## DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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#### Customer

		: NEMA Premium Effic	ciency I	hree- Produ	uct code :	144074	459	
		Phase		Catal	og # :	01512	XT3E284T	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 284T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B		Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup> Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 465 lb : 7.07 sq.ft.lb		
Output [HP]		15		15	1	5	15	
Poles		6		6	E E		6	
Frequency [Hz]		60		50	5	0	50	
Rated voltage [V]		230/460		380	40		415	
Rated current [A]		35.0/17.5		21.5	20		19.7	
. R. Amperes [A]		252/126		114	11		122	
_RC [A]		7.2x(Code H)	5.3	3x(Code E)	5.7x(C		6.2x(Code G)	
No load current [A		14.0/7.00		6.95	7.3		7.60	
Rated speed [RPN	/]	1180		970	97		975	
Slip [%]		1.67		3.00	3.0		2.50	
Rated torque [ft.lb]		66.8		81.2	81		80.8	
_ocked rotor torqu		250		170	20		220	
Breakdown torque	e [%]	260		190	21		229	
Service factor		1.15		1.00	1.(		1.00	
Temperature rise		80 K		80 K	80		80 K	
_ocked rotor time		45s (cold) 25s (hot)		cold) 28s (hot)	50s (cold)		50s (cold) 28s (hot)	
Noise level <sup>2</sup>		59.0 dB(A)	5	6.0 dB(A)	56.0 (		56.0 dB(A)	
Efficiency (%)	25%	90.8		89.8	89		89.9	
	50%	91.0		89.5	89		89.5	
	75%	91.7		90.2	90		91.0	
	100%	91.7	89.5		90		90.2	
	25%	0.47		0.54	0.5		0.48	
Power Factor	50%	0.74		0.80	0.		0.76	
	75%	0.83		0.86	0.8		0.84	
Bearing type Sealing Lubrication interv		: 6311 C3 62 : Oil Seal Lip : 20000 h 20	Non drive endFoundation loads6211 C3Max. tractionLip SealMax. compression			: 578 lb : 1043 lb		
Lubricant amoun Lubricant type	nt	: 18 g : Mobil Polyrex B	11 g EM					
Notes USABLE @208V	′ 38.7A SF 1.	15 SFA 44.5A		L				
This revision repla must be eliminate (1) Looking the m (2) Measured at 1	aces and car ed. notor from the 1m and with t weight subject ocess.	icel the previous one, w	hich				sts with sinusoidal stipulated in NEMA	
This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	aces and car ed. notor from the 1m and with t weight subject ocess.	icel the previous one, wi shaft end. olerance of +3dB(A).		power supply, MG-1.			stipulated in NEMA	
USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	aces and car ed. notor from the 1m and with t weight subject ocess.	icel the previous one, wi shaft end. olerance of +3dB(A). t to changes after		power supply, MG-1.	subject to th	e tolerances	stipulated in NEMA	
USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev. Performed by	aces and car ed. notor from the 1m and with t weight subject ocess.	icel the previous one, wi shaft end. olerance of +3dB(A). t to changes after		power supply, MG-1.	subject to th	e tolerances Checke	stipulated in NEMA	
USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	aces and car ed. notor from the 1m and with t weight subject ocess.	icel the previous one, where shaft end. olerance of +3dB(A). It to changes after Changes Summary		power supply, MG-1.	subject to th	e tolerances	stipulated in NEMA	

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Customer

ID	Application	Туре	Quantity	Sensing 1	<b>Femperature</b>
1	Winding	Thermostat - 2 wires	1 x Phase		55 °C
1	winding	memostat - 2 wires	I X FIIdSe		55 C
Pov	Char		Performed	Checked	Dete
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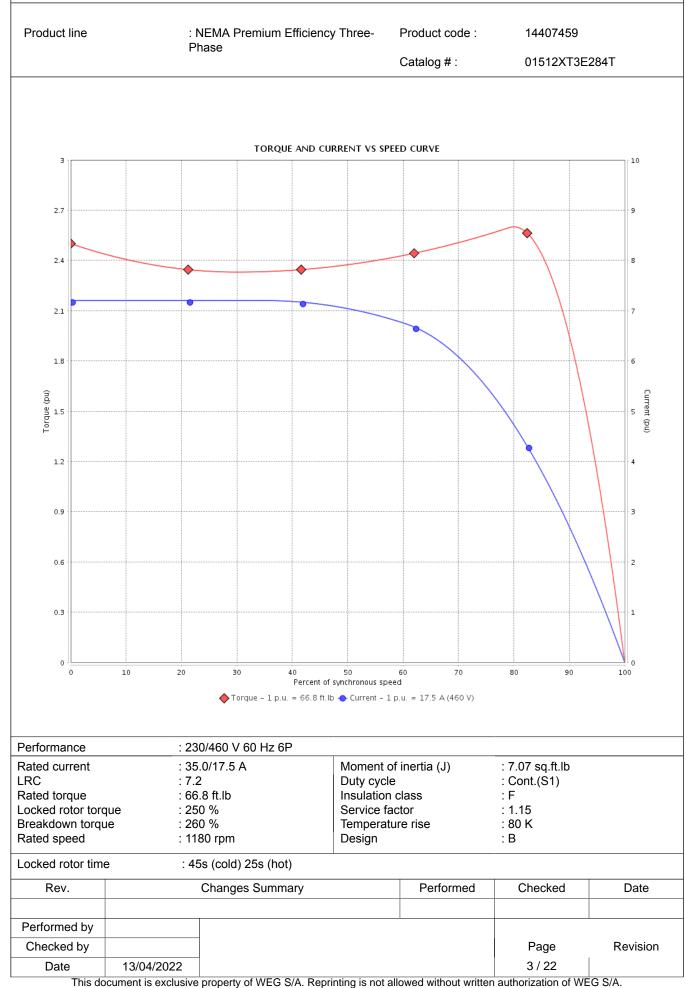
### TORQUE AND CURRENT VS SPEED CURVE

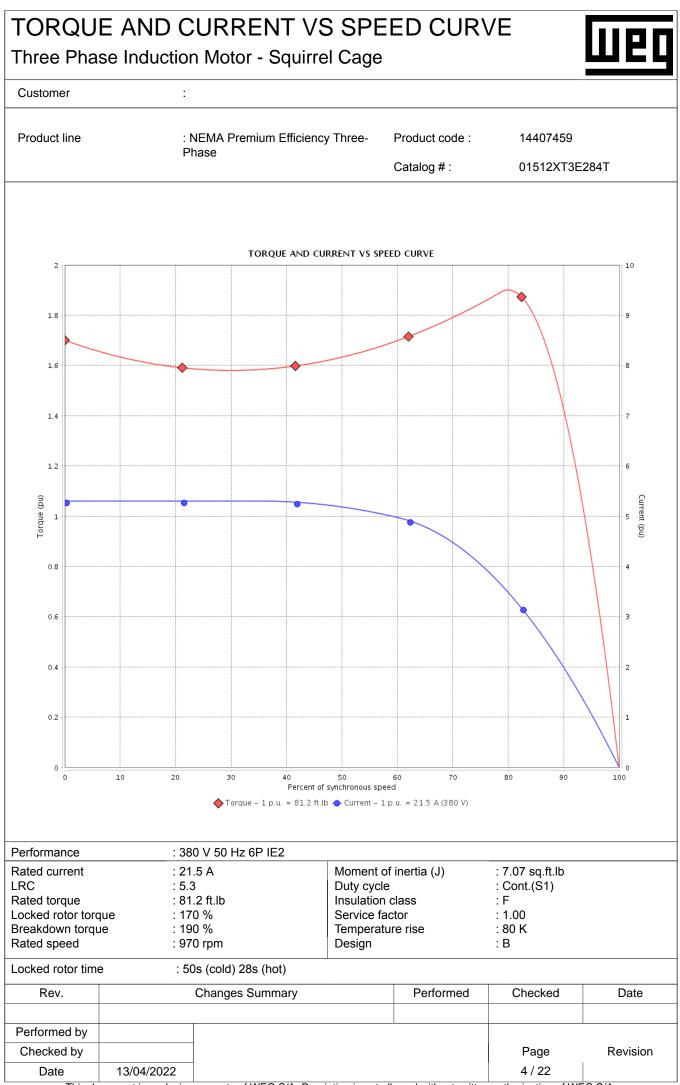
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Customer





### TORQUE AND CURRENT VS SPEED CURVE

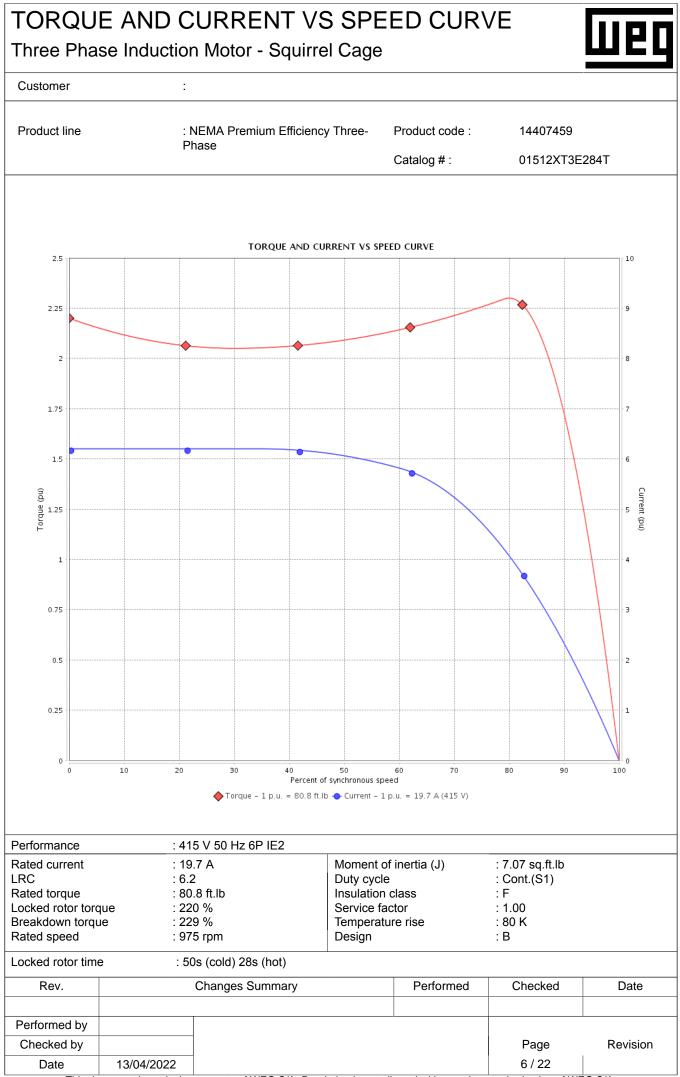
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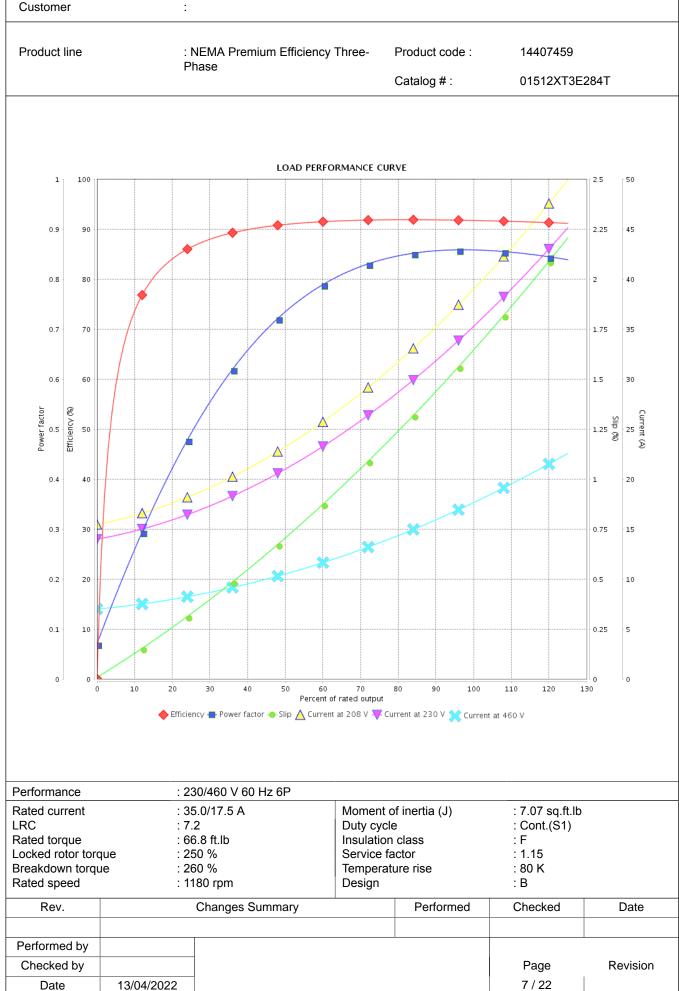
Customer

Product line		NEMA Premium Efficiency	Three-	Product code :	14407459	
	PI	Phase		Catalog # :	01512XT3E	284T
		TORQUE AND CUR	RENT VS SP	EED CURVE		
2.5						10
2.25						9
2				-		8
	•				$\langle \rangle$	
1.75						7
1.5	•					6
înd						Curr
ณี อา 1.25 อา						Current (pu)
						Ŭ
1						4
					<b>A</b>	
0.75						3
0.5						2
0.25						1
0	10 20	30 40 Percent of s	50 Synchronous sp	60 70	80 90	100
		<b>♦</b> Torque - 1 p.u. = 81.2 ft.lb				
erformance ated current	: 40	0 V 50 Hz 6P IE2	Moment	of inertia (J)	: 7.07 sq.ft.lb	
RC	: 5.7	7	Duty cycl	e	: Cont.(S1)	
ated torque ocked rotor torque		.2 ft.lb 0 %	Insulation Service fa		: F : 1.00	
reakdown torque ated speed	: 21		Temperat Design		: 80 K : B	
ocked rotor time		Ds (cold) 28s (hot)	Design		. ບ	
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#### Customer



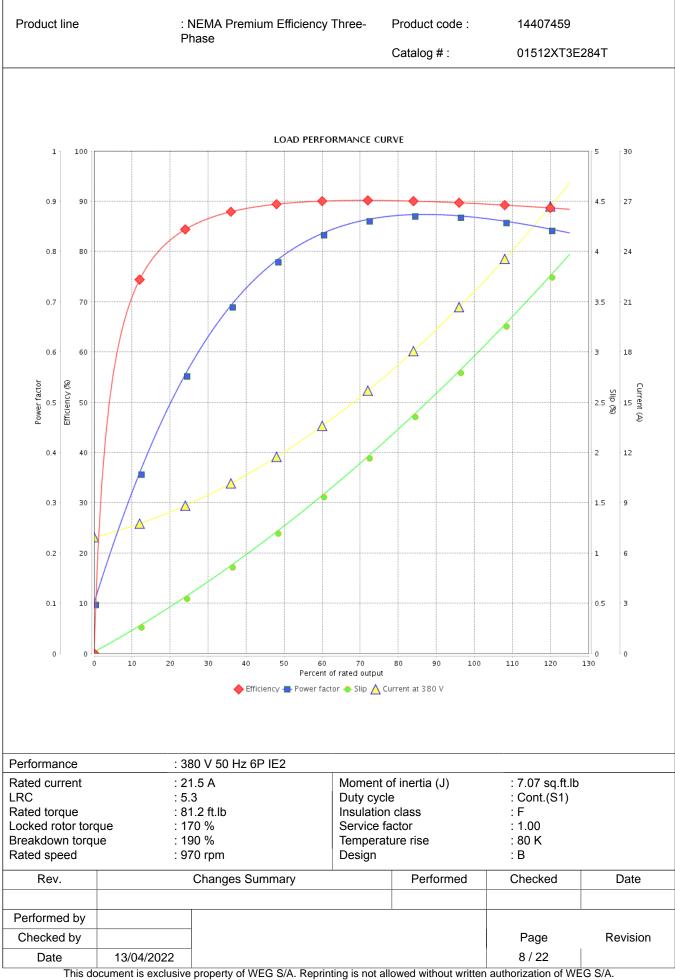
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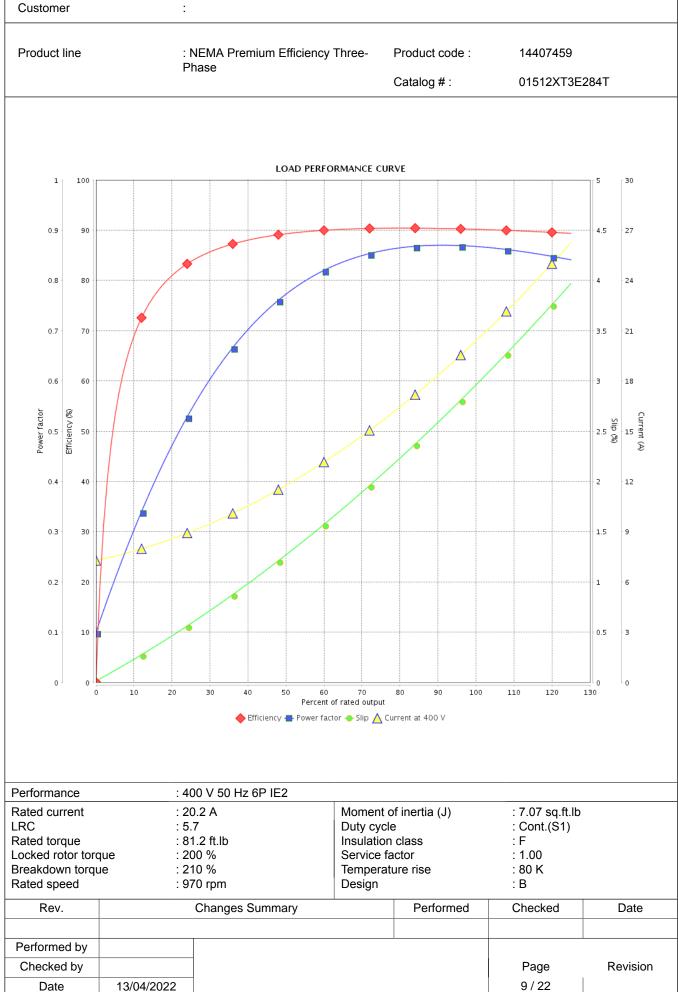


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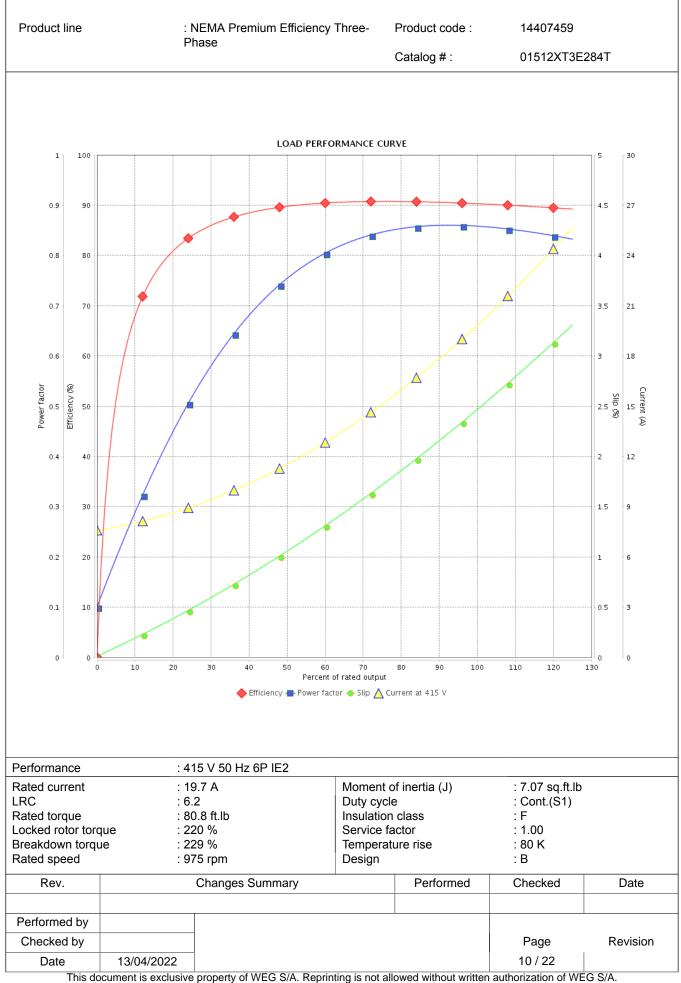
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Customer



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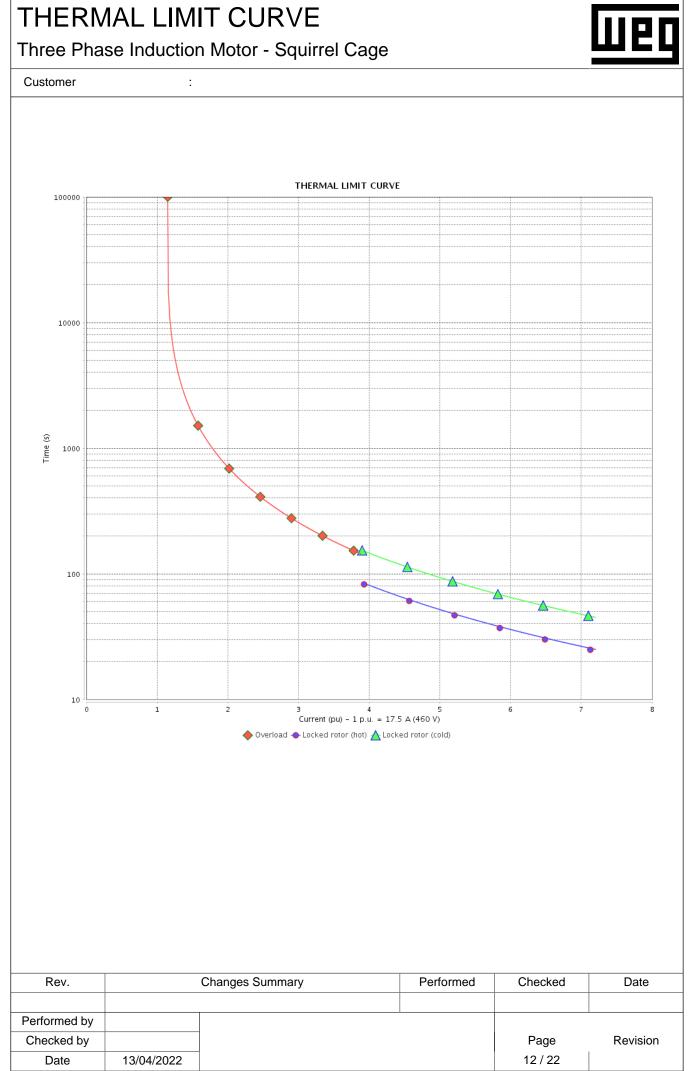
Three Phase Induction Motor - Squirrel Cage

#### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407459
	Phase	Catalog # :	01512XT3E284T

Шед

Performance	: 2	230/460 V 60 Hz 6P				
Rated current: 35.0/17.5 ALRC: 7.2Rated torque: 66.8 ft.lbLocked rotor torque: 250 %Breakdown torque: 260 %Rated speed: 1180 rpmHeating constant		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.07 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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Date	13/04/2022				11 / 22	
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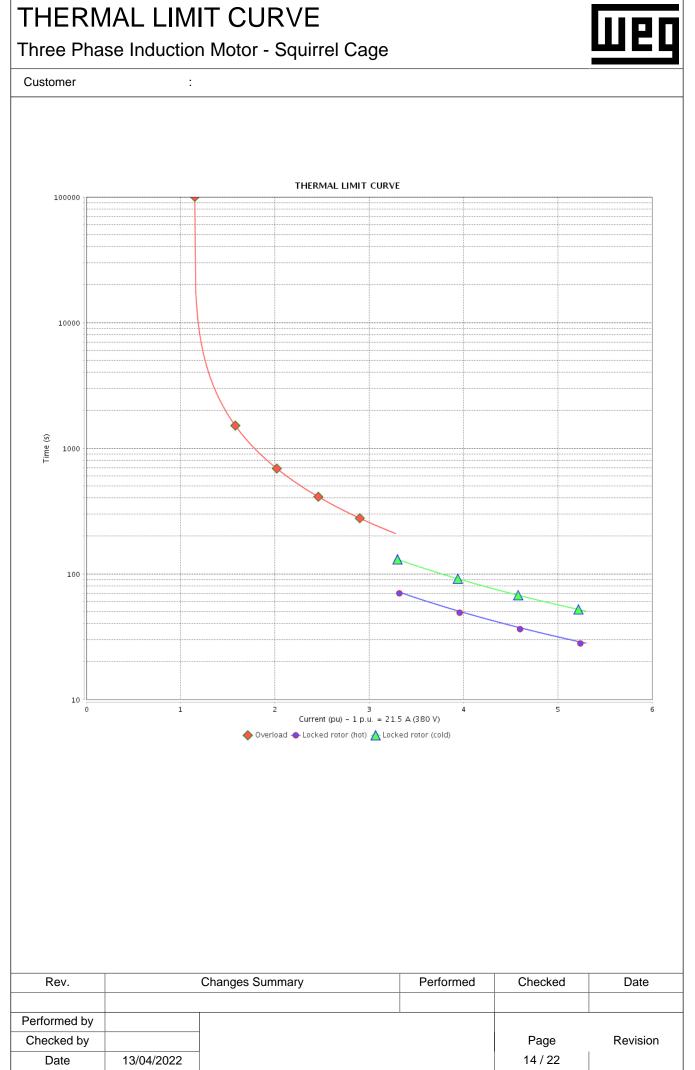
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#### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407459
	Phase	Catalog # :	01512XT3E284T

Шеq

Performance	: 38	80 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	; 5. ; 8 ; 10 ; 11 ; 11 ; 11 ; 11	.5 A Moment of inertia (J)		class ctor	: 7.07 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t					
Cooling constant	t					
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Date	13/04/2022				13 / 22	



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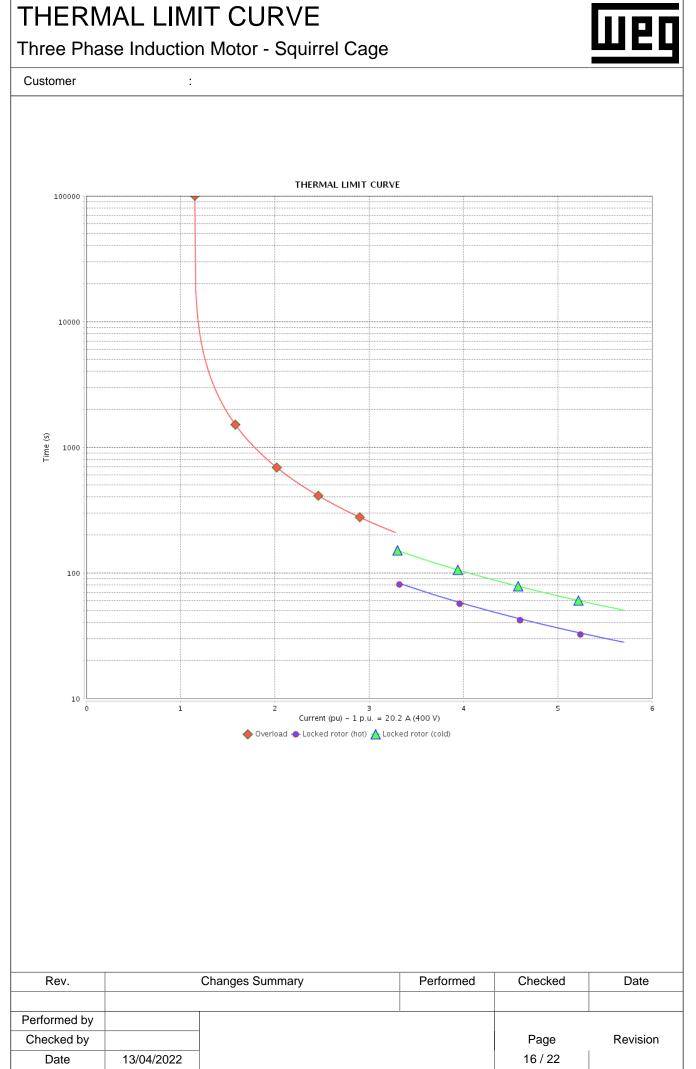
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#### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407459
	Phase	Catalog # :	01512XT3E284T

Шеq

Performance		400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	jue ie	20.2 A 5.7 81.2 ft.lb 200 % 210 % 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.07 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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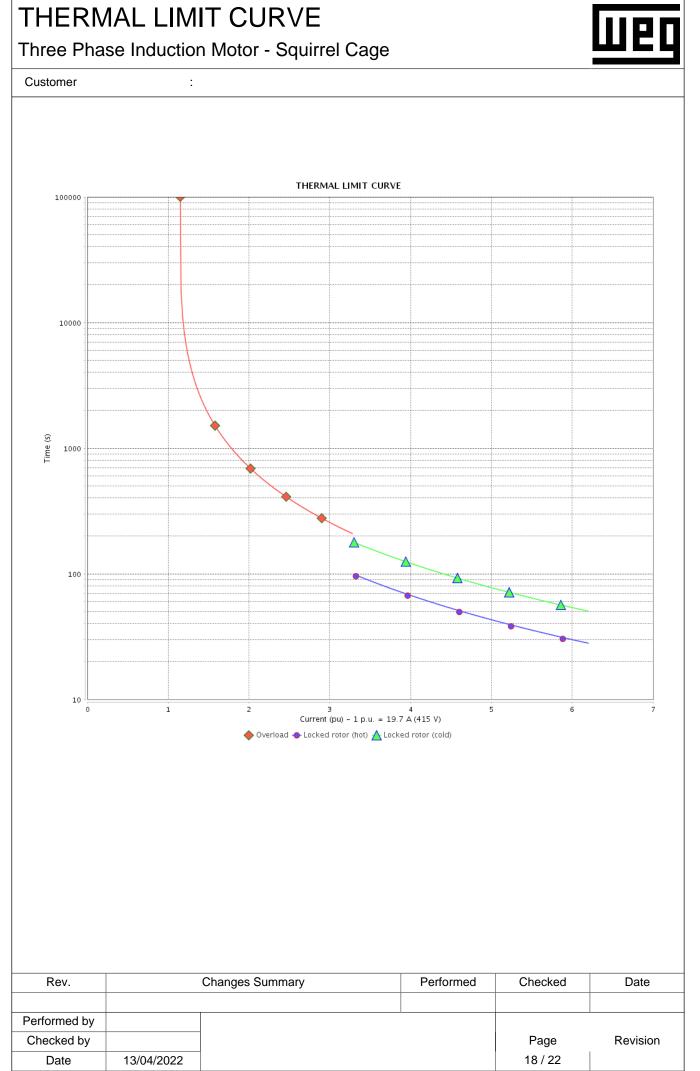
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#### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14407459
	Phase	Catalog # :	01512XT3E284T

Шеq

Performance	:	415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	jue :	19.7 A 6.2 80.8 ft.lb 220 % 229 % 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.07 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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