

STANDARD MODELS: GB-41022-G0O-M, GB-41022-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 Three-Product code: 11440444 Catalog #: 02018ET3E256TC-W22 Frame : 254/6TC Locked rotor time : 54s (cold) 30s (hot) Output : 20 HP (15 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 48.2/24.1 A Protection degree : IP55 L. R. Amperes : 333/166 A Cooling method : IC411 - TEFC LRC : 6.9x(Code H) Mounting : F-1 No load current : 19.2/9.60 A Rotation¹ : Both (CW and CCW) Rated speed : 1770 rpm Noise level² : 64.0 dB(A) Starting method Slip : 1.67 % : Direct On Line Rated torque : 59.3 ft.lb Approx. weight³ : 343 lb Locked rotor torque : 240 % Breakdown torque : 260 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 3.10 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads Efficiency (%) 91.7 92.4 93.0 Max. traction : 723 lb Power Factor 0.68 0.79 0.84 Max. compression : 1065 lb Losses at normative operating points (speed;torque), in percentage of rated output power P2 (0,5;1,0) P3 (0,25;1,0) P4 (0,9;0,5) P5 (0,5;0,5) P6 (0,5;0,25) P1 (0,9;1,0) P7 (0,25;0,25) 7.5 6.4 5.8 3.6 2.5 1.6 1.1 Drive end Non drive end Bearing type 6309 C3 6209 C3 Sealing V'Ring V'Ring Lubrication interval 20000 h 20000 h Lubricant amount 13 q 9 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 53.3A SF 1.15 SFA 61.3A

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



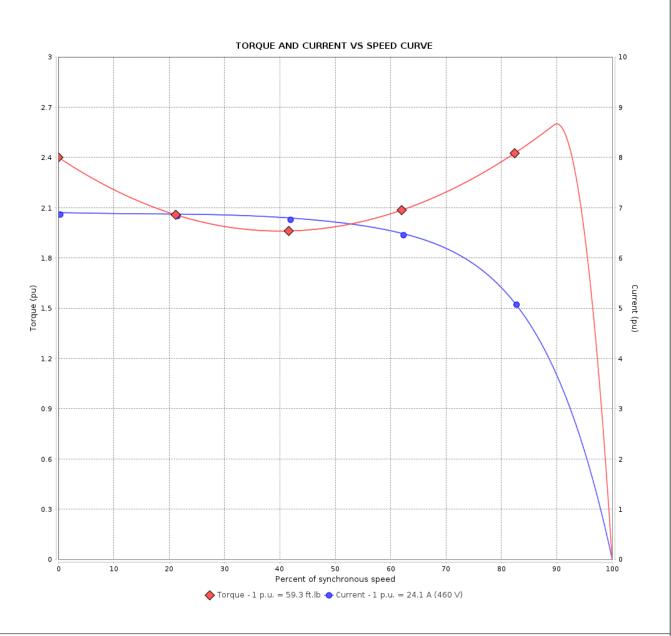
Customer :

Product line : W22 NEMA Premium Efficiency Three-

Phase

Product code: 11440444

Catalog #: 02018ET3E256TC-W22



Performance	: 230/460 V 60 Hz 4P		
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 48.2/24.1 A : 6.9 : 59.3 ft.lb : 240 % : 260 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K
Rated speed	: 1770 rpm	Design	: B
Looked votov times	. E4a (aald) 20a (bat)		

Locked rotor time : 54s (cold) 30s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



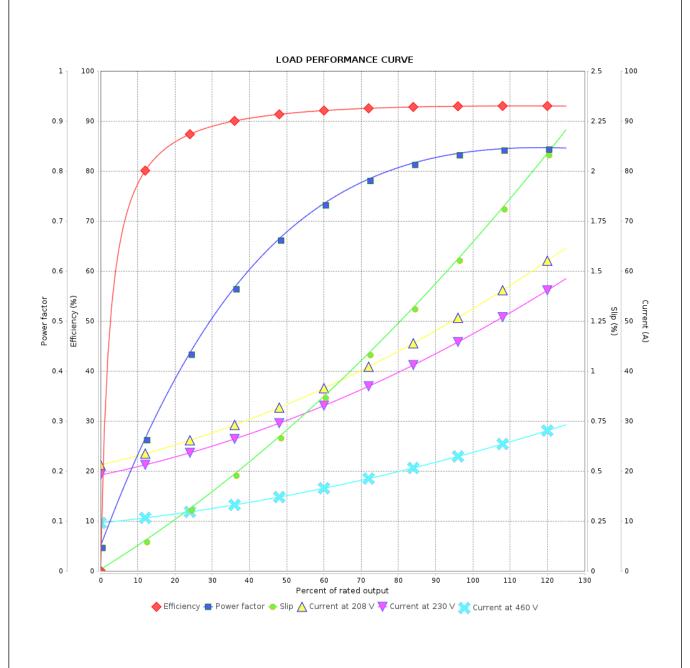
Customer :

Product line : W22 NEMA Premium Efficiency Three-

Phase

Product code: 11440444

Catalog #: 02018ET3E256TC-W22



Performance : 23		230/460 V 60 Hz 4P					
Rated current : 48		8.2/24.1 A	Moment o	Moment of inertia (J)			
LRC : 6.9		.9	Duty cycle	Duty cycle			
Rated torque : 59		9.3 ft.lb	Insulation class		: F		
Locked rotor torq	ue : 2	40 %	Service fa	Service factor			
		60 %	Temperati	Temperature rise			
Rated speed	: 1	770 rpm	Design		: B		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



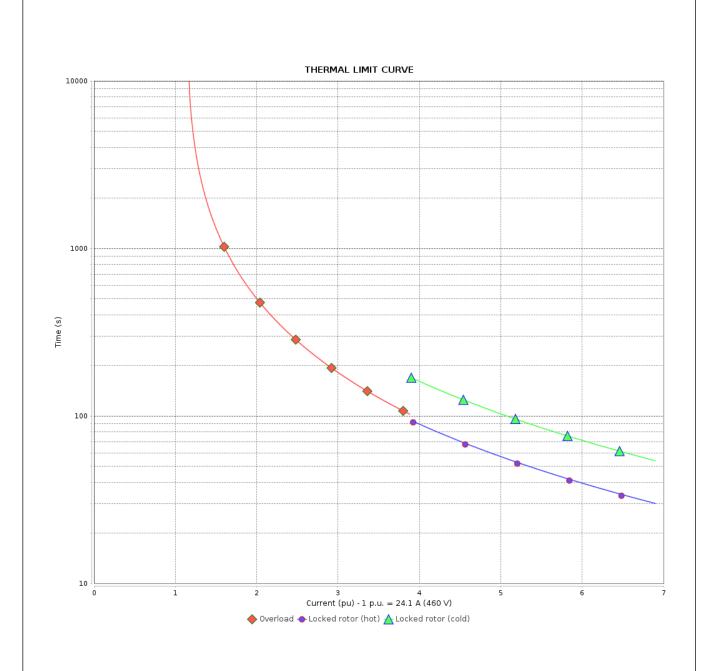
Customer	:			
Product line	: W22 NEMA Premium Efficiency	Three- Product code	: 11440444	
	Phase	Catalog # :	02018ET3E	256TC-W22
Performance	: 230/460 V 60 Hz 4P			
Rated current LRC	: 48.2/24.1 A : 6.9	Moment of inertia (J) Duty cycle	: 3.10 sq.ft.lb	
Rated torque	: 59.3 ft.lb	Insulation class	: Cont.(S1) : F	
Locked rotor tord		Service factor	: 1.25	
Breakdown torqı Rated speed	ue : 260 % : 1770 rpm	Temperature rise Design	: 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 :

Checked by

Date

13/11/2023

Product line : W22 NEMA Premium Efficiency Three-

Phase

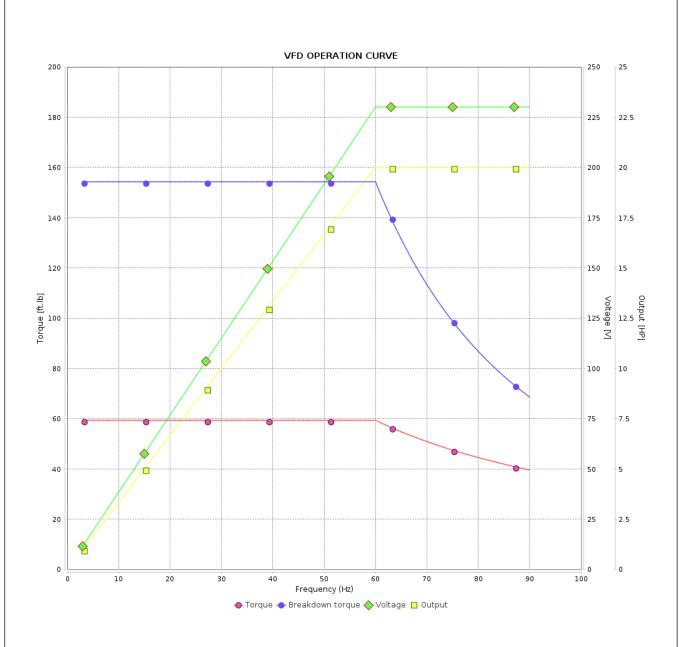
Product code: 11440444

Catalog #: 02018ET3E256TC-W22

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Revision



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 48.2/24.1 A : 6.9 : 59.3 ft.lb : 240 % : 260 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.10 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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