DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 12744730 Catalog #: 00709ET3H256T-W22 Frame : 254/6T Locked rotor time : 59s (cold) 33s (hot) Output : 7.5 HP (5.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 575 V : 1000 m.a.s.l. Altitude Rated current : 8.88 A Protection degree : IP55 L. R. Amperes : 47.1 A Cooling method : IC411 - TEFC : 5.3x(Code G) LRC Mounting : F-1 No load current : 5.20 A Rotation¹ : Both (CW and CCW) Rated speed : 880 rpm Noise level² : 54.0 dB(A) Starting method Slip : 2.22 % : Direct On Line Rated torque : 44.8 ft.lb Approx. weight³ : 293 lb Locked rotor torque : 200 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 4.43 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 87.5 87.5 : 390 lb Efficiency (%) 85.2 85.5 Max. traction Power Factor 0.50 0.63 0.71 : 683 lb 0.29 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.

Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



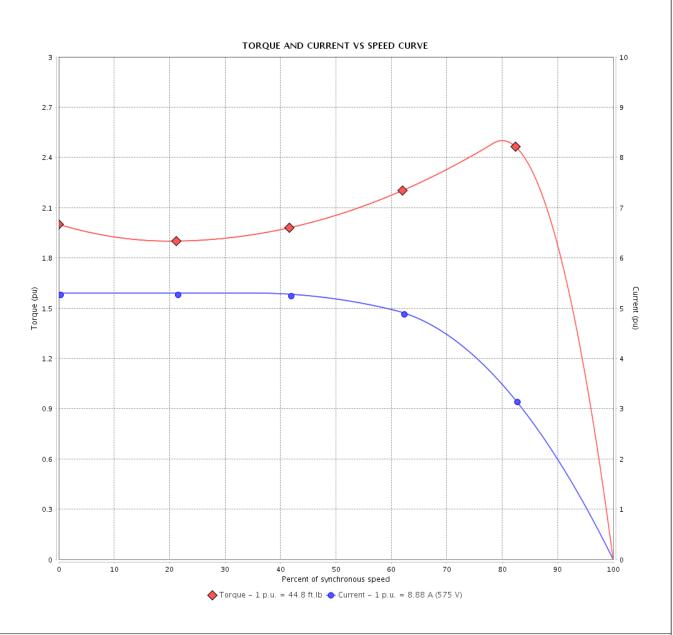
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12744730

Catalog #: 00709ET3H256T-W22



Performance : 575 V 60 Hz 8P Rated current : 8.88 A Moment of inertia (J) : 4.43 sq.ft.lb **LRC** : 5.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 44.8 ft.lb : F : 200 % Service factor Locked rotor torque : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 880 rpm Design : B

Locked rotor time : 59s (cold) 33s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

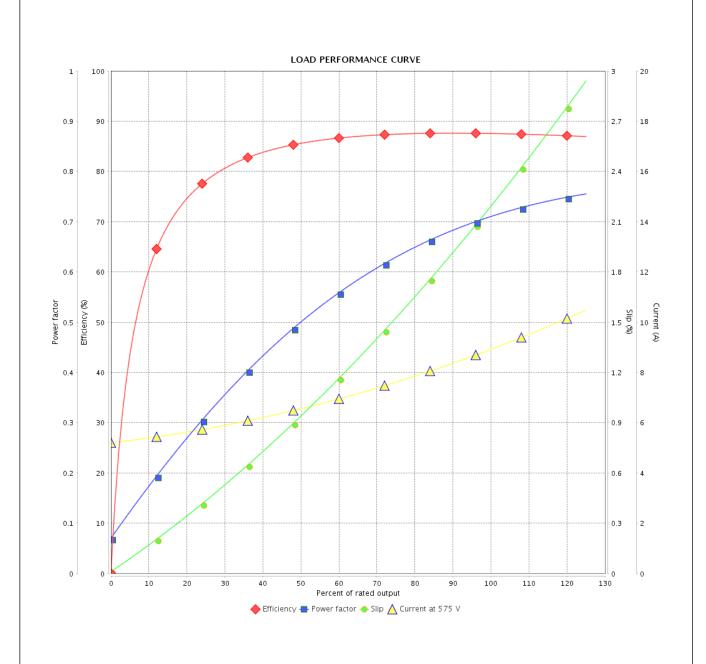


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12744730

Phase

Catalog #: 00709ET3H256T-W22



Performance	ance : 575 V 60 Hz 8P						
Rated current		: 8.88 A	Moment of	Moment of inertia (J)		: 4.43 sq.ft.lb	
LRC		: 5.3	Duty cycl	Duty cycle		: Cont.(S1)	
Rated torque		: 44.8 ft.lb	Insulation	Insulation class		: F	
Locked rotor torque		: 200 %	Service fa	Service factor			
Breakdown torque		: 250 %	Temperat	Temperature rise			
Rated speed : 880 rpm Rev. Changes Summary		: 880 rpm	Design	Design			
		mary	Performed	Checked	Date		

· tatou opecu	. • •	· · · · · ·	_ cc.g			
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				3/6	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



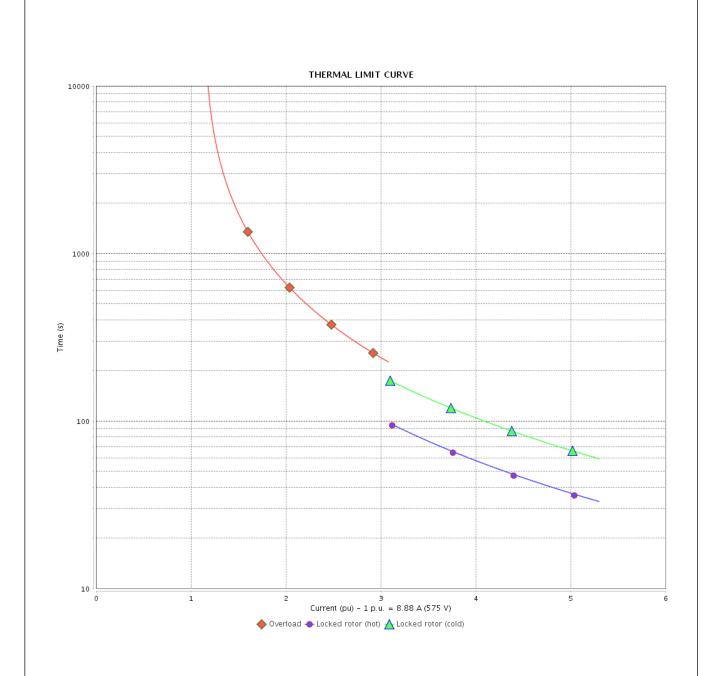
Customer	:					
Product line		NEMA Premium Efficiency hase	Three-	Product code :	12744730	
		nasc	1	Catalog # :	00709ET3H25	56T-W22
Performance	: 57	75 V 60 Hz 8P				
Rated current	: 8.	88 A	Moment o	f inertia (J)	: 4.43 sq.ft.lb	
LRC Rated torque	: 5. : 44	.3 4.8 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torqu	ie : 20	00 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		50 % 80 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
D (40/04/0000	-			4.0	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

Product line : NEMA Premium Efficiency Three-

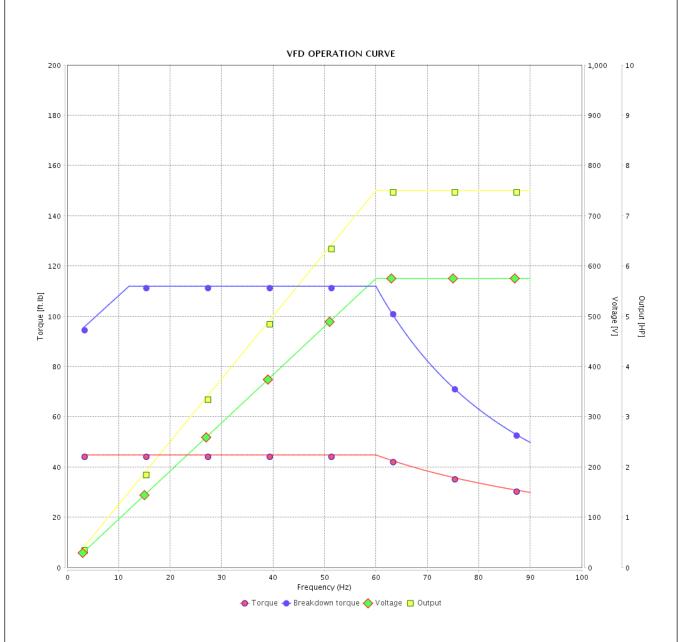
Product code: 12744730

00709ET3H256T-W22 Catalog #:

Page

6/6

Revision



Performance		: 575 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 8.88 A : 5.3 : 44.8 ft.lb : 200 % : 250 % : 880 rpm	Duty cy Insulati Service	on class factor rature rise	: 4.43 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev. Changes Summary		mary	Performed	Checked	Date	
Performed by						

