

STANDARD MODELS: GB-41039-G0O-M, GB-41039-G1O-M

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12447129 Three-Phase Catalog #: 04018ET3E324TC-W22 Frame : 324/6TC Locked rotor time : 36s (cold) 20s (hot) Output : 40 HP (30 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 208-230/460 V : 1000 m.a.s.l. Altitude Rated current : 104-94.2/47.1 A Protection degree : IP55 L. R. Amperes : 635-575/287 A Cooling method : IC411 - TEFC LRC : 6.1x(Code G) Mounting : F-1 No load current : 29.3-34.0/17.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1770 rpm Noise level² : 66.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 16.2 kgfm Approx. weight³ : 267 kg Locked rotor torque : 229 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.3861 kgm² Design : B 25% 50% 75% 100% Output Foundation loads 0.000 : 438 kgf Efficiency (%) 93.6 94.1 94.1 Max. traction Power Factor 0.00 0.80 0.85 : 705 kgf 0.72 Max. compression Non drive end Drive end 6212 C3 Bearing type 6312 C3 Sealing V'Ring V'Ring Lubrication interval 20000 h 20000 h Lubricant amount 21 g 13 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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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



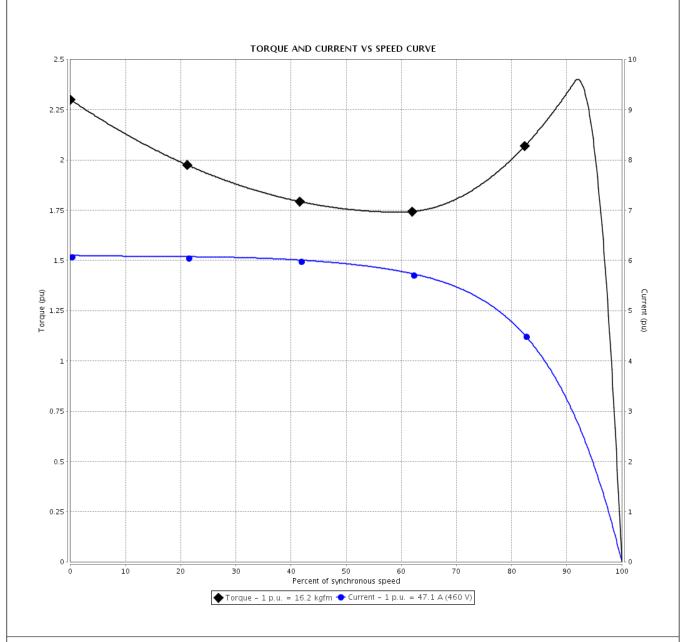
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12447129

Catalog #: 04018ET3E324TC-W22



Performance : 208-230/460 V 60 Hz 4P

Rated current : 104-94.2/47.1 A | Moment of inertia (J) : 0.3861 kgm²

LPC : 6.1 | Duty cycle : Cont (S1)

LRC Duty cycle : Cont.(S1) : F Insulation class Rated torque : 16.2 kgfm Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 36s (cold) 20s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

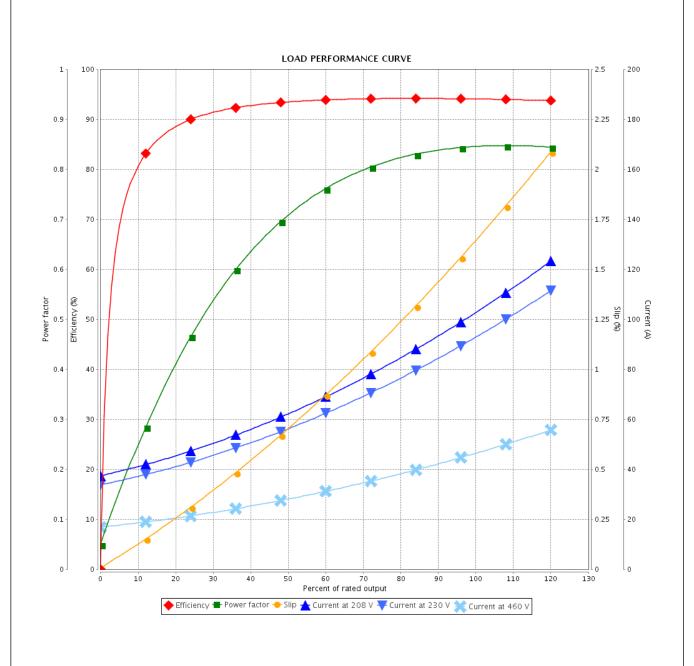


Customer

Product line : W22 NEMA Premium Efficiency Product code: 12447129

Three-Phase

Catalog #: 04018ET3E324TC-W22



Performance		: 208-230/460 V 60 Hz 4P						
Rated current		104-94.2/47.1 A	Moment of inertia (J)		: 0.3861 kgm²	!		
LRC		5.1	Duty cycle	Duty cycle				
Rated torque		16.2 kgfm	Insulation class		: F			
Locked rotor torqu	ie : 2	229 %	Service fa	Service factor				
Breakdown torque	: 2	240 %	Temperati	Temperature rise				
Rated speed	: 1	: 1770 rpm Design		: B				
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



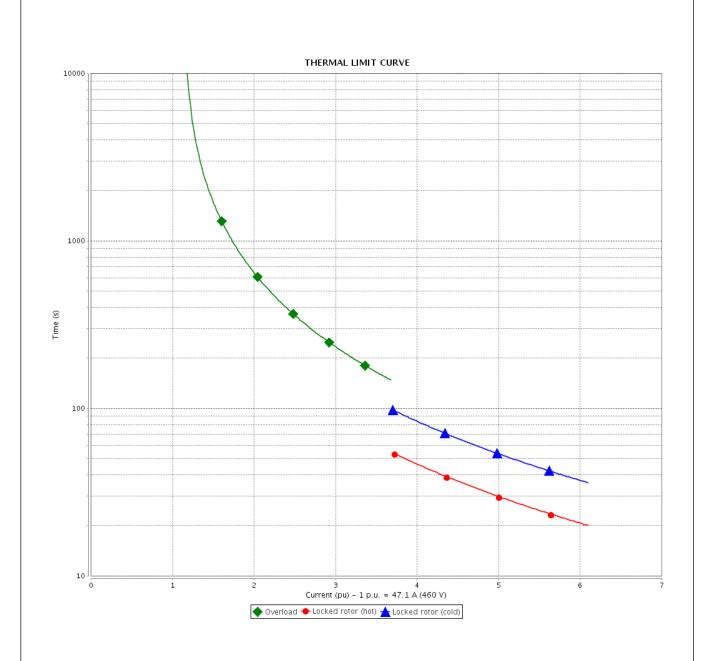
Customer	:					
Product line	: \	N22 NEMA Premium Efficie	ency I	Product code :	12447129	
	Th	nree-Phase	(Catalog # :	04018ET3E32	24TC-W22
Performance		08-230/460 V 60 Hz 4P	Mana 4	Finantia (I)	. 0. 0004 12	
Rated current LRC	: 10 : 6.	04-94.2/47.1 A 1	Moment of Duty cycle	і іпепіа (Ј)	: 0.3861 kgm² : Cont.(S1)	
Rated torque	: 16	6.2 kgfm	Insulation	class	: F	
Locked rotor tord Breakdown torqu		29 % 40 %	Service fac Temperatu		: 1.25 : 80 K	
Rated speed		770 rpm	Design		: B	
Heating constant	<u> </u>					
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 :

Checked by

Date

14/02/2020

Product line : W22 NEMA Premium Efficiency

Three-Phase

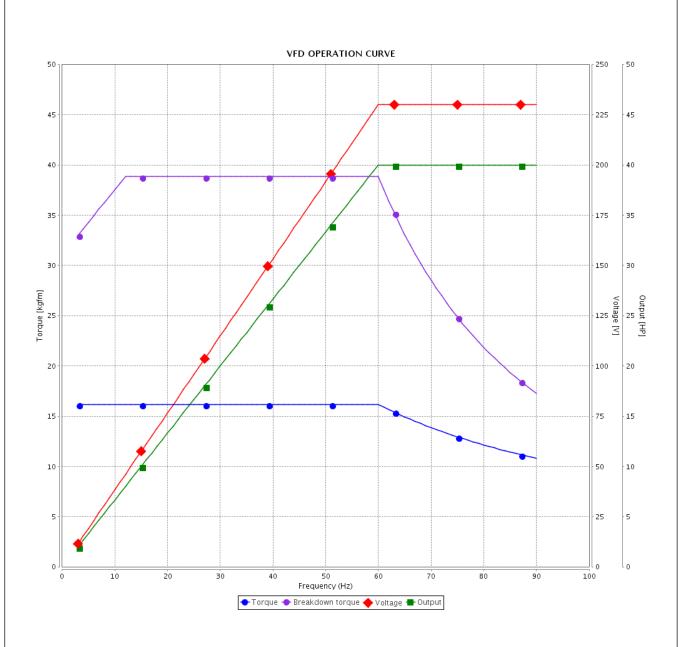
Product code: 12447129

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Revision



Performance		: 208-230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 104-94.2/47.1 A : 6.1 : 16.2 kgfm : 229 % : 240 % : 1770 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.3861 kgm ² : Cont.(S1) : F : 1.25 : 80 K : B	
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