

STANDARD MODELS: GB-41007-G0O-M, GB-41007-G1O-M

NOTES:

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: 11457085 Three-Phase Catalog #: 03018ET3E286TC-W22 Frame : 284/6TC Locked rotor time : 36s (cold) 20s (hot) Output : 30 HP (22 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 : 77.6-70.2/35.1 A Protection degree : IP55 L. R. Amperes : 474-428/214 A Cooling method : IC411 - TEFC LRC : 6.1x(Code G) Mounting : F-1 No load current : 22.4-26.0/13.0 A Rotation¹ : Both (CW and CCW) Rated speed : 1765 rpm Noise level² : 63.0 dB(A) Starting method Slip : 1.94 % : Direct On Line Rated torque : 12.2 kgfm Approx. weight³ : 208 kg Locked rotor torque : 240 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.2467 kgm² Design : B 25% 50% 75% 100% Output Foundation loads 0.000 93.6 : 408 kgf Efficiency (%) 93.0 93.0 Max. traction Power Factor 0.00 0.80 0.84 : 616 kgf 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

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



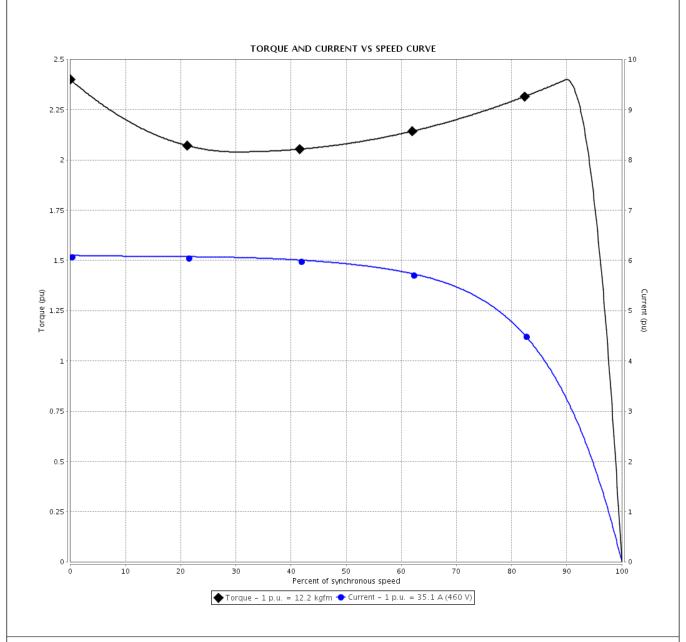
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11457085

Catalog #: 03018ET3E286TC-W22



Performance : 208-230/460 V 60 Hz 4P Rated current : 77.6-70.2/35.1 A Moment of inertia (J) : 0.2467 kgm² **LRC** Duty cycle : Cont.(S1) : F : 12.2 kgfm Insulation class Rated torque : 240 % Service factor Locked rotor torque : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1765 rpm Design : B

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

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

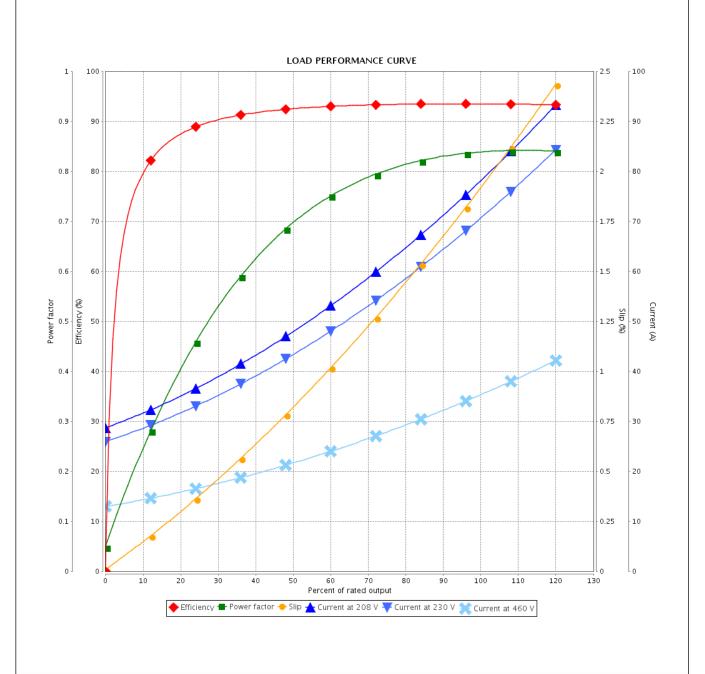


Customer

Product line : W22 NEMA Premium Efficiency Product code : 11457085

Three-Phase

Catalog #: 03018ET3E286TC-W22



Performance		208-230/460 V 60 Hz 4P					
Rated current		7.6-70.2/35.1 A	Moment of inertia (J)		: 0.2467 kgm²		
LRC		1	Duty cycle		: Cont.(S1)		
Rated torque		12.2 kgfm Insulation class		: F			
Locked rotor torque		40 %	Service factor		: 1.25		
Breakdown torqu	ie : 24	240 % Temperature rise		ıre rise	: 80 K		
Rated speed	: 17	: 1765 rpm		Design			
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



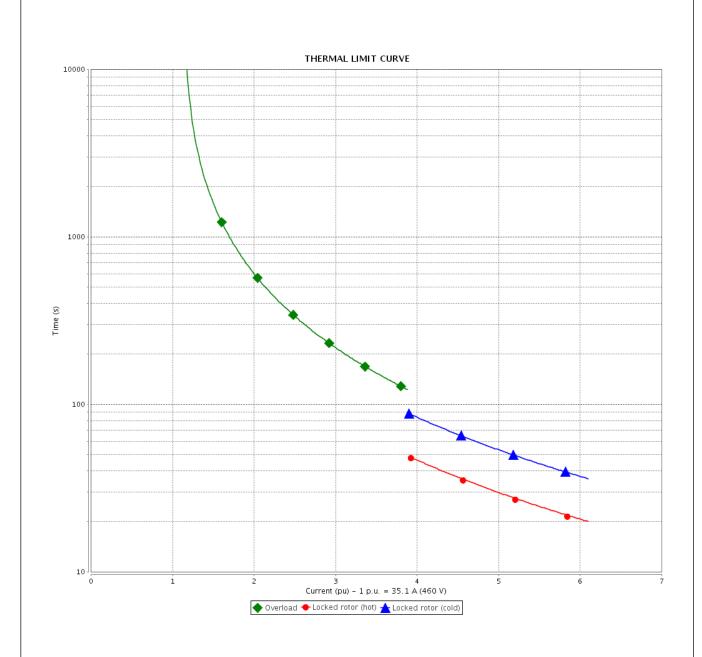
Customer	:					
Product line		: W22 NEMA Premium Efficiency		Product code :	11457085	
	Th	nree-Phase	(Catalog # :	03018ET3E2	86TC-W22
Performance		08-230/460 V 60 Hz 4P				
Rated current LRC	: 77 : 6.	'.6-70.2/35.1 A 1	Moment of Duty cycle	f inertia (J)	: 0.2467 kgm² : Cont.(S1)	
Rated torque	: 12	2.2 kgfm	Insulation	class	: F	
Locked rotor torque Breakdown torque		40 % 40 %	Service fa		: 1.25 : 80 K	
Rated speed		'65 rpm	Design	110 H3C	: 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 :

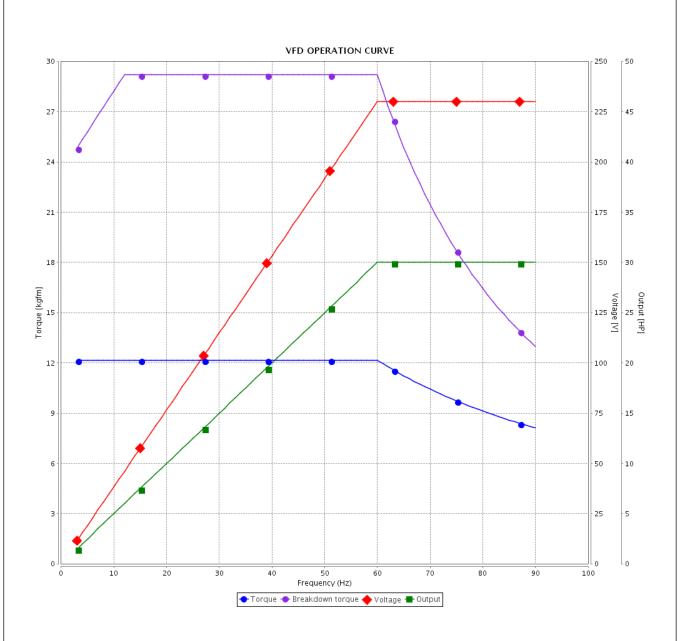
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11457085

Catalog #: 03018ET3E286TC-W22

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Performance	: 208-230/460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 77.6-70.2/35.1 A : 6.1 : 12.2 kgfm : 240 % : 240 % : 1765 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2467 kgm² : Cont.(S1) : F : 1.25 : 80 K : B			
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Performed by							
Checked by				Page	Revision		

14/02/2020

Date

