.lb Locked rotor torque : 2200 % Breakdown torque : 210 % Insulation class : F Service factor : 1.15		kW)	Catalog #: 50012ET3GKD580Z-V Locked rotor time			
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	95.8	96.2	96.2	Max. traction	: 7449 lb
Power Factor	0.00	0.66	0.76	0.80	Max. compression	: 11853 lb
Bearing type : NU-324 C3 Sealing : Taconite Labyrinth Lubrication interval : 6000 h Lubricant amount : 72 g Lubricant type : N		-324 C3 e Labyrinth 000 h 72 g	Non drive end 6319 C3 Taconite Labyrinth 13000 h 45 g obil Polyrex EM			
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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

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Customer	

Thermal	protection
HIIGHIIIAI	protection

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

Space heater information

Voltage: 200 - 240 V

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



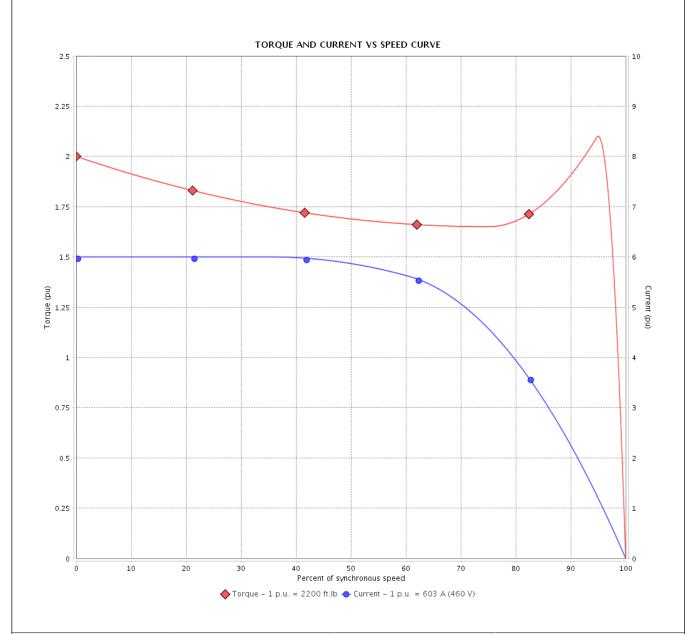
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

roduct code: 13500513

Catalog # : 50012ET3GKD580Z-W22



Performance : 460 V 60 Hz 6P Rated current : 603 A Moment of inertia (J) **LRC** : 6.0 Duty cycle : Cont.(S1) : 2200 ft.lb Insulation class : F Rated torque : 200 % Locked rotor torque Service factor : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1192 rpm

Locked rotor time : 45s (cold) 25s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

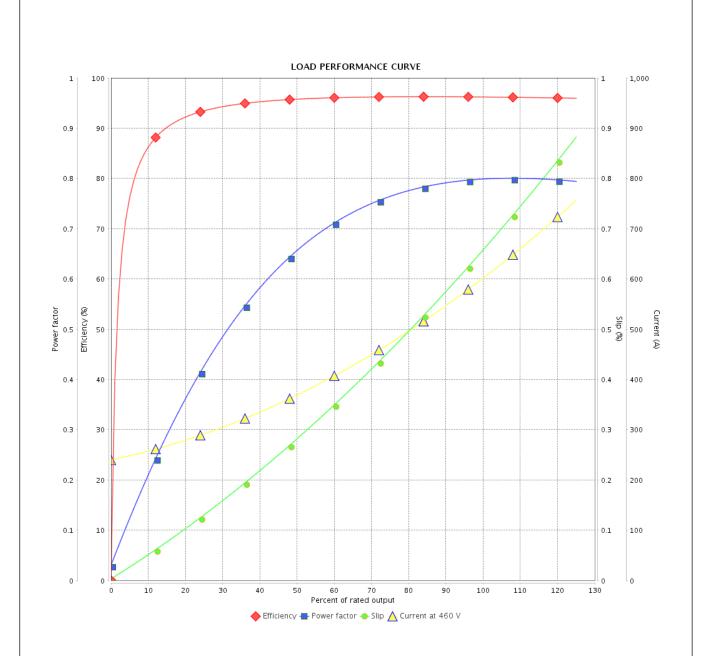


Customer :

Product line : NEMA Premium Efficiency Three- Product code : 13500513

Phase

Catalog # : 50012ET3GKD580Z-W22



Performance	: 460 V 60 Hz 6P				
Rated current	: 603 A	Moment of inertia (J)			
LRC	: 6.0	Duty cycle : Cont.(S1)			
Rated torque	: 2200 ft.lb	Insulation class : F			
Locked rotor torque	: 200 %	Service factor : 1.15			
Breakdown torque	: 210 %	Temperature rise	: 80 K		
Rated speed	: 1192 rpm				
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



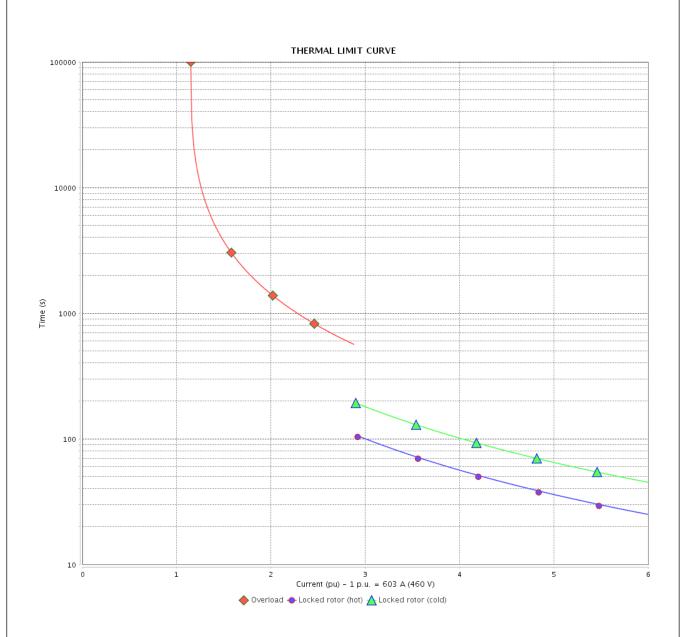
Customer	:					
Product line		NEMA Drawing Efficien	Three	Droduct code :	40500540	
Product line		NEMA Premium Efficiency hase		Product code :	13500513	
				Catalog # :	50012ET3G	(D580Z-W22
Performance	: 4	60 V 60 Hz 6P				
Rated current		03 A	Moment o	of inertia (J)	. 0 + (0.4)	
LRC Rated torque	: 6 : 2	.u 200 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor tord	que : 2	00 %	Service fa	actor	: 1.15	
Breakdown torque Rated speed		10 % 192 rpm	Temperat	ure rise	: 80 K	
		· · k ····				
Heating constan 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



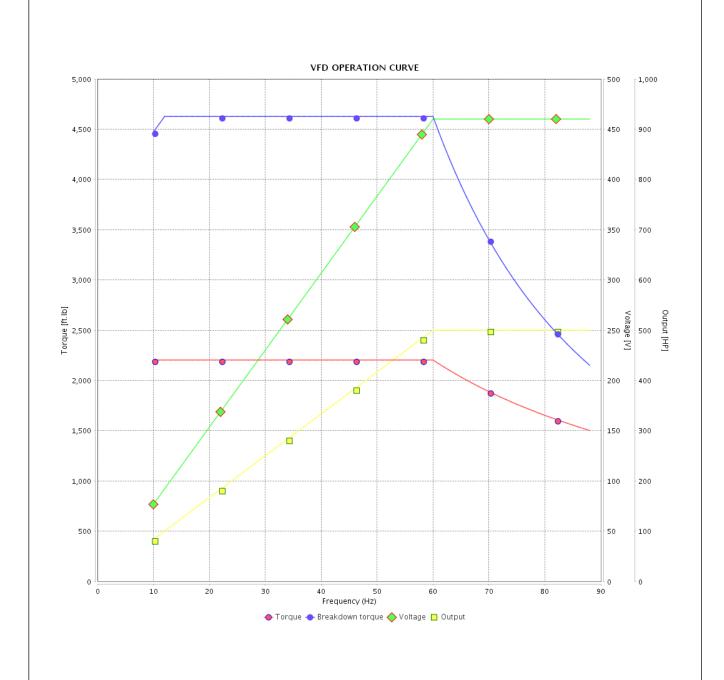
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 13500513

Catalog #: 50012ET3GKD580Z-W22



Performance	: 460 V 60 Hz 6P			
Rated current	: 603 A	Moment of inertia (J)		
LRC	: 6.0	Duty cycle	: Cont.(S1)	
Rated torque	: 2200 ft.lb	Insulation class	:F	
Locked rotor torque	: 200 %	Service factor	: 1.15	
Breakdown torque	: 210 %	Temperature rise	: 80 K	
Rated speed	: 1192 rpm			

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