

STANDARD MODELS: GB-41018-G0O-M, GB-41018-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: 12446945 Three-Phase Catalog #: 01518ET3E254TC-W22 Frame : 254/6TC Locked rotor time : 30s (cold) 17s (hot) Output : 15 HP (11 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 : 39.8-36.0/18.0 A Protection degree : IP55 L. R. Amperes : 255-230/115 A Cooling method : IC411 - TEFC LRC : 6.4x(Code G) Mounting : F-1 No load current : 11.7-13.6/6.80 A Rotation¹ : Both (CW and CCW) Rated speed : 1765 rpm Noise level² : 64.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 44.0 ft.lb Approx. weight³ : 316 lb Locked rotor torque : 229 % Breakdown torque : 270 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 2.62 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 90.2 : 489 lb Efficiency (%) 91.0 91.7 92.4 Max. traction Power Factor 0.44 0.78 0.83 : 805 lb 0.68 Max. compression Non drive end Drive end 6209 C3 Bearing type 6309 C3 V'Ring Sealing V'Ring Lubrication interval 20000 h 20000 h Lubricant amount 13 g 9 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



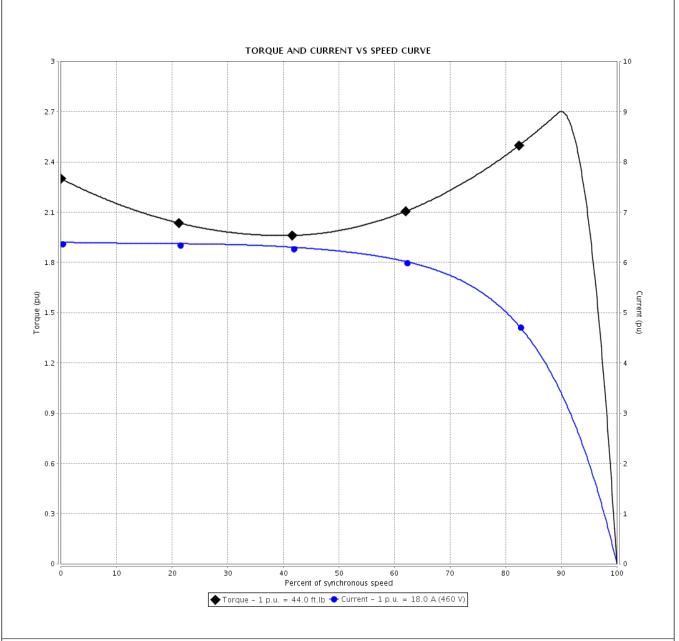
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446945

Catalog #: 01518ET3E254TC-W22



Performance : 208-230/460 V 60 Hz 4P Rated current : 39.8-36.0/18.0 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 44.0 ft.lb Insulation class Rated torque : F Locked rotor torque : 229 % Service factor : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 30s (cold) 17s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

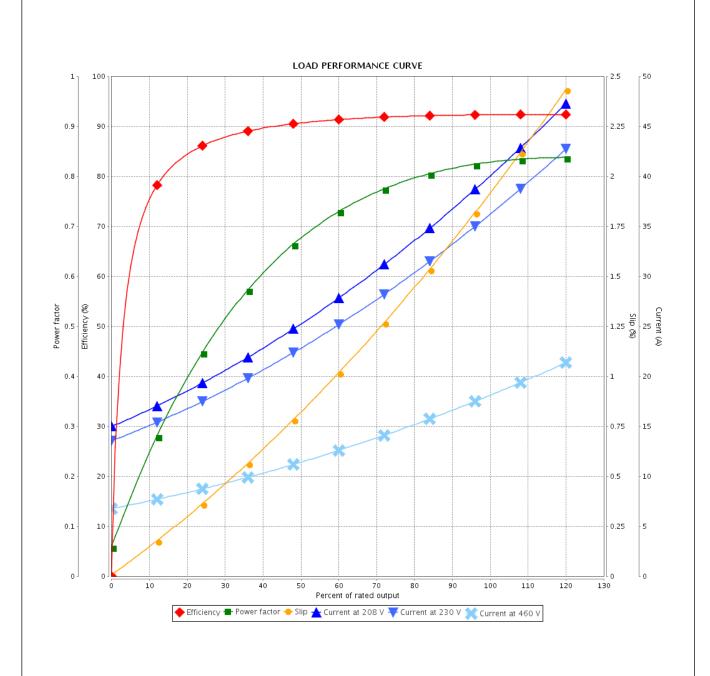


Customer

Product line : W22 NEMA Premium Efficiency Product code : 12446945

Three-Phase

Catalog #: 01518ET3E254TC-W22



Performance	: 20	08-230/460 V 60 Hz 4	Р			
Rated current	: 39	9.8-36.0/18.0 A	Moment o	Moment of inertia (J)		
LRC	: 6.	4	Duty cycle		: Cont.(S1)	
Rated torque	: 44	14.0 ft.lb Insulation class 229 % Service factor 270 % Temperature rise		class	: F	
Locked rotor torqu	ie : 22			ctor	: 1.25	
Breakdown torque	: 27			ıre rise	: 80 K	
Rated speed	: 1765 rpm		Design		: B	
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



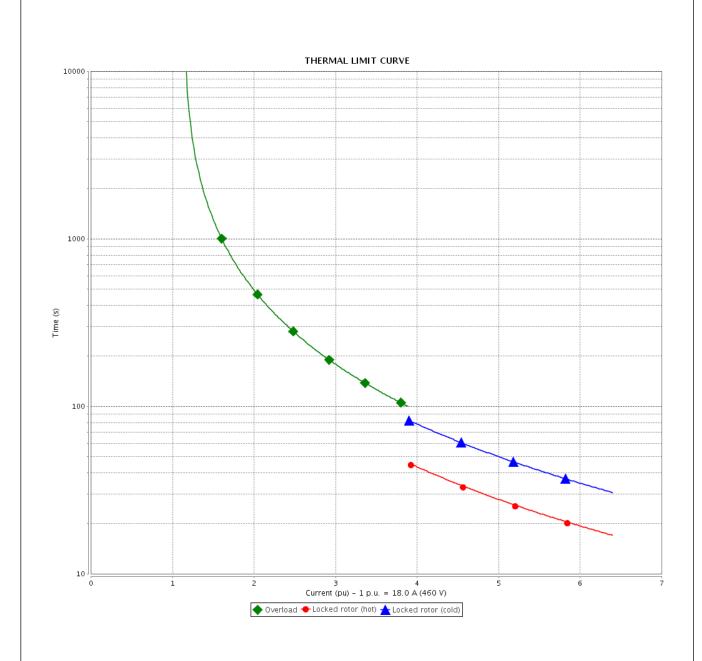
Customer	:				
Product line	: W22 NEMA Premium Effici	ency	Product code :	12446945	
	Three-Phase		Catalog # :	01518ET3E2	54TC-W22
				0.0.02.022	
Performance	: 208-230/460 V 60 Hz 4P	T			
Rated current LRC	: 39.8-36.0/18.0 A : 6.4	Moment of Duty cycle	f inertia (J)	: 2.62 sq.ft.lb : Cont.(S1)	
Rated torque	: 44.0 ft.lb	Insulation	class	: F	
Locked rotor torque	: 229 %	Service fa		: 1.25	
Breakdown torque Rated speed	: 270 % : 1765 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant					
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 :

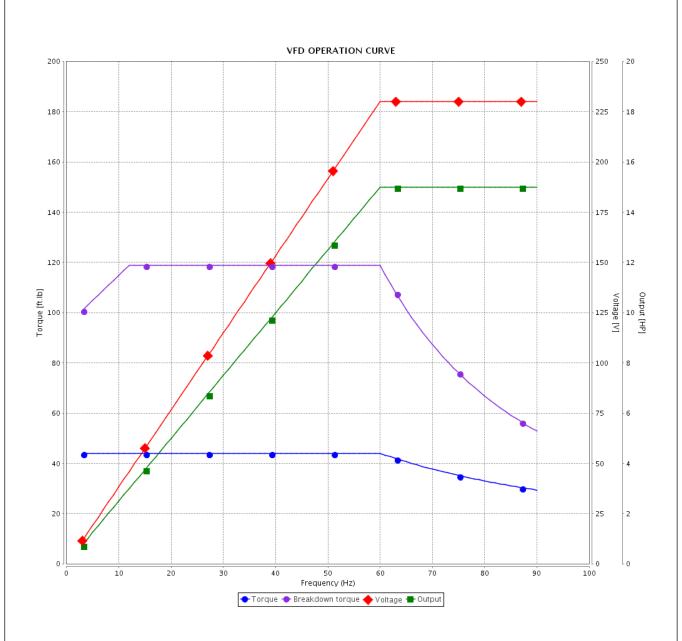
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12446945

Catalog #: 01518ET3E254TC-W22

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	.			·			
Performance	: 208-230/460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 39.8-36.0/18.0 A : 6.4 : 44.0 ft.lb : 229 % : 270 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 2.62 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K			
Rated speed Rev.	: 1765 rpm Changes Summary	Design	Performed	: B Checked	Date		
				011001100			
Performed by							
Checked by				Page	Revision		

23/08/2019

Date

