DATA SHEET

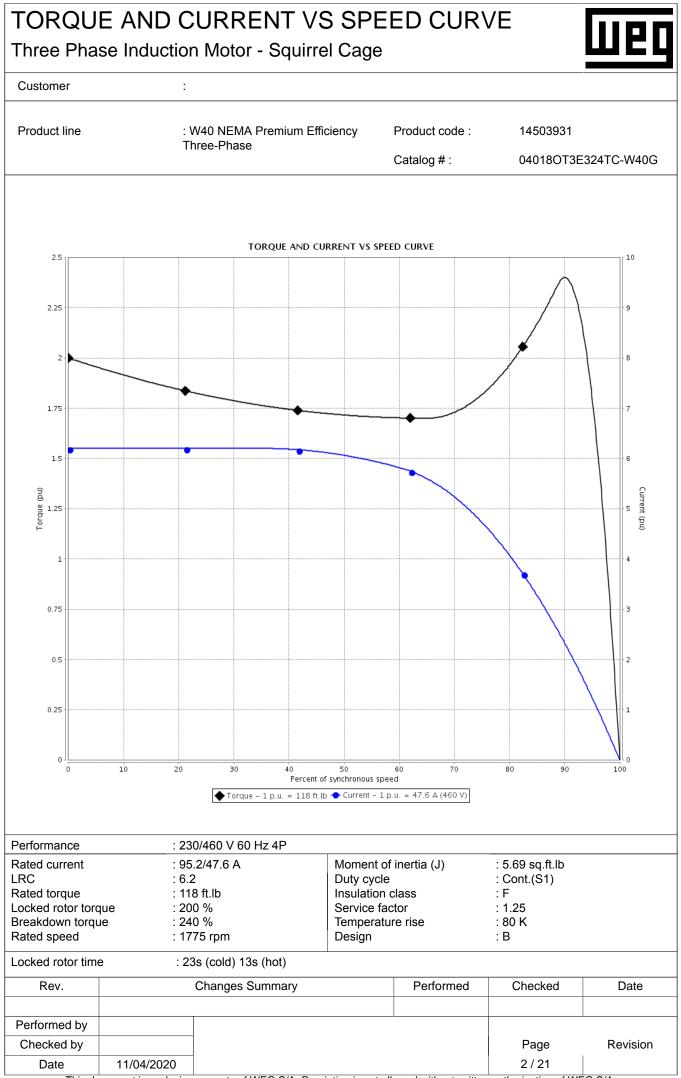
Three Phase Induction Motor - Squirrel Cage

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Customer

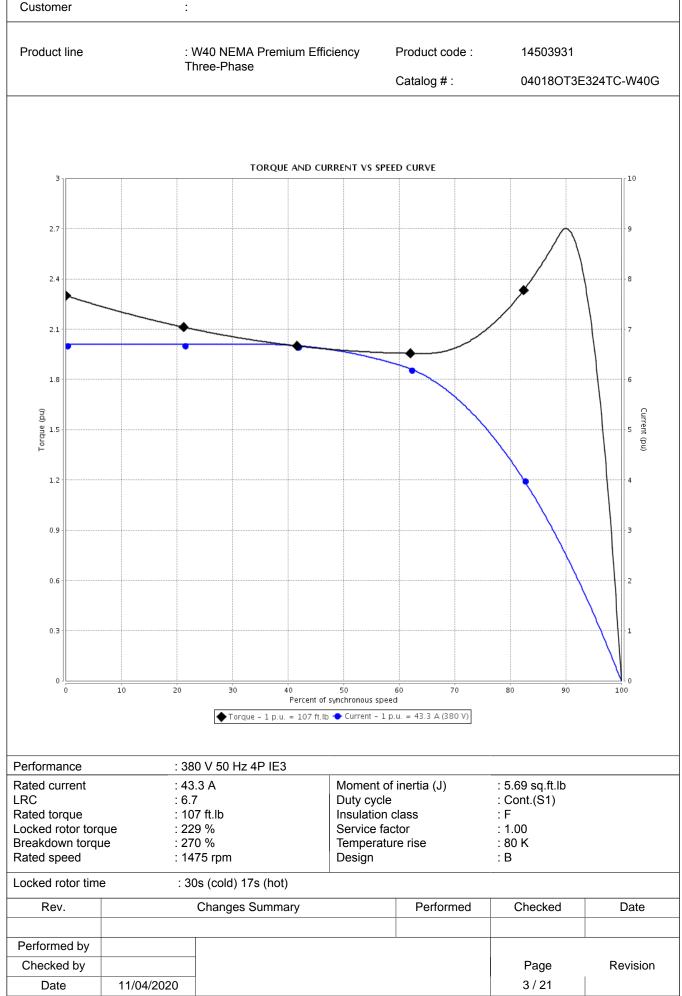
Product line		: W40 NEMA Premium Efficiency Three-Phase			Product code :		14503931	
		Inree-Phase		Ca	talog # :	040180	DT3E324TC-W40G	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 324TC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP23 : B		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 465 lb : 5.69 sq.ft.lb		
Output [HP]		40		30	30)	30	
Poles		4		4	4		4	
Frequency [Hz]		60		50	50		50	
Rated voltage [V]		230/460		380	400		415	
Rated current [A]		95.2/47.6		43.3	42.		41.7	
L. R. Amperes [A]		590/295	~ -	290 7x(Codo LI)	283		313 7 5x(Opdo II)	
LRC [A]	,	6.2x(Code G)	6.7	7x(Code H)	6.7x(Co		7.5x(Code J)	
No load current [A		37.0/18.5		18.3 1475	20.		22.1	
Rated speed [RPN Slip [%]	//]	1775 1.39		1475	148		1480 1.33	
Rated torque [ft.lb]	1	1.39		1.07	1.3		1.55	
Locked rotor torque		200		229	26		280	
Breakdown torque			240		300		330	
Service factor	r1	1.25		270 1.00	1.0		1.00	
Temperature rise		80 K			80		80 K	
Locked rotor time		23s (cold) 13s (hot)	80 K 30s (cold) 17s (h				25s (cold) 14s (hot)	
Noise level ²		66.0 dB(A)						
	25%	93.5	92.4		92.		92.4	
Efficiency (%)	50%	93.6	92.6		92.		92.5	
	75%	94.1	93.0		93.		93.0	
	100%	94.1	93.0		93.		93.0	
	25%	0.44		0.42	0.3		0.34	
Power Factor	50% 75%	0.70 0.80		0.68 0.78	0.6		0.59 0.72	
	100%	0.80		0.78	0.7		0.72	
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type	/al	Drive endNon dr:6312 Z C3621:WithoutWiBearing SealBeari:20000 h20	ive end 1 Z C3 ithout ing Seal 000 h 11 g	Foundation Max. tractic Max. comp	loads			
Notes USABLE @208V This revision repla		15 SFA 121A	nich	These are a	average values t	based on tes	ts with sinusoidal	
must be eliminate (1) Looking the m (2) Measured at 1	ed. lotor from the Im and with t weight subjec ocess.	·					stipulated in NEMA	
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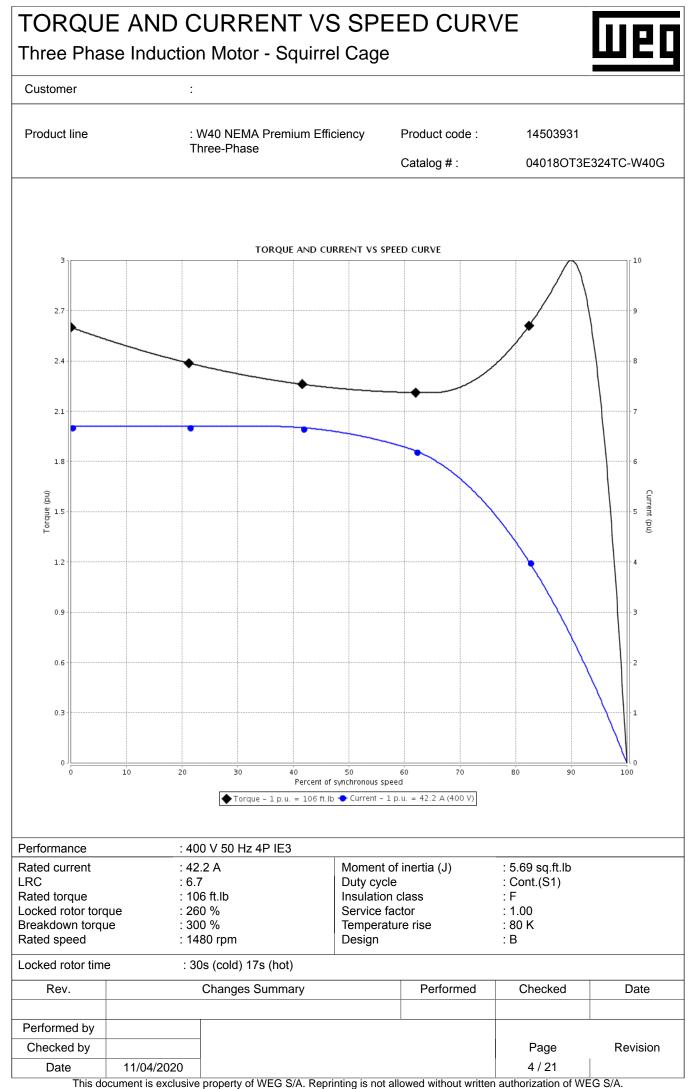
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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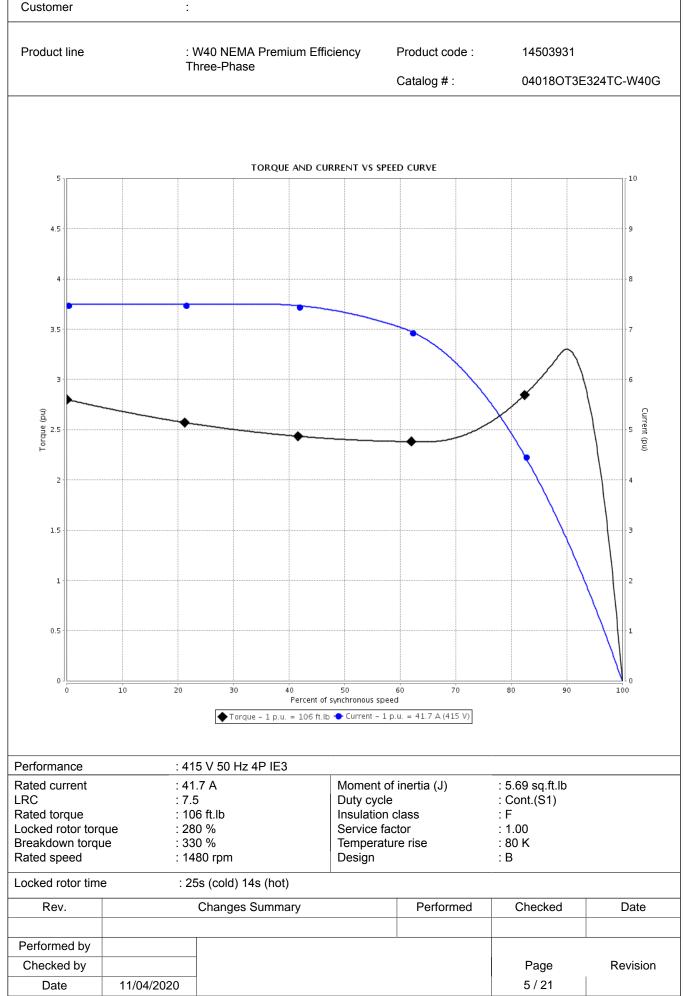
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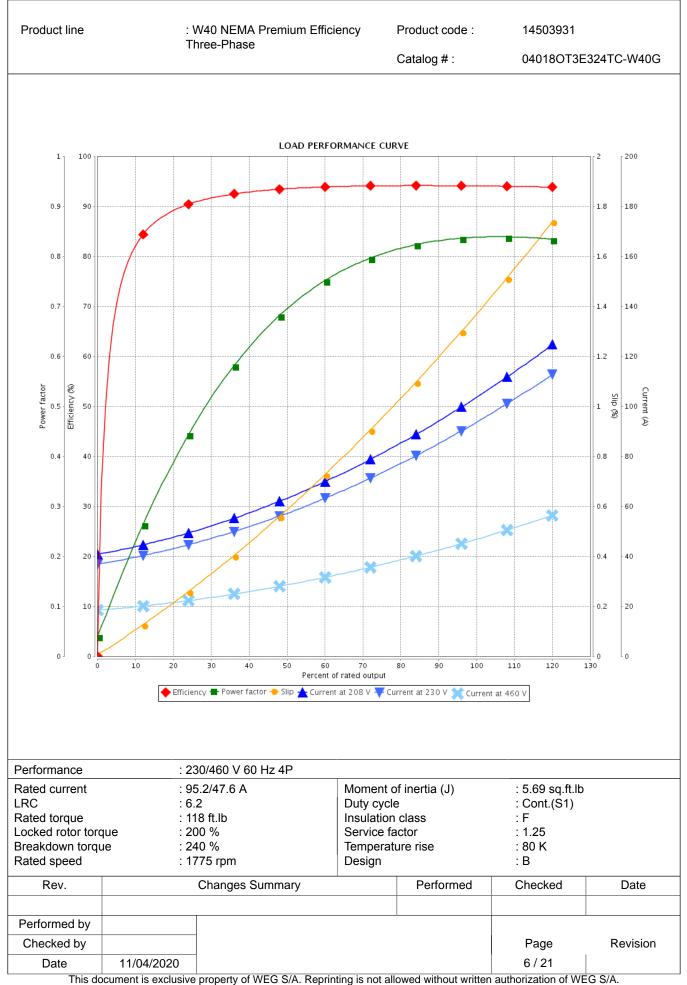
LOAD PERFORMANCE CURVE

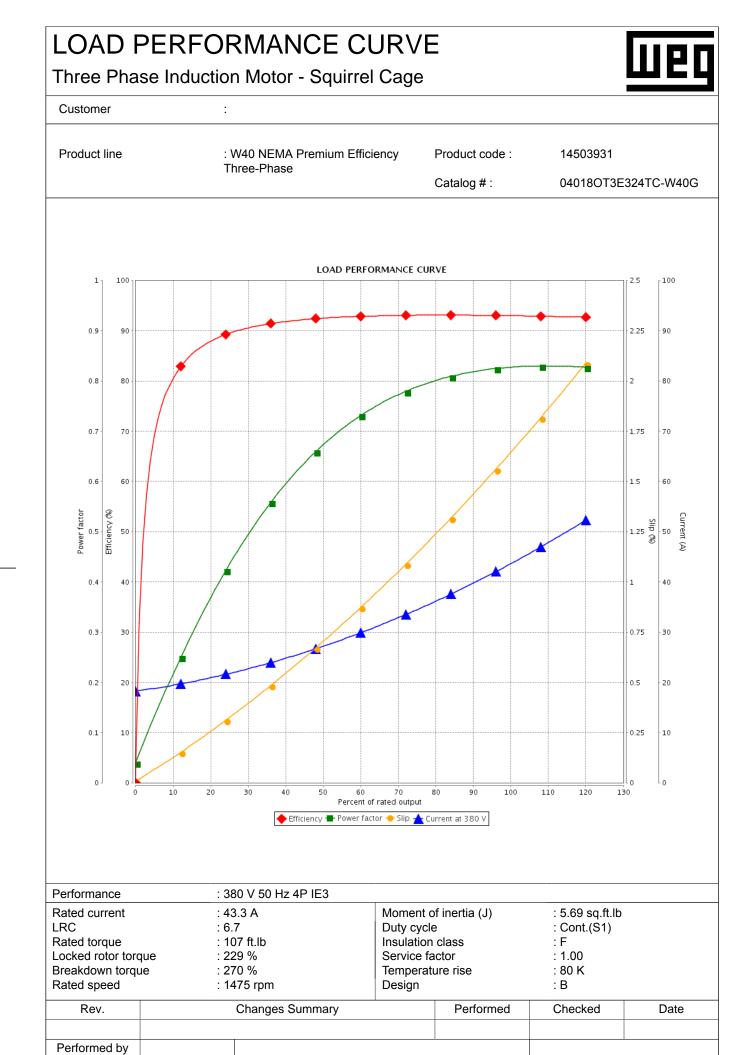
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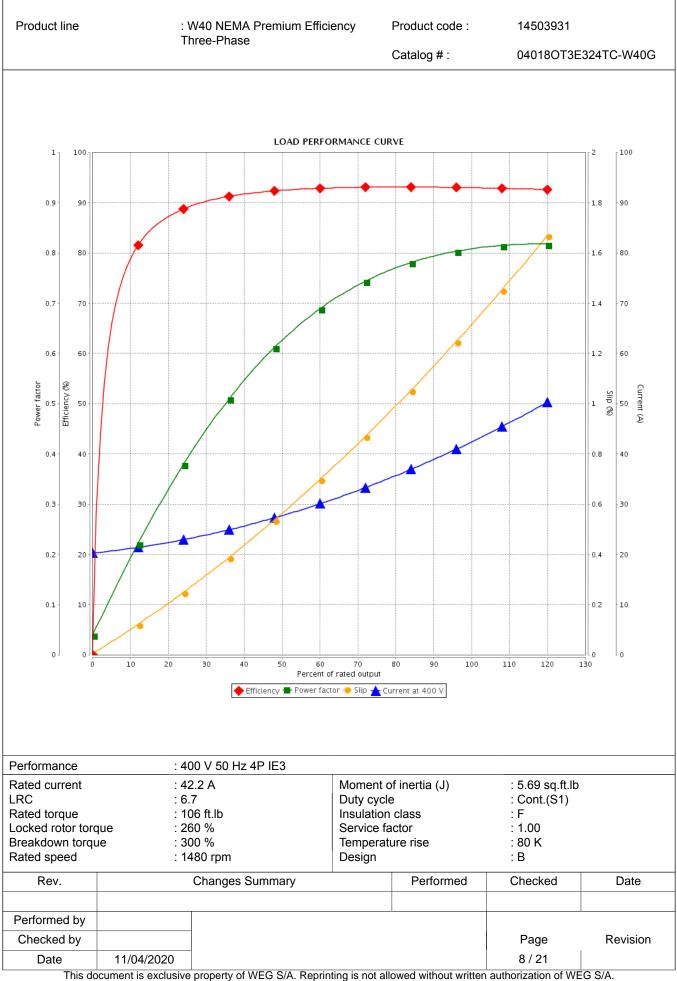
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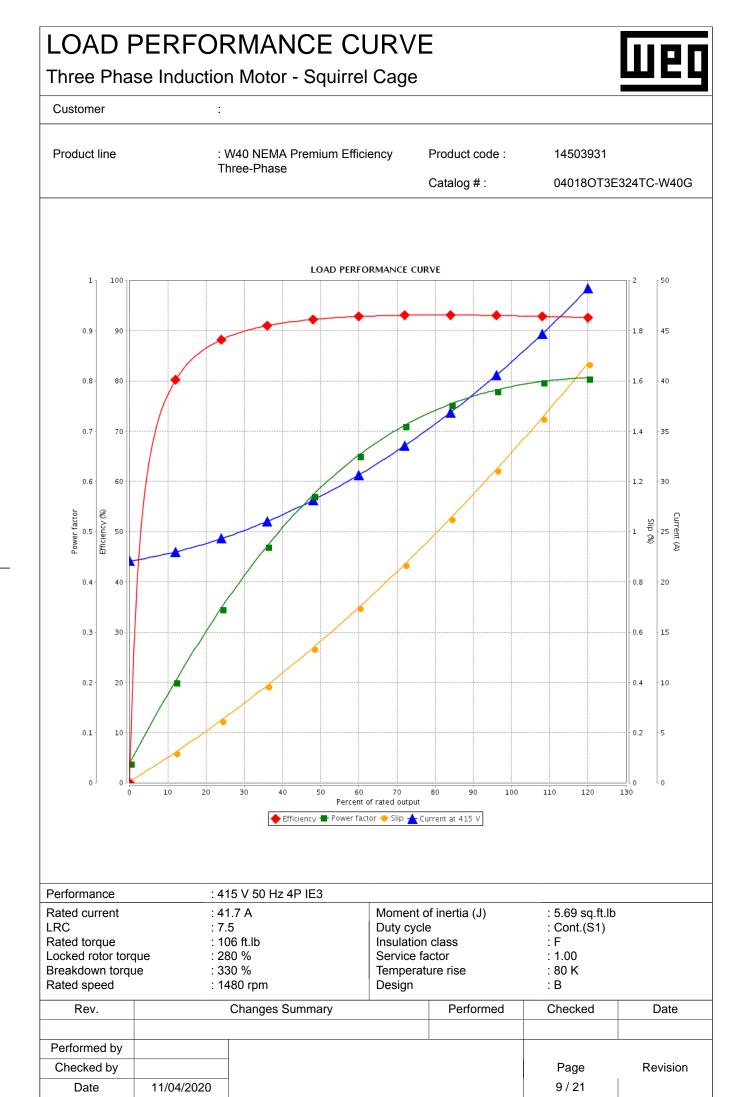
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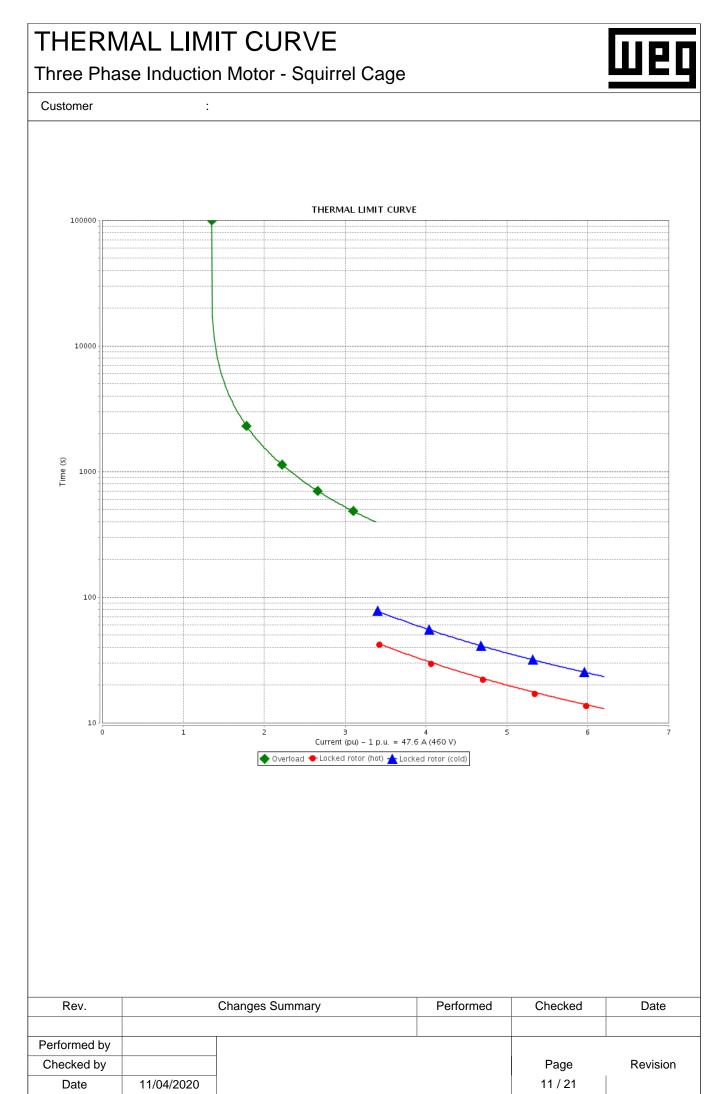
Product line	: \	: W40 NEMA Premium Efficiency		Product code :	14503931		
	T	hree-Phase		Catalog # :	04018OT3E3	24TC-W40G	
Performance		30/460 V 60 Hz 4P	Managata	f := (1)	- 5 00 # lb		
LRC		: 6.2 Duty cy		f inertia (J)	: 5.69 sq.ft.lb : Cont.(S1)		
Rated torque		18 ft.lb 00 %	Insulation Service fa		: F : 1.25		
Breakdown torque : 240		240 % Tempera			: 80 K		
Rated speed		775 rpm	Design		: B		
Heating constant							
Cooling constant Rev.		Changes Summary		Performed	Checked	Date	
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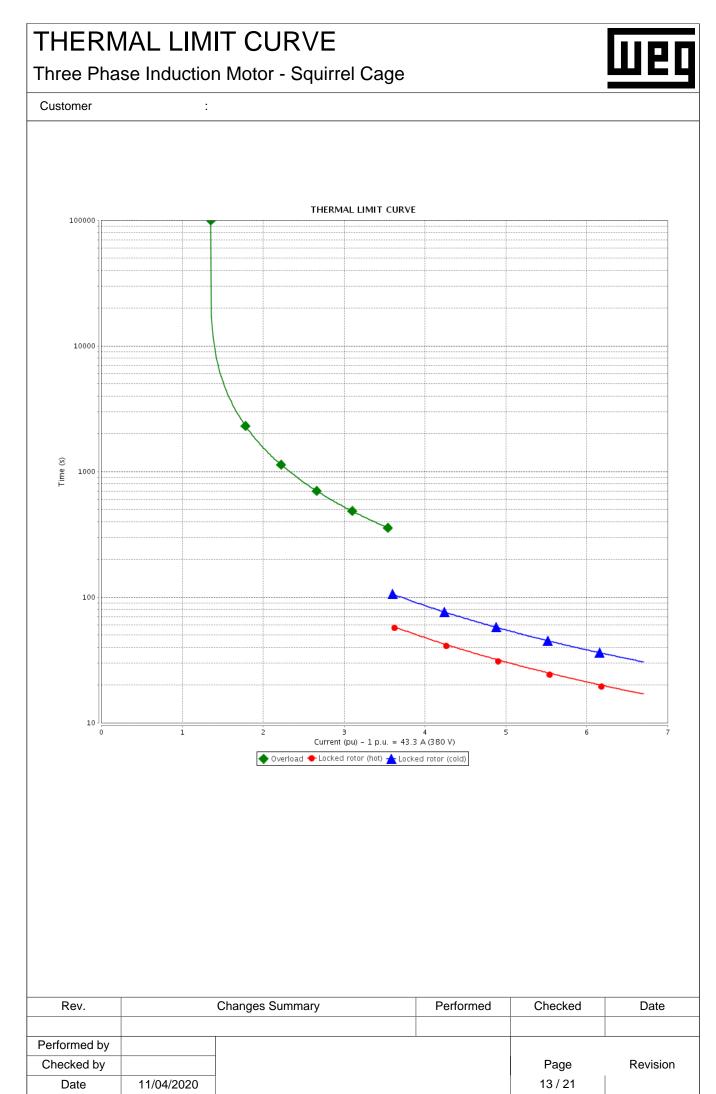
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Product line	: T	W40 NEMA Premium Efficie Three-Phase	ency	Product code :	14503931	
	·			Catalog # :	04018OT3E3	24TC-W40G
Performance		80 V 50 Hz 4P IE3				
Rated current LRC	: 4 : 6	3.3 A	Moment o Duty cycle	f inertia (J)	: 5.69 sq.ft.lb : Cont.(S1)	
Rated torque	: 1	07 ft.lb	Insulation	class	: F	
Locked rotor torc Breakdown torqu		229 % 270 %	Service fa		: 1.00 : 80 K	
Rated speed		475 rpm	Design	lie lise	: B	
Heating constant	 t					
Cooling constant						
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Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14503931	14503931	
				Catalog # :	04018OT3E3	324TC-W40G	
Performance		400 V 50 Hz 4P IE3					
Rated current LRC		42.2 A 6.7	Moment o Duty cycle	f inertia (J)	: 5.69 sq.ft.lb : Cont.(S1)		
Rated torque	:	106 ft.lb	Insulation	class	: F		
Locked rotor torc Breakdown torqu	lue : Ie :	260 % 300 %	Service fa Temperati		: 1.00 : 80 K		
Rated speed		1480 rpm	Design		: B		
Heating constant							
Cooling constant		Changes Ormer		Derferrer	Oh lis l	Data	
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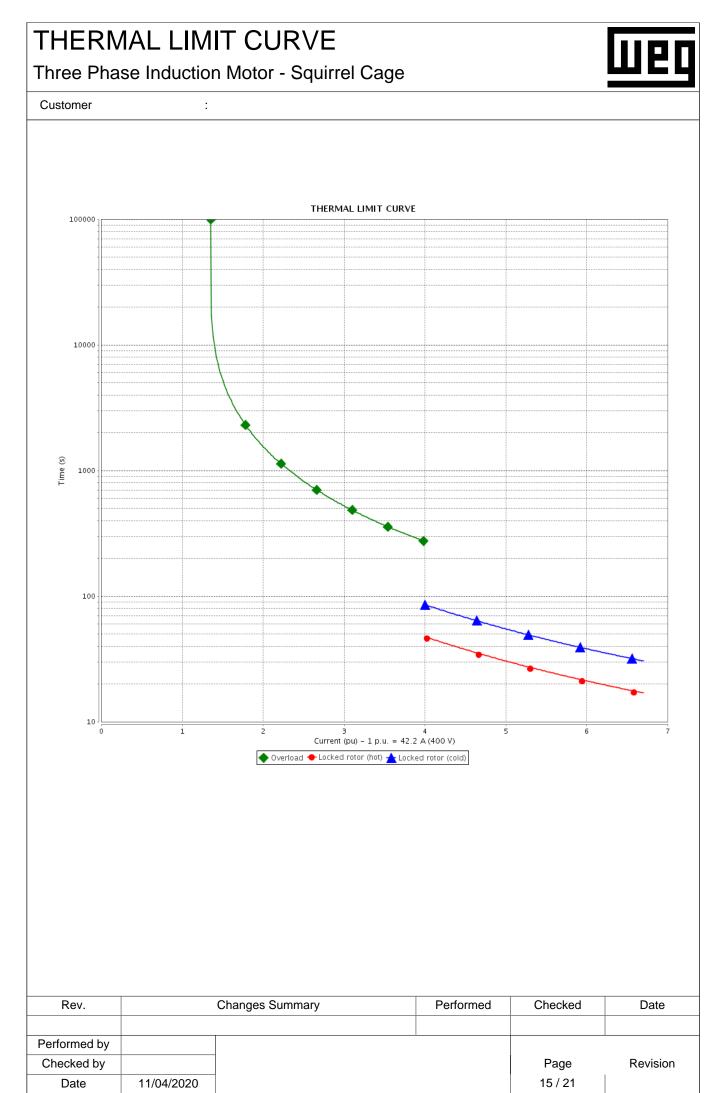
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Product line	: W40 NEMA Premiun Three-Phase	n Efficiency	Product code :	14503931	
			Catalog # :	04018OT3E3	24TC-W40G
Performance	: 415 V 50 Hz 4P IE3				
Rated current	: 41.7 A	Moment of	of inertia (J)	: 5.69 sq.ft.lb	
LRC Rated torque	: 7.5 : 106 ft.lb	Duty cycle Insulation	e ⊧class	: Cont.(S1) : F	
Locked rotor torque	: 280 %	Service fa	actor	: 1.00	
Breakdown torque Rated speed	: 330 % : 1480 rpm	Temperat Design	ure rise	: 80 K : B	
Heating constant					
Cooling constant			,		
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