DATA SHEET

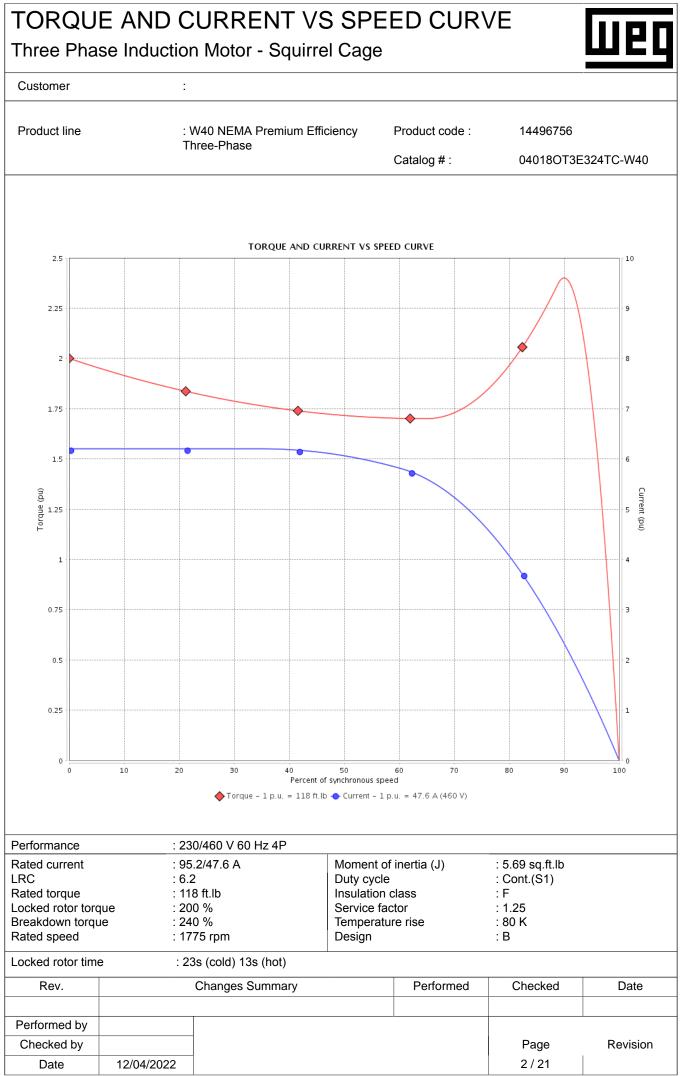
Three Phase Induction Motor - Squirrel Cage

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Customer

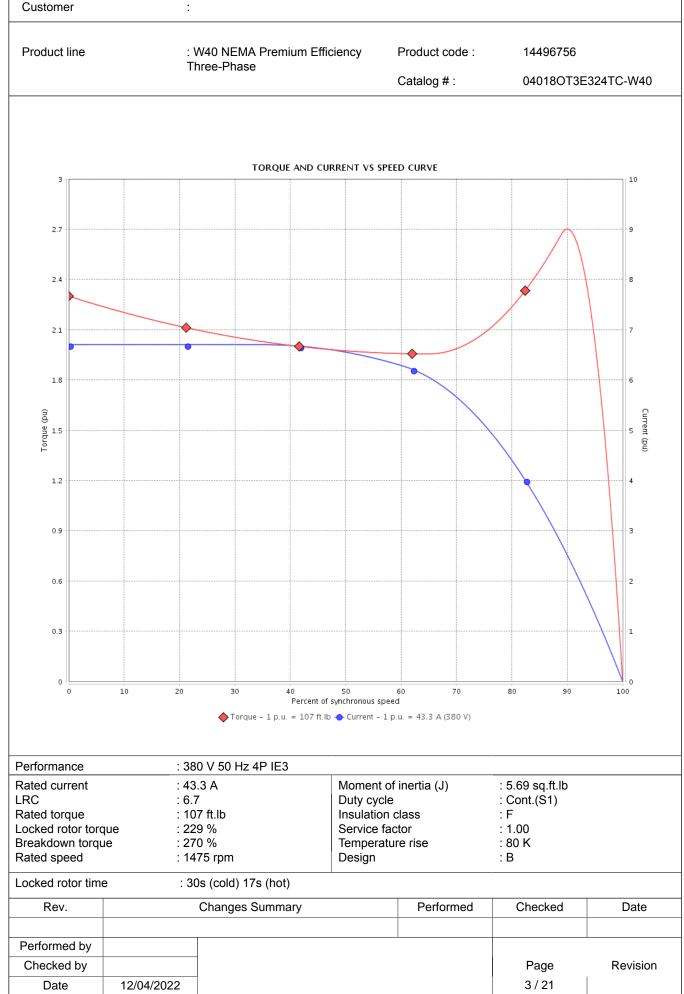
Product line		: W40 NEMA Premium Efficien		ncy Product code :		14496756	
		Three-Phase		Catal	og # :	04018	OT3E324TC-W40
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 324TC : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP23 : B		Cooling method Mounting 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		40		<u> </u>	30		4
Frequency [Hz]		60		50	50		50
Rated voltage [V]		230/460		380	400		415
Rated current [A]		95.2/47.6		43.3 4			41.7
. R. Amperes [A]		590/295		290	283		313
RC [A]		6.2x(Code G)	6.7	x(Code H)	6.7x(Code H)		7.5x(Code J)
No load current [A]	37.0/18.5		18.3	20.3		22.1
Rated speed [RPN		1775		1475	1480		1480
Slip [%]		1.39	1.67		1.33		1.33
Rated torque [ft.lb]	118	107		106		106
ocked rotor torqu		200	229		260		280
Breakdown torque		240	270		300		330
Service factor		1.25		1.00	1.00		1.00
Temperature rise		80 K	80 K		80 K		80 K
ocked rotor time		23s (cold) 13s (hot)	30s (cold) 17s (hot)		30s (cold) 1	7s (hot)	25s (cold) 14s (hot)
Noise level ²		66.0 dB(A)					
	25%	93.5	92.4		92.5		92.4
Efficiency (%)	50%	93.6	92.6		92.6		92.5
	75%	94.1		93.0	93.0		93.0
	100%	94.1		93.0	93.0		93.0
	25%	0.44	0.42		0.38		0.34
Power Factor	50%	0.70		0.68	0.63		0.59
	75%	0.80		0.78	0.75		0.72
	100%	0.84		0.83	0.81		0.79
Bearing type:631Sealing:WBearLubrication interval:20		: 6312 Z C3 621 : Without W Bearing Seal Bear : 20000 h 20	6312 Z C36211 Z C3Max. tractionWithoutWithoutMax. compressionBearing SealBearing SealMax. compression20000 h20000 h20000 h21 g11 g				
Lubricant type Notes USABLE @208V		: Mobil Polyrex E					
Lubricant type Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1	2 105A SF 1.1 aces and car ed. notor from the Im and with t weight subject ocess.	: Mobil Polyrex E	ĒM				sts with sinusoidal stipulated in NEMA
Lubricant type Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	2 105A SF 1.1 aces and car ed. notor from the Im and with t weight subject ocess.	: Mobil Polyrex E 5 SFA 121A ncel the previous one, wh e shaft end. olerance of +3dB(A).	ΞM	power supply, MG-1.			stipulated in NEMA
Lubricant type Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing private (4) At 100% of ful	2 105A SF 1.1 aces and car ed. notor from the Im and with t weight subject ocess.	: Mobil Polyrex E 5 SFA 121A ncel the previous one, while shaft end. olerance of +3dB(A).	ΞM	power supply, MG-1.	subject to the	tolerances	stipulated in NEMA
Lubricant type Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	2 105A SF 1.1 aces and car ed. notor from the Im and with t weight subject ocess.	: Mobil Polyrex E 5 SFA 121A ncel the previous one, while shaft end. olerance of +3dB(A).	ΞM	power supply, MG-1.	subject to the	tolerances	stipulated in NEMA



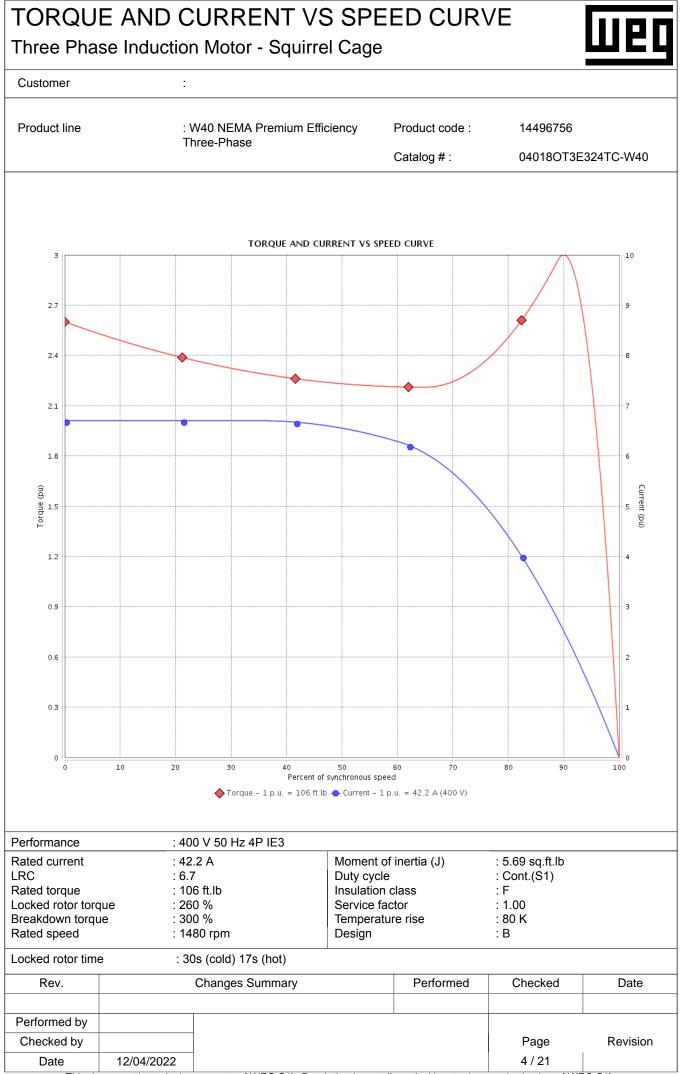
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



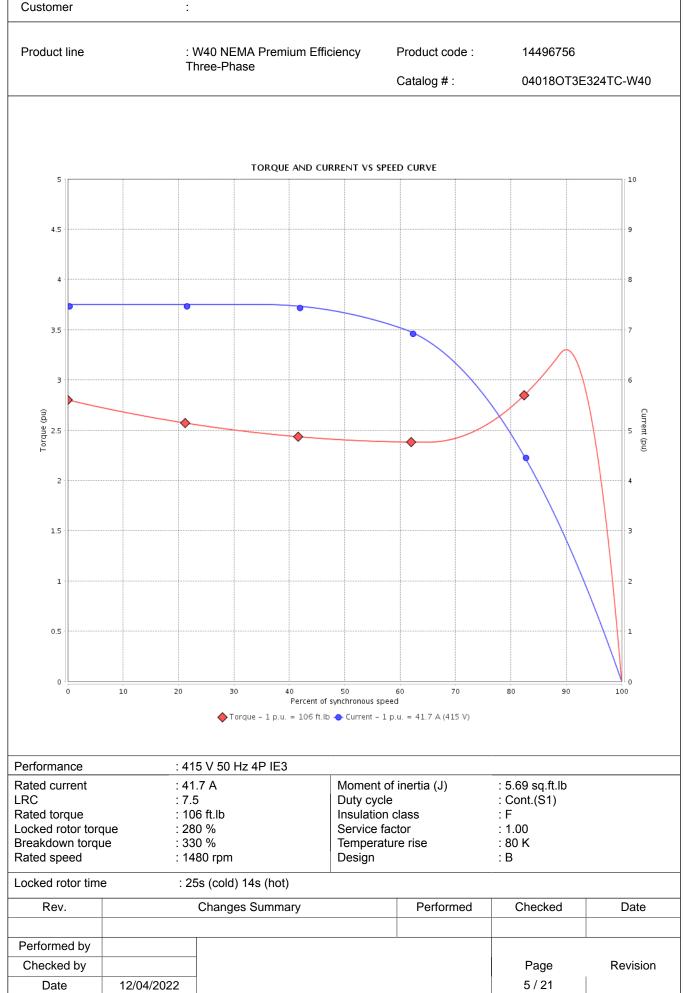
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TORQUE AND CURRENT VS SPEED CURVE

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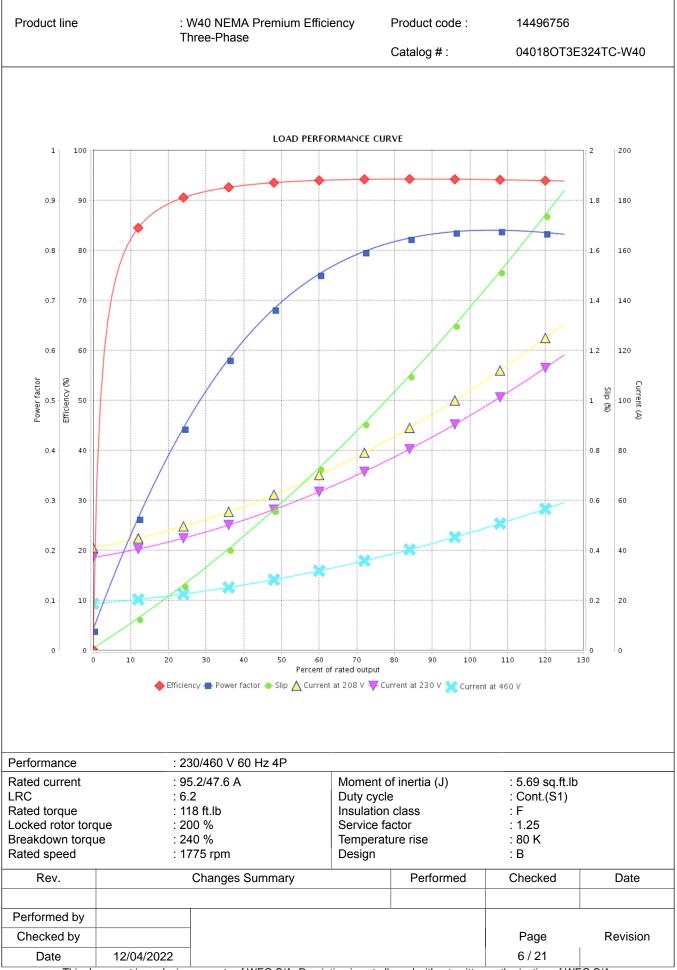
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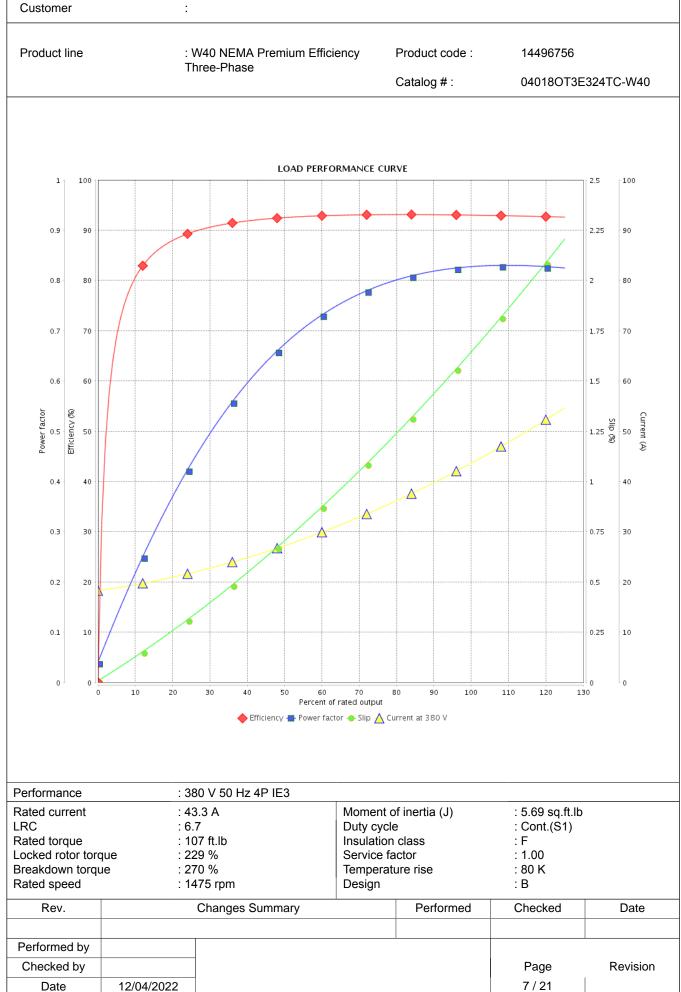


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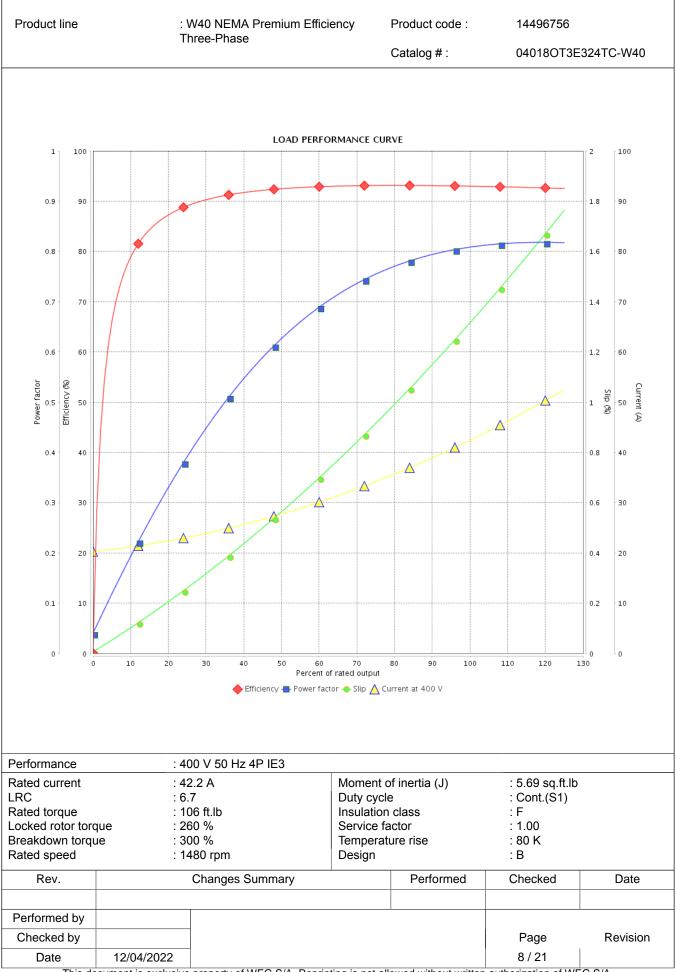
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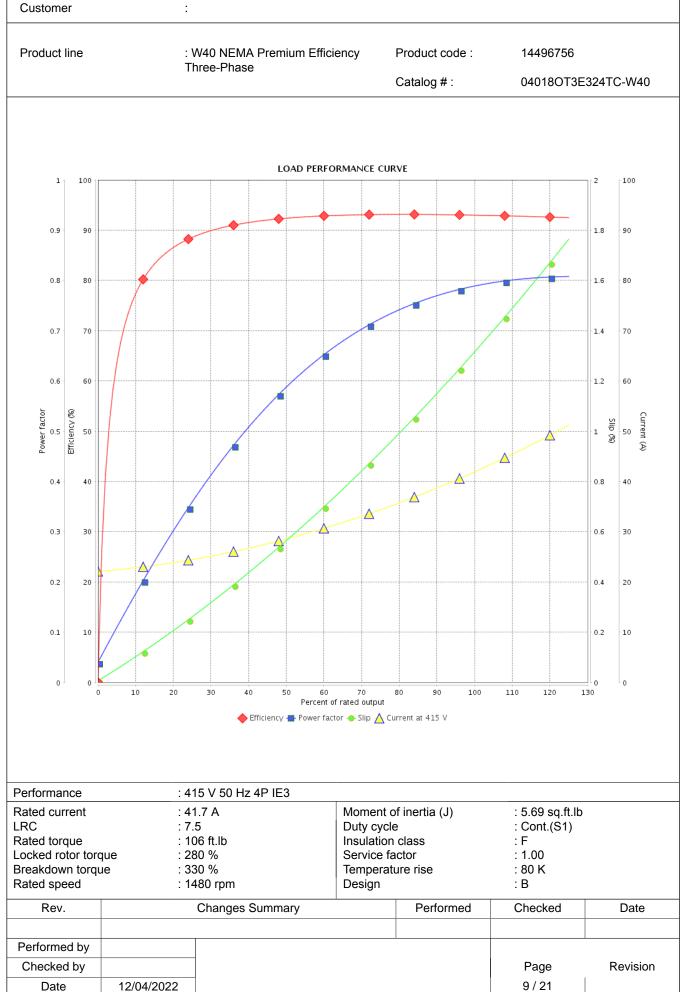


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THERMAL LIMIT CURVE

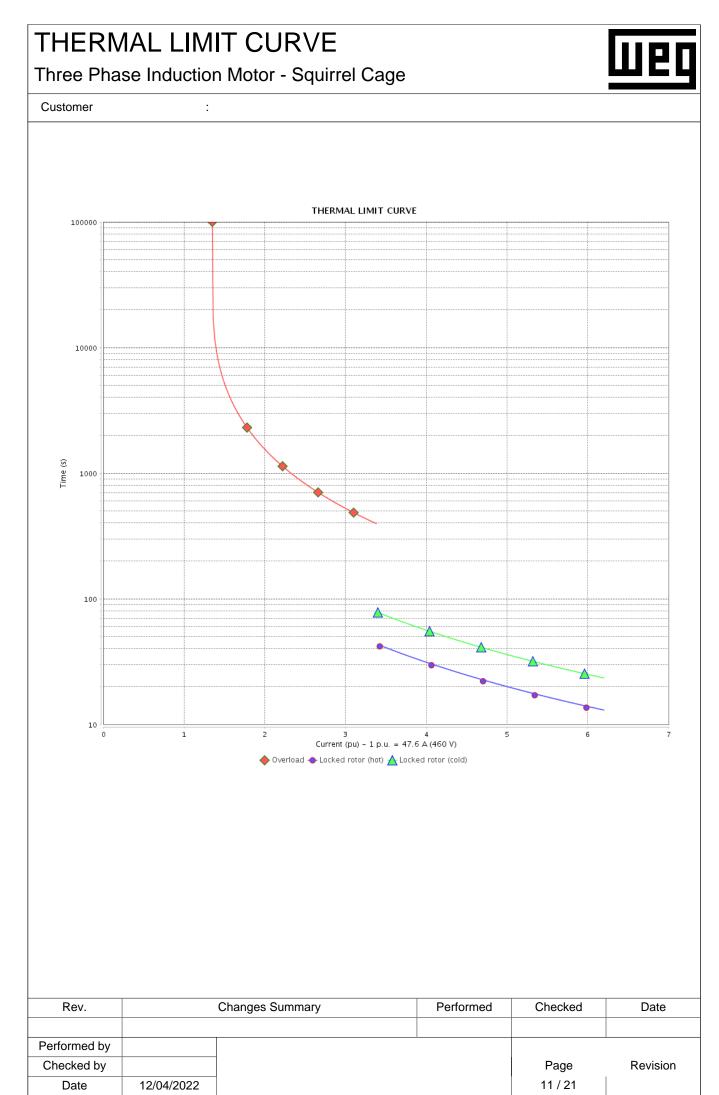
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line		W40 NEMA Premium Efficie hree-Phase	ency	Product code :	14496756	
	I	niee-Phase		Catalog # :	04018OT3E3	24TC-W40
Performance	: 2	30/460 V 60 Hz 4P				
Rated current _RC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 6 : 1 ue : 2 e : 2	5.2/47.6 A .2 18 ft.lb 00 % 40 % 775 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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Date	12/04/2022	-			10 / 21	



THERMAL LIMIT CURVE

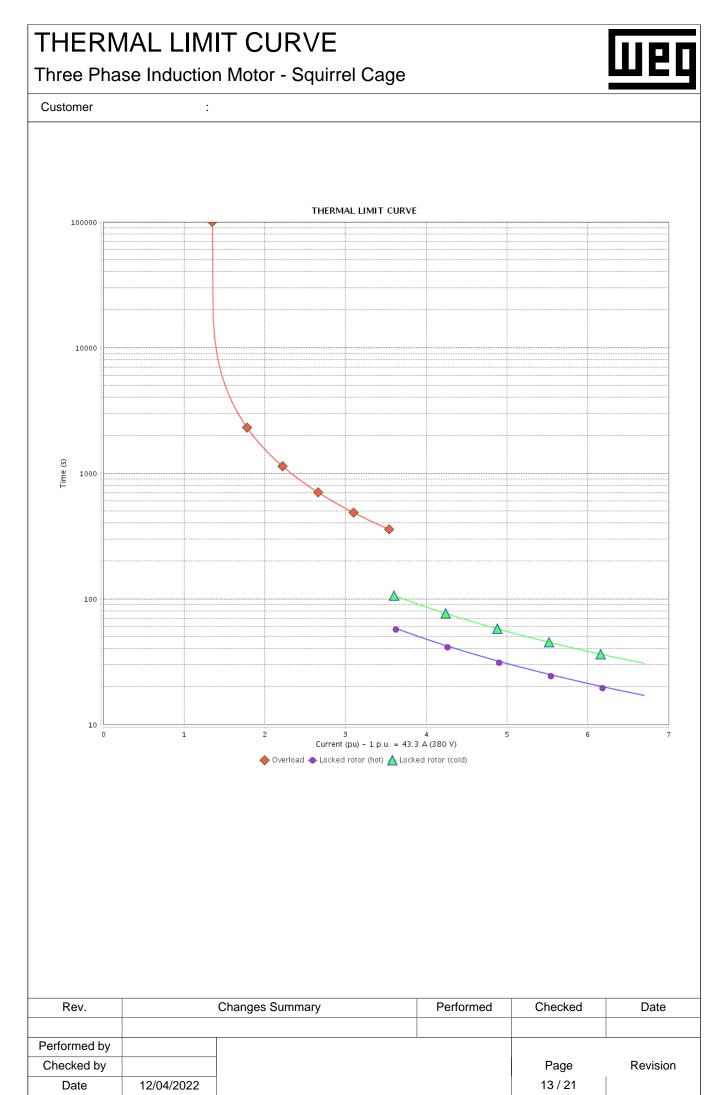
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14496756	14496756	
				Catalog # :	04018OT3E3	24TC-W40	
Performance		380 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed Heating constan	ine : :	43.3 A 6.7 107 ft.lb 229 % 270 % 1475 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Cooling constant							
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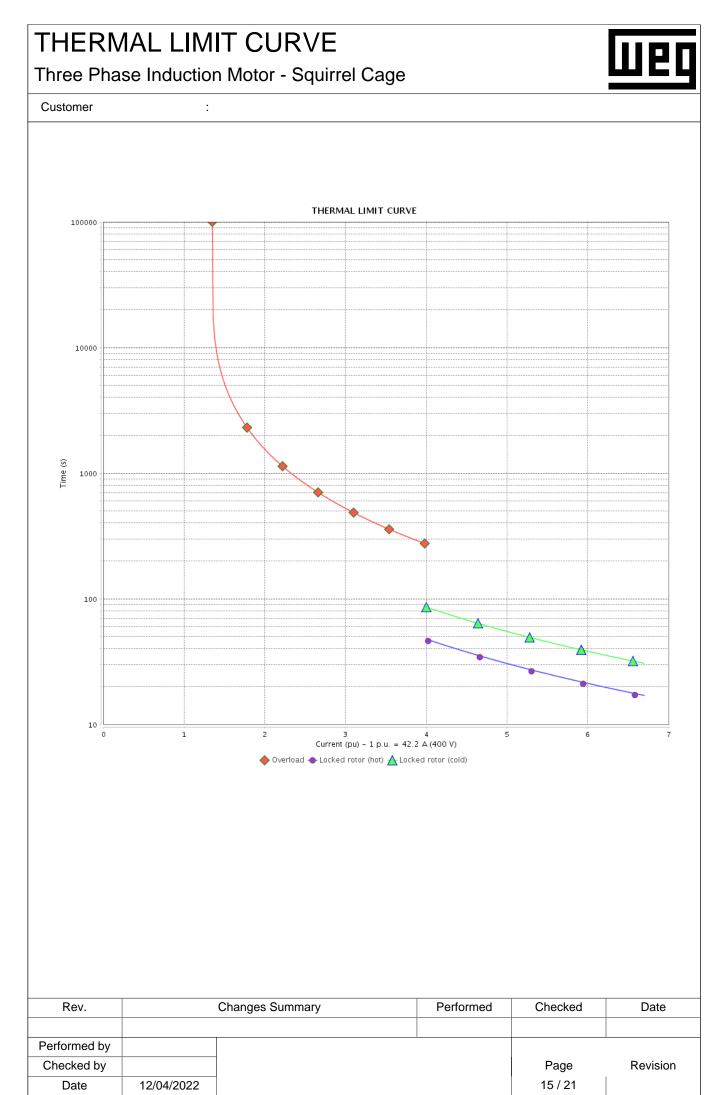
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14496756	14496756	
	1			Catalog # :	04018OT3E3	24TC-W40	
Performance		00 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 6 : 1 jue : 2 ie : 3	2.2 A .7 06 ft.lb 60 % 00 % 480 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
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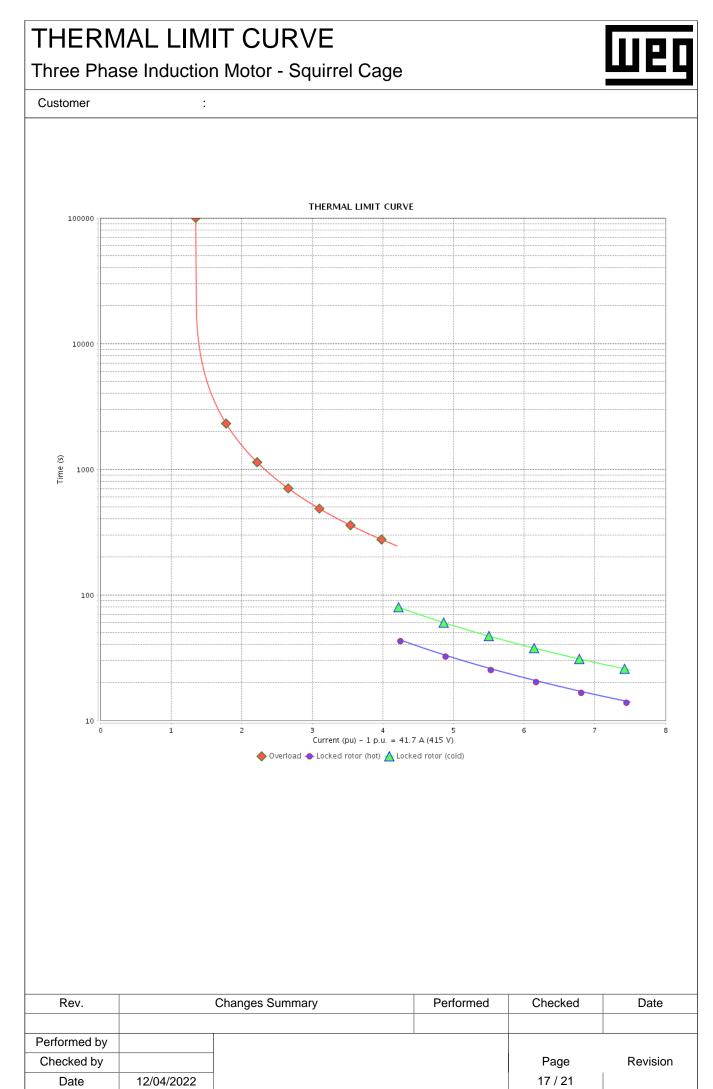
Three Phase Induction Motor - Squirrel Cage

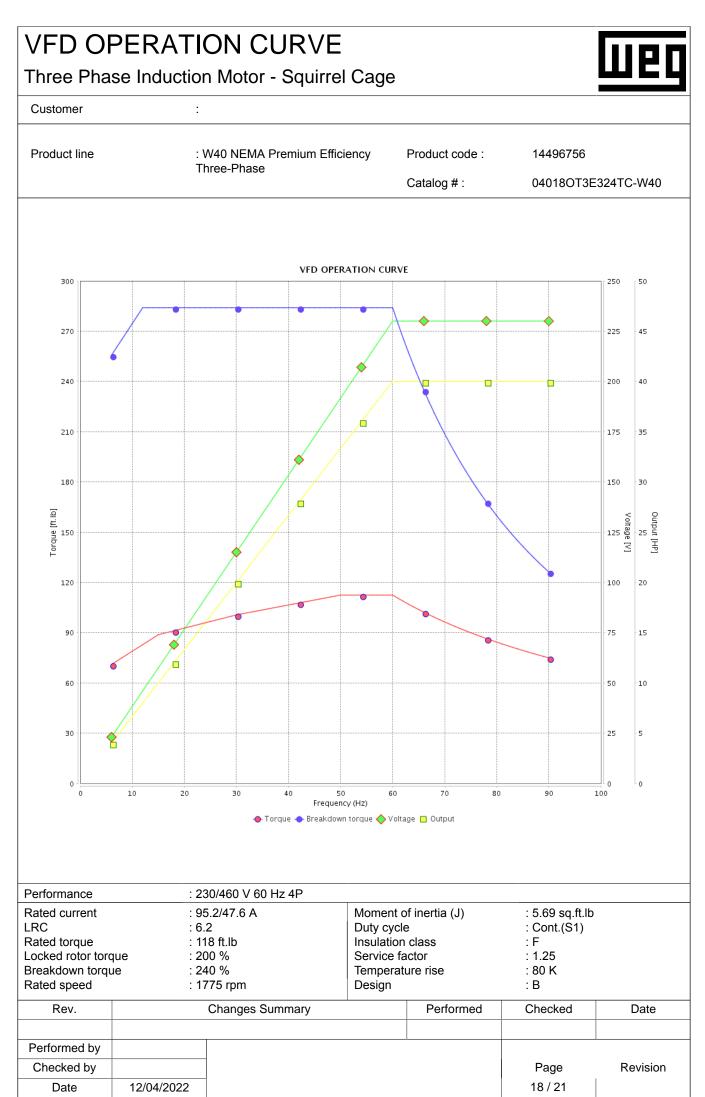
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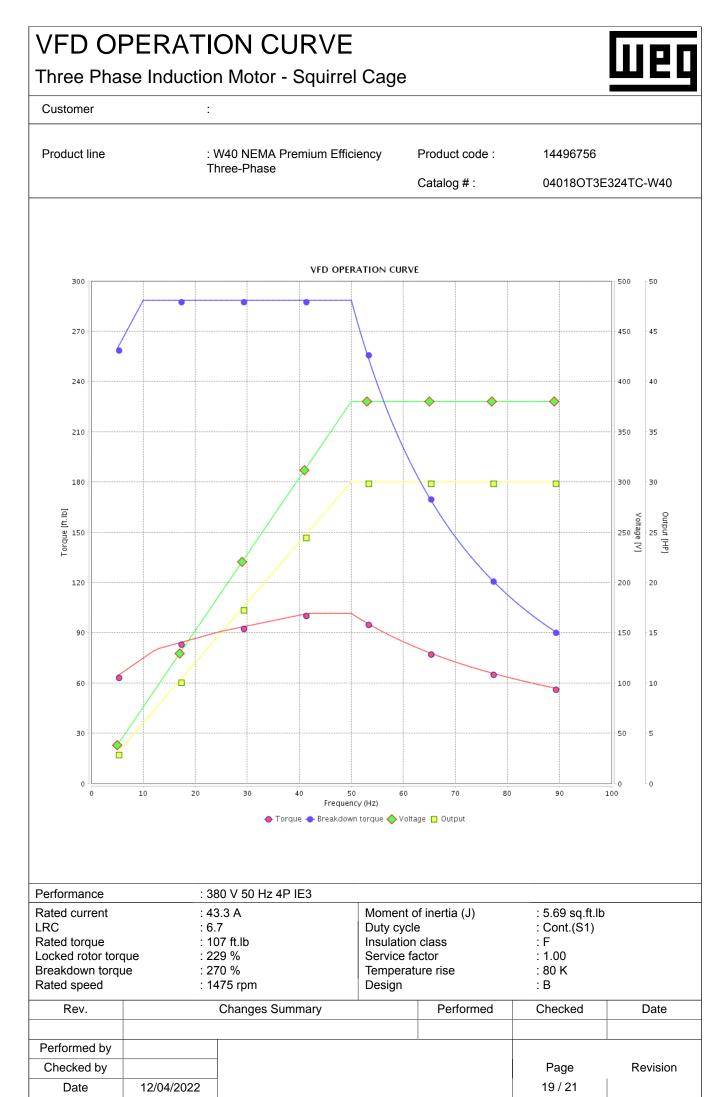


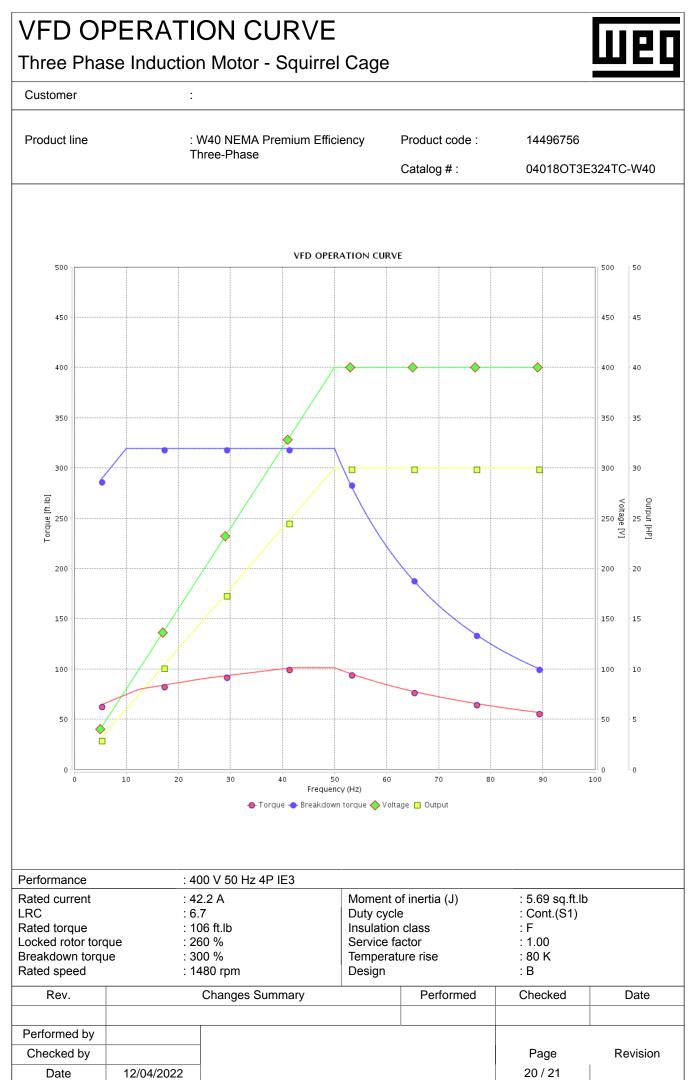
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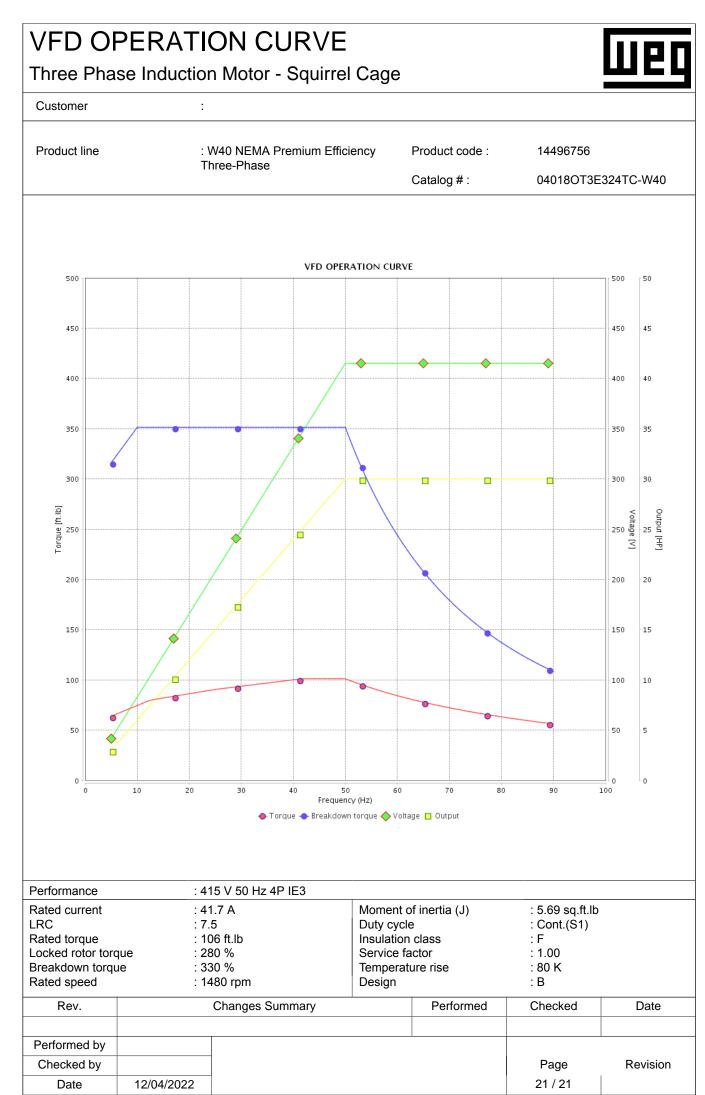
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14496756	14496756	
	·			Catalog # :	04018OT3E3	24TC-W40	
Performance		15 V 50 Hz 4P IE3					
Rated current _RC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7 : 1 jue : 2 ie : 3	1.7 A .5 06 ft.lb 80 % 30 % 480 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 5.69 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constant							
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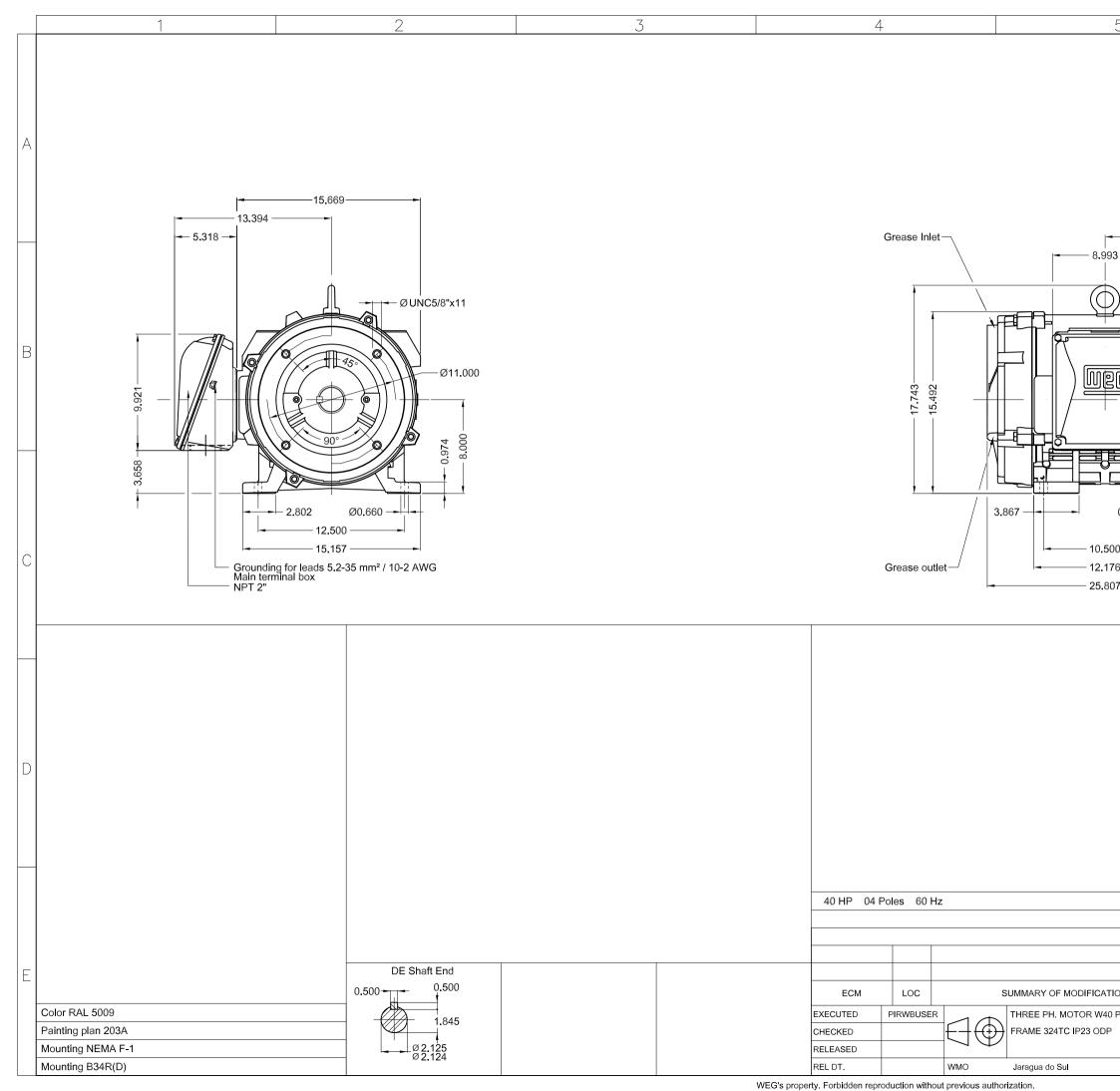












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