DATA SHEET

Three Phase Induction Motor - Squirrel Cage



								·	
Customer		:							
Product line		: NEN Phas	ЛА Premiur e	n Efficienc	y Three-	Product code : Catalog # :	1459 0053	5407 6XT3H184T	
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor tord Breakdown torqu Insulation class Service factor Moment of inertia	ie	: 2 : 60 F : 575 : 4.88 : 36.6 : 7.5x : 1.76 : 349 : 7.52 : 250 : 380 : F : 1.15	P (3.7 kW) Hz V B A G (Code J) G A 0 rpm G % 2 ft.lb %		Temp Duty Ambi Altitu Prote Cooli Mour Rota Noise Starti	ent temperature de cction degree ng method nting	: 80 : Coi : -20 : 100 : IP5 : IC4 : F-1 : Bot : 69.	nt.(S1) °C to +40°C 00 m.a.s.l. 5 .11 - TEFC h (CW and CCW) 0 dB(A) ect On Line	
Output Efficiency (%) Power Factor	25% 84.3 0.47	50% 85.5 0.70	75% 87.5 0.81	100% 88.5 0.86	Max. tr	ation loads action ompression	: 117 : 248	-	
Bearing type Sealing Lubrication inter- Lubricant amour Lubricant type		: : : :	630	e end 7 2RS Seal - -	√ Mobil Polyre	Non drive e 6206 2R Lip Sea - - ex EM	S		

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	13/04/2022			1/7	

DATA SHEET

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Customer		

Thermal protection

		<u> </u>		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2/7	

TORQUE AND CURRENT VS SPEED CURVE



Revision

Page

3/7

Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 14595407 Catalog #: 00536XT3H184T TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Current Torque (pu) 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 7.52 ft.lb ◆ Current - 1 p.u. = 4.88 A (575 V) Performance : 575 V 60 Hz 2P Rated current : 4.88 A Moment of inertia (J) : 0.1889 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 7.52 ft.lb : 250 % Locked rotor torque Service factor : 1.15 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 3490 rpm Design : B Locked rotor time : 46s (cold) 26s (hot) Rev. Performed Checked Date **Changes Summary**

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Date

13/04/2022

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



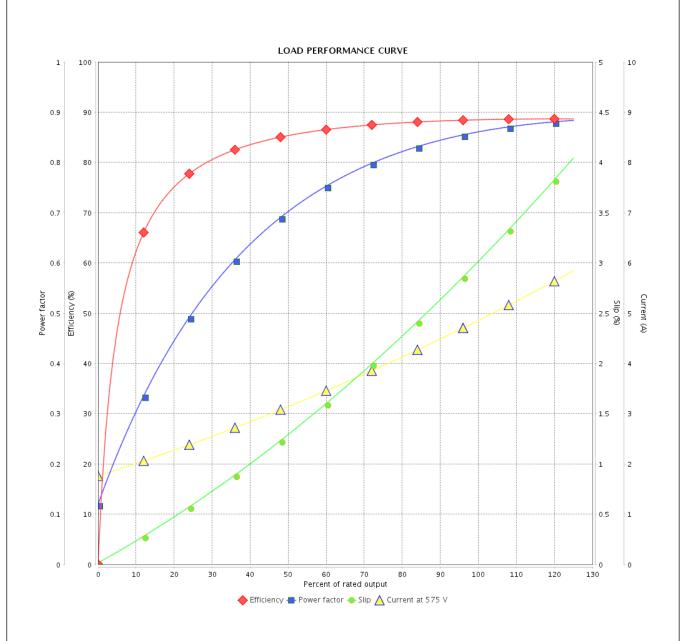
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 14595407

Catalog #: 00536XT3H184T



Performance	: 575 V 60 Hz 2P				
Rated current : 4.88 A		Moment of inertia (J)		: 0.1889 sq.ft.lb	
LRC	: 7.5	Duty cycle		: Cont.(S1)	
Rated torque	: 7.52 ft.lb	Insulation class		: F	
Locked rotor torque	: 250 %	Service factor		: 1.15	
Breakdown torque	: 380 %	: 380 % Temperature rise		: 80 K	
Rated speed	: 3490 rpm	Design		: B	
Rev.	Changes Summary	Perfo	rmed	Checked	Date
Performed by					
Checked by				Page	Revision

4/7

13/04/2022

Date

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



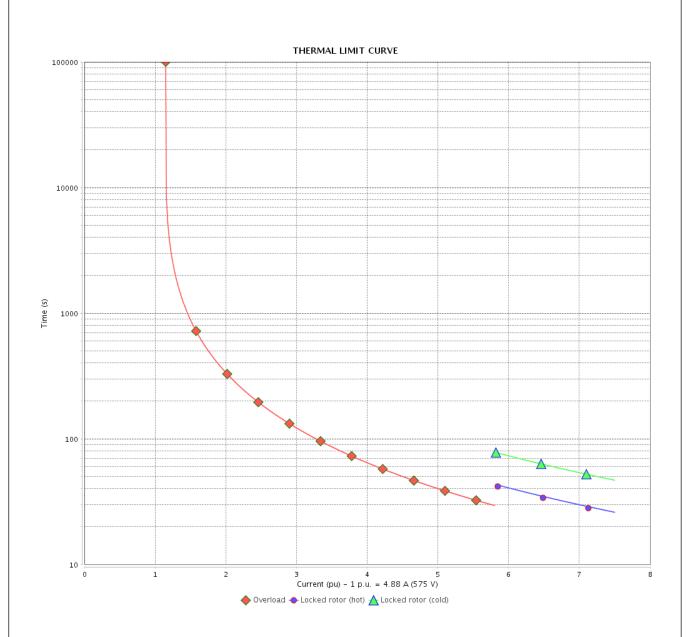
Customer	:					
Product line		NEMA Premium Efficiency [*] hase		Product code :	14595407	
				Catalog # :	00536XT3H	184T
Performance		75 V 60 Hz 2P				
			Mamanta	of in outin (1)	. 0 1000 #	IL.
Rated current LRC	: 4. : 7.	.88 A .5	Moment o Duty cycle	of inertia (J) e	: 0.1889 sq.ft. : Cont.(S1)	D
Rated torque	: 7.	.52 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	50 %	Service fa		: 1.15	
Breakdown torqu Rated speed		80 % 490 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constan	t					
Cooling constan						
Rev.		Changes Summary		Performed	Checked	Date
Performed by				`	'	
Checked by		1			Page	Revision
Date	13/04/2022	-			5/7	

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			6/7	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

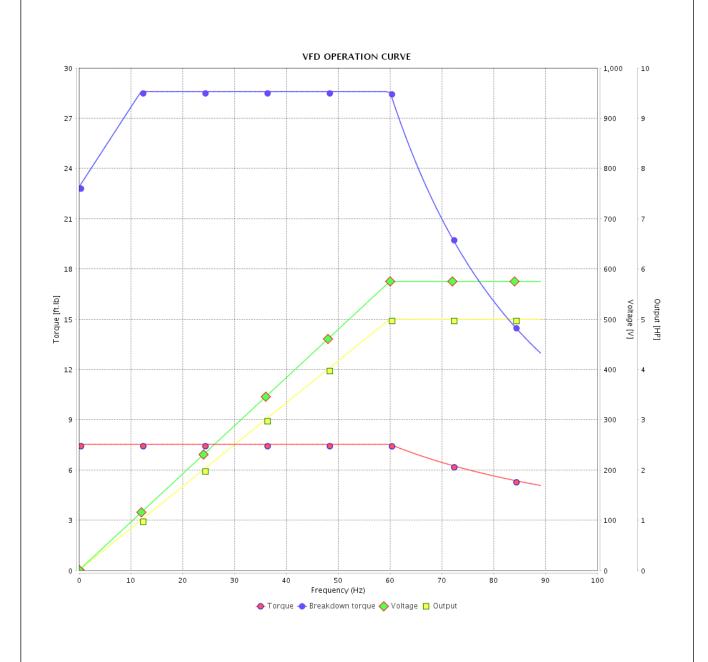


Customer

Product line : NEMA Premium Efficiency Three- Product code : 14595407

Phase

Catalog #: 00536XT3H184T



Performance	: 57	75 V 60 Hz 2P				
Rated current	: 4.	.88 A	Moment o	Moment of inertia (J)		lb
LRC	: 7.	.5	Duty cycle		: Cont.(S1)	
Rated torque	: 7.	.52 ft.lb	Insulation	Insulation class		
Locked rotor torqu	e : 25	50 %	Service fa	octor	: 1.15	
Breakdown torque	akdown torque : 380 % Temperature rise		ure rise	: 80 K		
Rated speed ::		490 rpm	Design	Design		
Rev.		Changes Summa	ry	Performed	Checked	Date
		I				
Performed by						
Checked by					Page	Revision
Date	13/04/2022				7 / 7	

