DATA SHEET

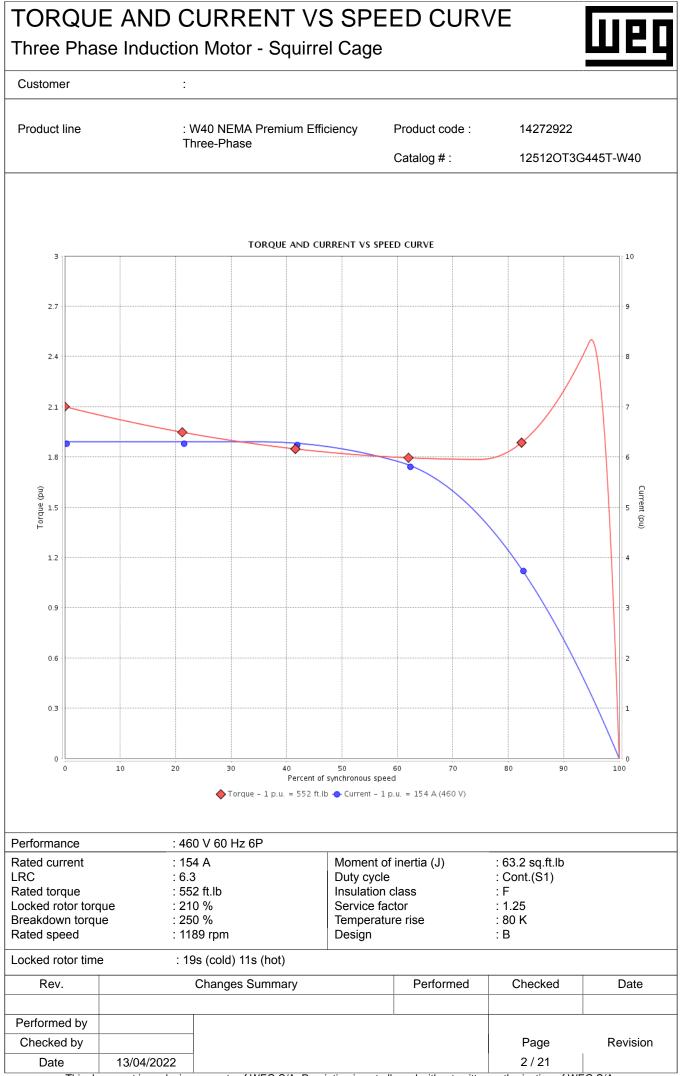
Three Phase Induction Motor - Squirrel Cage

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Customer

Frame ::::::::::::::::::::::::::::::::::::	Product line		: W40 NEMA Premiun Three-Phase	n Efficie	ncy Pi	roduct code :	14272922		
Insulation class : F Mounting : F-1 Duty cycle : Cont.(S1) Rotation' : Both (CW and CCW Attitude : 20° C to +40° C Starting method : Direct On Line Protection degree : IP23 100 100 : 63.2 sq.ft.lb Design : B 100 100 100 100 Origes : 6 : 6 : 6 : 6 : 6 : 6 Fequency [Hz] : 60 : 50 : 50 : 50 : 50 : 50 Stated current [A] : 154 : 152 : 151 : 151 : 151 R. C(A) : 63.2 (Code () : 65.2 (Code H) : 65.2						atalog # :	125120	DT3G445T-W40	
Dutput [HP] 125 100 100 100 Topes 6 6 6 6 6 6 6 Fequency [Hz] 60 50 50 50 50 50 Stated ourrent [A] 154 152 151 151 151 .RC [A] 6.3x(Code G) 6.6x(Code H) 6.9x(Code J) 6.9x(Code J	Insulation class Duty cycle Ambient tempera Altitude Protection degre		: F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP23		Mounting Rotation ¹ Starting m Approx. w	nethod /eight³	: F-1 : Both (CW and CCW) : Direct On Line : 1391 lb		
Poles 6 6 6 6 6 6 6 6 6 6 70 50 60 66.0	-				100	10	0	100	
Frequency [H2] 60 50 50 50 80 Rated voltage [V] 460 380 400 415 Rated current [A] 154 152 151 151 L. R. Amperes [A] 970 1003 1042 1042 No load current [A] 6.3x(Code G) 6.6x(Code H) 6.9x(Code S) 6.8x(Code G) No load current [A] 66.0 66.0 72.0 78.0 Rated speed [PPM] 1189 989 990 991 Sin [%] 0.92 1.10 1.00 0.90 Reak speed [PPM] 180 210 220 220 260 280 300 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 Embedown torque [%] 250 250 280 300 300 500 94.4 94.1 93.4 92.5 50% 95.0 94.4 94.1 93.4 92.5 51 100% 95.0 94.6									
Rated voltage [V] 460 380 400 415 Rated current [A] 154 152 151 151 LR Armperes [A] 970 1003 1042 1042 LRC [A] 6.3x(Code G) 6.6x(Code H) 6.9x(Code J) 6.9x(Code J) No load current [A] 66.0 66.0 72.0 78.0 Rated speed [RPM] 1189 989 990 991 Sip [%] 0.92 1.10 1.00 0.90 Rated torque [%] 210 180 210 220 Breakdown torque [%] 250 250 280 300 Service factor 1.25 1.00 1.00 1.00 1.00 Temperature rise 80 K 44.9 94.1 93.4 92.5 Efficiency (%) 25% 94.4 94.1 93.4 94.5 94.4 94.1 93.4 94.5 Power Factor 50%			•		-	-			
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R. Amperes [A] 970 1003 1042 1042 RC [A] 6.3x(Code G) 6.6x(Code H) 6.9x(Code J) 78.0 94.6 94.4 94.1 93.4 92.5 94.6 94.6 94.6 94.6 94.6 94.6 94.6 94.6 94.6 94.6 94.6 94.6 94.6 94.6 94						-	-		
RC [A] 6.3x(Code G) 6.6x(Code H) 6.9x(Code J)									
No load current [A] 66.0 72.0 78.0 Rated speed [RPM] 1189 989 990 991 Silp [%] 0.92 1.10 1.00 0.90 Stated forque [KIb] 552 531 530 530 Scoker for torque [%] 210 180 210 220 Breakdown torque [%] 250 250 280 300 Service factor 1.25 1.00 1.00 1.00 Femperature rise 80 K 80 K 80 K 80 K 80 K Cocker otror time 19s (cold) 11s (hot) 16s (cold) 9s (hot) 16s (cold) 9s (hot) 16s (cold) 9s (hot) 16s (cold) 9s (hot) State factor 25% 94.4 94.1 93.4 92.5 Forse 69.0 B(A) 94.6 94.4 94.1 100% Power Factor 75% 0.50 94.6 94.4 94.1 100% 0.77 0.73 0.68 0.65 Sealing : Without				6.6					
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Rated forque [ft.lb] 552 531 530 530 530 Locked rotor torque [%] 210 180 210 220 Breakdown torque [%] 250 250 280 300 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 19s (cold) 11s (hot) 16s (cold) 9s (hot) 16s (cold) 9s (hot) 16s (cold) 9s (hot) Locked rotor time 19s (cold) 44 94.1 93.4 92.5 Efficiency (%) 50% 94.5 94.2 93.7 93.1 100% 95.0 94.6 94.4 94.1 94.6 94.4 Power Factor 75% 0.37 0.33 0.30 0.30 Power Factor 50% 0.59 0.60 0.55 0.51 Ibroe and star 20000 h 2000 h 0.73 0.73 0.33 lb Bearing type : 6316 C3 6314 C3 Max. traction		/I]							
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100% 100% 95.0 94.6 <th< td=""><td>Efficiency (%)</td><td></td><td></td><td colspan="2"></td><td></td><td></td><td></td></th<>	Efficiency (%)								
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Bearing Seal Bearing Seal Lubrication interval : 20000 h 20000 h Lubricant amount : 45 g 27 g Lubricant type : Mobil Polyrex EM Notes			: 6319 C3 63	14 C3	Max. tracti	on			
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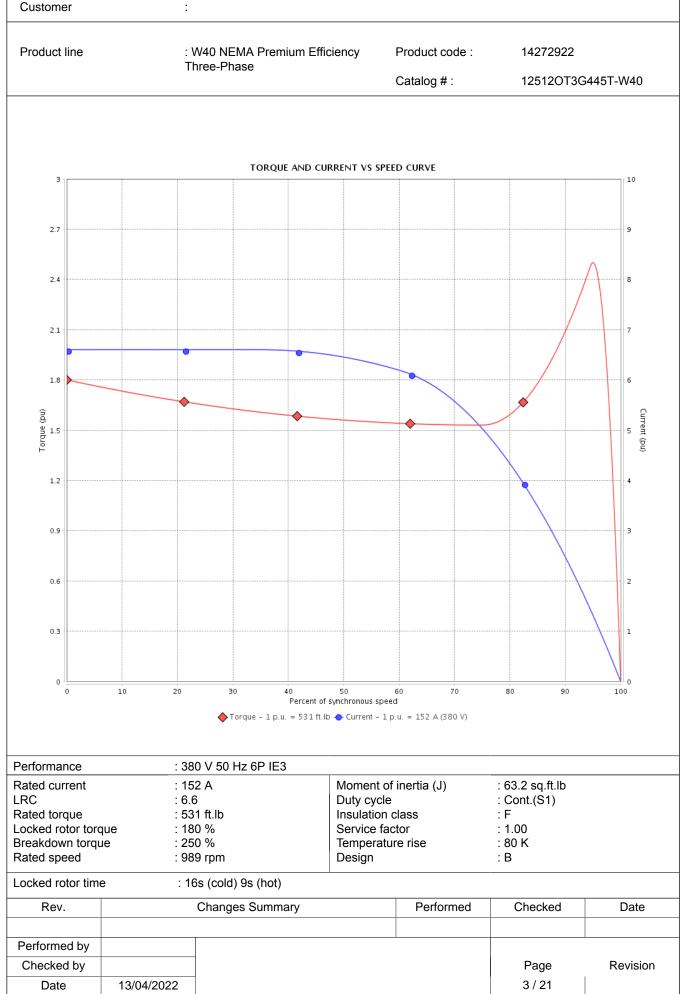


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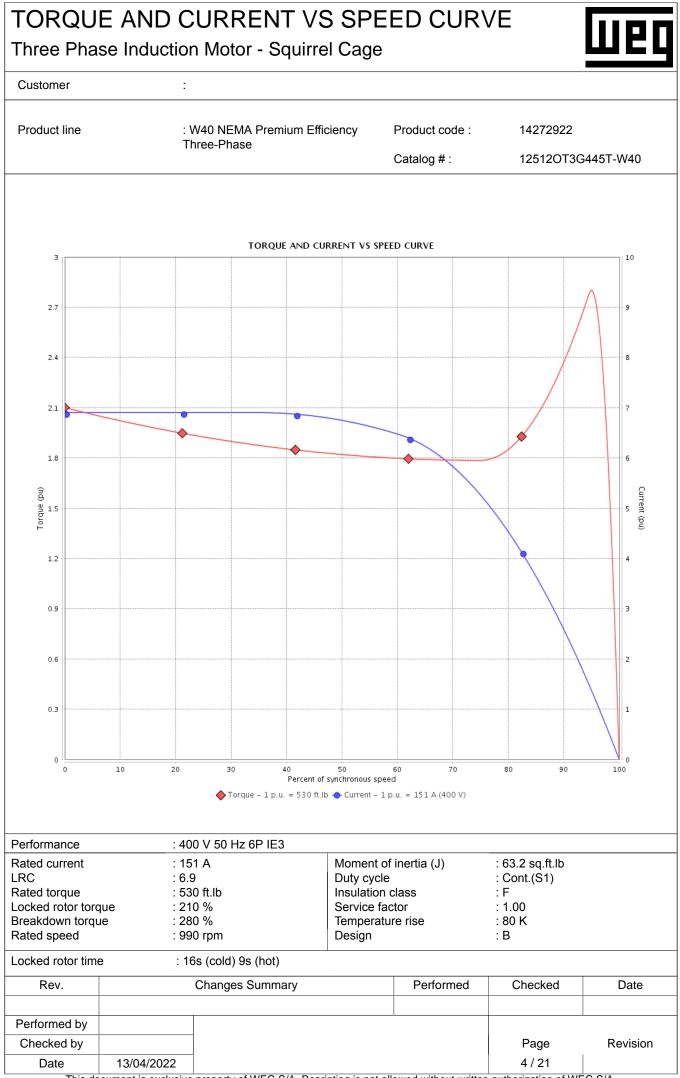
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



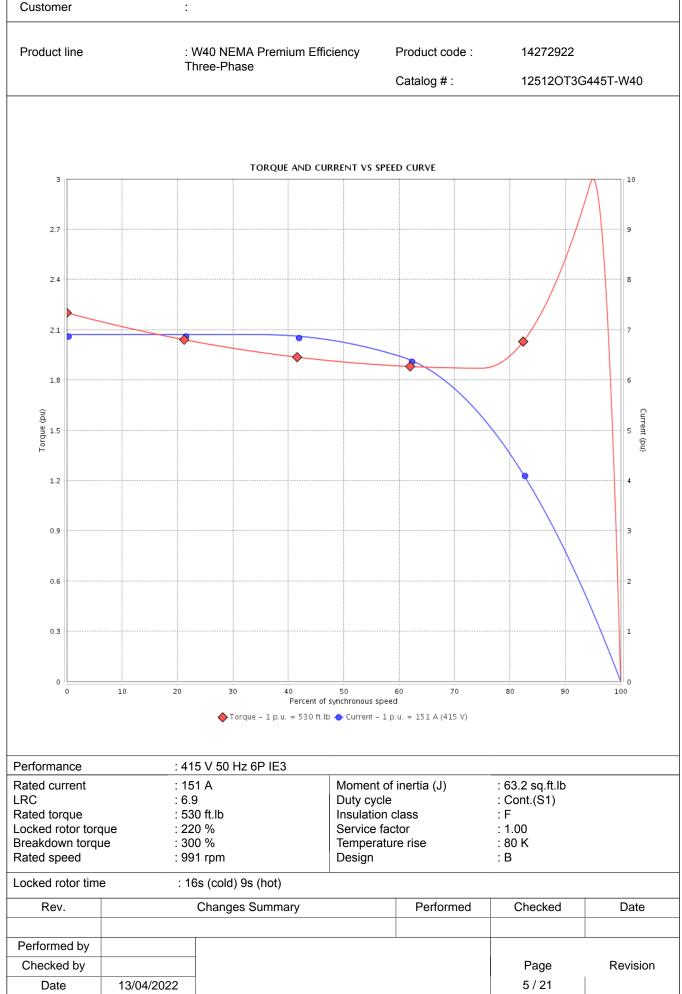
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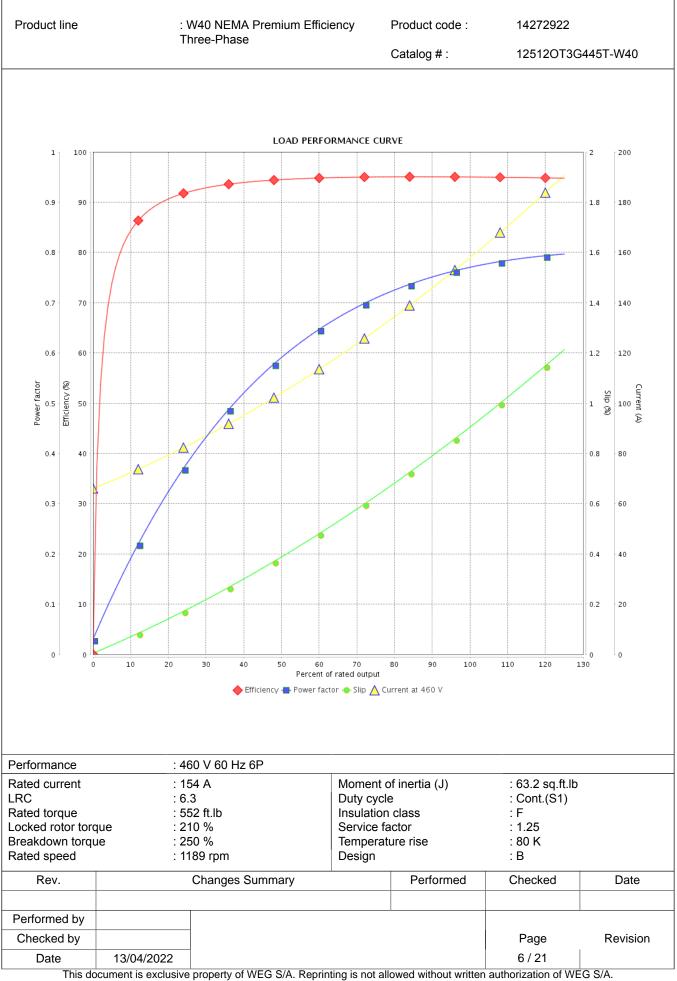
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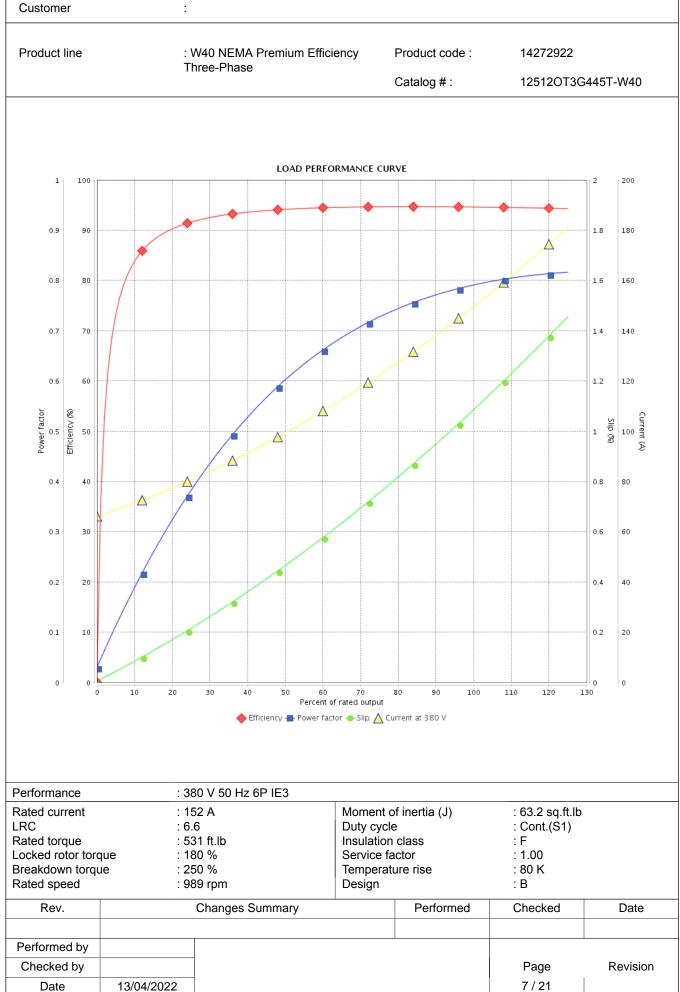


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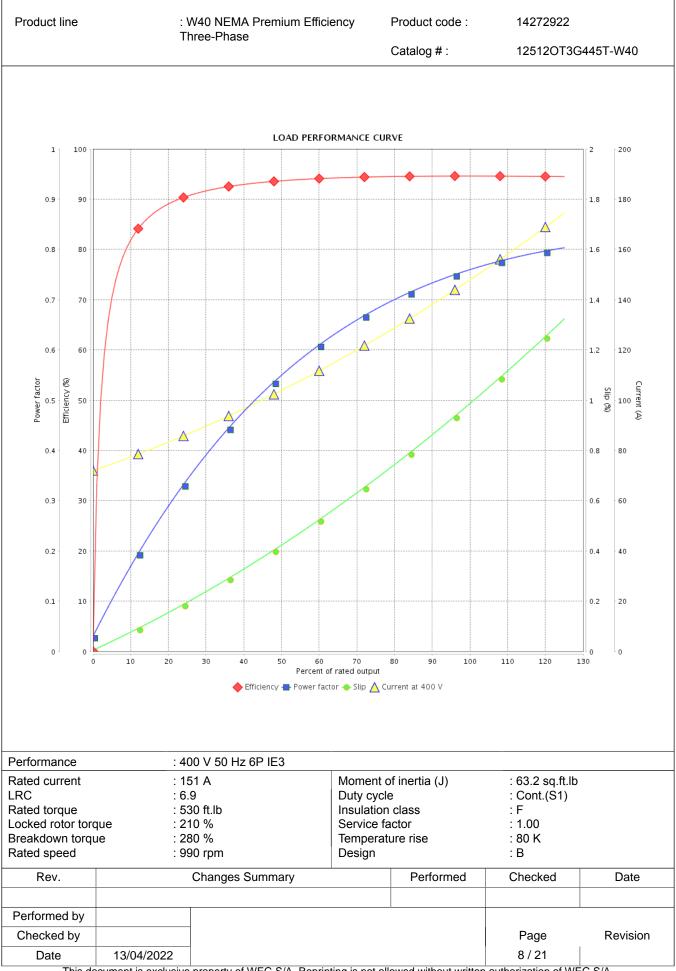
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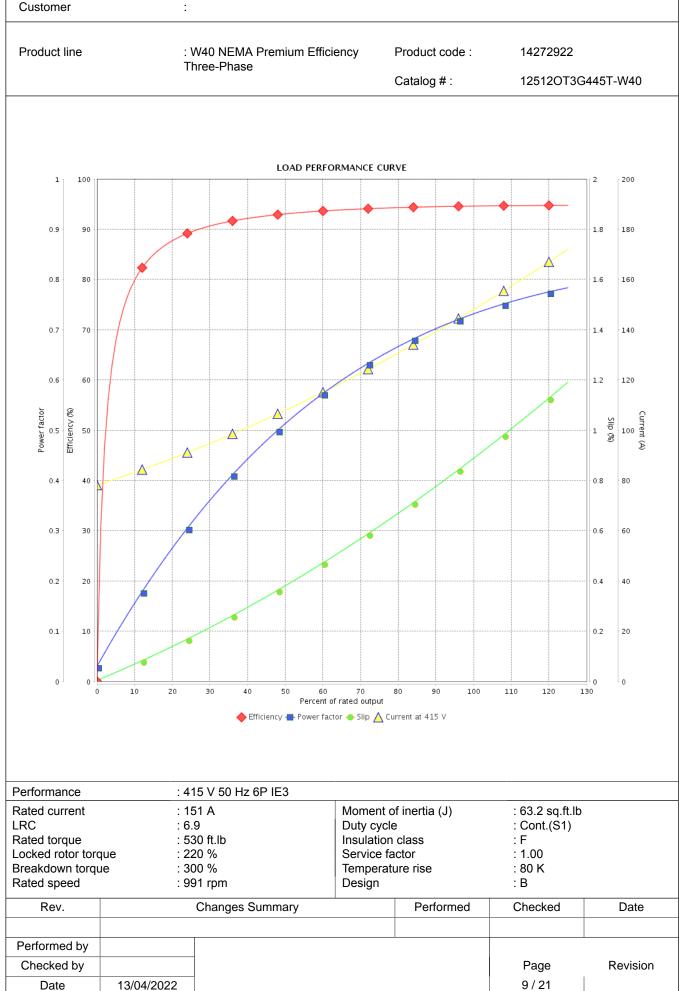


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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage

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Customer

Product line	: T	W40 NEMA Premium Efficie Three-Phase	ency	Product code :	14272922	
				Catalog # :	12512OT3G4	45T-W40
Performance	: 4	60 V 60 Hz 6P				
Rated current		54 A	Moment o	f inertia (J)	: 63.2 sq.ft.lb	
LRC Rated torque	: 6 : 5	5.3 552 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor toro	jue : 2	210 % 250 %	Service fa		: 1.25	
Breakdown torqu Rated speed		189 rpm	Temperatu Design	lie lise	: 80 K : B	
Heating constant						
Cooling constant						
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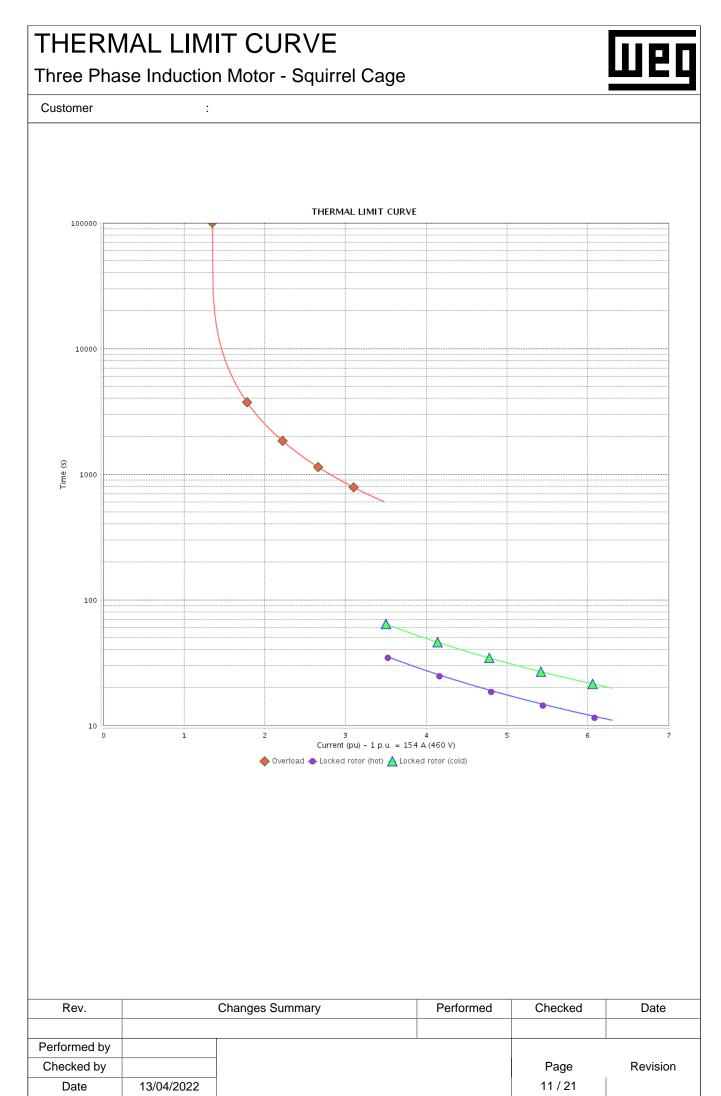
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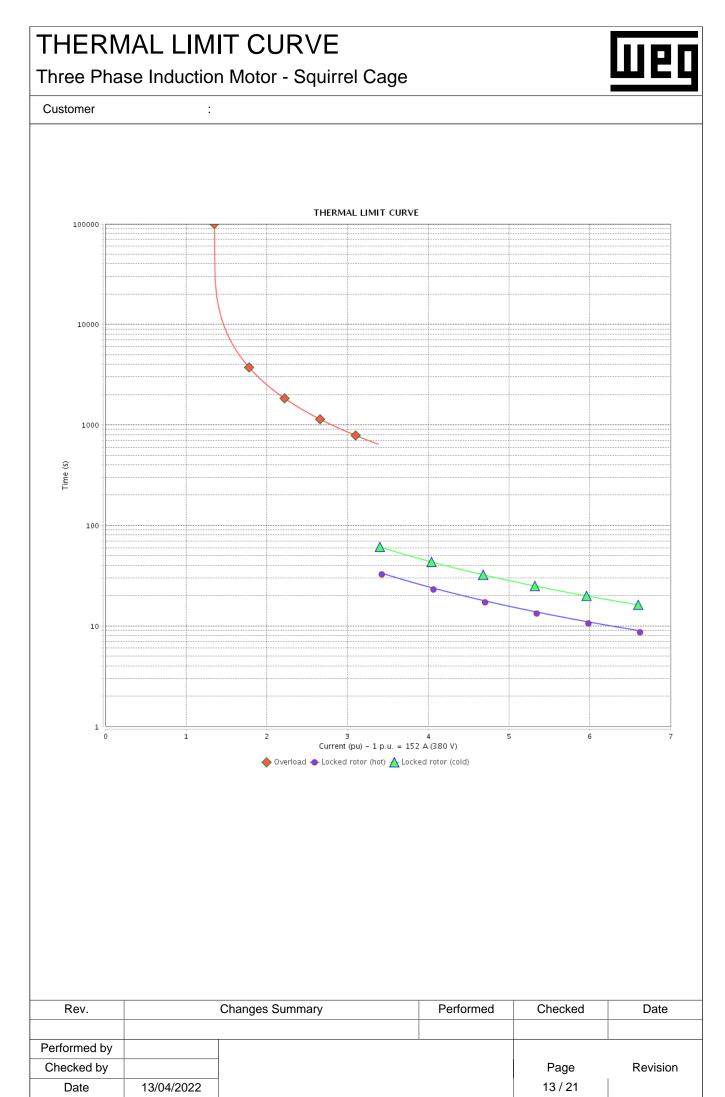


Customer

Product line		: W40 NEMA Premium Efficiency Three-Phase			14272922	14272922		
	1			Catalog # :	12512OT3G4	45T-W40		
Performance Rated current		80 V 50 Hz 6P IE3 52 A	Moment o	f inertia (J)	: 63.2 sq.ft.lb			
Rated corrent LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 5 que : 1 ue : 2		Duty cycle Insulation Service fa Temperatu Design	e class ctor	: Cont.(S1) : F : 1.00 : 80 K : B			
Heating constan								
Cooling constant Rev.	t	Changes Summary		Performed	Checked	Date		
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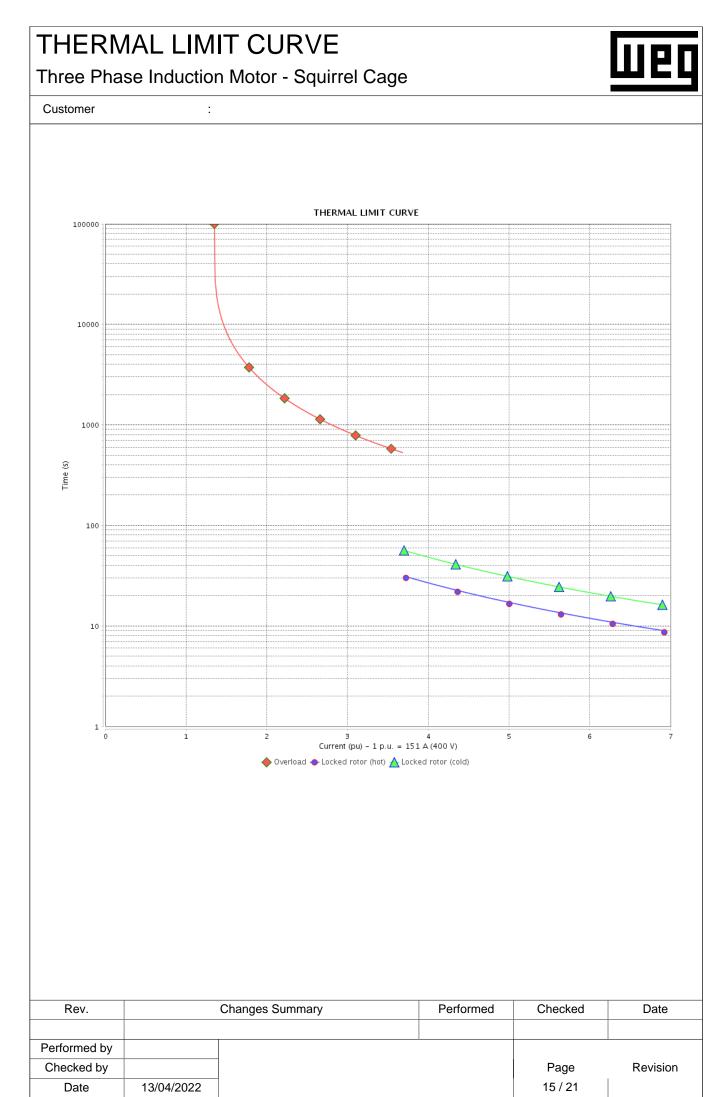


Customer

Product line		W40 NEMA Premium Efficie hree-Phase	ency	Product code :	14272922	
				Catalog # :	12512OT3G4	45T-W40
Performance	: 4	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 6 : 5 jue : 2 ie : 2	51 A .9 30 ft.lb 10 % 80 % 90 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 63.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Cooling constant Rev.	[Changes Summary		Performed	Checked	Date
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THERMAL LIMIT CURVE

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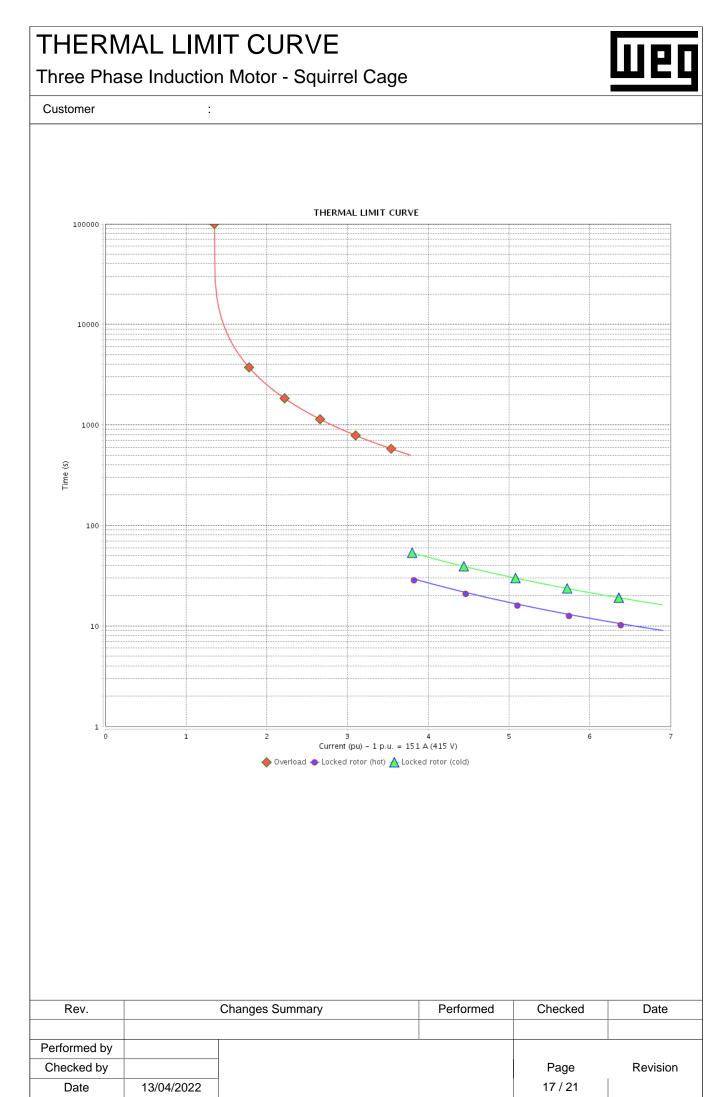


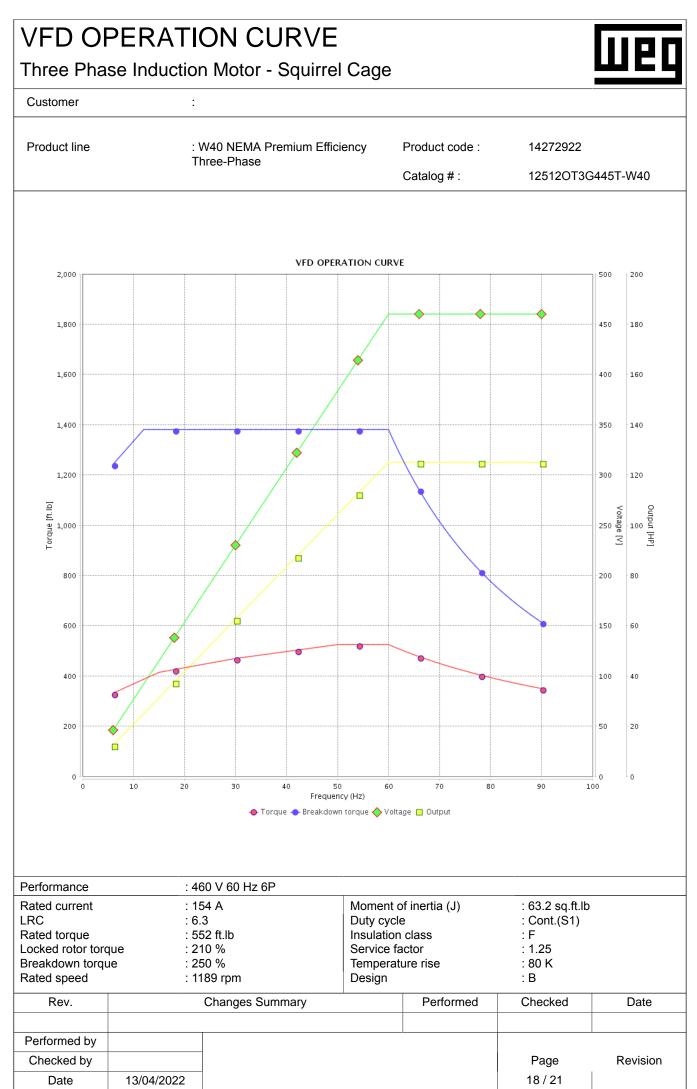
Customer

Product line		W40 NEMA Premium Efficie hree-Phase	ency	Product code :	14272922	14272922		
	1			Catalog # :	12512OT3G4	45T-W40		
Performance		15 V 50 Hz 6P IE3						
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 5 que : 2 ue : 30	51 A 9 30 ft.lb 20 % 00 % 91 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 63.2 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B			
Heating constan	t							
Cooling constant								
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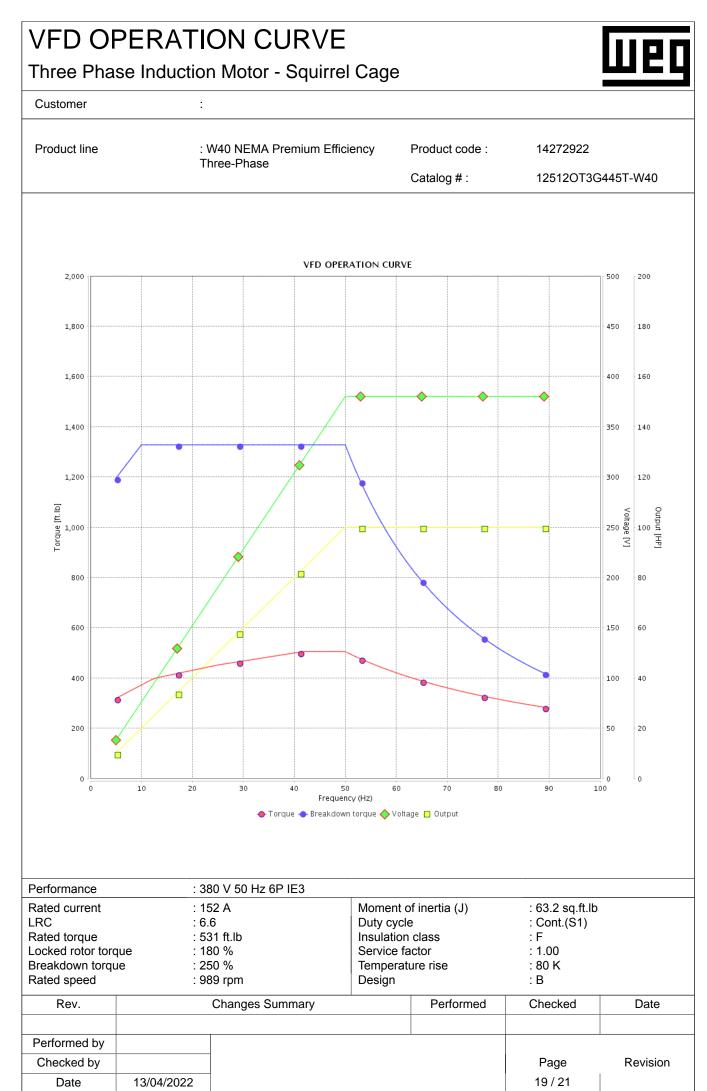
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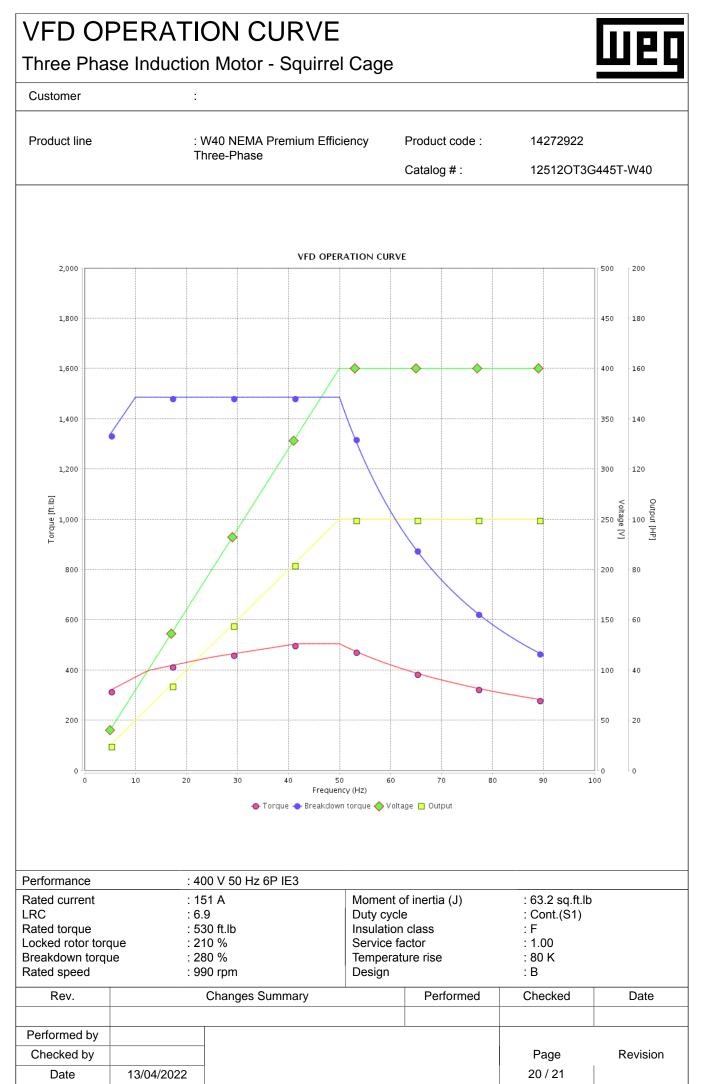


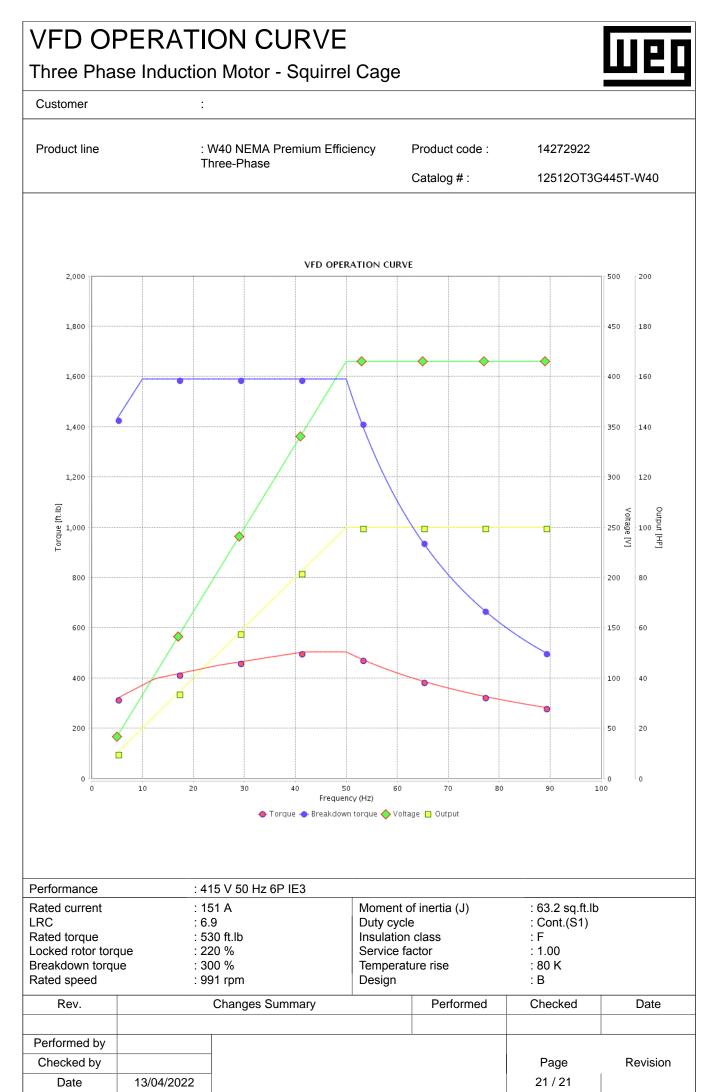


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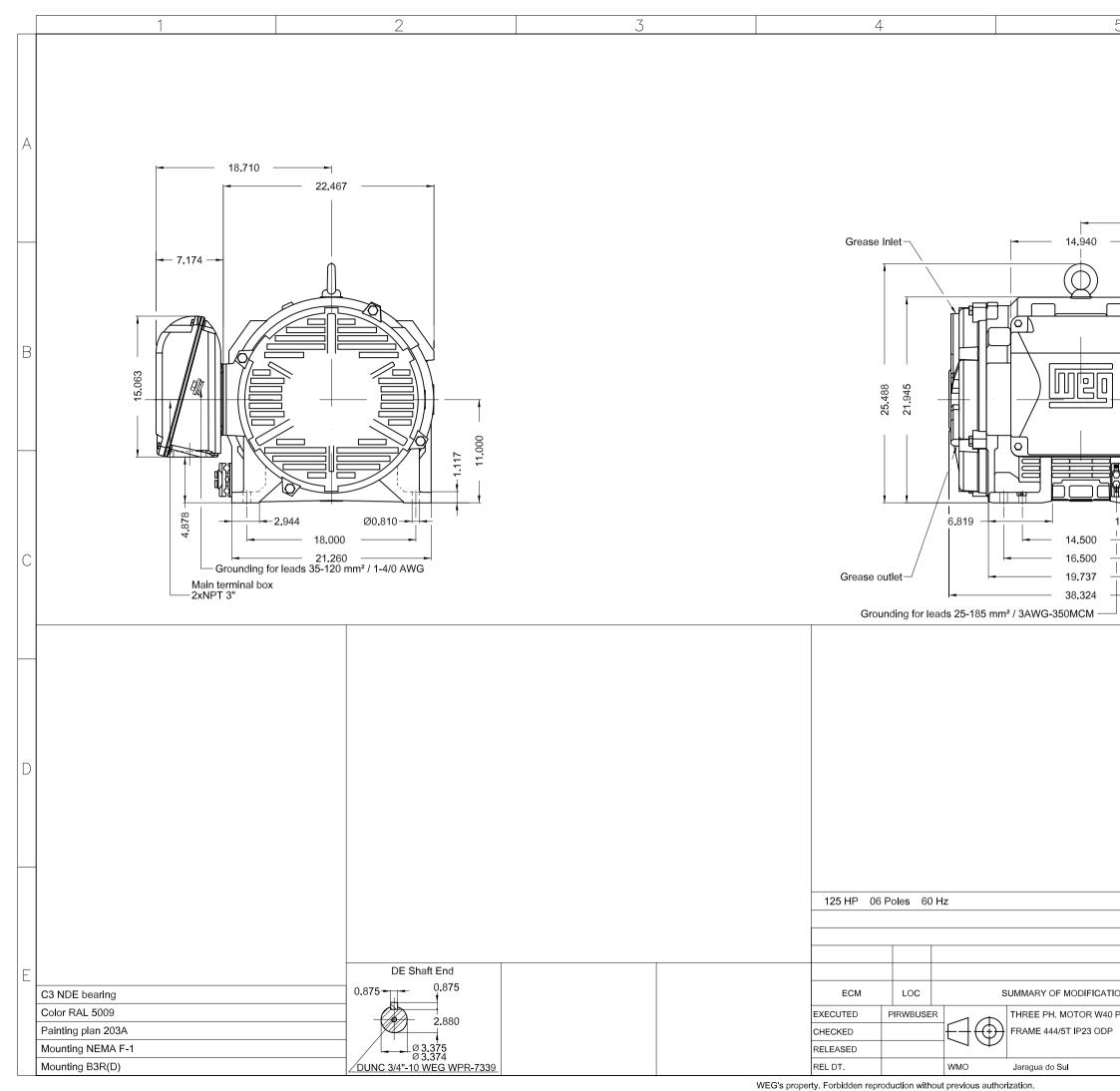


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	CC	029A 🛛	Notor	®	(C E c	(!).	3pt9 Js Liste		C 60034-1 DD.TO1#F0X0N	A Control of the second
5T-W ZIL	PH 3 FR	444/!	5T	HF	P(kW)	125(9	0)		Hz 6	0	PART-WINDING WYE-DELTA START RUN START RUN
MODEL 125120T3G445T- MADE IN BRAZIL 14272922	v 460			A 1:	54				IF	23 [°]	0112 0110 0111 0112 0110 0111 0112 0110 0111 0112 0110 0111 017 018 019 017 018 019 016 014 015 016 014 015 016 014 015 016 014 015 017 018 019 017 018 019
5120T E IN 4272	NEMA NOM	EFF		95.	0	%	RPM	1189)		○T6 ○T4 ○T5 ○T6 ○T4 ○T5 ○T7 ○T8 ○T9 ○T7 ○T8 ○T9 ○T1 ○T2 ○T3 ○T1 ○T2 ○T3 ○T1 ○T2 ○T3 ○T1 ○T2 ○T3 L1 L2 L3 L1 L2 L3 L1 L2 L3 L1 L2 L3 L1 L2 L3
L 125 14DE 14	ENCL ODP	DUTY	,	CO	NT.		INS.	cl. F	ΔT	80 K	
NODEI	PF 0.77				DES	В	CODE	G	AMB.	. 40°C	46319-C3(45g) MOBIL POLYREX EM $\rightarrow 6314-C3(27g)$ 20000 h
	SF 1.25		SFA 19	3				ALT 1	000	m.a.s.l.	1391 Lbs
	100HP 75	kW 5	0Hz 38	۰ ۷۵	152A	989RP	M SF	1.00	EFF	94.6% ((IE3)