DATA SHEET

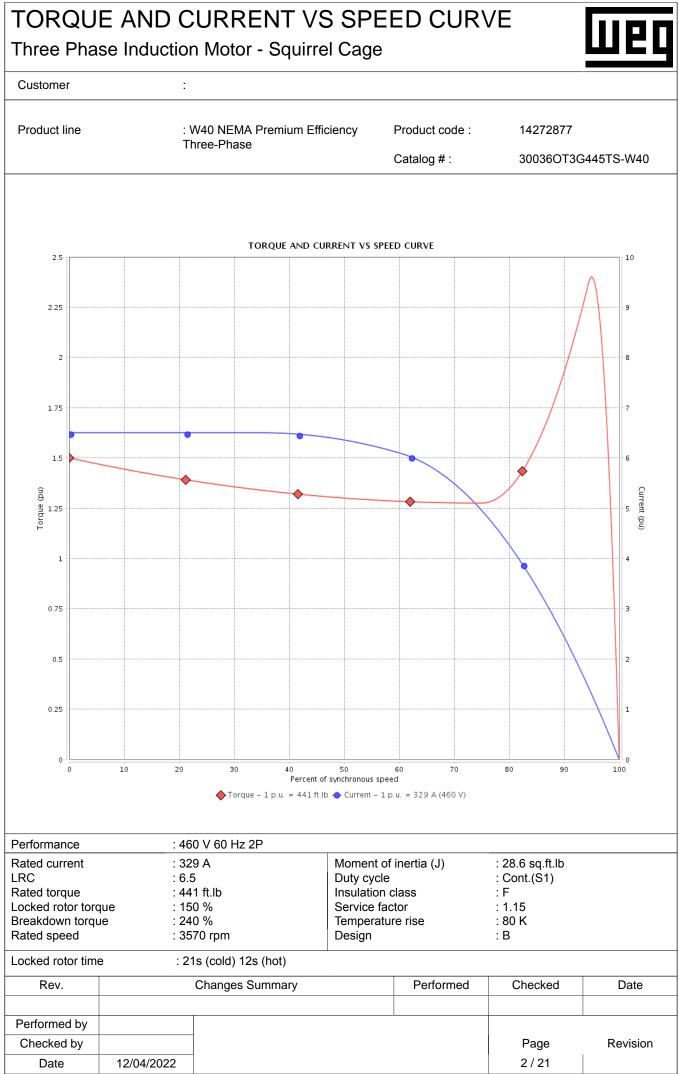
Three Phase Induction Motor - Squirrel Cage

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Customer

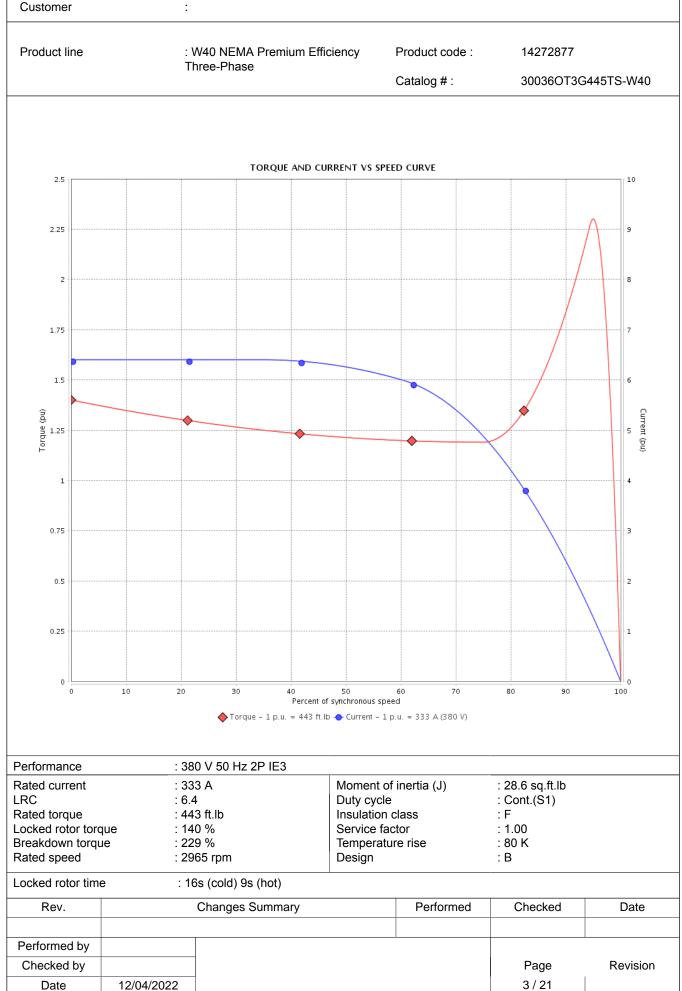
Product line		: W40 NEMA Premiun	n Efficie	ncy P	roduct code :	14272877	
		Three-Phase		С	atalog # :	30036OT	3G445TS-W40
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 444/5TS : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP23 : B		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 1448 lb : 28.6 sq.ft.lb	
Output [HP]		300		250	25	0	250
Poles		2		200	20		200
Frequency [Hz]		60		50	5		50
Rated voltage [V]		460		380	40		415
Rated current [A]		329		333	32		312
. R. Amperes [A]		2139		2131	22		2309
.RC [A]		6.5x(Code G)	6 4	4x(Code G)	7.1x(Co		7.4x(Code H)
	1	85.0	0.4	83.0			()
No load current [A					94		105 2975
Rated speed [RPN	/1]	3570		2965	-	-	
Slip [%]	•	0.83		1.17	1.0		0.83
Rated torque [ft.lb]		441		443	44		441
ocked rotor torqu		150		140	17		180
Breakdown torque [%]		240		229	24		270
Service factor		1.15		1.00	1.0		1.00
Temperature rise		80 K	80 K		80		80 K
Locked rotor time		21s (cold) 12s (hot)	16s (cold) 9s (h		t) 14s (cold) 8s (hot) 1	4s (cold) 8s (hot)
Noise level ²		85.0 dB(A)					
	25%	94.9		92.6	92	.6	92.6
Efficiency (0/)	50%	95.0	93.9		93	.9	93.8
Efficiency (%)	75%	95.4		94.4	94	.4	94.5
	100%	95.4		95.8	95		95.8
	25%	0.57		0.59	0.5		0.50
_	50%	0.80		0.81	0.7		0.75
Power Factor	75%	0.86		0.87	0.8		0.83
	100%	0.88		0.88	0.0		0.86
Bearing type Sealing		<u>Drive end</u> <u>Non dr</u> : 6314 C3 621	r <u>ive end</u> 2 Z C3 ithout		n loads ion	: 2452 lb : 3900 lb	
Lubrication interval		Bearing Seal Bearing : 14418 h 20	ng Seal 000 h 3 g				
Lubricant type		: Mobil Polyrex E					
Notes				1			
must be eliminate (1) Looking the m (2) Measured at 1	ed. lotor from the Im and with t weight subjec ocess.	ncel the previous one, when the previous one, when the shaft end. Noterance of +3dB(A). St to changes after	hich		average values oply, subject to the		with sinusoidal pulated in NEMA
Rev.		Changes Summary			Performed	Checked	Date
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Checked by						Page	Revision
Date	12/04/202					1 / 21	
		using property of M/EC C/A	D:		1 141 4 144	11 1 11 11	



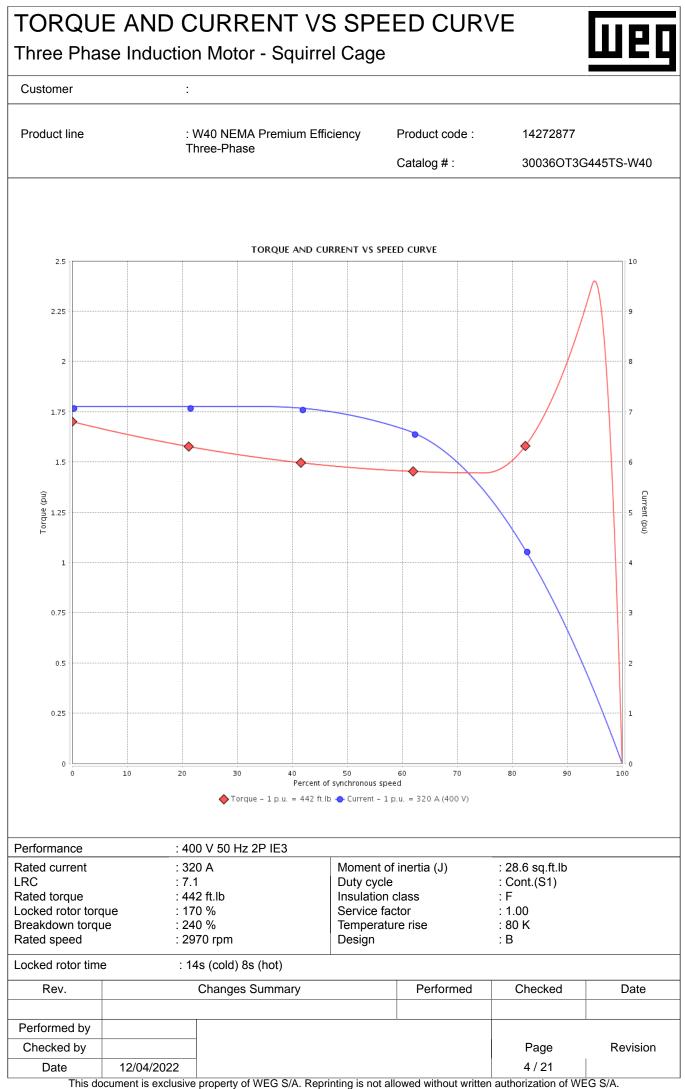
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



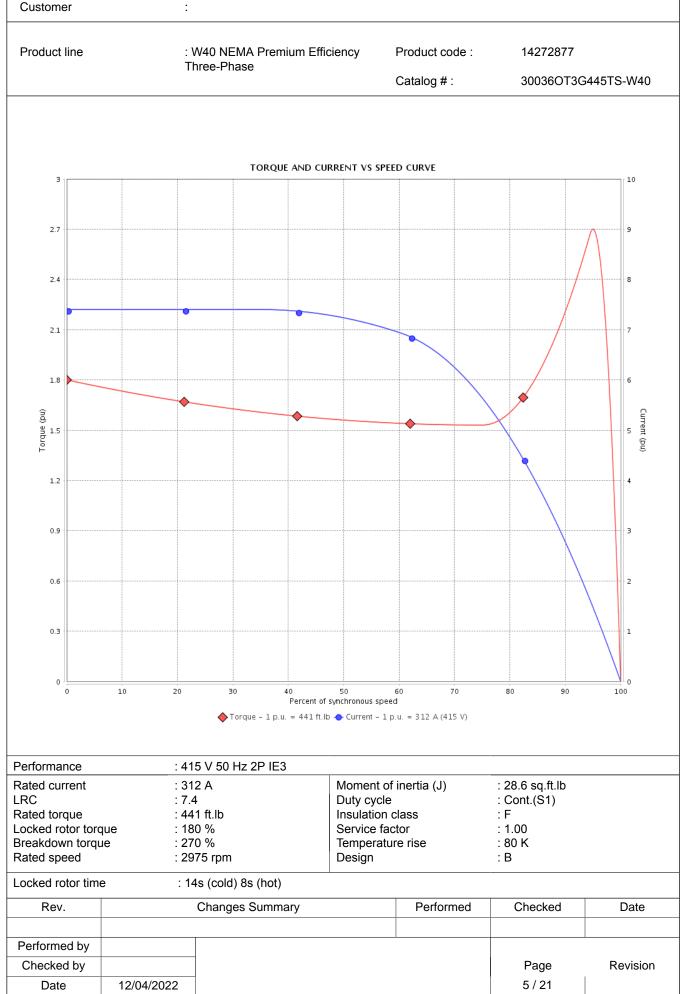
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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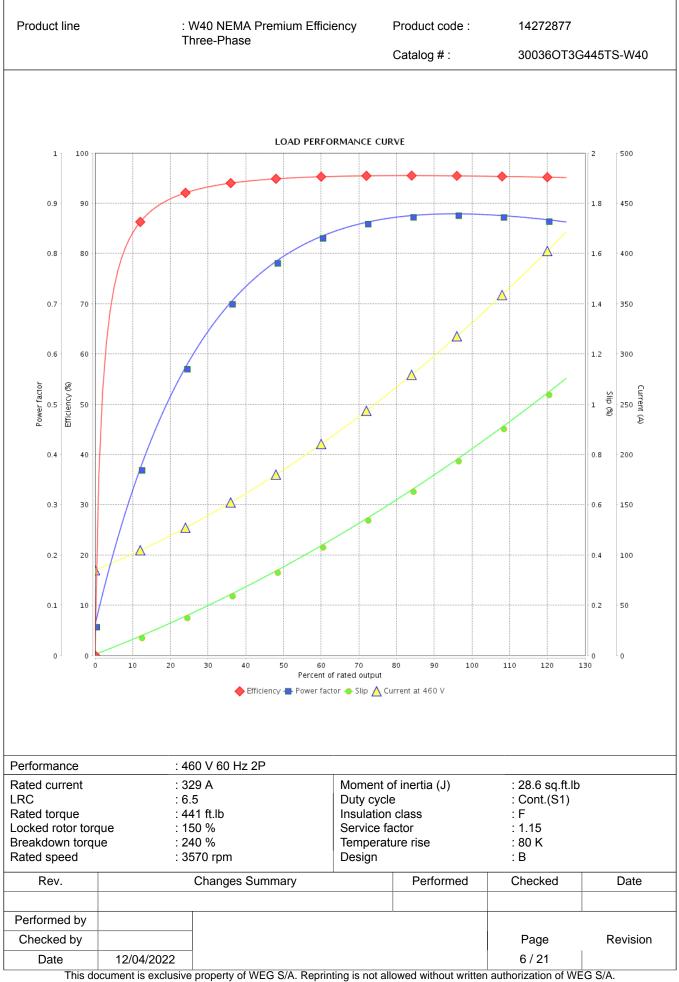
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Three Phase Induction Motor - Squirrel Cage

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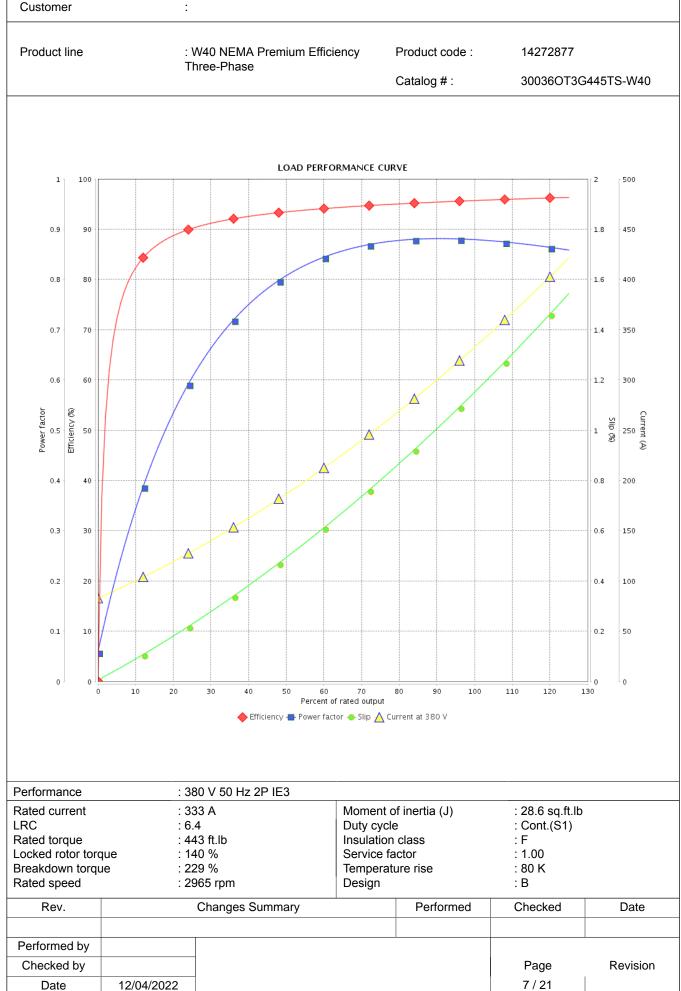


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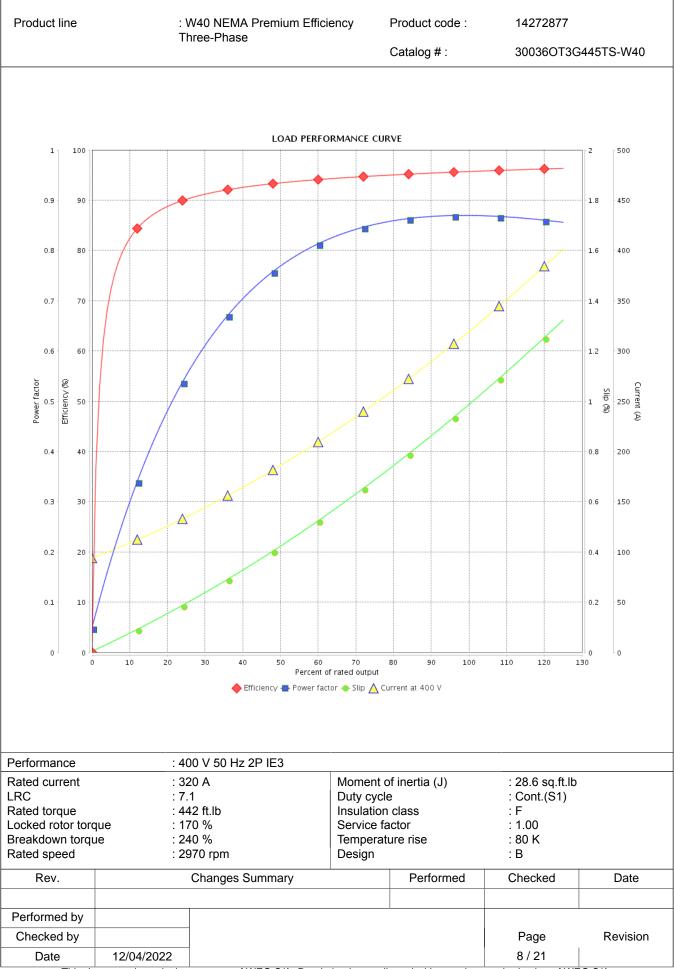
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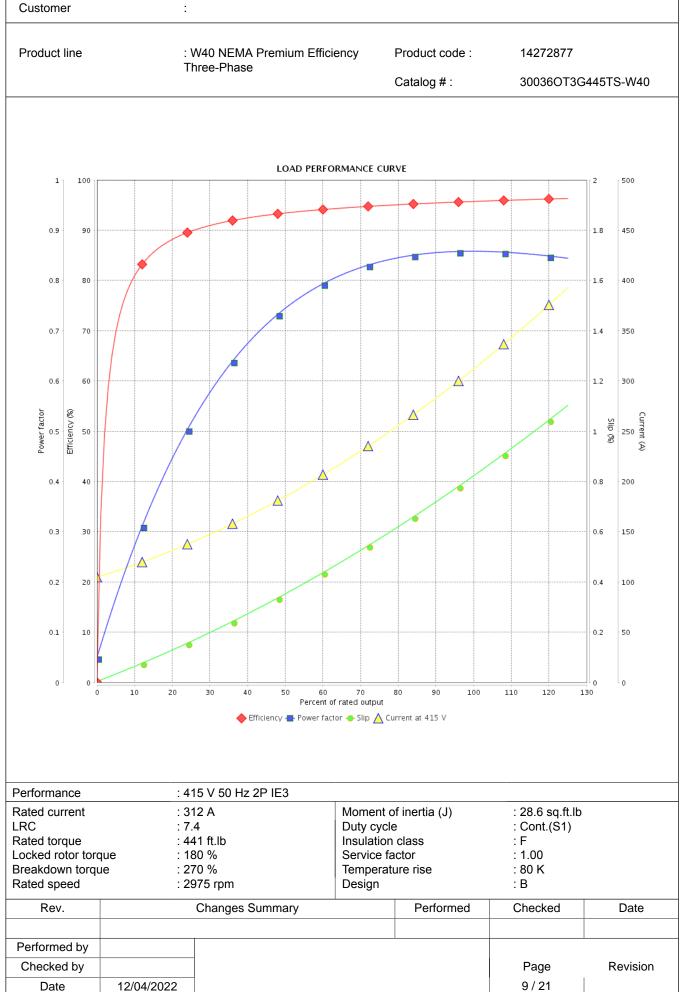


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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

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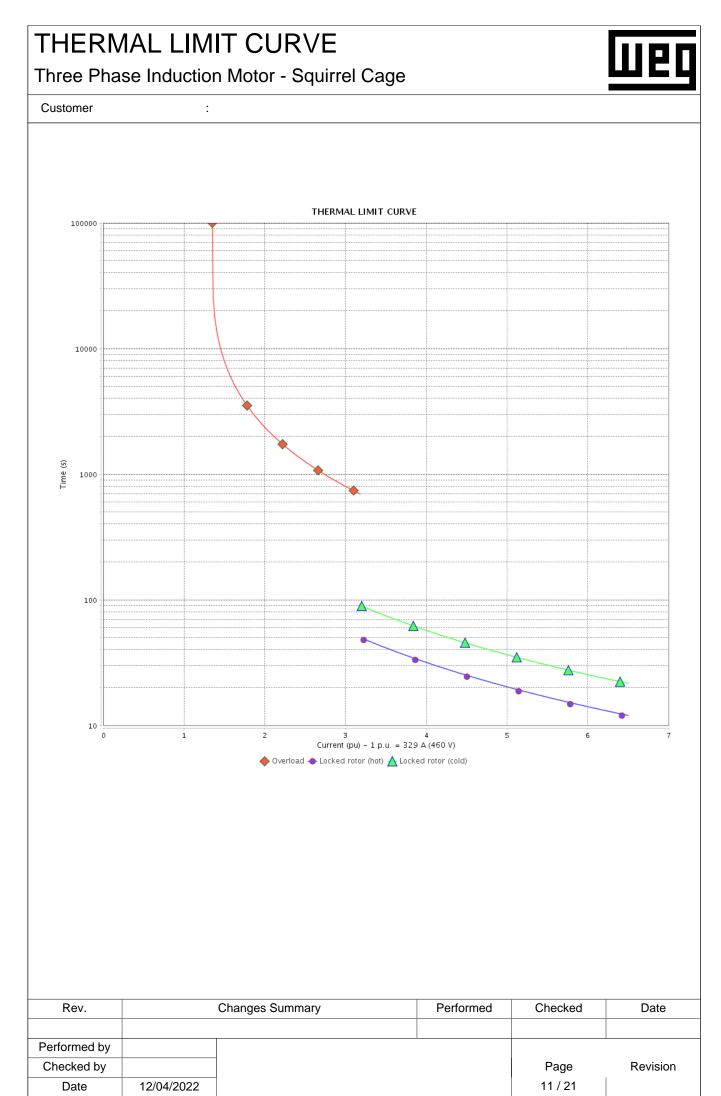
Product line	: '	W40 NEMA Premium Efficie hree-Phase	ency	Product code :	14272877	
	1	niee-riidse		Catalog # :	30036OT3G	445TS-W40
Performance	• 11	60 V 60 Hz 2P				
Rated current		29 A	Moment o	f inertia (J)	: 28.6 sq.ft.lb	
LRC	: 6.	.5	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torc		41 ft.lb 50 %	Insulation Service fa		: F : 1.15	
Breakdown torqu	.e : 24	40 %	Temperature rise		: 80 K	
Rated speed		570 rpm	Design		: B	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

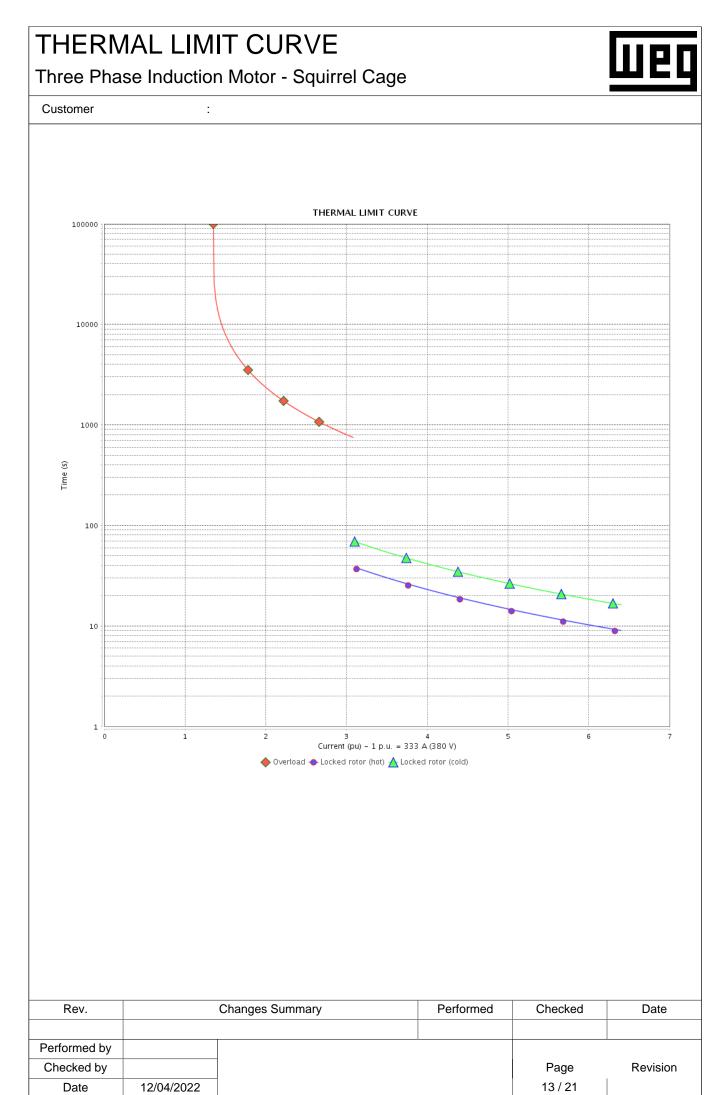
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Customer

Product line		W40 NEMA Premium Efficie	ency	Product code :	14272877		
	11	hree-Phase		Catalog # :	30036OT3G4	30036OT3G445TS-W40	
Performance		30 V 50 Hz 2P IE3					
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 6. : 44 ue : 14 e : 22	33 A 4 43 ft.lb 40 % 29 % 965 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 28.6 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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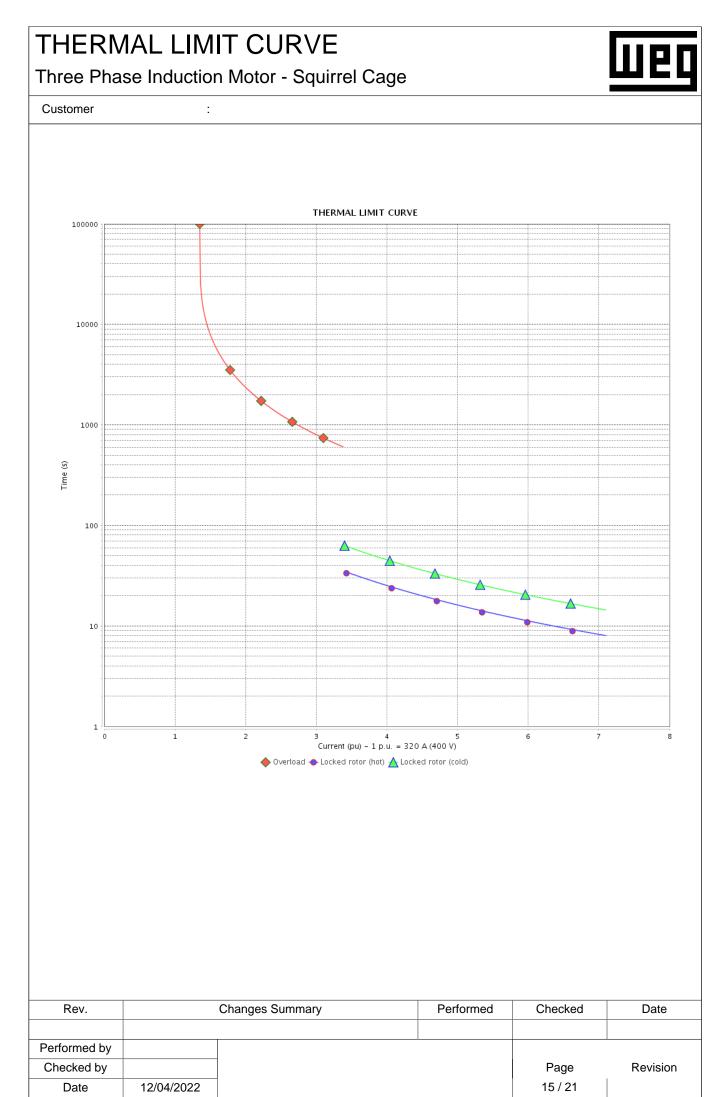
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Customer

Product line		W40 NEMA Premium Efficie	ency	Product code :	14272877	
	I	hree-Phase		Catalog # :	30036OT3G445TS-W40	
Performance		00 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 7. : 44 jue : 1 ie : 24	20 A .1 42 ft.lb 70 % 40 % 970 rpm	Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 28.6 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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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

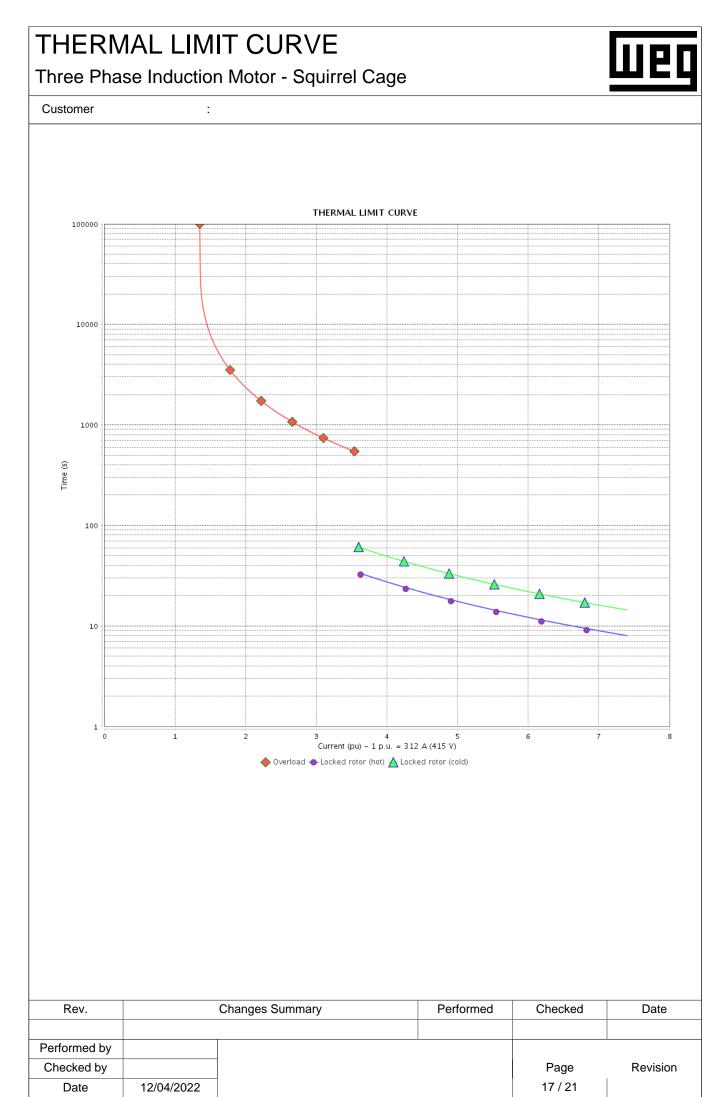
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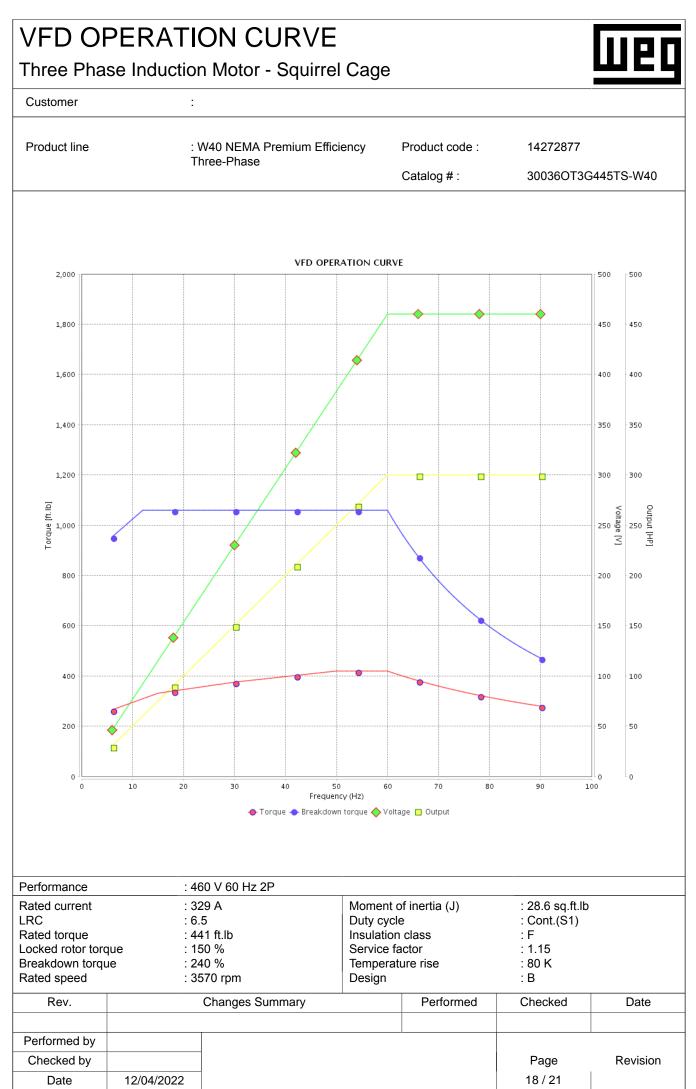


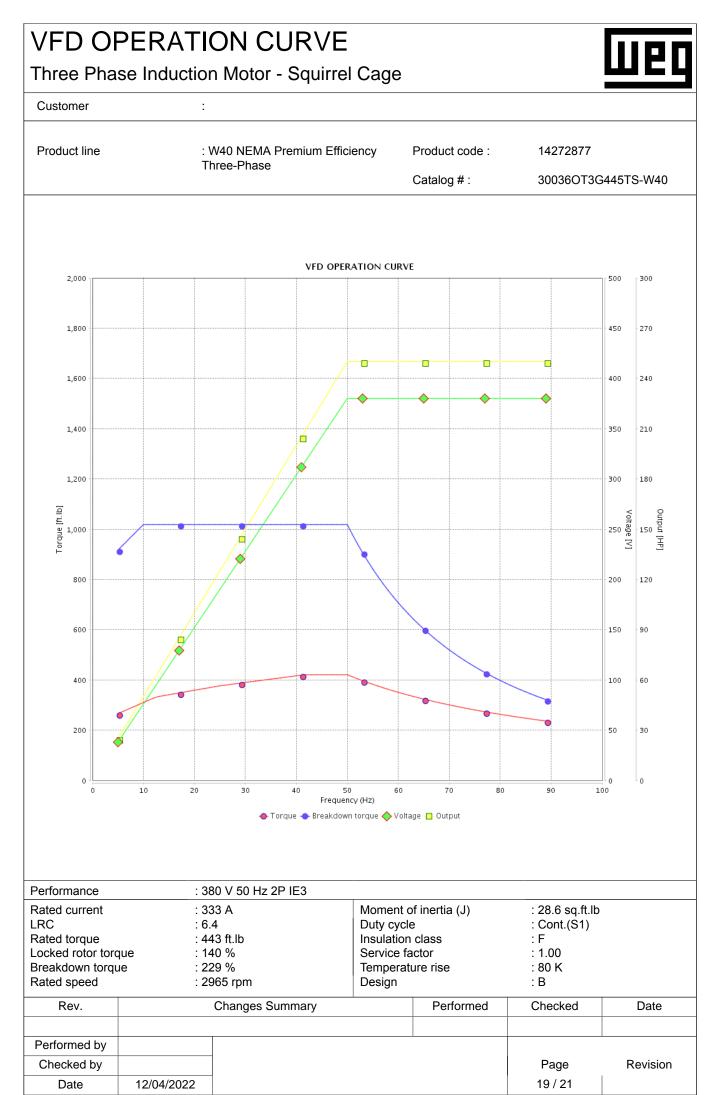
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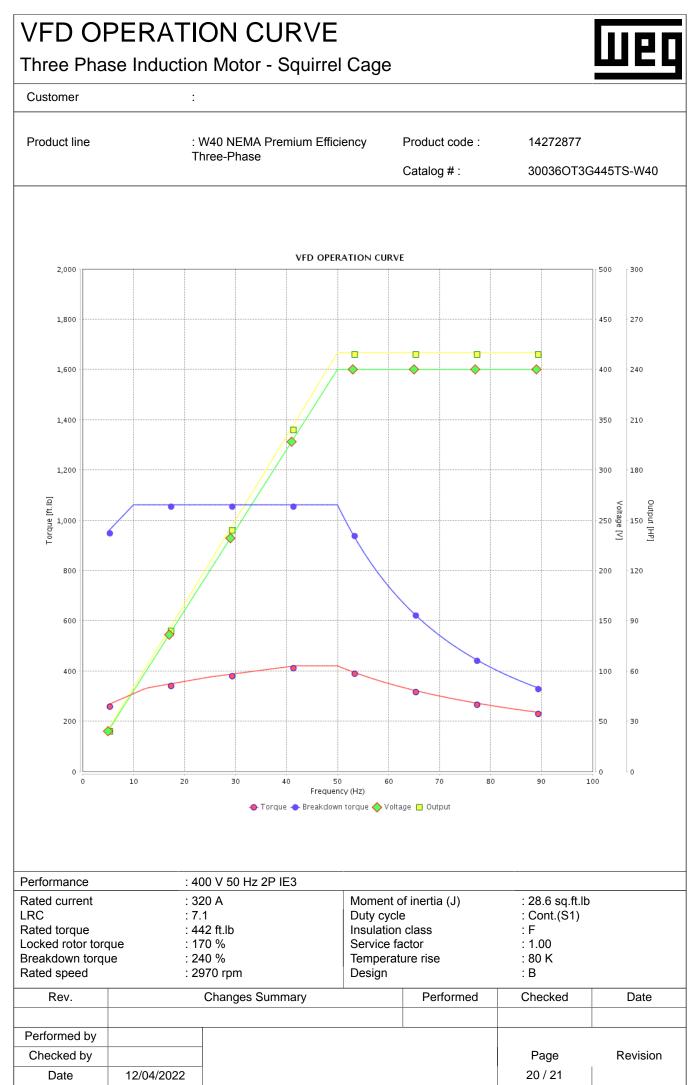
Product line		W40 NEMA Premium Efficie hree-Phase	ency	Product code :	14272877	
				Catalog # :	30036OT3G4	45TS-W40
Performance		15 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 7. : 44 ue : 18 ie : 21	12 A .4 41 ft.lb 80 % 70 % 975 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 28.6 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
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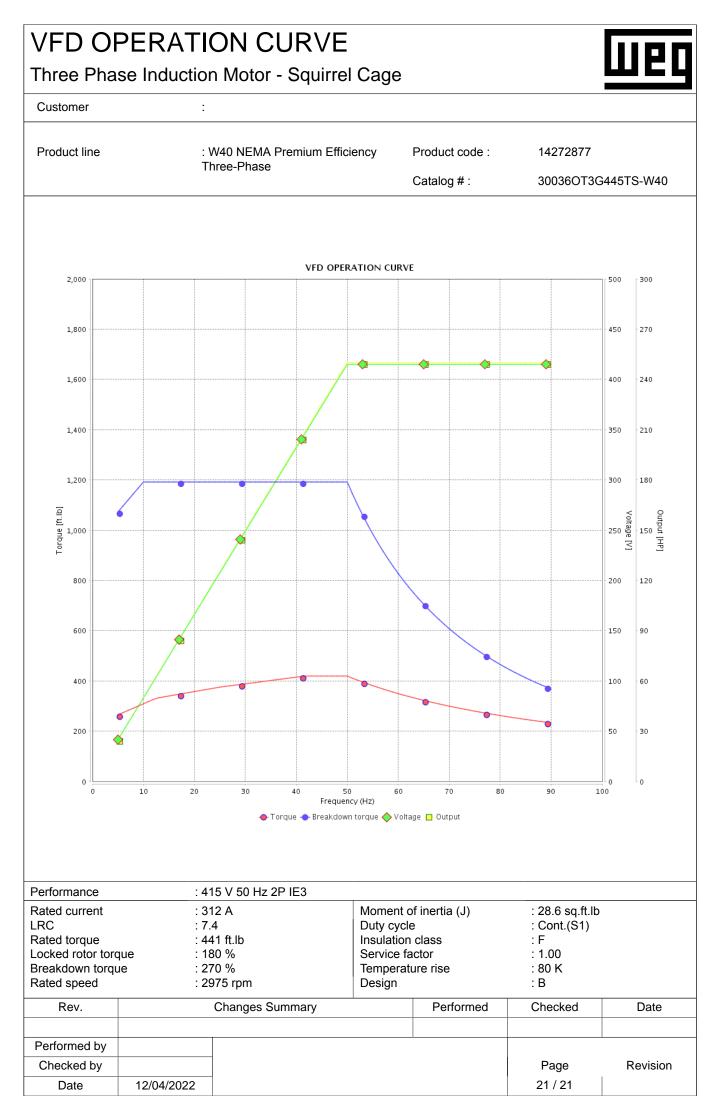
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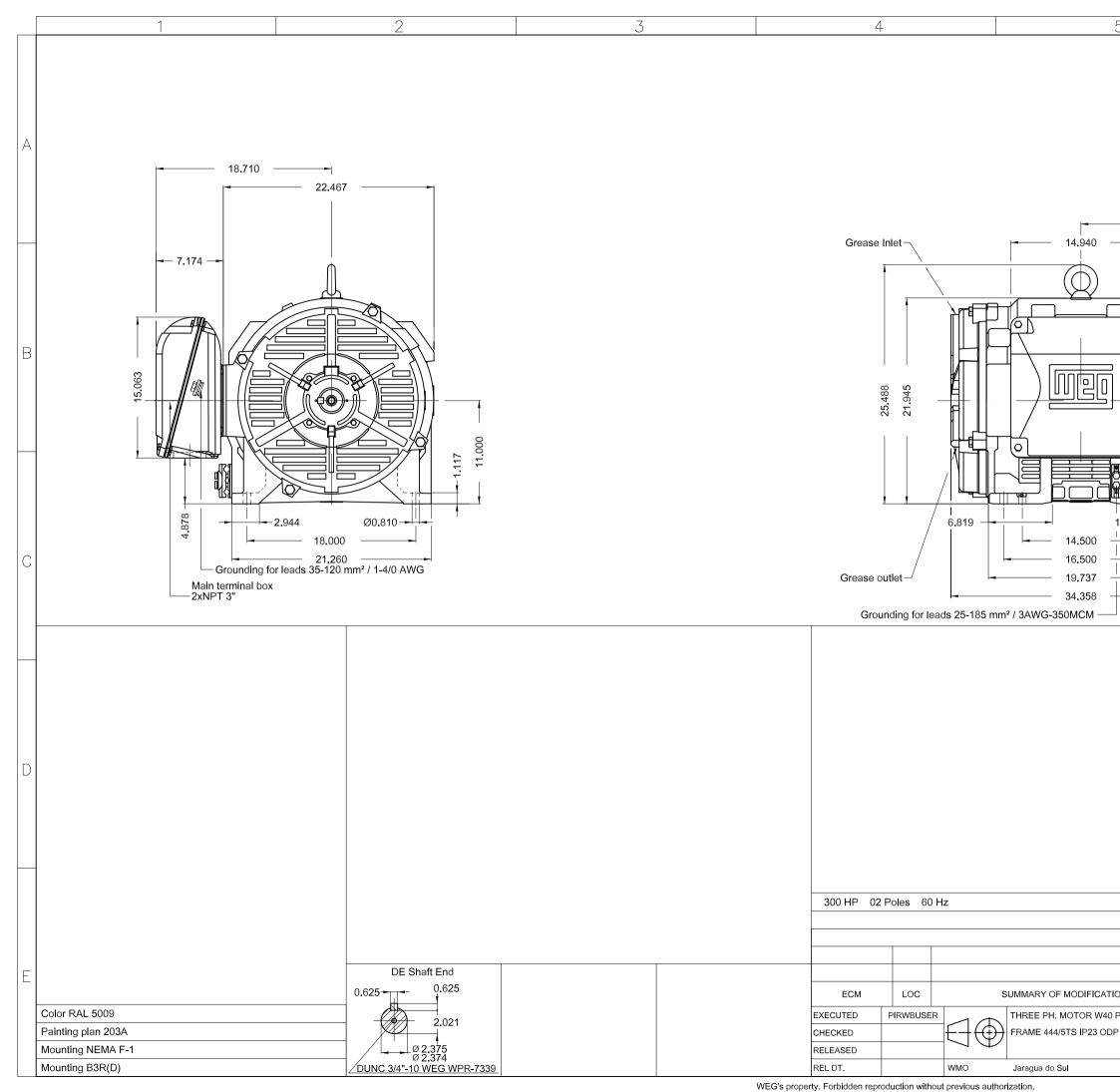












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5		Grease Inlet	6			
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