DATA SHEET

Three Phase Induction Motor - Squirrel Cage

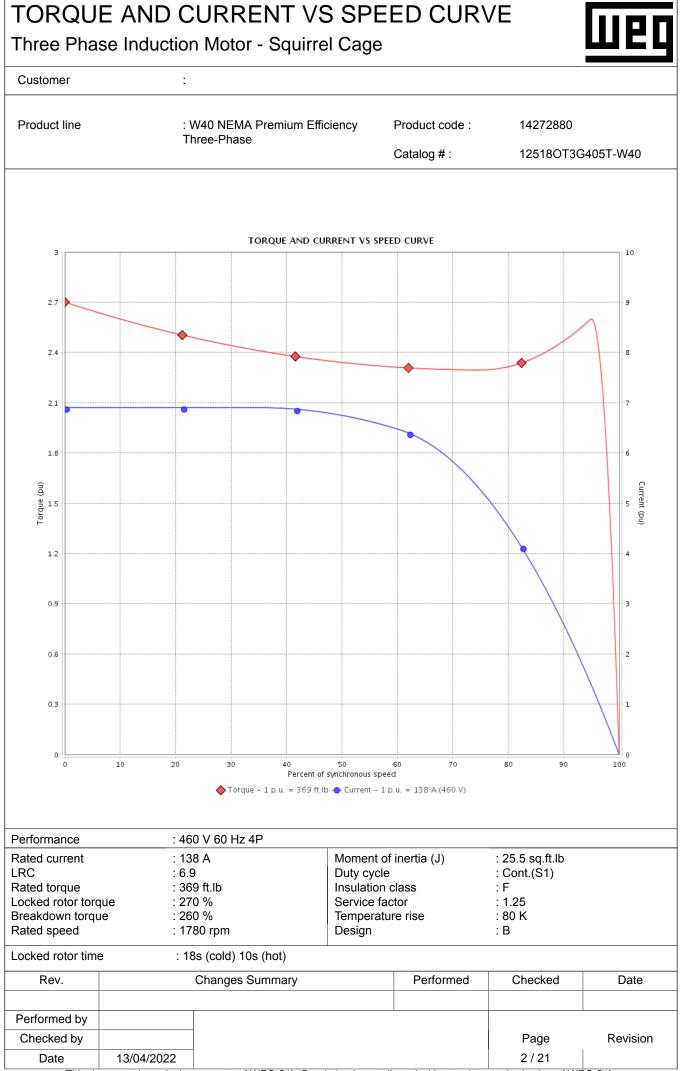
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Customer

Product line		: W40 NEMA Premium Efficiency Three-Phase			Product code :		14272880	
		Three-Phase			Catalog # :		12518OT3G405T-W40	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 404/5T : 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 : 1026 lb : 25.5 sq.ft.lb		
Output [HP]		125		100		00 100		
Poles		4		4	4	-	4	
Frequency [Hz]		60		50	5		50	
Rated voltage [V]		460		380	40		415	
Rated current [A]		138		138	13		129	
. R. Amperes [A]		952		994	102		1032	
_RC [A]		6.9x(Code G)	7.2	2x(Code H)	7.7x(Ce		8.0x(Code J)	
No load current [A	1	47.0		46.3	50		53.7	
Rated speed [RPN		1780		1480	14		1480	
Slip [%]		1.11		1.33	1.3		1.33	
Rated torque [ft.lb]	1	369		355	35		355	
ocked rotor torqu		270		240	27		290	
Breakdown torque		260			30		320	
Service factor	r	1.25			1.0		1.00	
Temperature rise		80 K			80		80 K	
_ocked rotor time		18s (cold) 10s (hot)					4s (cold) 8s (hot)	
Noise level ²		69.0 dB(A)						
	25%	94.9			94	.5	94.8	
Efficiency (%)	50%	95.0		94.5 94.6	94	.6	94.9	
	75%	95.4		95.0	95		95.0	
	100%	95.4		95.0	95		95.0	
	25%	0.50	0.50		0.4		0.43	
	50%	0.75		0.76	0.7		0.69	
Power Factor	75%	0.83		0.84	0.8	32	0.80	
	100%	0.86		0.87	0.8		0.85	
Bearing type Sealing Lubrication inter Lubricant amoun		: 6316 C3 621 : Without Wi Bearing Seal Beari : 20000 h 200 : 34 g 1	6316 C36212 Z C3Max. tractionWithoutWithoutMax. compressionBearing SealBearing Seal20000 h20000 h			: 2892 lb : 3918 lb		
Lubricant type		: Mobil Polyrex E	Mobil Polyrex EM					
Notes				1				
must be eliminate (1) Looking the m (2) Measured at 1	ed. otor from the m and with t veight subjec ocess.	ncel the previous one, wh e shaft end. olerance of +3dB(A). ct to changes after	nich		average values ply, subject to th		with sinusoidal pulated in NEMA	
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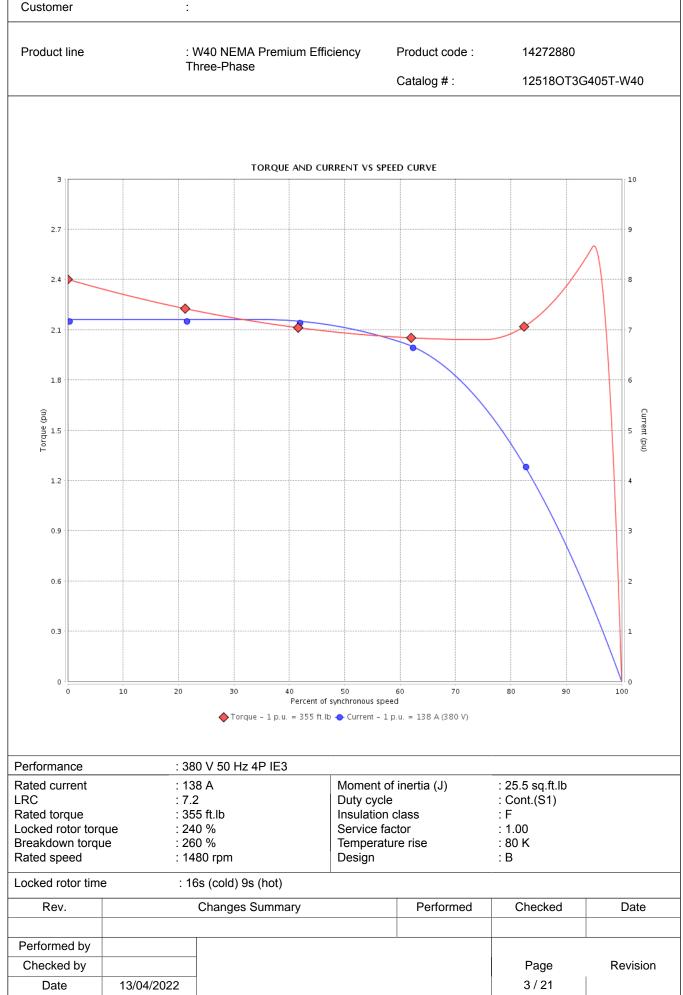
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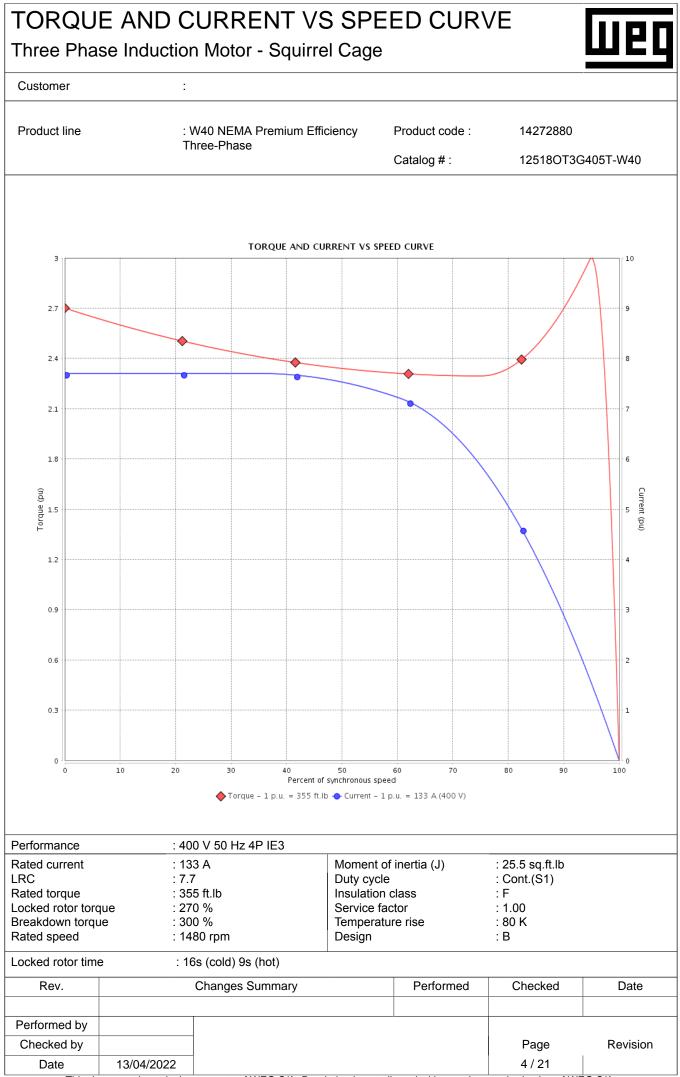
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



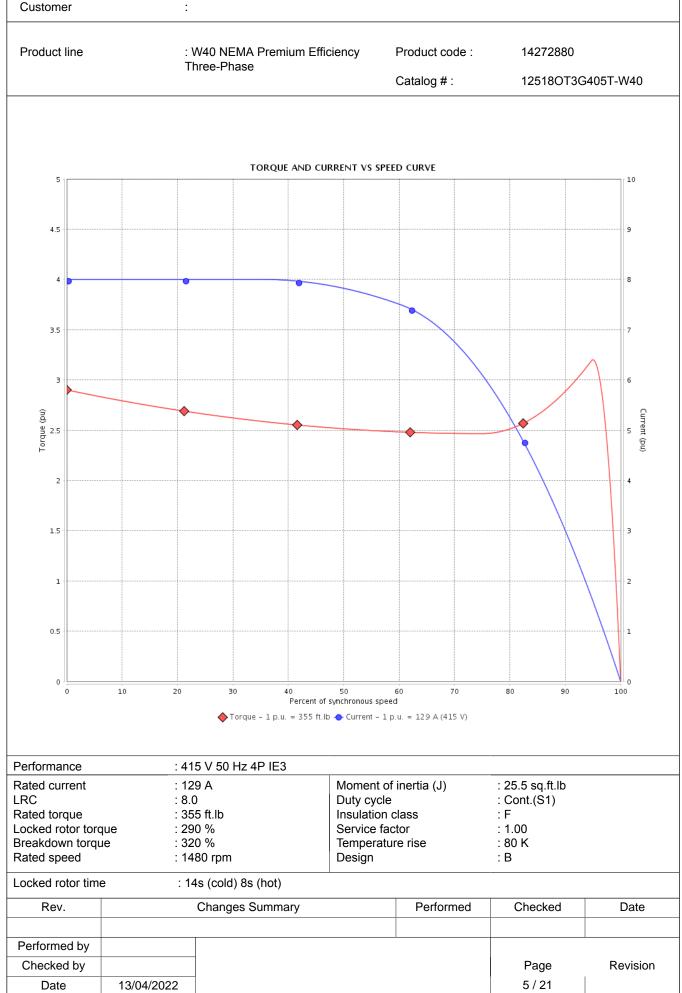
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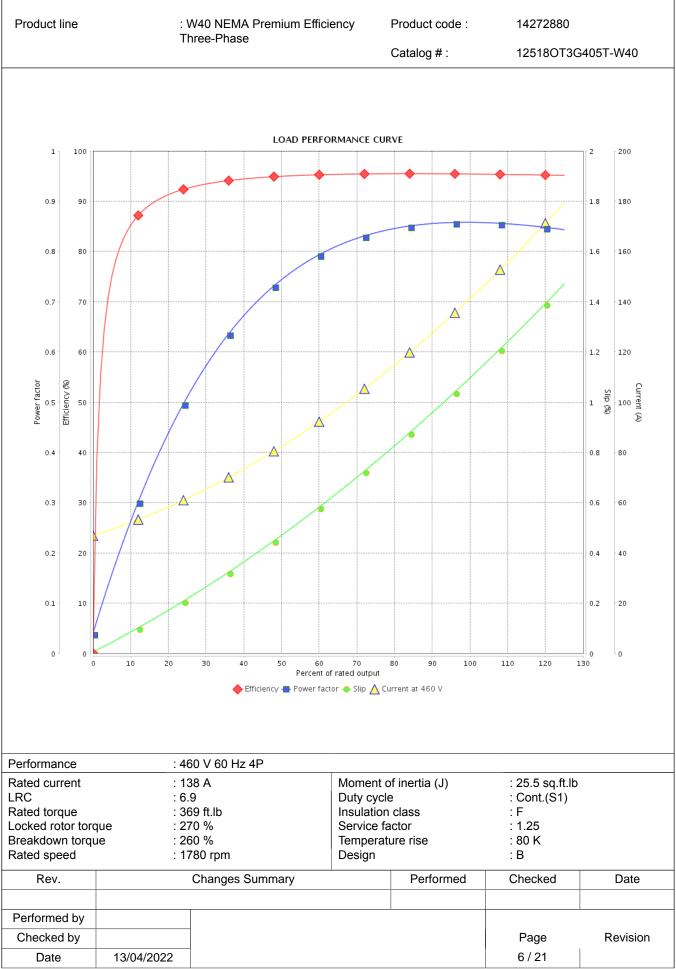
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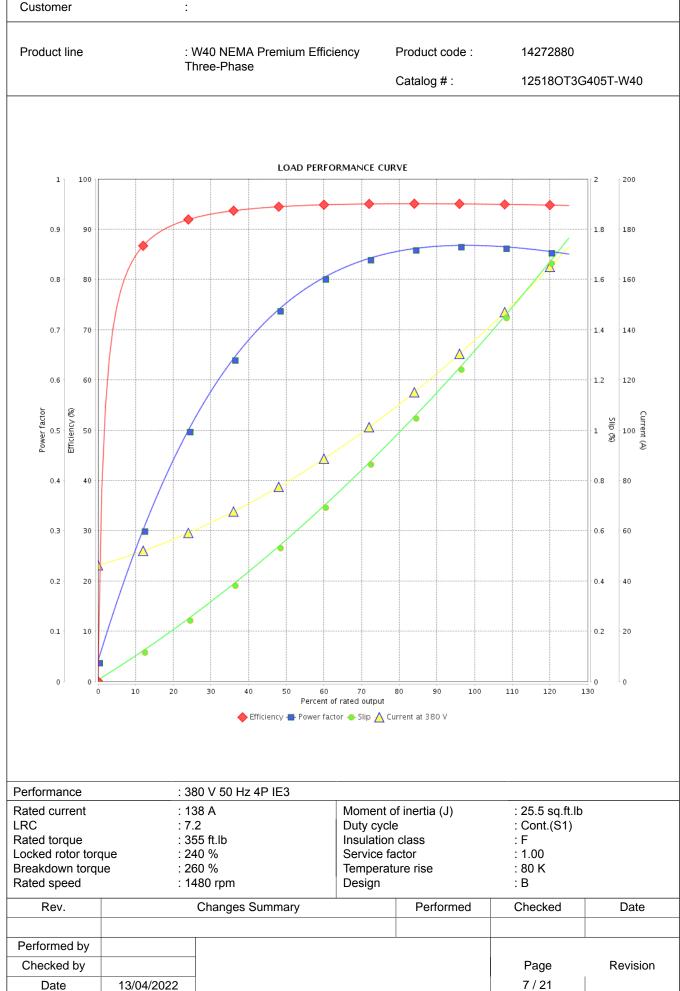


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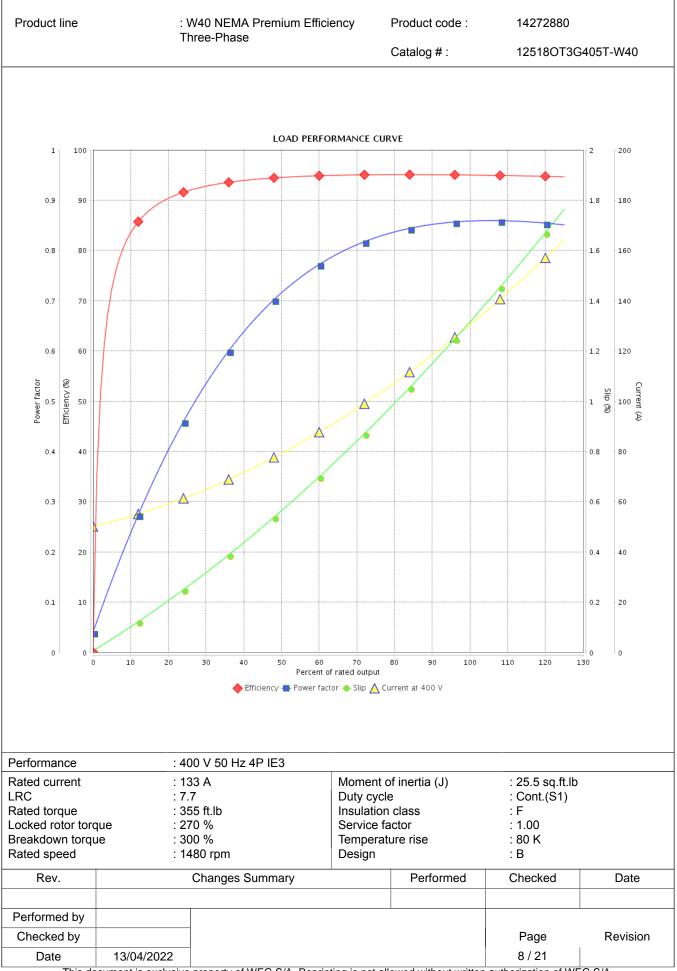
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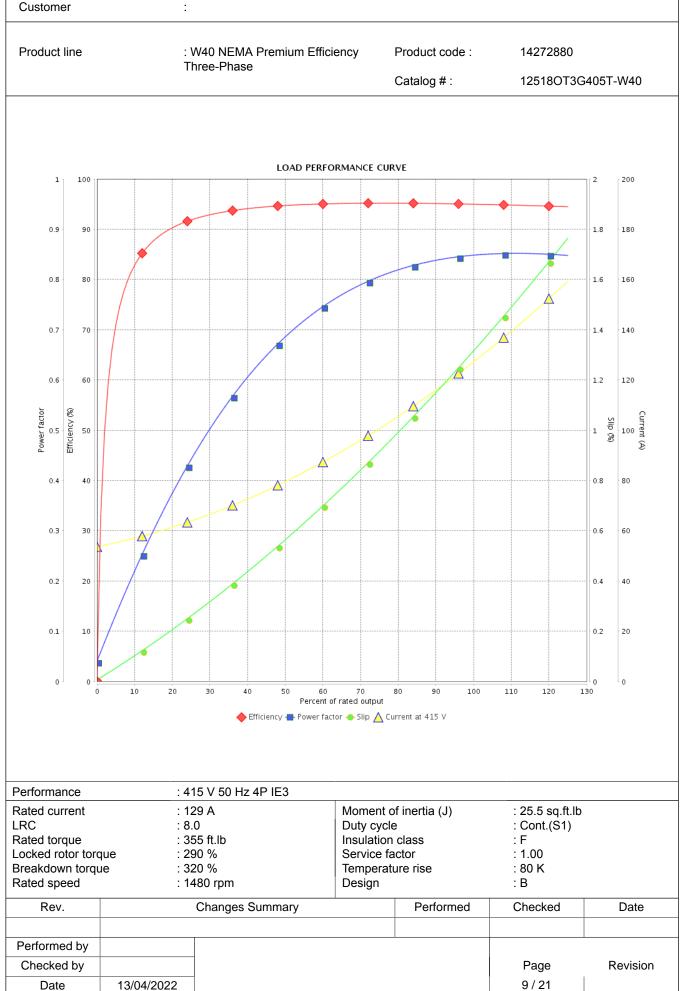


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THERMAL LIMIT CURVE

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Customer

					4.4070000		
Product line	: T	: W40 NEMA Premium Efficiency Three-Phase		Product code :	14272880		
				Catalog # :	12518OT3G4	05T-W40	
Performance		160 V 60 Hz 4P		<u>.</u>	0.5.5. (1)		
Rated current LRC		38 A 3.9	Moment of Duty cycle	of inertia (J) e	: 25.5 sq.ft.lb : Cont.(S1)		
Rated torque	: 3	369 ft.lb	Insulation	class	: F		
Locked rotor torq Breakdown torqu	iue : 2 ie : 2	270 % 260 %	Service fa Temperat		: 1.25 : 80 K		
Rated speed		1780 rpm	Design		: B		
Heating constant							
Cooling constant				,	1		
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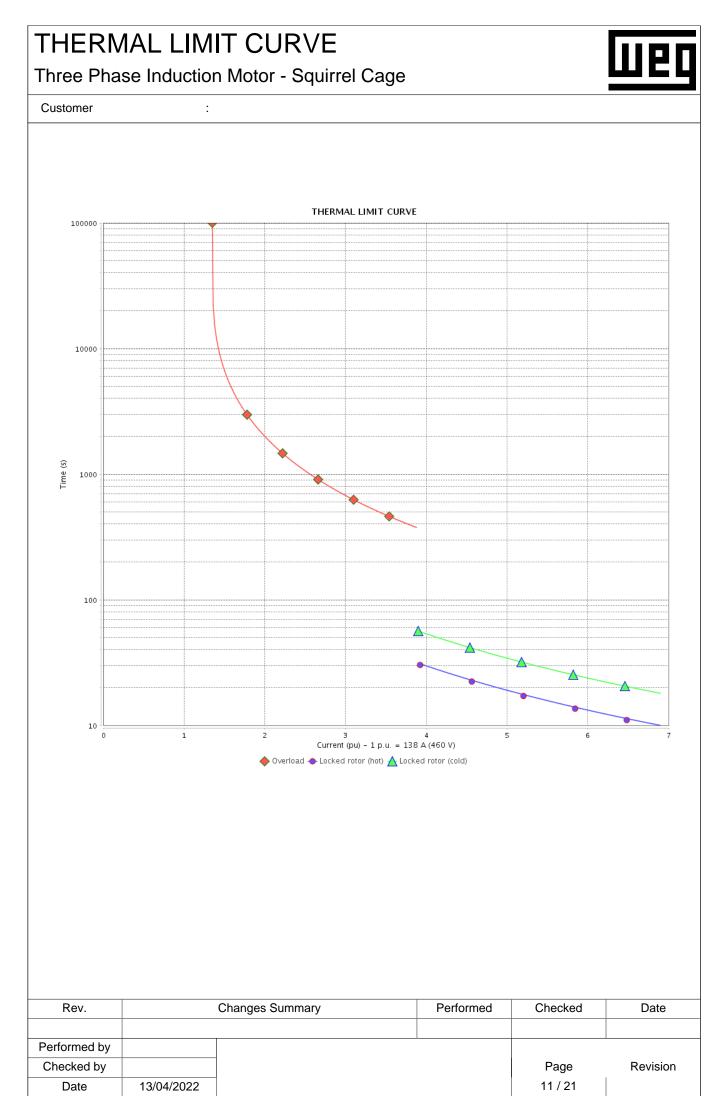
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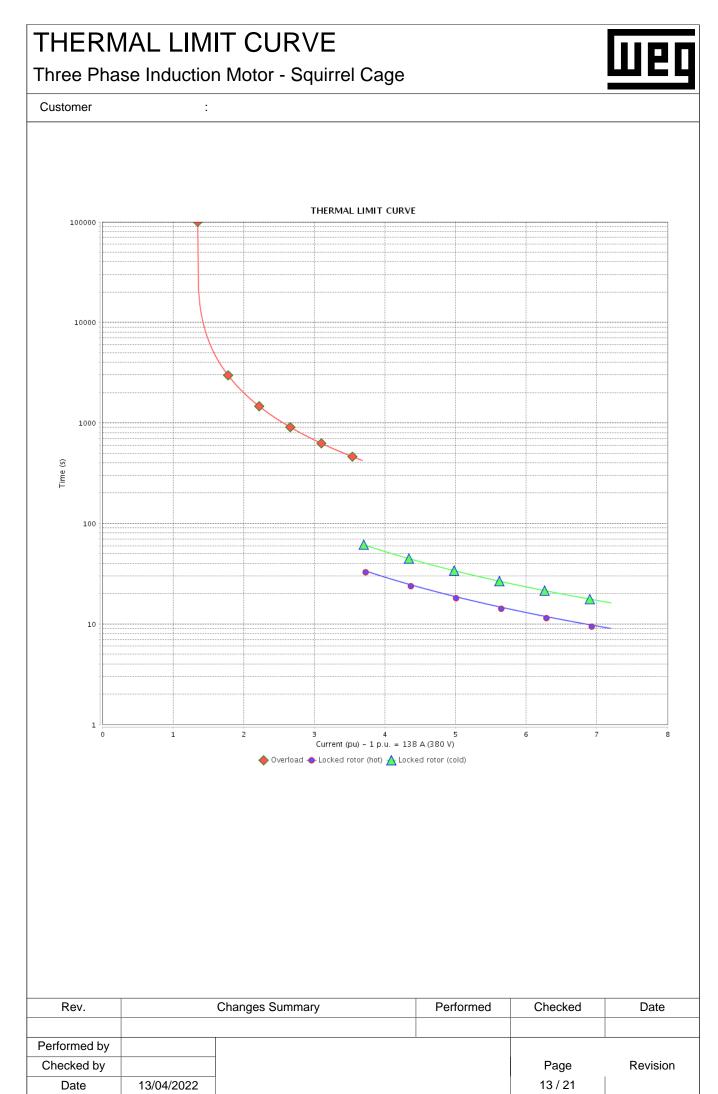


Customer

Product line	:	W40 NEMA Premium Efficie	encv	Product code :	14272880	14272880		
		hree-Phase		Catalog # :		12518OT3G405T-W40		
				-				
Performance	· 2	80 V 50 Hz 4P IE3						
Rated current		38 A	Momento	f inertia (J)	: 25.5 sq.ft.lb			
LRC	: 7	.2	Duty cycle	9	: Cont.(S1)			
Rated torque Locked rotor torqu		55 ft.lb 40 %	Insulation Service fa		: F : 1.00			
Breakdown torque	e :2	60 %	Temperate		: 80 K			
Rated speed		480 rpm	Design		: B			
Heating constant								
Cooling constant				I				
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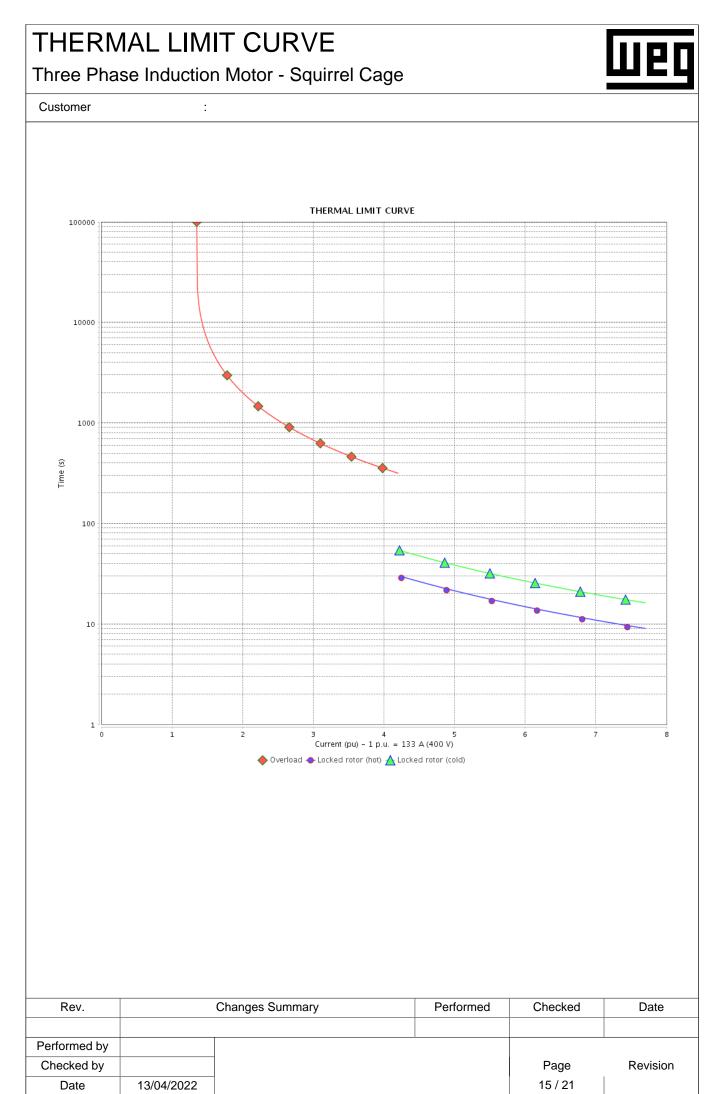


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Product line		W40 NEMA Premium Efficie hree-Phase	ency	Product code :	14272880	14272880	
				Catalog # :	12518OT3G4	105T-W40	
Performance		00 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 7 : 3 jue : 2 ie : 3	33 A .7 55 ft.lb 70 % 00 % 480 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 25.5 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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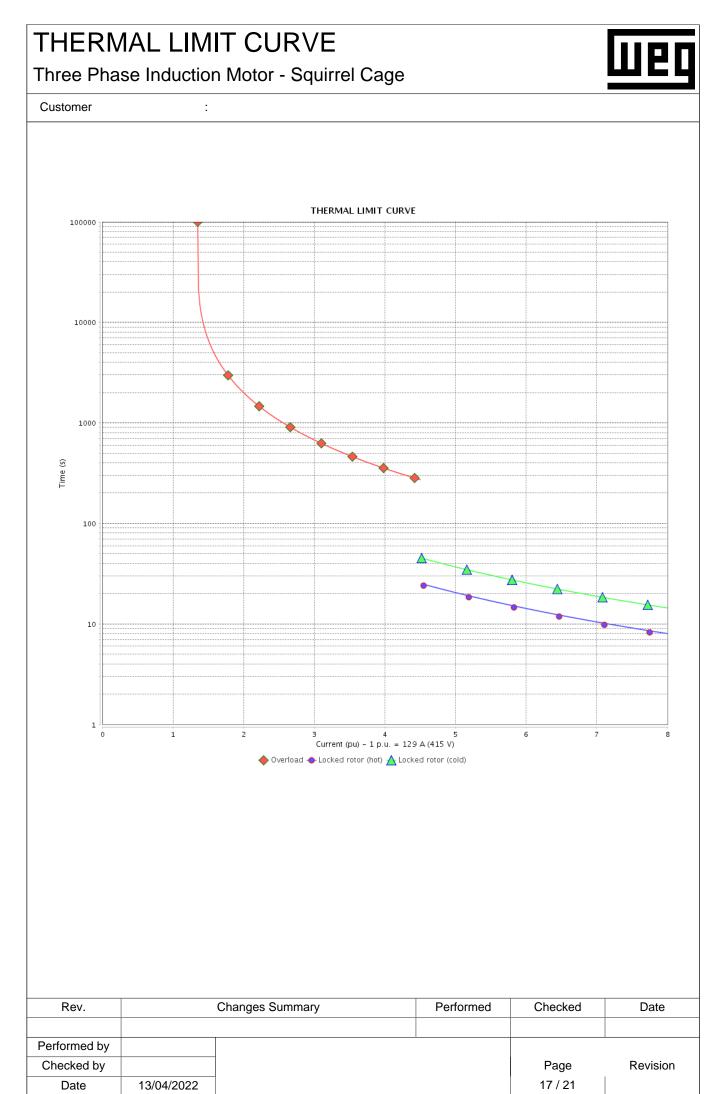


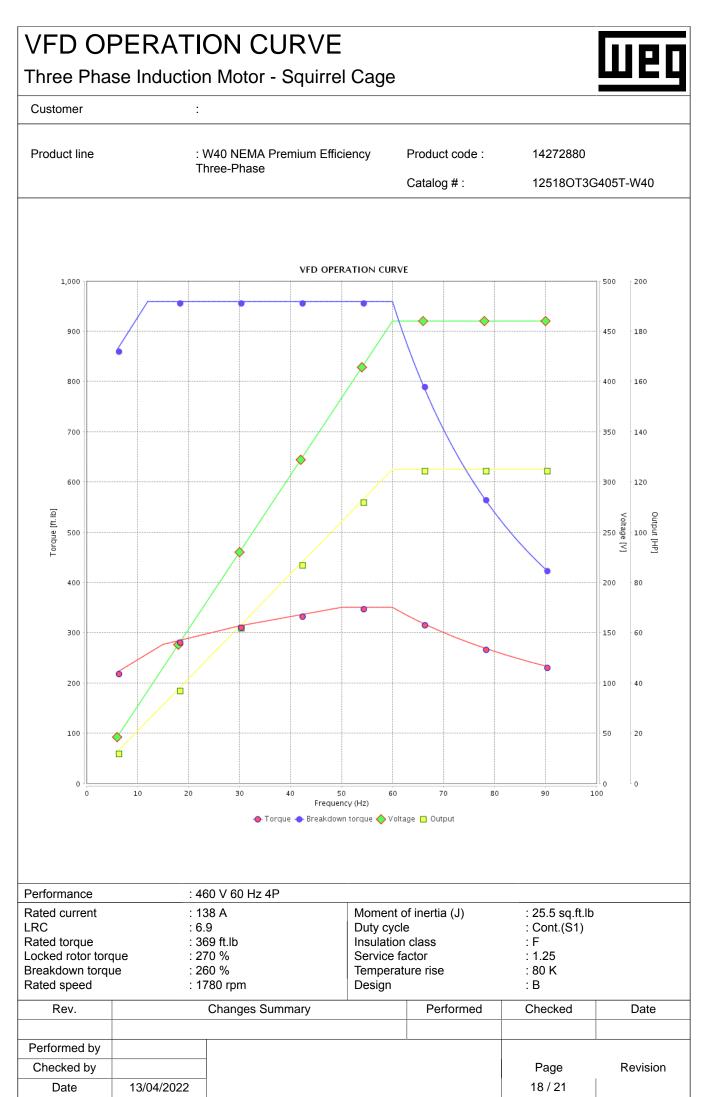
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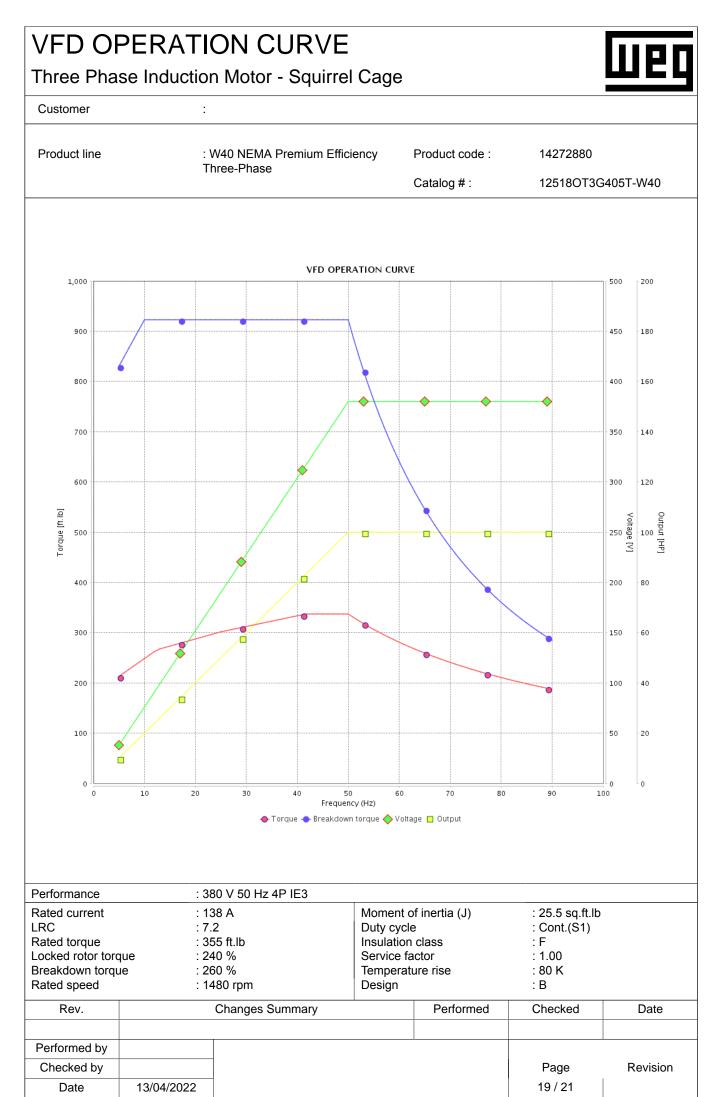
Product line		W40 NEMA Premium Efficie	ency	Product code :	14272880	14272880		
				Catalog # :	12518OT3G4	405T-W40		
Performance	: 4	15 V 50 Hz 4P IE3						
Rated current LRC		29 A 3.0		f inertia (J)	: 25.5 sq.ft.lb			
Rated torque		855 ft.lb	Duty cycle Insulation	, class	: Cont.(S1) : F			
Locked rotor toro	jue : 2	290 %	Service fa	ictor	: 1.00			
Breakdown torqu Rated speed		320 % 480 rpm	Temperate Design	ure rise	: 80 K : B			
		וווקו סטד	Design					
Heating constant								
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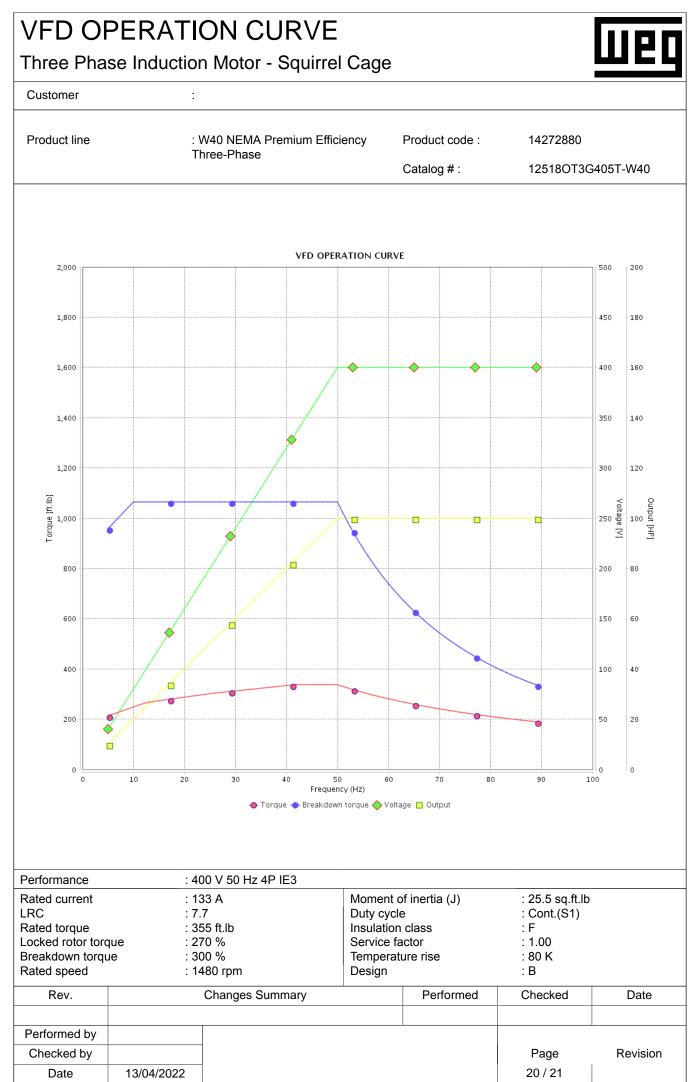
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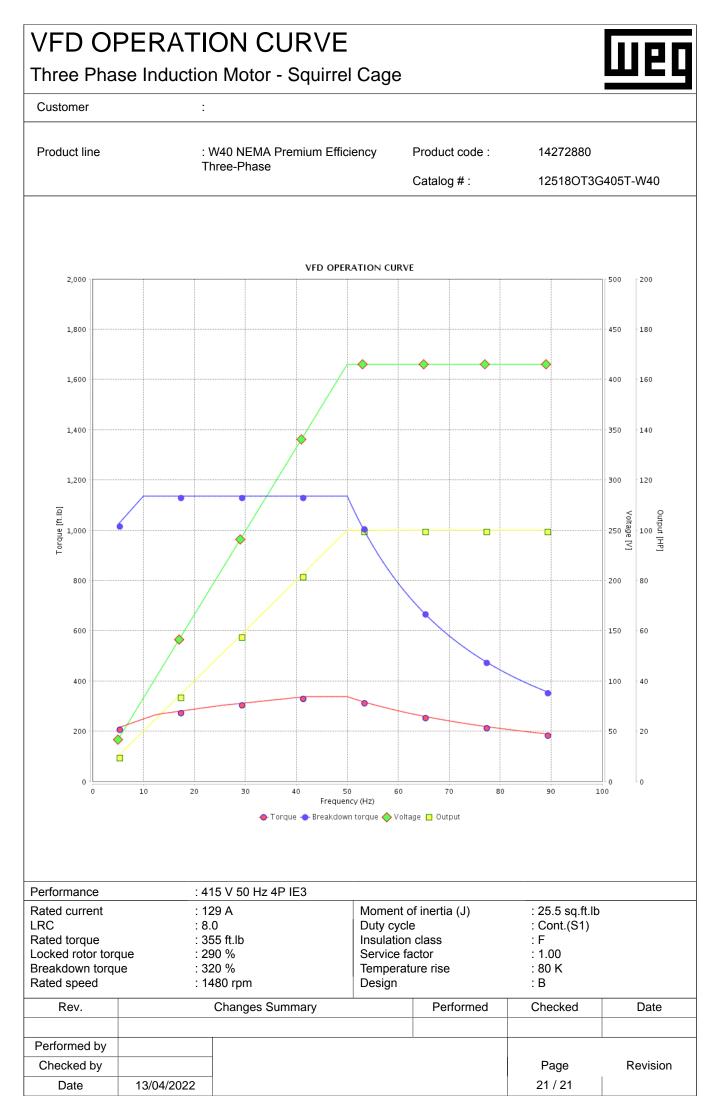
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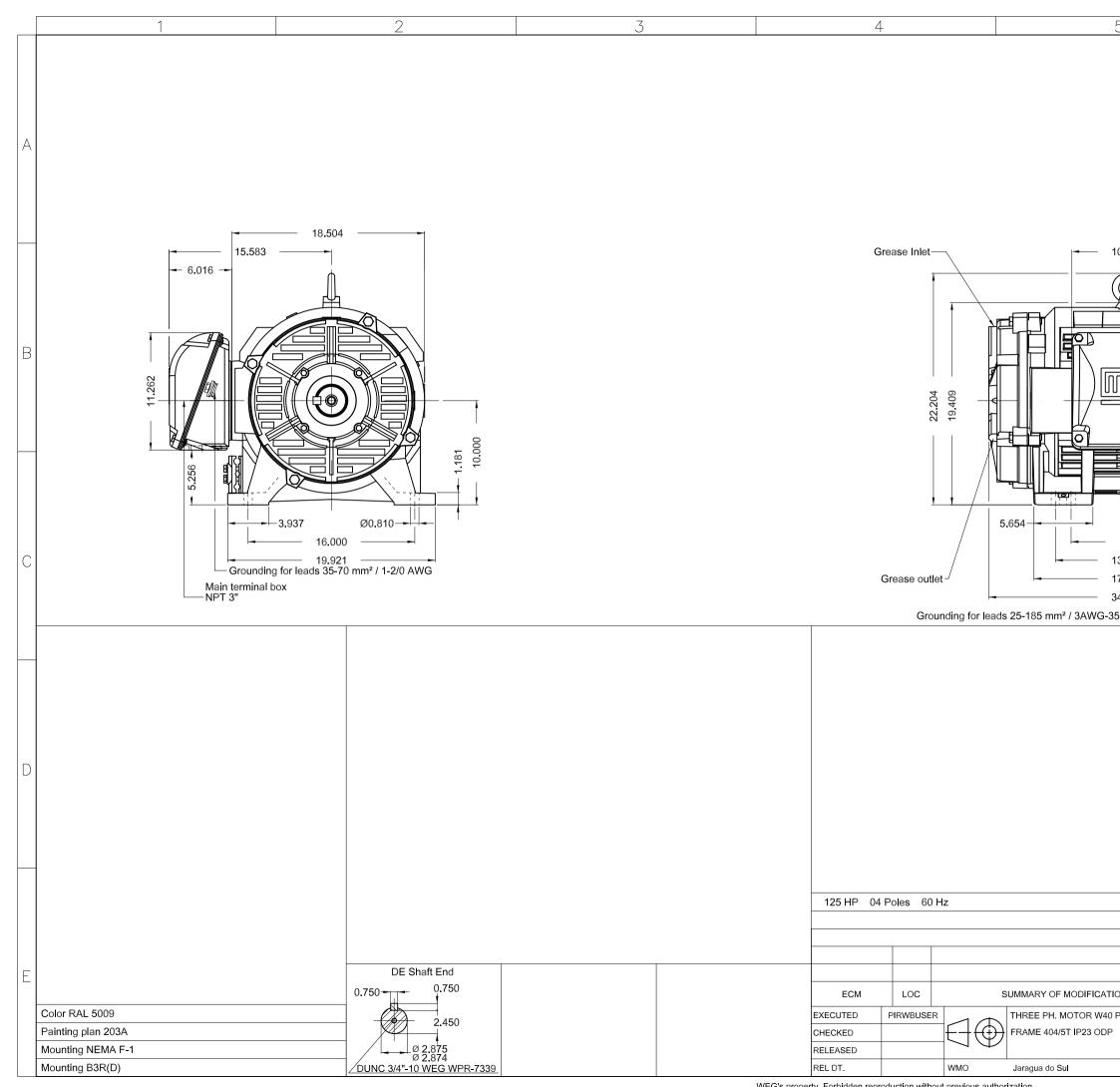












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5T-W ZIL	PH 3 FR 4	04/5T	HP(k	_{W)} 125(9	0)	Hz 60	PART-WINDING WYE-DELTA START RUN START RUN
MODEL 125180T3G405T-W40 MADE IN BRAZIL 14272880	v 460		A 138			IP23	0112 0110 0111 0112 0110 0111 0112 0110 0111 017 018 019 016 014 015 016 014 015 016 014 015 016 017 018 017 018 017 018 019 017 018 01
51801 IN 1272	NEMA NOM EF	FF	95.4	%	RPM 178	C	
L 125 14DE 14	ENCL ODP	DUTY	CON	т.	INS. CL.	F∆т 80 к	
NODEI	PF 0.86		D	es B	code G	амв. 40°С	$\rightarrow 6212-Z-C3(13g)$ MOBIL POLYREX EM
	SF 1.25	SFA 17	73		ALT	1000 m.a.s.l.	1027 Lbs
	100HP 75k	W 50Hz 38	OV 138	3A 1480RF	M SF1.00	EFF 95.0%	(IE3)