DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Product line		: NEMA Premium Efficiency Th Phase						
		Flias	C		Cata	alog # :	01536XT3H	254T
Frame Output Poles Frequency Rated voltage Rated current		: 254 : 15 H : 2 : 60 H : 575 : 13.9	HP (11 kW) Hz V		Locked roto Temperatur Duty cycle Ambient ter Altitude Protection o	re rise mperature	: 55s (cold) : 80 K : Cont.(S1) : -20°C to + : 1000 m.a. : IP55	40°C
L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor toro Breakdown torqu Insulation class Service factor Moment of inerti	ue	: 94.7 : 6.8x : 4.80 : 354 : 1.67 : 22.3 : 200 : 270 : F : 1.15	7 A (Code G)) A 0 rpm 7 % 3 ft.lb % %		Cooling me Mounting Rotation ¹ Noise level Starting me Approx. we	ethod 2 ethod	: IC411 - TE : F-1 : Both (CW : 75.0 dB(A : Direct On : 320 lb	and CCW))
Design		: B						
Output Efficiency (%) Power Factor	25% 89.4 0.49	50% 90.0 0.74	75% 90.5 0.83	100% 91.0 0.87	Foundation lo Max. traction Max. compre		: 128 lb : 448 lb	
Bearing type			630	09 C3		6209 C3		
Sealing Lubrication inter Lubricant amour Lubricant type Notes			Oil 15	l Seal 797 h I3 g	bil Polyrex EM	Lip Seal 18447 h 9 g		
Sealing Lubrication inter Lubricant amour Lubricant type	laces and o ed. notor from 1m and wit weight sub ocess.	the shaft e	Oil 15 1 previous o end. e of +3dB(/	I Seal 797 h 3 g Mo	These are av	18447 h 9 g verage values	pased on tests wi	
Sealing Lubrication inter Lubricant amour Lubricant type Notes This revision repl nust be eliminate 1) Looking the m 2) Measured at 3) Approximate v nanufacturing pr	laces and o ed. notor from 1m and wit weight sub ocess.	the shaft e th tolerance ject to cha	Oil 15 1 previous o end. e of +3dB(/	I Seal 797 h 3 g Mo ne, which A).	These are an power supply MG-1.	18447 h 9 g verage values		

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 Date
 13/04/2022
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Customer

		Thermal protection			
ID	Application	Туре	Quantity		Femperature
1	Winding	Thermostat - 2 wires	1 x Phase	15	55 °C
Rev.	Chanc	les Summary	Performed	Checked	Date
		,			2 4.0
erformed by					
Checked by				Page	Revision

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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Customer

Product line	: NEMA Premium Efficiency Thr	ree- Product code :	14407015 01536XT3H254T	
	Phase	Catalog # :		
	TORQUE AND CURREN	T VS SPEED CURVE		
3				10
2.7				9
2.4			×	8
2.1	•			7
1.8				6
(nd) nbJo F				Current (pu)
Tor				pu)
1.2				4
0.9				3
0.6				2
0.3				1
0 10	20 30 40 50 Percent of synchr	60 70 onous speed	80 90	100
	♦ Torque - 1 p.u. = 22.3 ft.lb ◆ Co	urrent – 1 p.u. = 13.9 A (575 V)		
erformance	: 575 V 60 Hz 2P			
ated current RC	: 13.9 A Mo	ment of inertia (J)	: 1.19 sq.ft.lb	
ated torque	: 22.3 ft.lb Ins	ty cycle ulation class	: Cont.(S1) : F	
ocked rotor torque reakdown torque	: 270 % Ter	rvice factor nperature rise	: 1.15 : 80 K	
ated speed	: 3540 rpm De : 55s (cold) 31s (hot)	sign	: B	
Rev.	Changes Summary	Performed	Checked	Date
erformed by				
Performed by Checked by			Page	Revision
			3/7	

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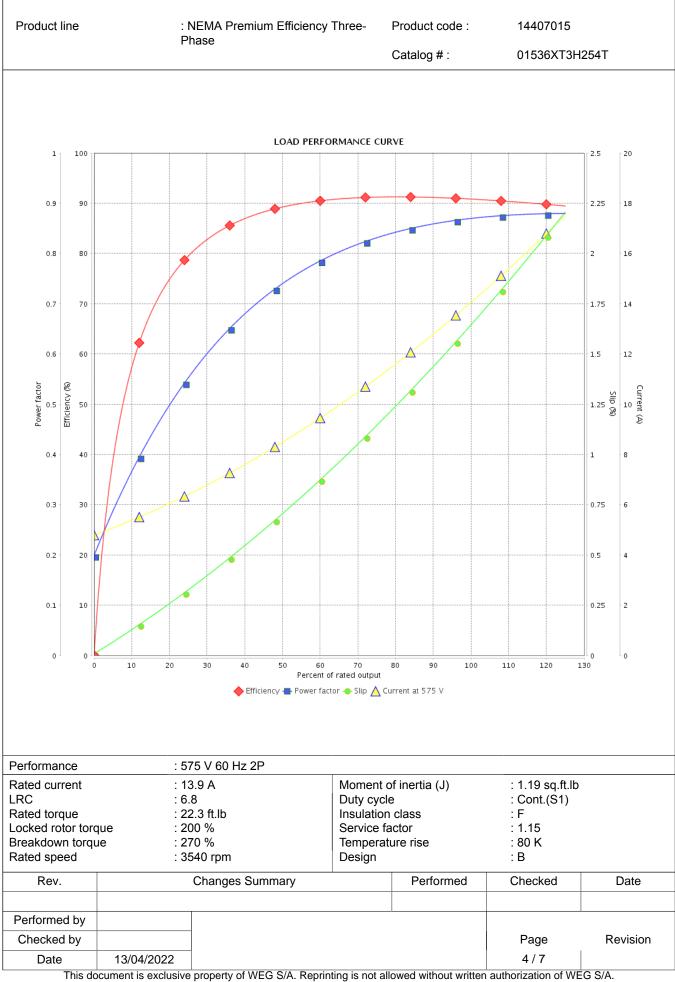
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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Customer



THERMAL LIMIT CURVE

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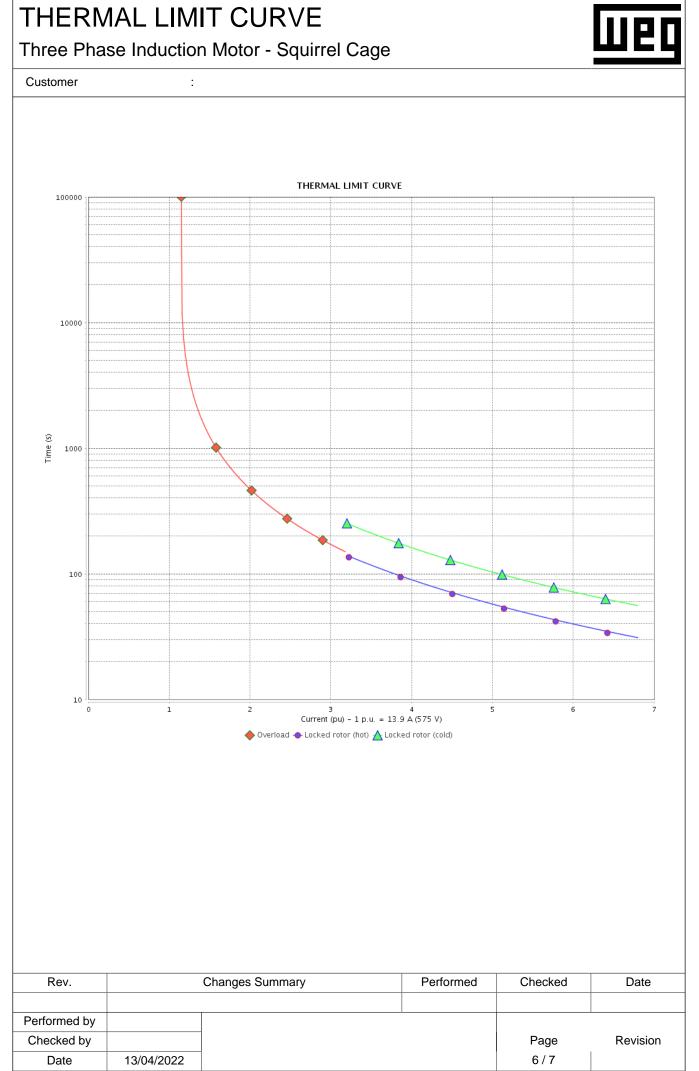
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407015
	Phase	Catalog # :	01536XT3H254T

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Performance	:	575 V 60 Hz 2P					
Rated current: 13.LRC: 6.8Rated torque: 22.Locked rotor torque: 200Breakdown torque: 270		13.9 A 6.8 22.3 ft.lb 200 % 270 % 3540 rpm	Duty cyc Insulatio Service f	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.19 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant							
Cooling constant							
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
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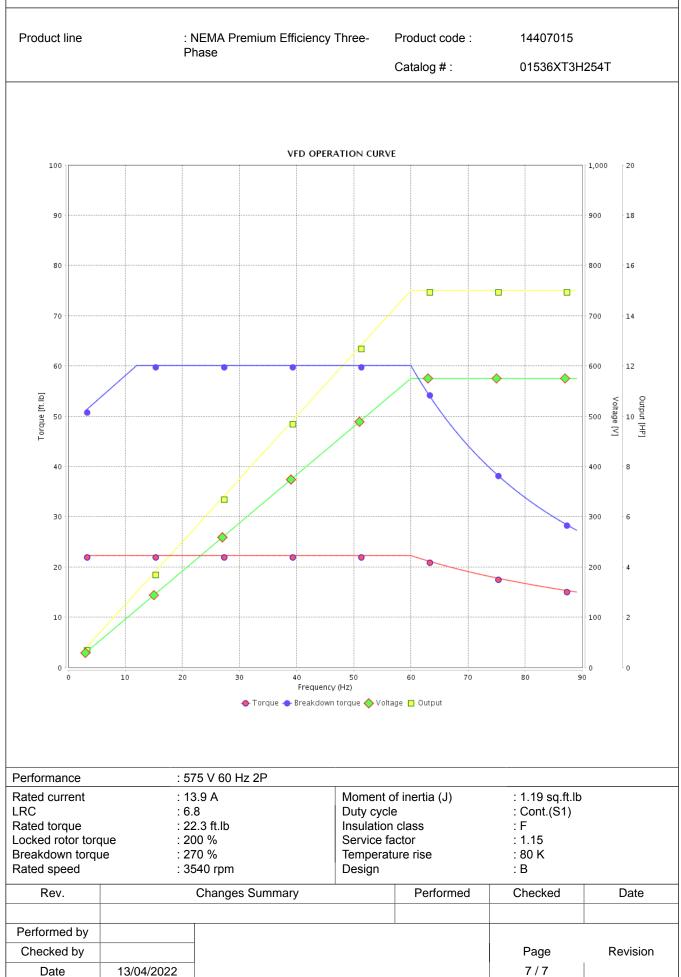
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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

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Customer



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