DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 13500652 Catalog #: 35012ET3GKD580Z-W22 Frame : 586/7TZ Locked rotor time : 52s (cold) 29s (hot) Output : 350 HP (260 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 460 V : 1000 m.a.s.l. Altitude Rated current : 425 A Protection degree : IP55 L. R. Amperes : 2593 A Cooling method : IC411 - TEFC LRC : 6.1x(Code G) Mounting : F-1 No load current : 190 A Rotation¹ : Both (CW and CCW) Rated speed : 1193 rpm Noise level² : 77.0 dB(A) Starting method Slip : 0.58 % : Direct On Line Rated torque : 1540 ft.lb Approx. weight³ : 3784 lb Locked rotor torque : 220 % Breakdown torque : 250 % Insulation class : F Service factor : 1.15 Design : A 25% 50% 75% 100% Foundation loads Output Efficiency (%) 0.000 95.4 95.8 95.8 Max. traction : 6144 lb Power Factor 0.00 0.66 0.75 0.80 Max. compression : 9928 lb Drive end Non drive end NU-324 C3 Bearing type 6319 C3 Taconite Labyrinth Taconite Labyrinth Sealing Lubrication interval 6000 h 13000 h Lubricant amount 72 g 45 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



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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



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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 13500652 Catalog #: 35012ET3GKD580Z-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 1540 ft.lb ◆ Current - 1 p.u. = 425 A (460 V) Performance : 460 V 60 Hz 6P Rated current : 425 A Moment of inertia (J) **LRC** : 6.1 Duty cycle : Cont.(S1) : 1540 ft.lb Insulation class : F Rated torque : 220 % Locked rotor torque Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1193 rpm Design : A Locked rotor time : 52s (cold) 29s (hot) Rev. Performed Checked Date **Changes Summary** Performed by

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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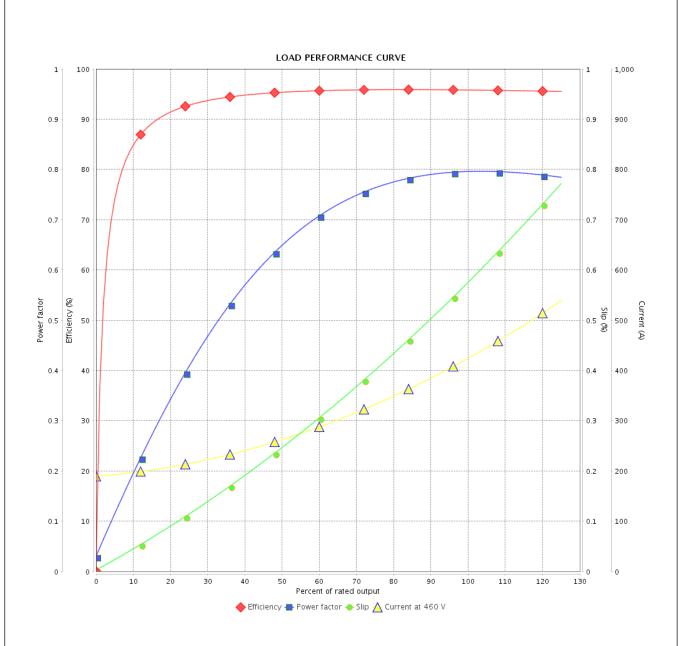
13/04/2022

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Product code: 13500652

Catalog # : 35012ET3GKD580Z-W22



Performance : 460 V 60 Hz 6P Rated current : 425 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.1 : 1540 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1193 rpm Design : A Rev. Performed Checked Date **Changes Summary** Performed by

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



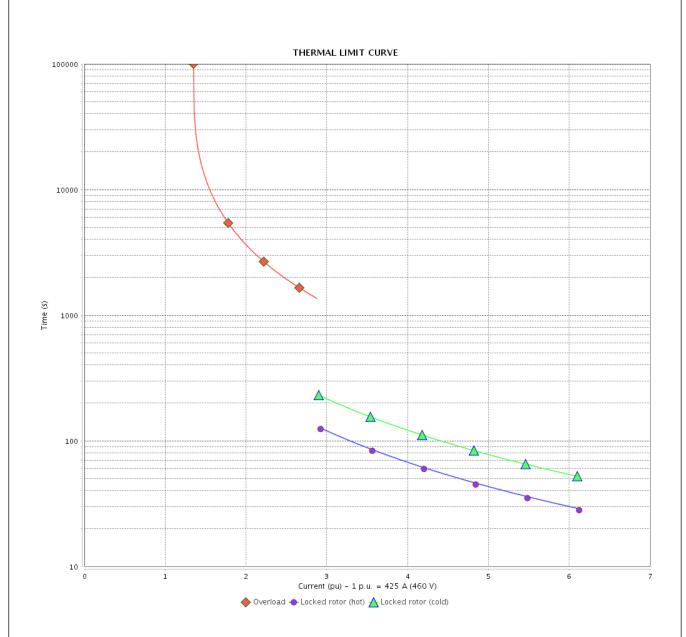
Customer	:					
Product line		NEMA Premium Efficiency ⁻ hase		Product code : Catalog # :	13500652 35012ET3G	KD580Z-W22
Performance Rated current		60 V 60 Hz 6P 25 A	Moment o	of inertia (J)		
LRC Rated torque Locked rotor tord Breakdown torque Rated speed	: 6. : 15 que : 22 ue : 25		Duty cycle Insulation Service fa Temperation Design	e class actor	: Cont.(S1) : F : 1.15 : 80 K : A	
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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

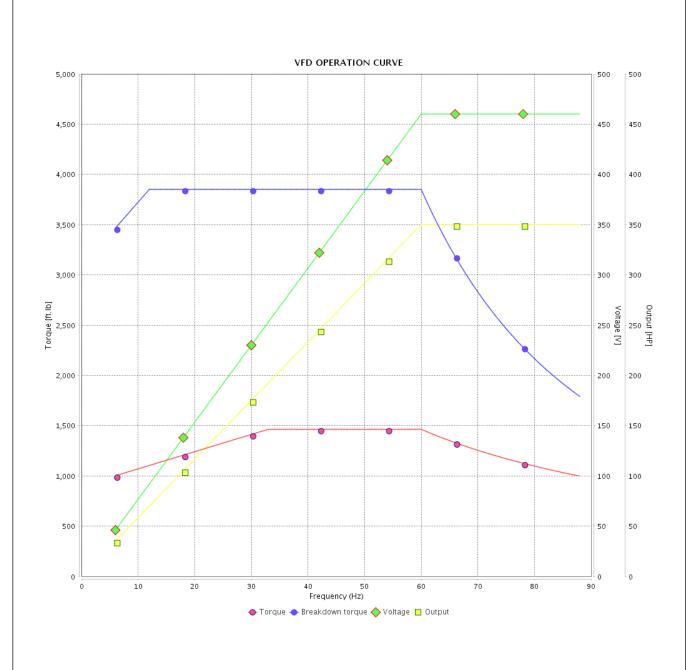


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13500652

Phase

Catalog #: 35012ET3GKD580Z-W22



Performance	: 4	460 V 60 Hz 6P				
Rated current	: 4	425 A	Moment o	f inertia (J)	-	
LRC		6.1	Duty cycle		: Cont.(S1)	
Rated torque		1540 ft.lb	Insulation class		:F	
Locked rotor torque		220 %	Service factor		: 1.15	
Breakdown torqu	ie : 2	250 %	Temperature rise		: 80 K	
Rated speed	: '	1193 rpm	Design		: A	
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