## **DATA SHEET**

### Three Phase Induction Motor - Squirrel Cage



Customer		:				
Product line		: NEN Phas		m Efficiency	Three- Product code : Catalog #:	12445968 00712ET3H254T-W22
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design		: 6 : 60 F : 575 : 7.58 : 51.6 : 6.8x : 3.60 : 117 : 2.08 : 33.5 : 250 : 300 : F : 1.25	HP (5.5 kV Hz V B A B A C(Code H) O A 5 rpm B % F ft.lb %	V)	Locked rotor time Temperature rise Duty cycle Ambient temperature Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	: 54s (cold) 30s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 59.0 dB(A) : Direct On Line : 294 lb
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	88.6	89.5	90.2	91.0	Max. traction	: 335 lb
Power Factor	0.38	0.63	0.74	0.80	Max. compression	: 629 lb
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		: : : :	Drive end           :         6309 C3           :         V'Ring           :         20000 h           :         13 g           :         Mo		Non drive e 6209 C3 V'Ring 20000 r 9 g obil Polyrex EM	3
Notes						

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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



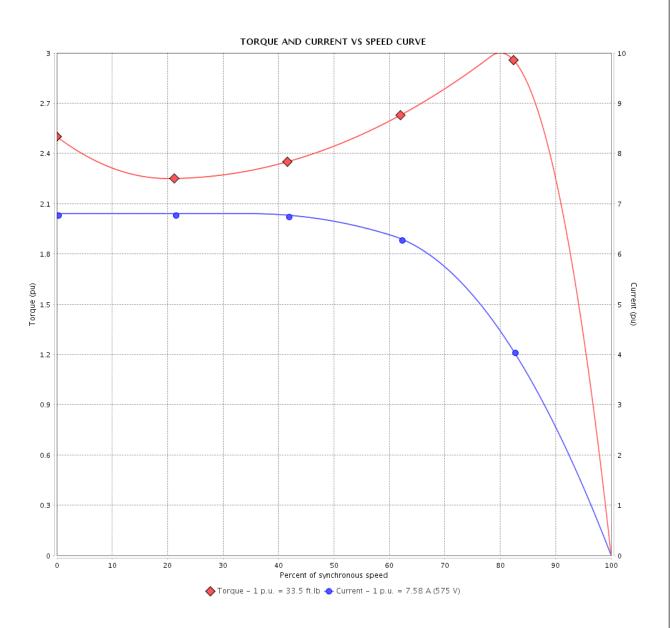
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12445968

Catalog #: 00712ET3H254T-W22



Performance : 575 V 60 Hz 6P Rated current : 7.58 A Moment of inertia (J) : 3.92 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 33.5 ft.lb : F Service factor Locked rotor torque : 250 % : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B

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

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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

13/04/2022

Product line : NEMA Premium Efficiency Three- Product code : 12445968

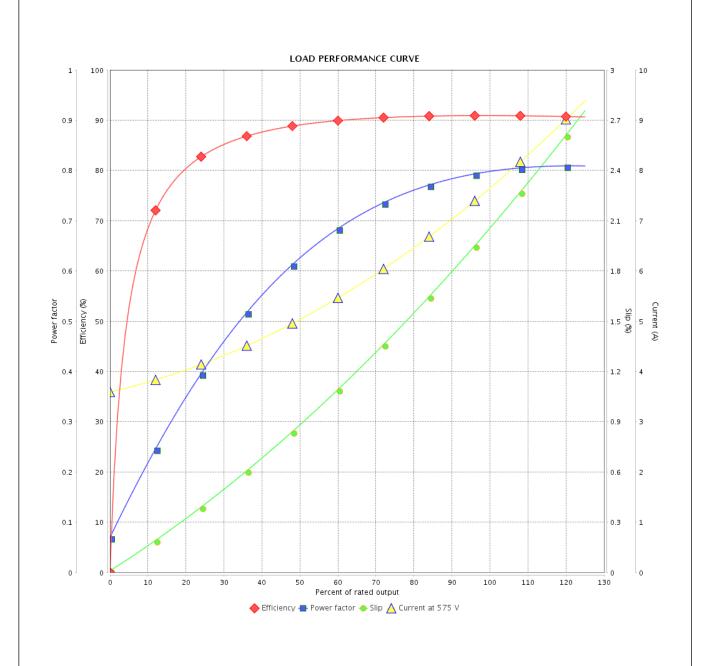
Phase

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Revision



Performance	: 575 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.58 A : 6.8 : 33.5 ft.lb : 250 % : 300 % : 1175 rpm	Moment of Duty cycle Insulation Service fa Temperati Design	class ctor	: 3.92 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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## THERMAL LIMIT CURVE

### Three Phase Induction Motor - Squirrel Cage



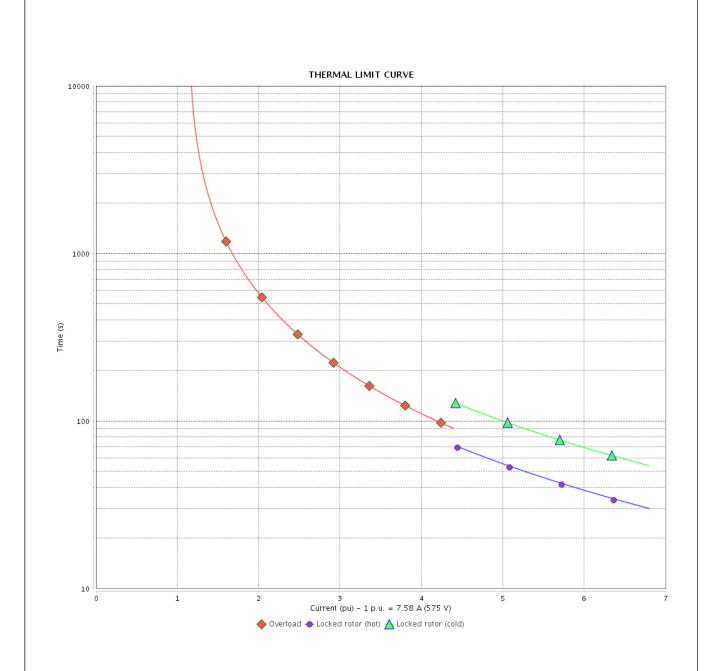
Customer	:					
Product line		NEMA Premium Efficiency l hase		Product code :	12445968 00712ET3H28	54T-W22
Performance	: 57	75 V 60 Hz 6P				
Rated current		58 A	Moment of	f inertia (J)	: 3.92 sq.ft.lb	
LRC Rated torque	: 6. : 33	8 3.5 ft.lb	Duty cycle Insulation	class	: Cont.(S1) : F	
Locked rotor tord		50 %	Service fa	ctor	: 1.25	
Breakdown torqu Rated speed		00 % 175 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constan						
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 :

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Date

13/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

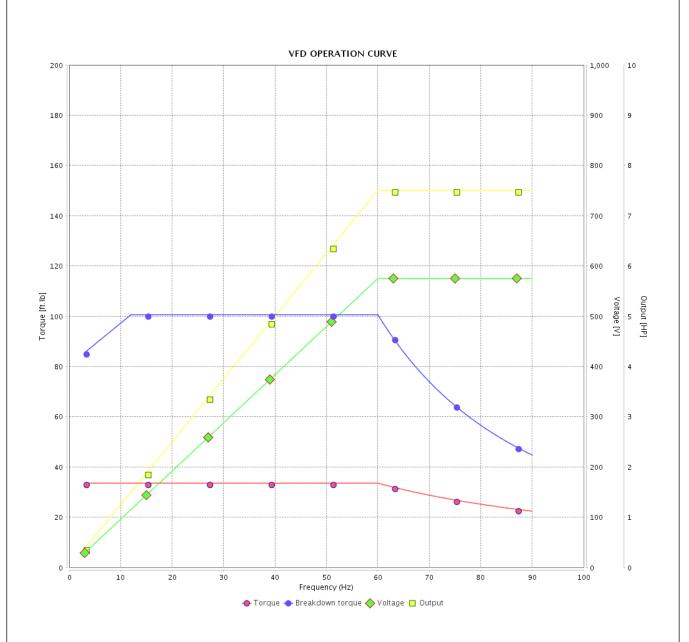
Product code: 12445968

Catalog #: 00712ET3H254T-W22

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Revision



Performance	: 57	75 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 33 jue : 29 ie : 30	.58 A .8 3.5 ft.lb 50 % 00 % 175 rpm	Duty cycle Insulation class Service factor Temperature rise		: 3.92 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
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