

NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY.

STANDARD MODELS: GB-41013-G00-M, GB-41013-G10-M

STATE	Released	07/16/2021	— DIMENSIONS ARE IN —— INCHES	1		$I_{i}$	7	$I_{\perp}$	I	F
DRAWN	bmanternach	6/23/2021	PROJECT:E331	7	5	+	+		r	5
CHECKED	JAG	07/16/2021	WAS:				L	II	ľ	

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DWG. NO. SHEET 1 OF 1

1 OF 1 REV. A.0

GPV-1013-041-U

07/16/2021

### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12447067 Three-Phase Catalog #: 02518ET3E284TC-W22 Frame : 284/6TC Locked rotor time : 43s (cold) 24s (hot) Output : 25 HP (18.5 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 : 59.0/29.5 A Protection degree : IP55 L. R. Amperes : 366/183 A Cooling method : IC411 - TEFC LRC : 6.2x(Code G) Mounting : F-1 No load current : 21.0/10.5 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 1765 rpm Noise level<sup>2</sup> : 63.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 74.4 ft.lb Approx. weight<sup>3</sup> : 422 lb Locked rotor torque : 240 % Breakdown torque : 270 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 5.11 sq.ft.lb Design : B 50% 75% 100% Output Foundation loads 93.0 : 809 lb Efficiency (%) 92.4 93.6 Max. traction Power Factor 0.80 0.84 : 1230 lb 0.70 Max. compression Non drive end Drive end Bearing type 6311 C3 6211 C3 V'Ring Sealing V'Ring Lubrication interval 20000 h 20000 h Lubricant amount 18 g 11 g Lubricant type Mobil Polyrex EM

Notes

USABLE @208V 65.2A SF 1.15 SFA 75.0A

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



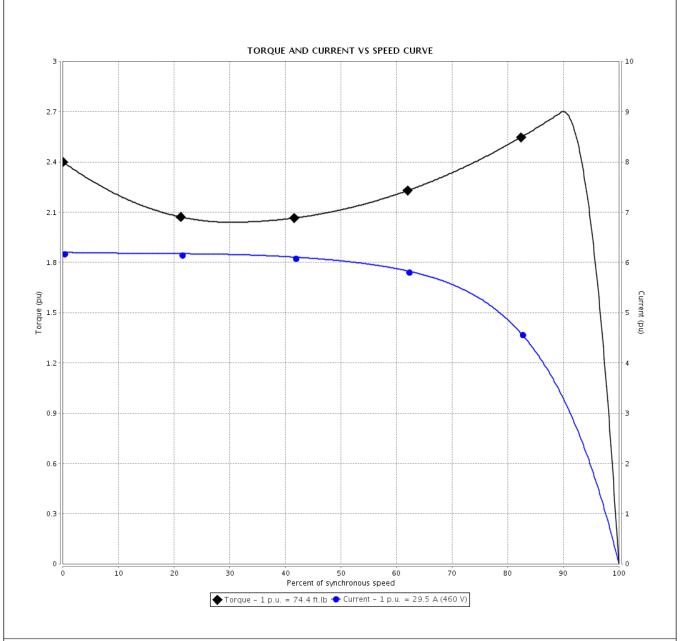
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12447067

Catalog #: 02518ET3E284TC-W22



: 230/460 V 60 Hz 4P Performance Rated current : 59.0/29.5 A Moment of inertia (J) : 5.11 sq.ft.lb **LRC** : 6.2 Duty cycle : Cont.(S1) : 74.4 ft.lb Insulation class Rated torque : F : 240 % Service factor Locked rotor torque : 1.25 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

Locked rotor time : 43s (cold) 24s (hot)

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage

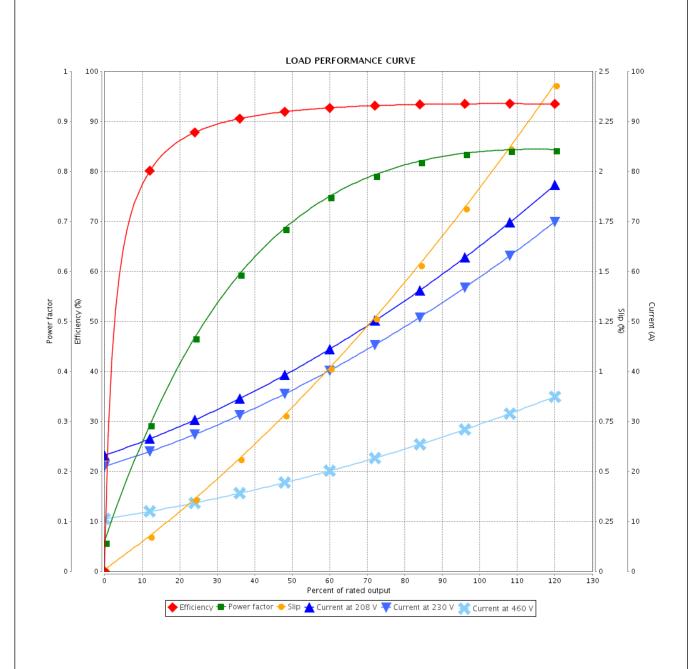


Customer

Product line : W22 NEMA Premium Efficiency Product code : 12447067

Three-Phase

Catalog #: 02518ET3E284TC-W22



Performance	: 2:	: 230/460 V 60 Hz 4P							
Rated current	: 5	9.0/29.5 A	Moment of inertia (J)		: 5.11 sq.ft.lb				
LRC : 0		.2	Duty cycle	Duty cycle					
Rated torque		4.4 ft.lb	Insulation class		: Cont.(S1) : F				
Locked rotor torque		40 %	Service factor		: 1.25				
Breakdown torque	: 2	270 % Temperatur		ure rise	: 80 K				
Rated speed	: 1	: 1765 rpm		Design					
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# THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



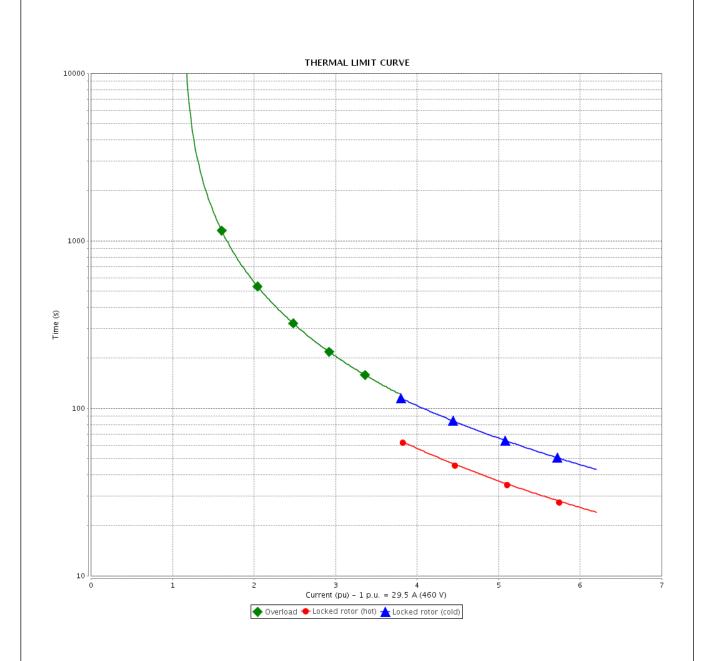
Customer		:			·	
Due do et lie e		· WOO NEMA Day and the Effective		Dan doort and a	40447007	
Product line		: W22 NEMA Premium Efficie Three-Phase	ency	Product code :	12447067	
				Catalog # :	02518ET3E28	34TC-W22
Performance		: 230/460 V 60 Hz 4P				
Rated current		: 59.0/29.5 A	Moment of	of inertia (J)	: 5.11 sq.ft.lb	
LRC		: 6.2	Duty cycle	Э	: Cont.(S1)	
Rated torque Locked rotor torc		: 74.4 ft.lb : 240 %	Insulation Service fa		: F : 1.25	
Breakdown torqu	ie :	: 270 %	Temperat		: 80 K	
Rated speed		: 1765 rpm	Design		: B	
Heating constant						
Cooling constant	t	01 0				
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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 :

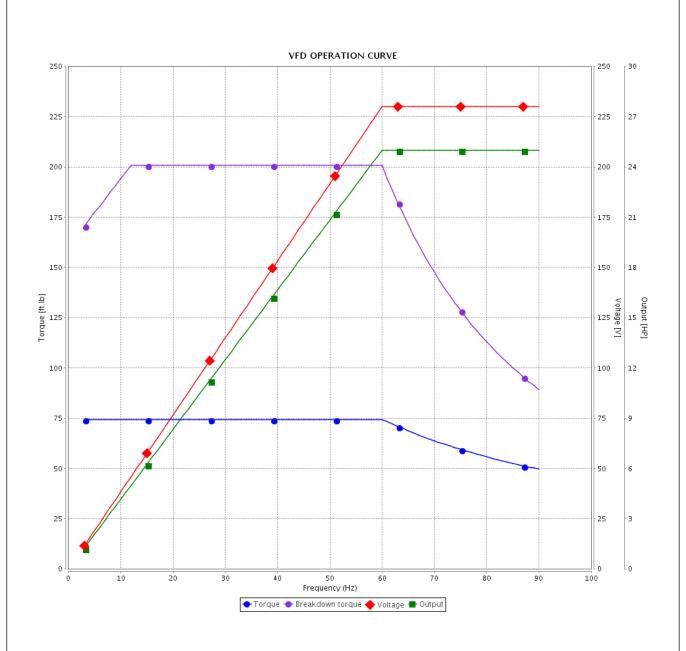
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12447067

Catalog #: 02518ET3E284TC-W22

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Performance	: 23	: 230/460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		9.0/29.5 A 2 4.4 ft.lb 40 % 70 % 765 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design				
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Performed by								
Checked by					Page	Revision		

17/03/2020

Date

