DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:				
Product line		: NEN Phase		m Efficiency ⁻	Γhree- Product code : Catalog # :	13500656 35018ET3GKD580Z-W22
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Insulation class Service factor Design		: 4 : 60 H : 460 : 414 : 293	HP (260 k Iz V A O A (Code H) A 1 rpm % O 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	: 45s (cold) 25s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 78.0 dB(A) : Direct On Line : 3473 lb
Output Efficiency (%) Power Factor	25% 0.000 0.00	50% 95.4 0.67	75% 95.8 0.77	100% 96.2 0.82	Foundation loads Max. traction Max. compression	: 3830 lb : 7303 lb
Bearing type Sealing Lubrication interva Lubricant amount Lubricant type		: : : : : : : : : : : : : : : : : : : :	NU- Taconite 30	e end 324 C3 e Labyrinth 000 h 72 g Mo	Non drive end 6319 C3 Taconite Labyrin 8000 h 45 g bil Polyrex EM	nth

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: 13500656 Catalog #: 35018ET3GKD580Z-W22 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 1030 ft.lb ◆ Current - 1 p.u. = 414 A (460 V) Performance : 460 V 60 Hz 4P Rated current : 414 A Moment of inertia (J) **LRC** : 7.1 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 1030 ft.lb Locked rotor torque : 260 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1791 rpm Design : A Locked rotor time : 45s (cold) 25s (hot) Date Performed Checked Rev. **Changes Summary**

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

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Product line : NEMA Premium Efficiency Three- Product co

Phase

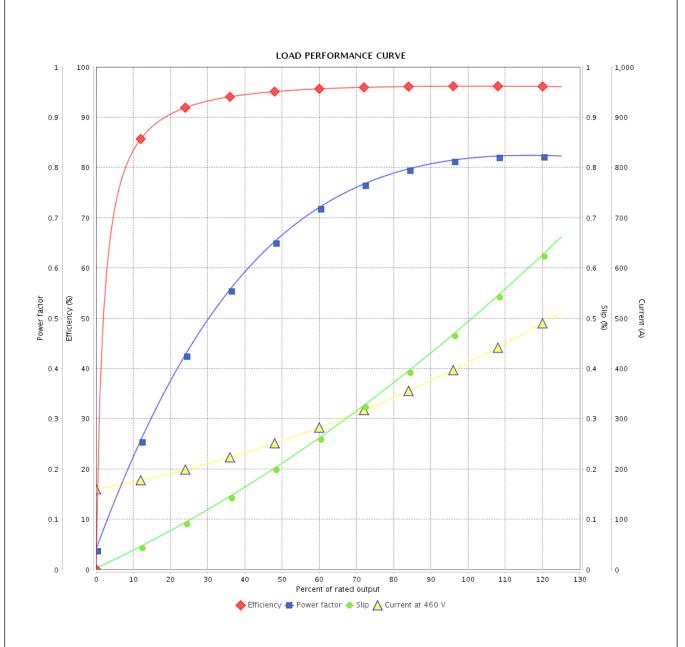
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Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 414 A : 7.1 : 1030 ft.lb : 260 % : 260 % : 1791 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: Cont.(S1) : F : 1.15 : 80 K : A	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



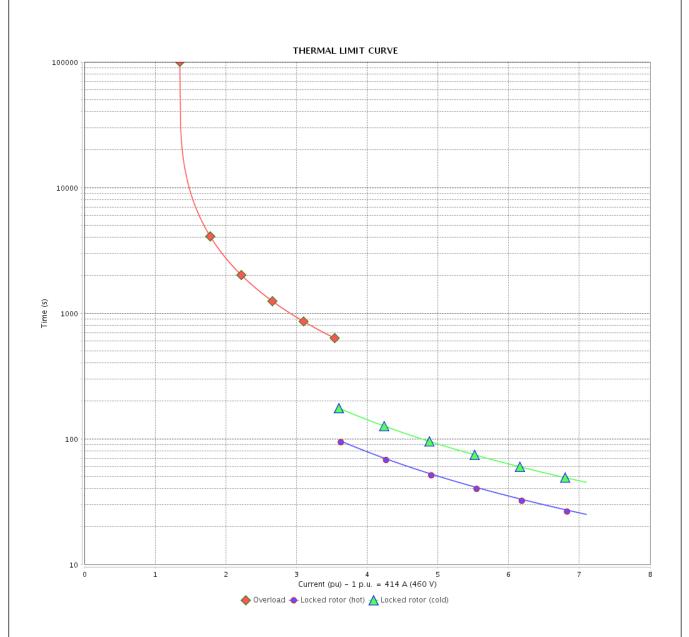
Customer	:					
Product line	: ì Pi	NEMA Premium Efficiency [·] hase		Product code : Catalog # :	13500656 35018ET3G	KD580Z-W22
Performance Rated current LRC	: 41 : 7.		Duty cycle	of inertia (J)	: Cont.(S1)	
Rated torque Locked rotor torc Breakdown torqu Rated speed Heating constant	que : 26 ue : 26 : 17	030 ft.lb 60 % 60 % 791 rpm	Insulation Service fa Temperati Design	ictor	: F : 1.15 : 80 K : A	
Cooling constant						
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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

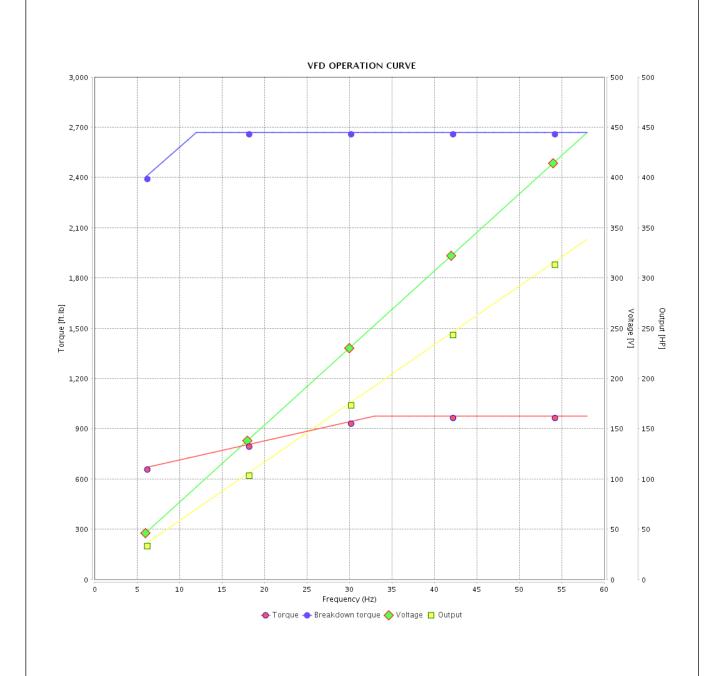


Customer

Product line : NEMA Premium Efficiency Three- Product code : 13500656

Phase

Catalog #: 35018ET3GKD580Z-W22



Performance		: 460 V 60 Hz 4P				
Rated current : 414 A		Moment of inertia (J)				
LRC	:	: 7.1		Duty cycle		
Rated torque : 1030 ft.lb		Insulation	Insulation class			
Locked rotor torqu	ocked rotor torque : 260 % Service factor		ctor	: 1.15		
Breakdown torque Rated speed		260 %	Temperati	Temperature rise		
		1791 rpm	'91 rpm Design		: A	
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