## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer		: 030	: 03012ST3QIE326TC-W22						
Product line			2 IEEE 841 ency Three	NEMA Prem -Phase	nium Product code :  Catalog # :	12039624 03012ST3QIE326TC-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 Moment of inertia (J) Design		: 30 H : 6 : 60 H : 460 : 35.8 : 215 : 6.0x : 15.0 : 118 : 1.67 : 132 : 220 : 250 : F	0 V .8 A 5 A 0x(Code G) .0 A 80 rpm 67 % 2 ft.lb 0 %		Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 37s (cold) 21s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 62.0 dB(A) : Direct On Line : 614 lb			
Output	25%	50%	75%	100%	Foundation loads				
Efficiency (%) Power Factor	91.5 0.41	91.7 0.65	93.0 0.77	93.0 0.83	Max. traction Max. compression	: 1174 lb : 1788 lb			
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		: : : :	<u>Drive end</u> 6312 C3 Inpro/Seal 20000 h 21 g		Non drive end 6212 C3 Inpro/Seal 20000 h 13 g Iobil 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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## TORQUE AND CURRENT VS SPEED CURVE

#### Three Phase Induction Motor - Squirrel Cage

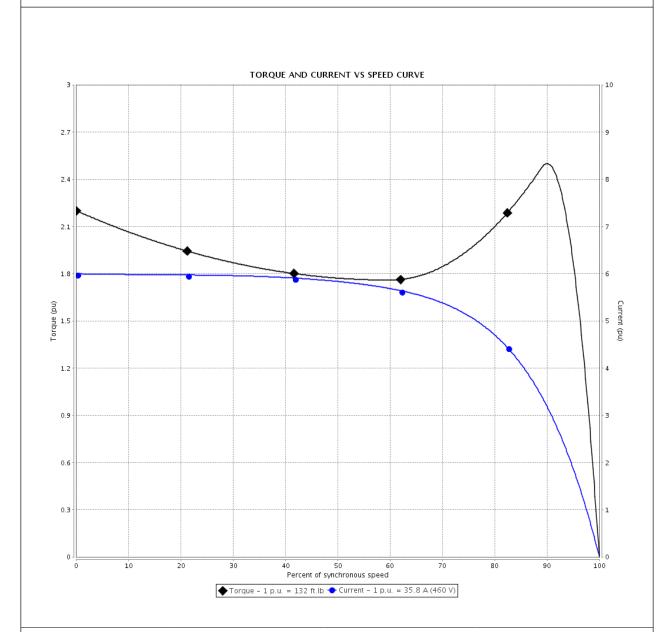


Customer : 03012ST3QIE326TC-W22

Product line : W22 IEEE 841 NEMA Premium Product code : 12039624

Efficiency Three-Phase

Catalog #: 03012ST3QIE326TC-W22



Performance : 460 V 60 Hz 6P

Rated current : 35.8 A Moment of inertia (J) : 13.2 sq.ft.lb LRC : 6.0 Duty cycle : Cont.(S1) Insulation class Rated torque : 132 ft.lb : F : 220 % Service factor Locked rotor torque : 1.25

Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

Locked rotor time : 37s (cold) 21s (hot)

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# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage

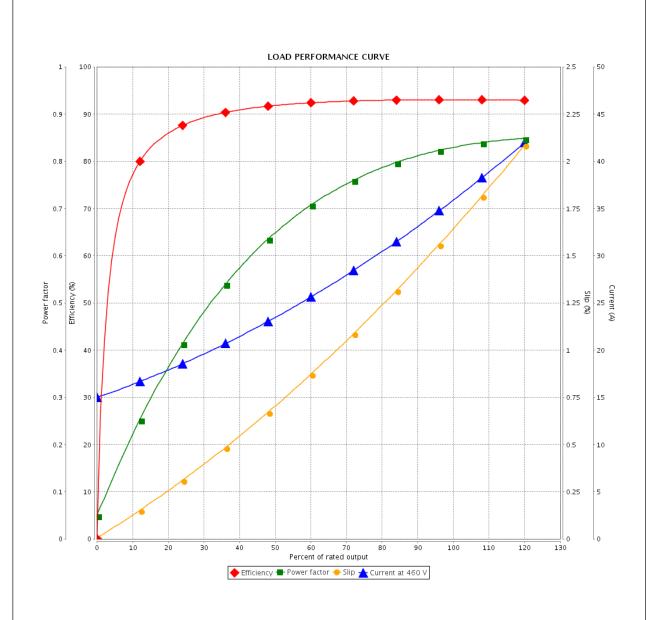


Customer : 03012ST3QIE326TC-W22

Product line : W22 IEEE 841 NEMA Premium Product code : 12039624

Efficiency Three-Phase

Catalog #: 03012ST3QIE326TC-W22



Performance	: 4	60 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6 : 1 ue : 2 e : 2	: 35.8 A : 6.0 : 132 ft.lb : 220 % : 250 % : 1180 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 13.2 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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# THERMAL LIMIT CURVE

## Three Phase Induction Motor - Squirrel Cage



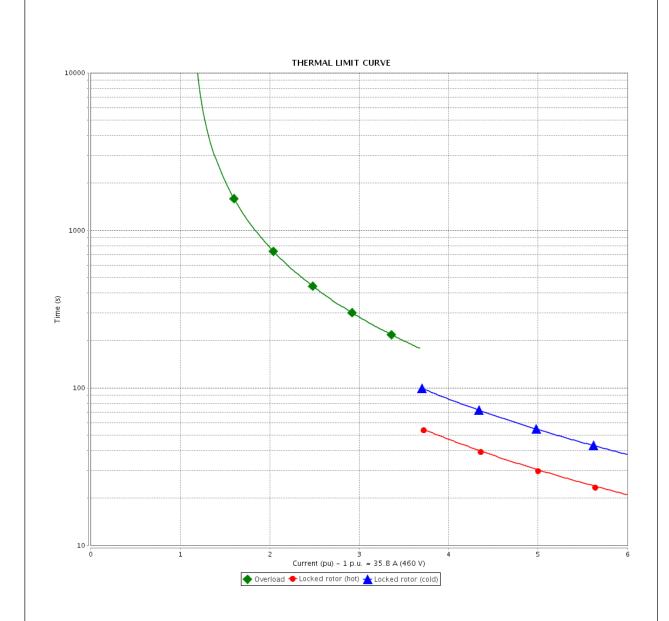
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Customer	:	03012ST3QIE326TC-W22					
Product line		W22 IEEE 841 NEMA Prem	iium l	Product code :	12039624	12039624	
	_	indicately trace trade	(	Catalog # :	03012ST3QIE	326TC-W22	
Performance	: 4	60 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque		5.8 A i.0 32 ft.lb 20 % 50 % 180 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 13.2 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		
		'	<u></u>				
Heating constant Cooling constant							
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer : 03012ST3QIE326TC-W22



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# VFD OPERATION CURVE

#### Three Phase Induction Motor - Squirrel Cage



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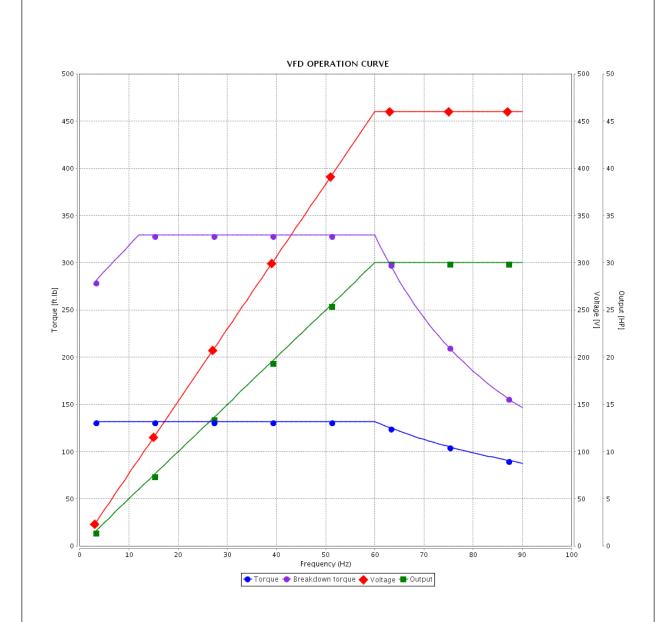
Product line : W22 IEEE 841 NEMA Premium Product code : 12039624

Efficiency Three-Phase

Catalog #: 03012ST3QIE326TC-W22

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Performance		: 460 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu	que	: 35.8 A : 6.0 : 132 ft.lb : 220 % : 250 %	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 13.2 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K	
Rated speed		: 1180 rpm	Design	Design		: B	
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