DATA SHEET

Three Phase Induction Motor - Squirrel Cage

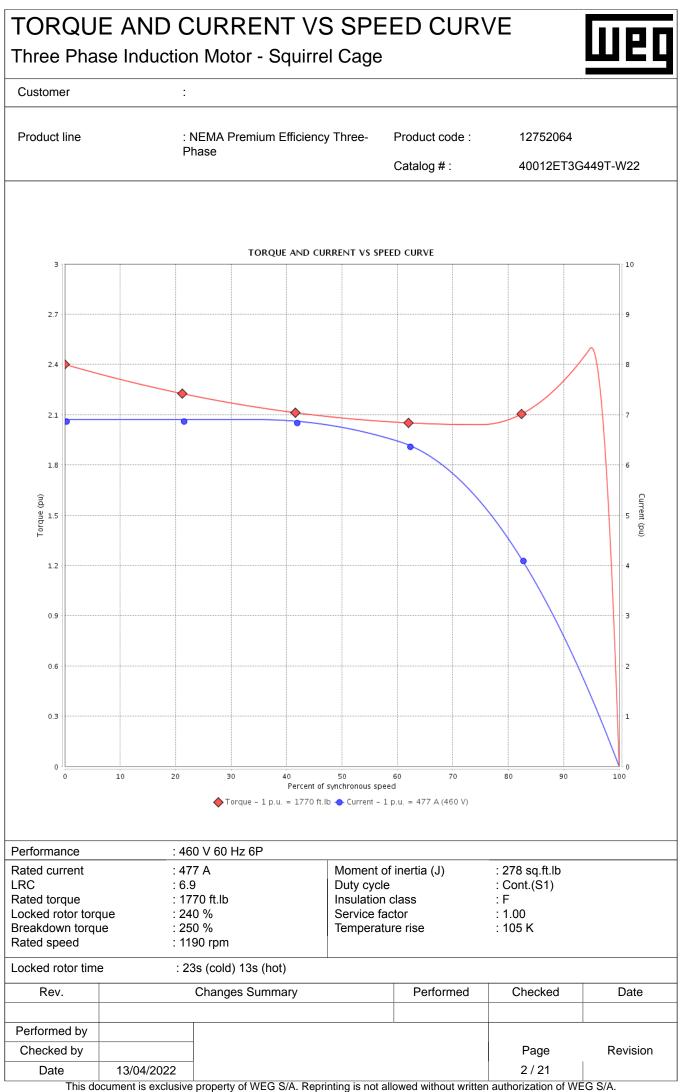
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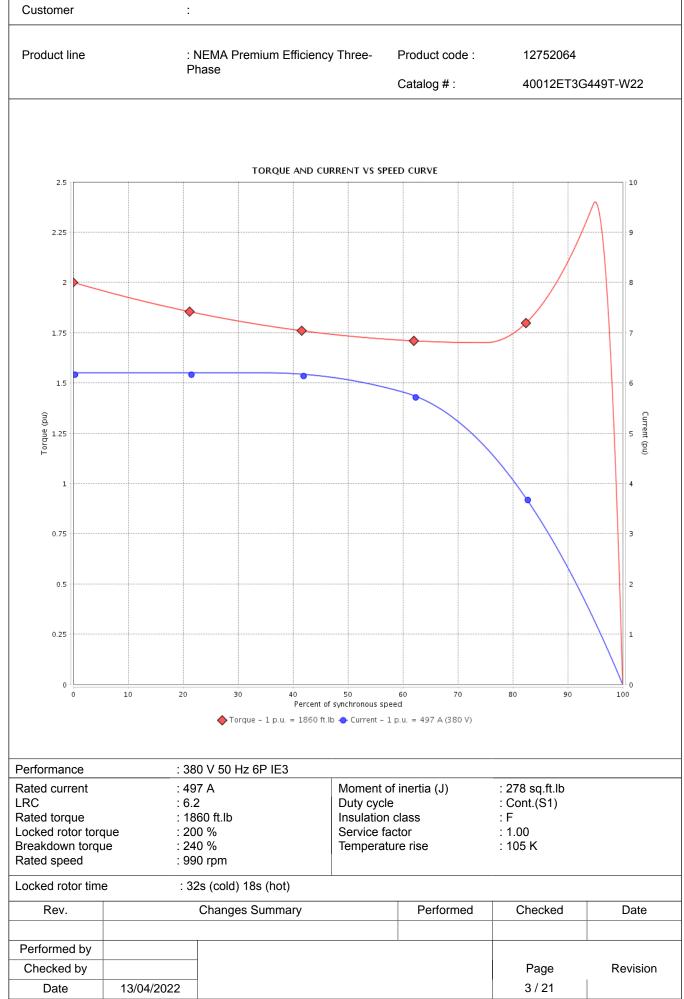
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Insulation class : F Mounting : F-1 Mounting : F-1 Cont (S1) Ambient temperature : 20°C (b +40°C Starting method : Direct On Line Approx. weight* : 3833 lb Protection degree : IP55 Mounting : 21°C (b +40°C Starting method : Direct On Line Approx. weight* : 3833 lb Moment of inertia (J) : 278 sq.ft.lb Starting method Protection degree : IP55 6 6 6 6 Frequency [H2] 60 50 50 50 50 Rated voltage [V] 460 380 400 4115 Rated voltage [V] 460 380 400 4115 Rated voltage [V] 460 380 100 1100 226 Rated voltage [V] 6.9x(Code H) 6.2x(Code G) 7.0x(Code H) 7.5x(Code J) 100 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00			Fliase		Cata	alog # :	40012ET3G449T-W22		
Dutput [HP] 400 360 <td< td=""><td>Insulation class Duty cycle Ambient tempera Altitude</td><td></td><td>: F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l.</td><td></td><td>Mounting Rotation¹ Starting met Approx. weig</td><td>hod ght³</td><td>: F-1 : Both : Direc : 3633</td><td>(CW and CCW) t On Line Ib</td></td<>	Insulation class Duty cycle Ambient tempera Altitude		: F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l.		Mounting Rotation ¹ Starting met Approx. weig	hod ght ³	: F-1 : Both : Direc : 3633	(CW and CCW) t On Line Ib	
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Stated vorticity 460 380 400 415 Stated current [A] 477 497 478 472 R. Amperes [A] 0.3291 3081 3346 3540 R. C[A] 6.9x(Code H) 6.2x(Code G) 7.0x(Code H) 7.5x(Code J) R. C[A] 6.9x(Code H) 6.9x(Code H) 990 990 990 Stated speed [RPM] 1190 990 990 990 990 Stated speed [RPM] 0.83 1.00 1.00 1.00 1.00 Stated speed [RPM] 1470 1860 1860 1860 1860 Stated speed [RPM] 1470 1860 1860 1600 100 Stated speed [RPM] 250 240 260 280 280 State speed [RPM] 100 0.0 1.00 1.00 1.00 1.00 State speed [Rotro time 225 (cold) 135 (ht) 125 (cold) 146 (ht) 25 (cold) 156 (ht) 25 (cold) 165 (ht) 25 (cold) 165 (ht) 25 (cold) 165 (ht) 25 (cold									
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Service factor 1.00 1.05 K 105 K 105 K 105 K 105 K 105 K 100 % 95.8 95.									
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Locked rotor time 23s (cold) 13s (hot) 32s (cold) 18s (hot) 28s (cold) 16s (hot) 25s (cold) 14s (70.0 dB(A) Voise level ^a 71.0 dB(A) 70.0 dB(A) 70.0 dB(A) 70.0 dB(A) 70.0 dB(A) Efficiency (%) 50% 95.3 95.3 95.3 95.4 95.8 95.8 95.8									
Noise level® 71.0 dB(A) 70.0 dB(A) 95.3 95.3 95.3 95.3 95.4 95.3 95.4 95.6 95.8				32s (c				25s (cold) 14s (hot)	
Efficiency (%) 50% 95.4 95.4 95.4 95.4 95.8	Noise level ²		71.0 dB(A)	7(70.0 dB(A)	
Efficiency (%) 75% 95.8 96.8 96.8									
100% 95.6 95.8 0.62 0.80 0.77 0.74 0.74 0.82 0.83 0.82 0.83 0.82 0.83 0.82 0.83 0.82 0.83 12042 lb Max. traction 12042 lb Max. traction 12042 lb Max. traction	Efficiency (%)								
Power Factor 25% 0.42 0.45 0.40 0.37 Formation in the shaft end. 0.88 0.70 0.66 0.62 0.74 0.74 0.74 0.74 0.74 0.77 0.74 0.74 0.74 0.77 0.74 0.77 0.74 0.74 0.80	Enciency (70)								
Power Factor 50% 0.68 0.70 0.66 0.62 75% 0.78 0.80 0.77 0.74 0.74 100% 0.82 0.80 0.77 0.74 0.74 Bearing type : 6322 C3 6319 C3 Max. traction : 12042 lb Sealing : WSeal WSeal Use of a 3000 h Max. compression : 15675 lb Lubricant amount : 60 g 45 g Max. compression : 15675 lb Notes Mobil Polyrex EM Mobil Polyrex EM Max. compression : 15675 lb Notes : Mobil Polyrex EM Mosil power supply, subject to the tolerances stipulated in NEM power supply, subject to the tolerances stipulated in NEM MG-1. : MG-1. MG-1. : (2) Measured at 1m and with tolerance of +3dB(A). : MG-1. : MG-1. : MG-1. : MG-1. : MG-1. : : : : : : : : :									
Power Factor 75% 0.78 0.80 0.77 0.74 100% 0.82 0.83 0.82 0.80 Bearing type : 6322 C3 6319 C3 Max. traction : 12042 lb Sealing :: WSeal WSeal Max. traction : 12042 lb Lubrication interval : 11000 h 13000 h Max. compression : 15675 lb Lubricant amount : 60 g 45 g Max. compression : 15675 lb Notes Mobil Polyrex EM Mobil Polyrex EM Max. compression : 15675 lb Notes Mobil Polyrex EM Mobil Polyrex EM Max. compression : 15675 lb Notes Mobil Polyrex EM Max. compression : 15675 lb Mosta Mosta Mosta MG-1. (3) Approximate weight subject to changes after manufacturing process. <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
I00% 0.82 0.83 0.82 0.80 Bearing type : 6322 C3 6319 C3 Max. traction : 12042 lb Sealing : WSeal WSeal WSeal Max. traction : 15675 lb Lubrication interval : 11000 h 13000 h Max. compression : 15675 lb Lubricant amount : 60 g 45 g Max. traction : 15675 lb Notes Mobil Polyrex EM Mobil Polyrex EM Max. traction : 15675 lb Notes Mobil Polyrex EM Mobil Polyrex EM Max. traction : 15675 lb Notes Mobil Polyrex EM Mobil Polyrex EM Max. traction : 15675 lb Notes Mobil Polyrex EM Mobil Polyrex EM MG-1. Max. traction : : (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load. MG-1. MG-1. Max. traction E Rev. Changes Summary Performed Checked Date<	Power Factor								
Drive end Bearing type Non drive end 6322 C3 Foundation loads Max. traction Sealing Max. traction Status Sealing WSeal WSeal 1000 h WSeal 13000 h WSeal Max. compression Max. traction Lubricant amount 60 g 45 g Lubricant type Mobil Polyrex EM Max. compression Status Notes Mobil Polyrex EM Mobil Polyrex EM These are average values based on tests with sinusoida power supply, subject to the tolerances stipulated in NEM MG-1. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load. These are average values based on tests with sinusoida power supply, subject to the tolerances stipulated in NEM MG-1. Rev. Changes Summary Performed Checked Date Performed by Page Revisio									
Bearing type : 6322 C3 6319 C3 Max. traction : 12042 lb Sealing : WSeal WSeal Max. compression : 15675 lb Lubrication interval : 11000 h 13000 h Max. compression : 15675 lb Lubricant amount : 60 g 45 g Max. compression : 15675 lb Notes Mobil Polyrex EM Mobil Polyrex EM Notes Notes Notes This revision replaces and cancel the previous one, which must be eliminated. These are average values based on tests with sinusoida power supply, subject to the tolerances stipulated in NEM (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. MG-1. (4) At 100% of full load. Exercise Performed Checked Date Performed by Page Revision		100%					02	0.60	
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must be eliminated. power supply, subject to the tolerances stipulated in NEM (1) Looking the motor from the shaft end. power supply, subject to the tolerances stipulated in NEM (2) Measured at 1m and with tolerance of +3dB(A). MG-1. (3) Approximate weight subject to changes after manufacturing process. MG-1. (4) At 100% of full load. Performed Checked Date Performed by Page Revisio	Notes								
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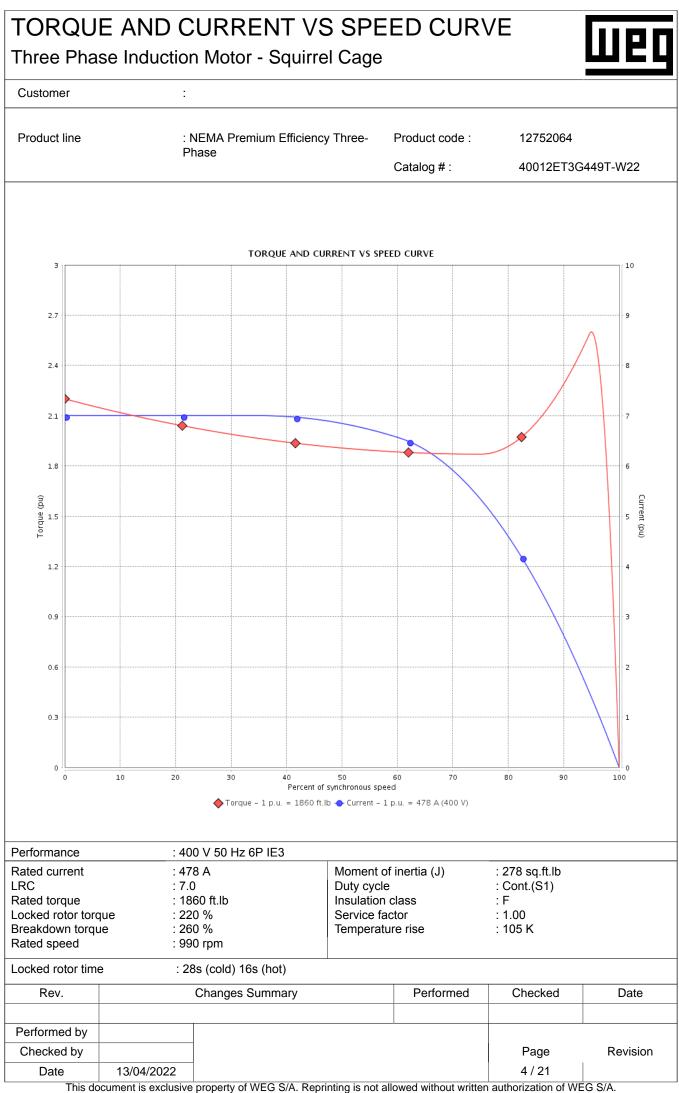


TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



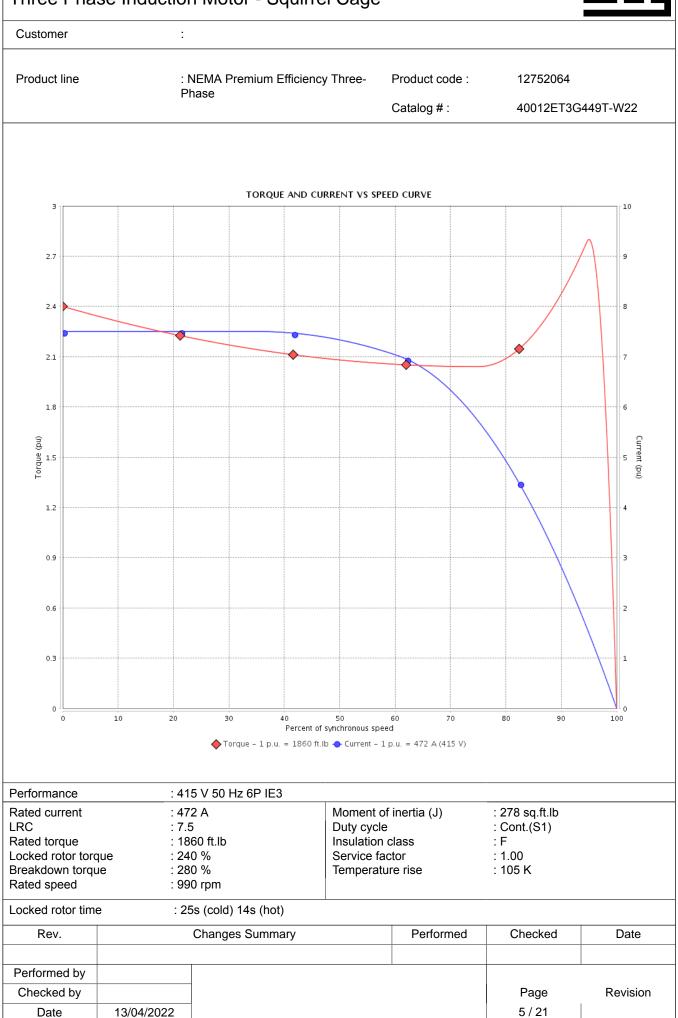
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



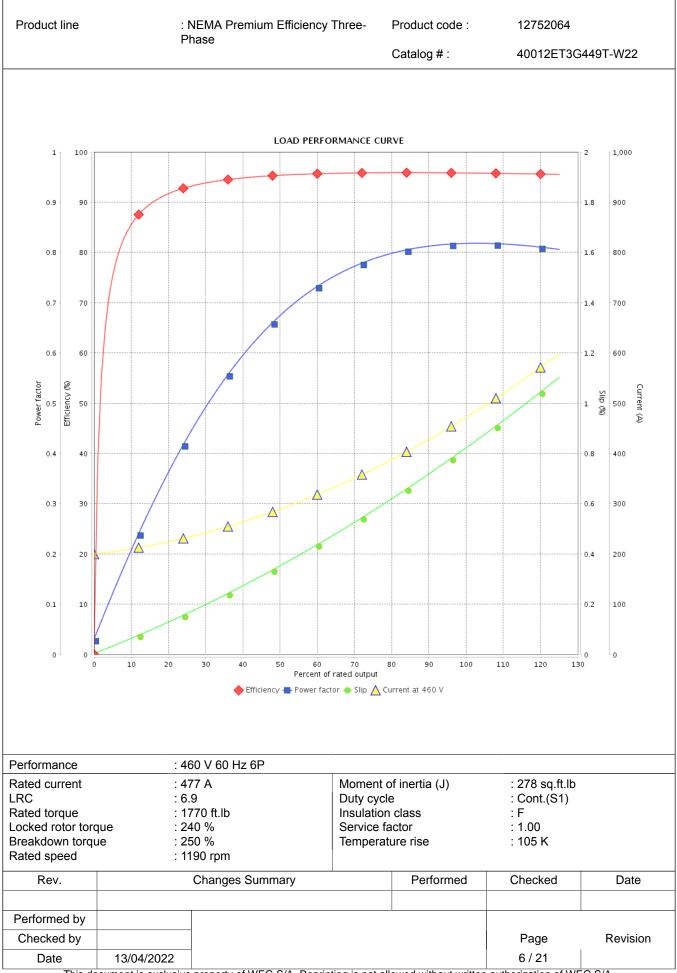
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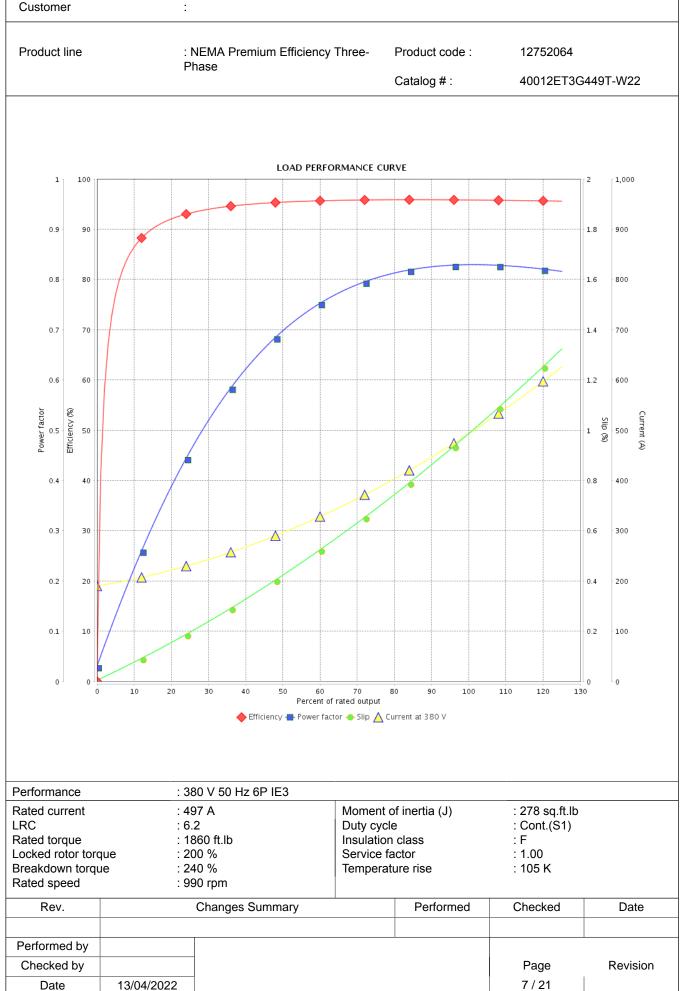
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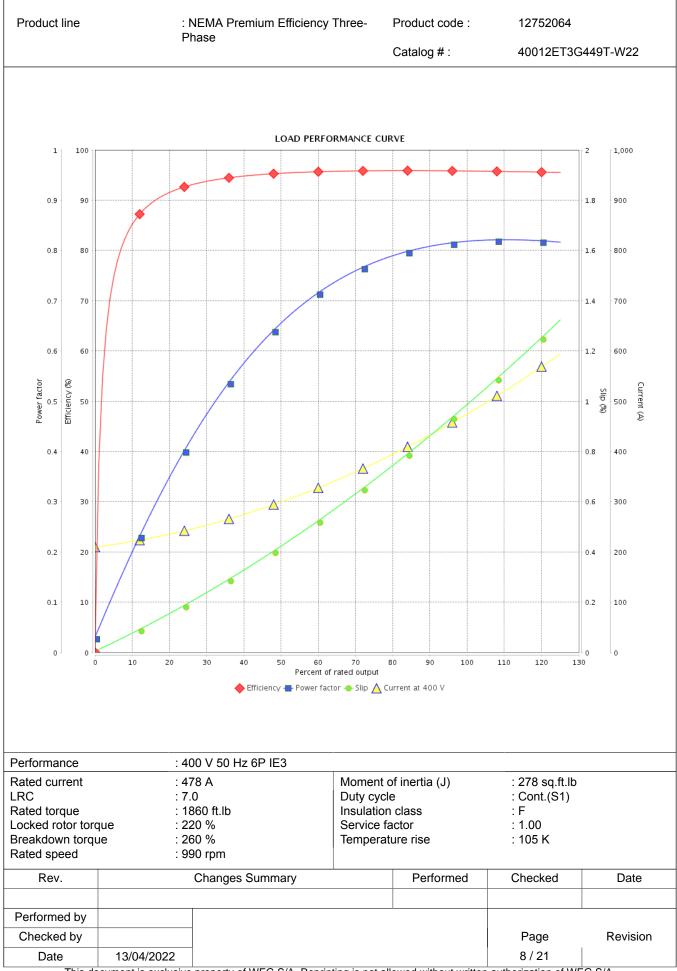
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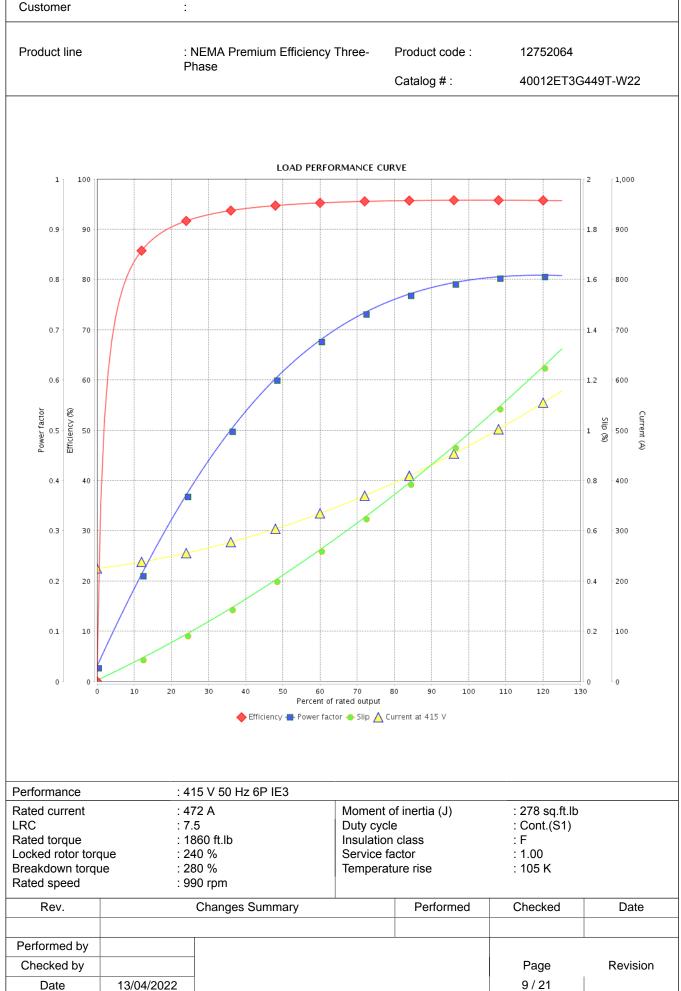
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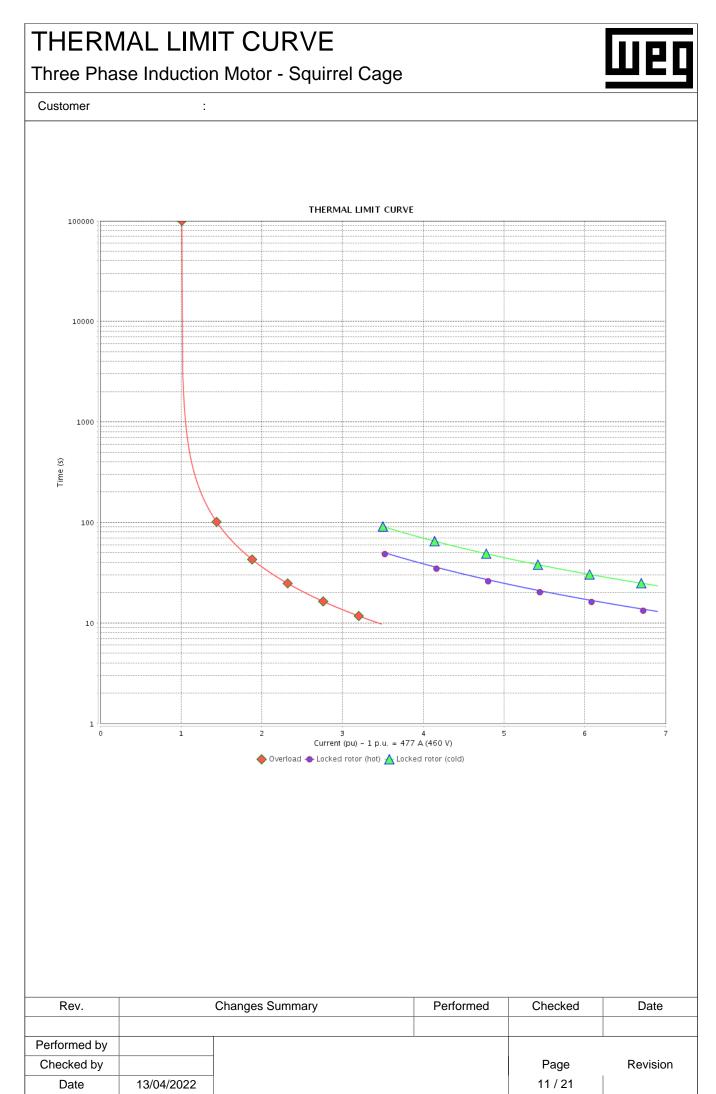
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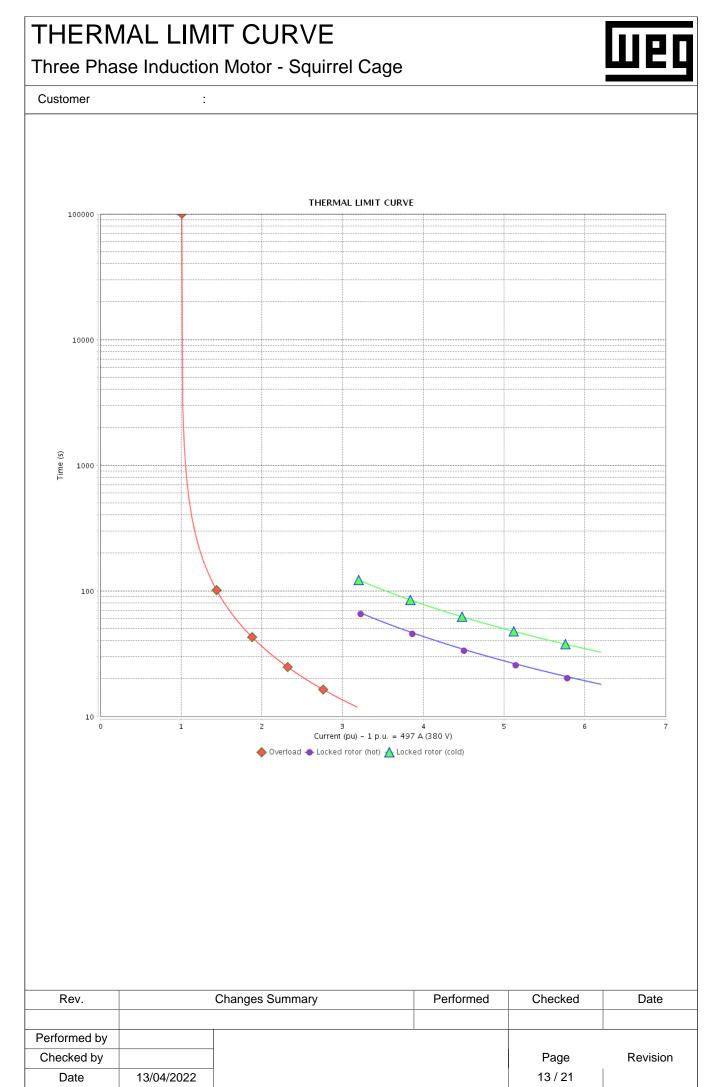
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage									
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Product line	: NEMA Premium Efficiency Phase	Three- Product code : Catalog # :	12752064 40012ET3G449T-W22						
Derfermene									
Performance Rated current LRC Rated torque	: 460 V 60 Hz 6P : 477 A : 6.9 : 1770 ft.lb	Moment of inertia (J) Duty cycle Insulation class	: 278 sq.ft.lb : Cont.(S1) : F						
Locked rotor torque Breakdown torque Rated speed	: 240 % : 250 % : 1190 rpm	Service factor Temperature rise	: 1.00 : 105 K						

Heating constan	t					
Cooling constant	t					
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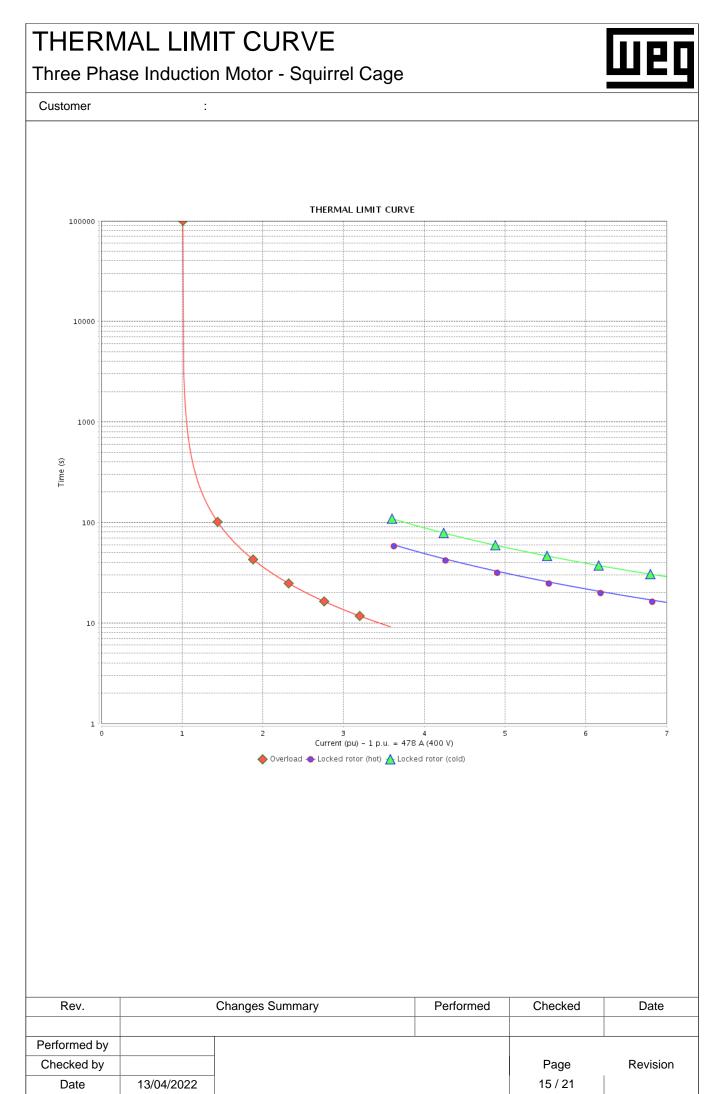
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Three Phase Induction Motor - Squirrel Cage										
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Product line	: NEMA Premium Efficiency Th	ree- Product code :	12752064							
	Phase	Catalog # :	40012ET3G449T-W22							
Performance	: 380 V 50 Hz 6P IE3									
Rated current LRC	: 6.2 E	<i>l</i> loment of inertia (J) Duty cycle	: 278 sq.ft.lb : Cont.(S1)							
Rated torque Locked rotor torque		nsulation class Service factor	: F : 1.00							

		40 % 90 rpm	Tempera	Temperature rise		
Heating constant	t					
Cooling constant	t					
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Three Phase Inc	luction Motor - Squirrel Ca	age			
Customer	:				
Product line	: NEMA Premium Efficiency Three Phase	ee- Product code :	12752064		
		Catalog # :	40012ET3G449T-W22		
Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 478 A Mo	oment of inertia (J)	: 278 sq.ft.lb		
LRC Rated torque	: 1860 ft.lb Ins	uty cycle sulation class	: Cont.(S1) : F		
Locked rotor torque	: 220 % Se	ervice factor	: 1.00		

Rated torque Locked rotor toro Breakdown torqu Rated speed	que : 22 Je : 20	: 1860 ft.lbInsulation class: 220 %Service factor: 260 %Temperature rise: 990 rpm		factor	: F : 1.00 : 105 K	
Heating constant	t					
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THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage									
Three Phase Induction Motor - Squirrel Cage									
Customer	:								
Product line		Three Dreduct	oodo i						
	: NEMA Premium Efficiency			12752064					
		Catalog	#:	40012ET3G449T-W22					
Performance	: 415 V 50 Hz 6P IE3								
Rated current LRC	: 472 A : 7.5	Moment of inertia Duty cycle	(J)	: 278 sq.ft.lb : Cont.(S1)					
Rated torque	: 1860 ft.lb	Insulation class		:F					
Locked rotor torque Breakdown torque	: 240 % : 280 %	Service factor Temperature rise		: 1.00 : 105 K					
Rated speed	: 990 rpm								

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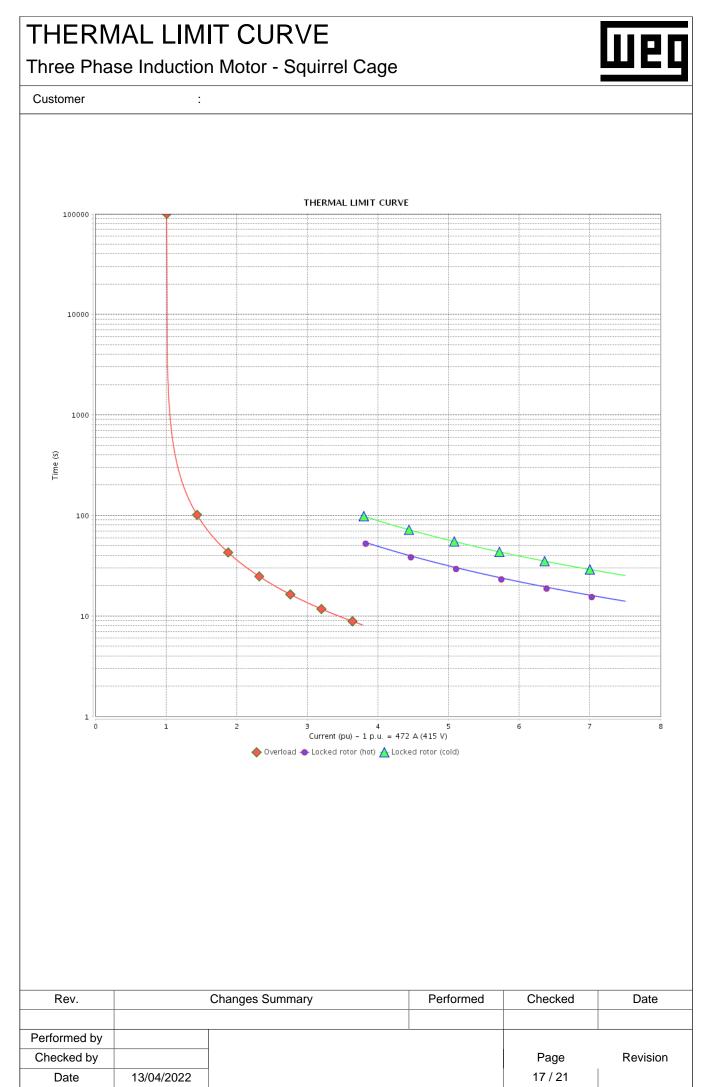
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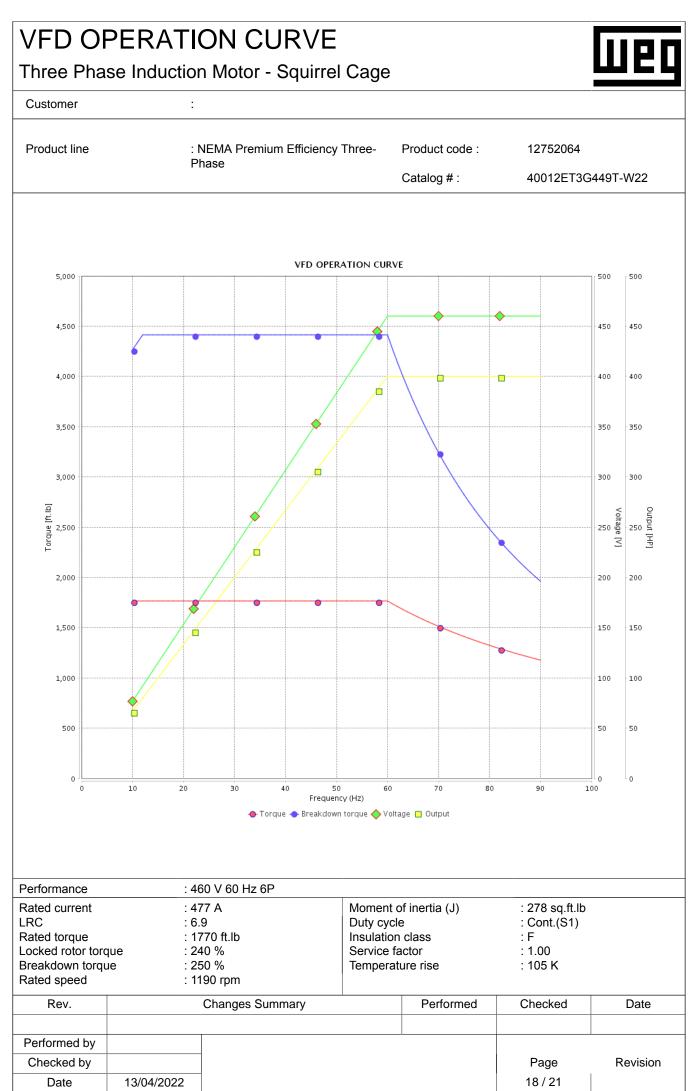
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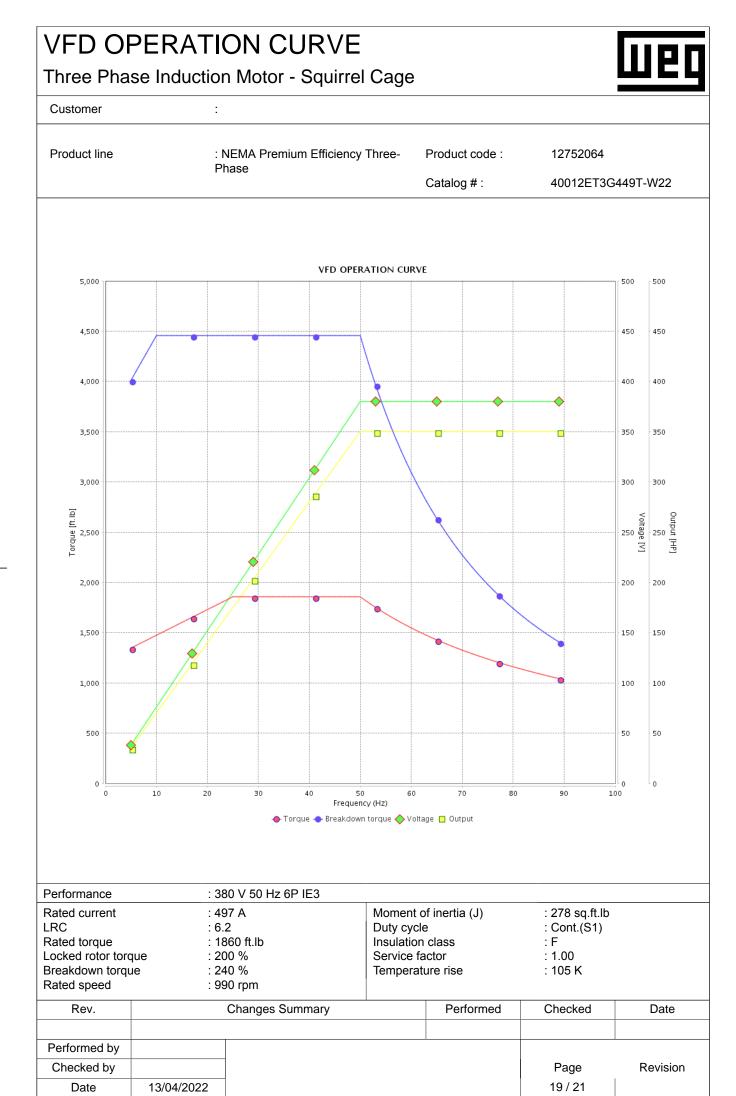
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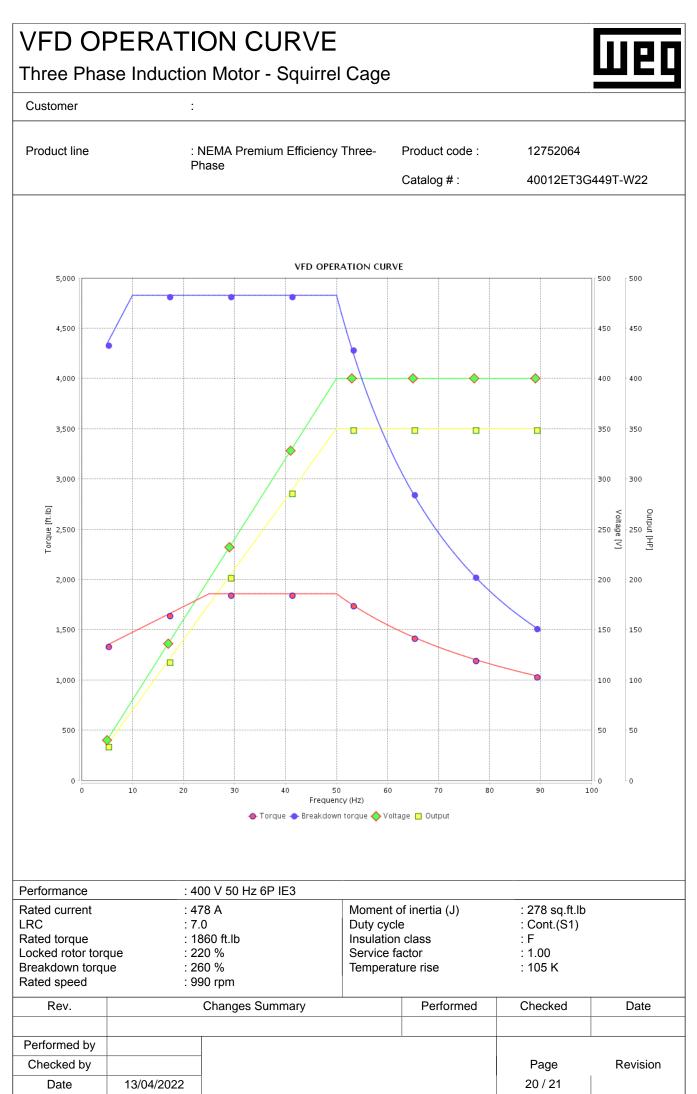
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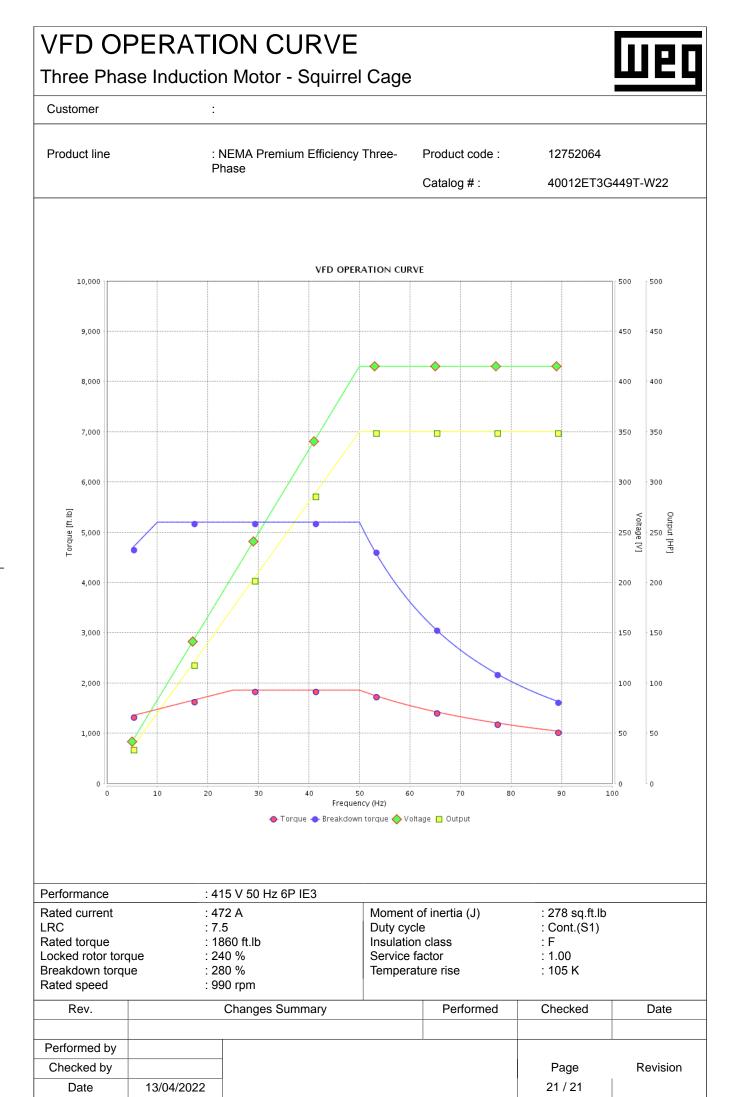
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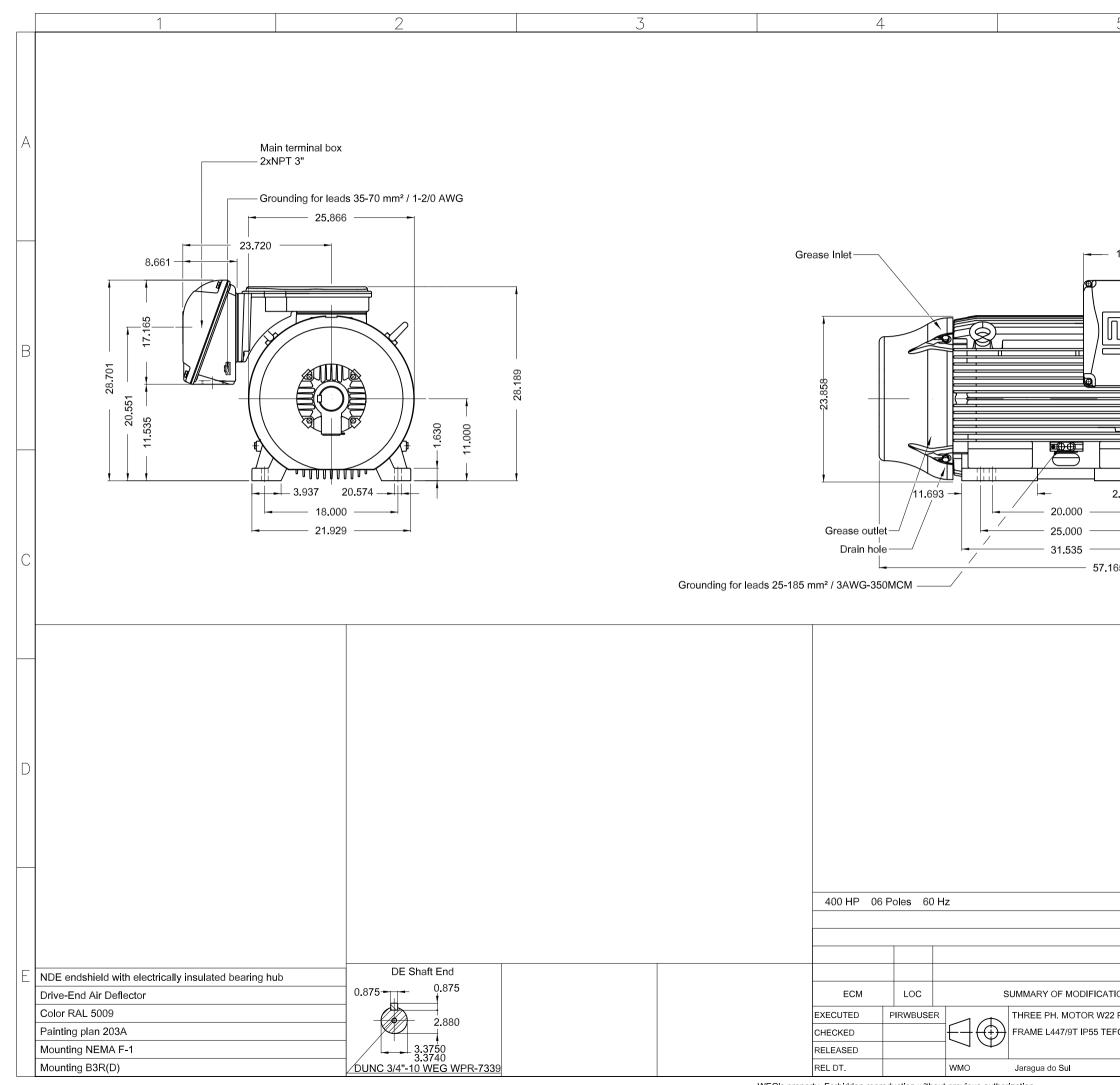












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	MODEL 40012ET3	G449T–W22										
ZIL	Electric Motor Severe Duty									-		
BRA 064	PH3 60Hz	Fr. L447/9T	1000m.a.s.l.	IP55	TEFC	3632lb			_	START 01120110011	- WINDING RUN 1 0T120T100T11	WYE-DELTA START RUN 0 ¹² 0 ¹¹⁰ 0 ¹¹¹ 0 ¹² 0 ¹¹⁰ 0 ¹¹¹
IN 52(V 460			a 477						JT7 JT8 JT9		016 014 015 016 014 015
	HP 400			kW 30	0					016 014 015 011 012 013	16 T4 T5	017 018 019 017 018 019 011 012 013 011 012 013 011 012 013 011 012 013
MADE 12	SF 1.00			SFA –						6322-C3		
Σ	RPM 1190			PF 0.	.82				<pre>h</pre>			
	AMB 40°C		INS cl	.F		NEMA NOM EFF	95.8%		≞→	6319-C3	(45g)	
	DUTY CONT.		DES -	- Code	e H				¥	MOBIL PO	LYREX EM (1	1000h)
									X			