# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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Product line		: NEMA P Phase	remium Efficiency 1		roduct code :	14309726	
				C	atalog # :	00512XT3F	1215T
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor toro Breakdown torqu Insulation class Service factor Moment of inerti Design	ue	: 213/5T : 5 HP (3. : 6 : 60 Hz : 575 V : 5.46 A : 37.2 A : 6.8x(Coo : 2.76 A : 1170 rpn : 2.50 % : 22.4 ft.lb : 170 % : 260 % : F : 1.15 : 1.47 sq.1 : B	de J) n	Locked ro Temperat Duty cycl Ambient f Altitude Protection Cooling n Mounting Rotation <sup>1</sup> Noise lev Starting n Approx. v	ture rise le temperature n degree method y vel <sup>2</sup> method	: 80 K : Cont.(S1) : -20°C to + : 1000 m.a : IP55 : IC411 - TI : F-1	⊧40°C .s.l. EFC ⁄ and CCW) \)
Dutput	50%	75%	100%	Foundation	loads		
Efficiency (%)	88.5	89.5	89.5	Max. tractio	on	: 223 lb	
Power Factor	0.58	0.70	0.76	Max. comp	ression	: 434 lb	
Sealing		:	Oil Seal		Lip Seal		
Lubrication inter Lubricant amour Lubricant type Notes			- Mo	bil Polyrex E	M		
Lubricant amour Lubricant type Notes This revision repl nust be eliminate 1) Looking the m 2) Measured at 3) Approximate m	laces and ca ed. notor from the 1m and with weight subje- rocess.	e shaft end. tolerance of	ious one, which +3dB(A).	These are	average values	based on tests w	
Lubricant amour Lubricant type	laces and ca ed. notor from the 1m and with weight subje- rocess.	e shaft end. tolerance of ct to changes	ious one, which +3dB(A). s after	These are power sup	average values		
Lubricant amour Lubricant type Notes This revision repl nust be eliminate 1) Looking the m 2) Measured at 3) Approximate manufacturing pr 4) At 100% of fu	laces and ca ed. notor from the 1m and with weight subje- rocess.	e shaft end. tolerance of ct to changes	ious one, which +3dB(A).	These are power sup	average values ply, subject to th	ne tolerances stipu	lated in NEMA
Lubricant amour Lubricant type Notes This revision repl nust be eliminate 1) Looking the m 2) Measured at 3) Approximate nanufacturing pr 4) At 100% of fu	laces and ca ed. notor from the 1m and with weight subje- rocess.	e shaft end. tolerance of ct to changes	ious one, which +3dB(A). s after	These are power sup	average values ply, subject to th	ne tolerances stipu	lated in NEMA
Lubricant amour Lubricant type Notes This revision repl nust be eliminate 1) Looking the m 2) Measured at 3) Approximate manufacturing pr 4) At 100% of fu Rev.	laces and ca ed. notor from the 1m and with weight subje- rocess.	e shaft end. tolerance of ct to changes	ious one, which +3dB(A). s after	These are power sup	average values ply, subject to th	ne tolerances stipu	lated in NEMA

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Customer

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

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### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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#### Customer

Product line		: NEMA Premium Efficiency Three- Phase		Product code :	14309726	14309726	
				Catalog # :	00512XT3H215T		
		TORQUE AND CURF	RENT VS SP	YEED CURVE			
3						10	
2.7						9	
2.4						8	
2.1		•				7	
1.8						6	
(nd) 1.5 Joint Los						Current (pu)	
1.2						4	
0.9						3	
0.6						2	
						1	
0.3 -							
0 0	10 20	30 40 Percent of sy	50	60 70	80 90	0 100	
		◆ Torque – 1 p.u. = 22.4 ft.lb +					
erformance	:	575 V 60 Hz 6P					
ated current RC ated torque ocked rotor torq	:	6.8 22.4 ft.lb	Moment of Duty cycl Insulatior Service fa	n class	: 1.47 sq.ft.lb : Cont.(S1) : F : 1.15		
reakdown torqu ated speed	e :	260 %	Temperat Design	ture rise	: 80 K : B		
ocked rotor time	:	102s (cold) 57s (hot)				1	
Rev.		Changes Summary		Performed	Checked	Date	
Performed by Checked by				1	Page	Revision	
Date	12/04/2022				3/7		

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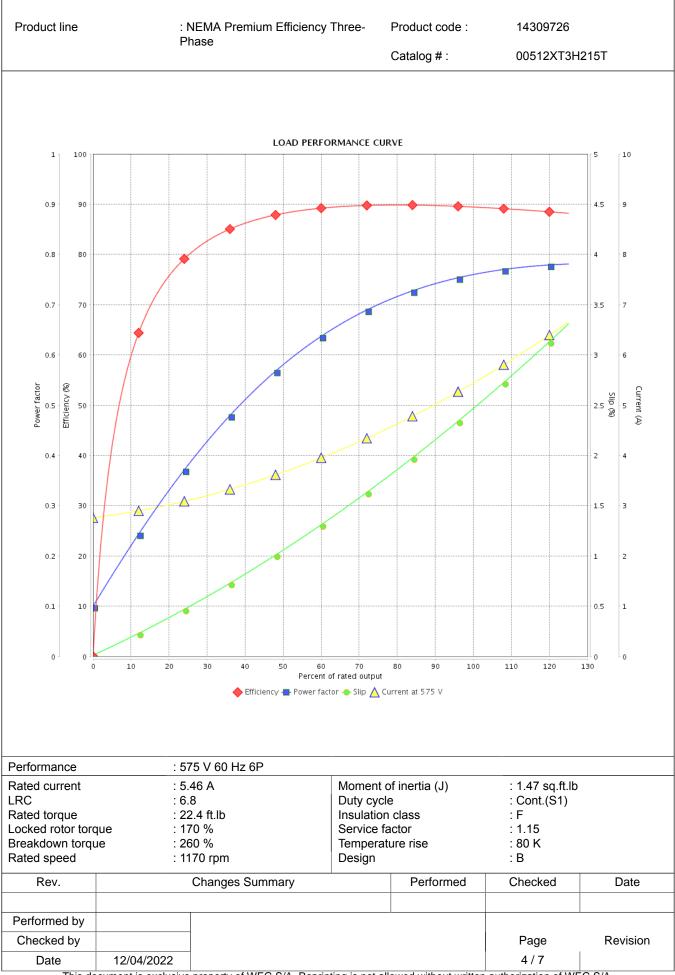
### LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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Customer



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# THERMAL LIMIT CURVE

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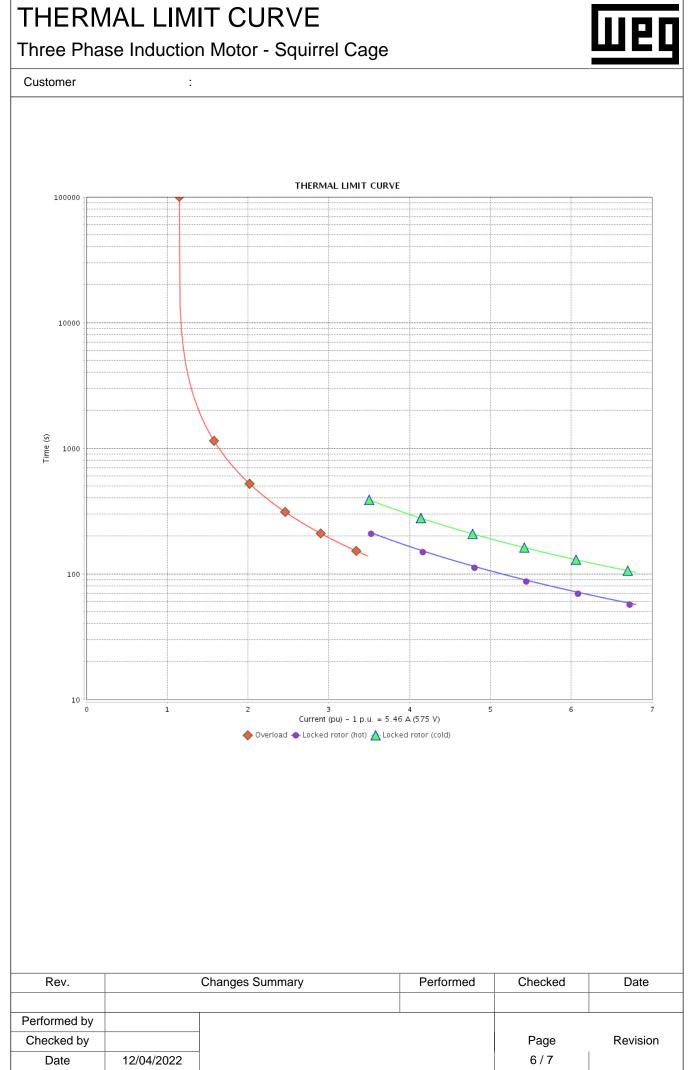
Three Phase Induction Motor - Squirrel Cage

#### Customer

Phase On the transmission of the second seco	
Catalog # : 00512XT3H215T	

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Performance		: 575 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	t : 5.46 A : 6.8 : 22.4 ft.lb torque : 170 % orque : 260 %		Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.47 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant							
Cooling constant							
Rev.		Changes Summary		Performed	Checked	Date	
Denfennendiku							
Performed by							
Checked by					Page	Revision	
Date	12/04/2022	2			5/7		
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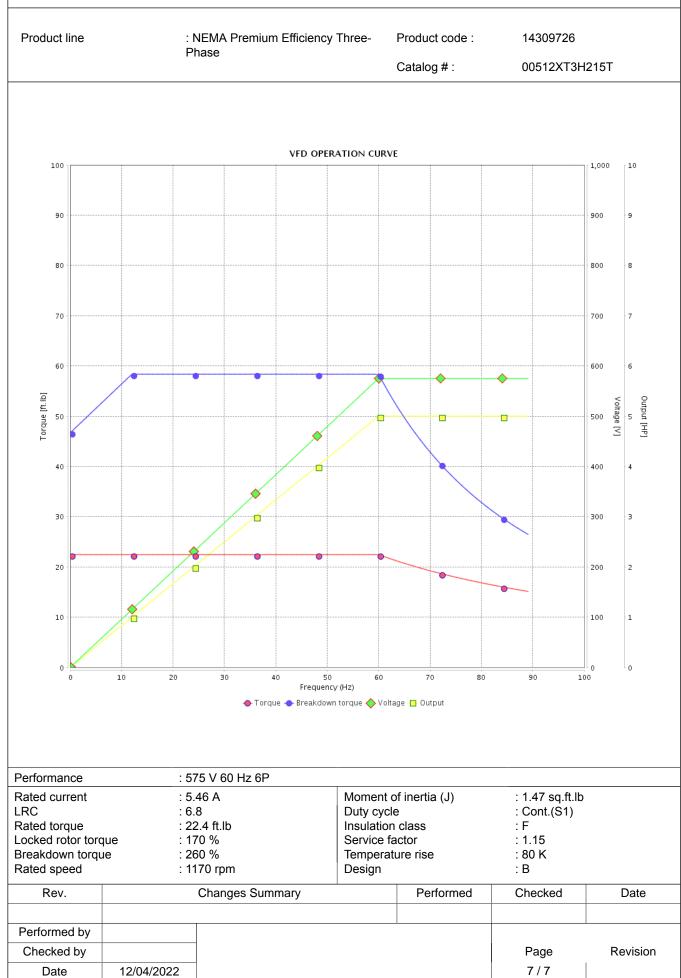
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# VFD OPERATION CURVE

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