# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

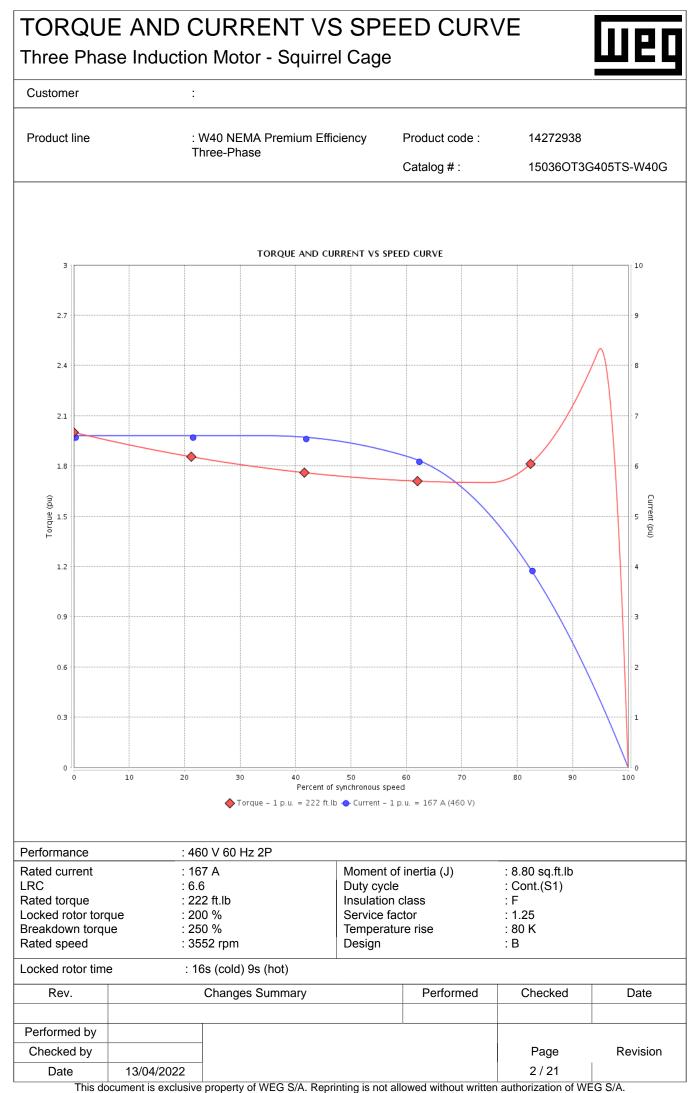
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#### Customer

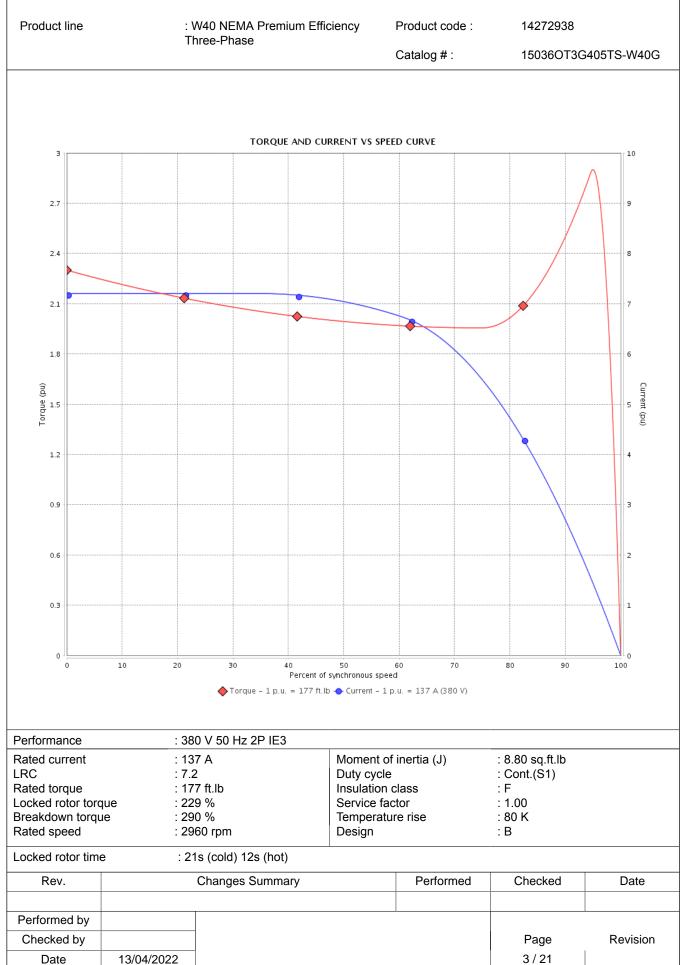
Product line		: W40 NEMA Premiur	n Efficie	ncy Pro	oduct code :	14272	938
		Three-Phase		Са	talog # :	15036	DT3G405TS-W40G - ODP (CW and CCW) t On Line - 3 - 00 2 - 50 - 415 - 133 - 1117 - 8.4x(Code K) - 48.9 - 2965 - 1.17 - 177 - 270 - 360 - 1.00 - 80 K - 18s (cold) 10s (hot) - 91.8 - 92.7 - 93.9 - 94.7 - 0.43 - 0.65 - 0.77 - 0.83 - 0.83
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 404/5TS : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP23 : B		Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup> Moment of inertia (J)		: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 931 lb : 8.80 sq.ft.lb	
Output [HP]		150	1	100	10	0	100
Poles		2		2	2		
Frequency [Hz]		60		50	50		
Rated voltage [V]		460		380	40		
Rated current [A]		167		137	13	-	
. R. Amperes [A]		1102		986	10		
.RC [A]		6.6x(Code G)	7.2	2x(Code H)	7.9x(C		
No load current [A	1	40.0		43.8	43		
Rated speed [RPN		3552		2960	290		
Slip [%]		1.33		1.33	1.1		
Rated torque [ft.lb]	1	222		177	17		
_ocked rotor torqu		200		229	25		
Breakdown torque		250		290	33		
Service factor	L'*J	1.25		1.00	1.0		
Temperature rise		80 K		80 K	80		
Locked rotor time		16s (cold) 9s (hot)	215 (0	cold) 12s (hot			
Noise level <sup>2</sup>		84.0 dB(A)	(0				
	25%	93.5		93.3	92	.6	91.8
	50%	93.6		93.7	93		360 1.00 80 K 18s (cold) 10s (hot) 91.8 92.7 93.9 94.7 0.43 0.65 0.77 0.83
Efficiency (%)	75%	94.1		94.4	94		
	100%	94.1		94.7	94		
	25%	0.58		0.51	0.4		270 360 1.00 80 K 9 18s (cold) 10s (hot) 91.8 92.7 93.9 94.7 0.43 0.65 0.77 0.83 46 lb
	50%	0.79		0.76	0.7		
Power Factor	75%	0.86		0.85	0.7		
	100%	0.88		0.88	0.0		
Bearing type Sealing		<u>Drive end</u> <u>Non dr</u> : 6314 C3 621 : Without W	r <u>ive end</u> 2 Z C3 ïthout	Foundation Max. tractio Max. compr	loads n	: 1446 : 2377	lb
Lubrication interv Lubricant amoun Lubricant type		: 14418 h 20	ing Seal 000 h 13 g =м				
,			_1VI				36OT3G405TS-W40G         01 - ODP         th (CW and CCW)         ect On Line         1 lb         00 sq.ft.lb         100         2         50         415         133         1117         8.4x(Code K)         48.9         2965         1.17         177         270         360         1.00         80 K         18s (cold) 10s (hot         91.8         92.7         93.9         94.7         0.43         0.65         0.77         0.83
Notes							
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, where the previous one, where shaft end. olerance of +3dB(A). of to changes after	hich				
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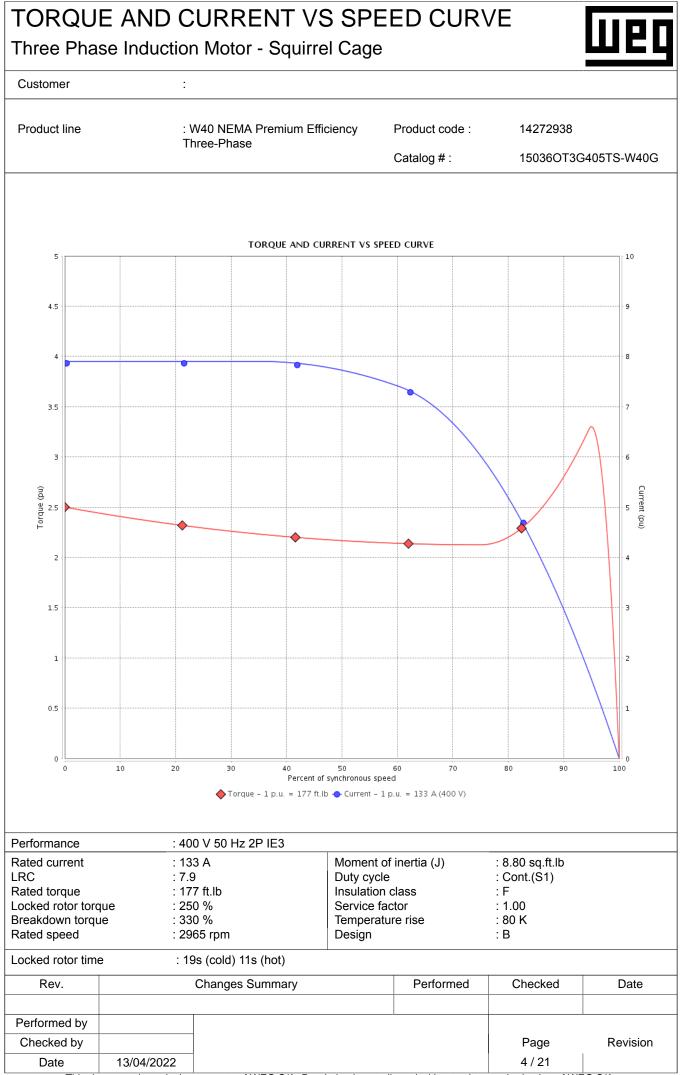


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#### TORQUE AND CURRENT VS SPEED CURVE Three Phase Induction Motor - Squirrel Cage Customer : Product line : W40 NEMA Premium Efficiency Product code : 14272938 Three-Phase Catalog # : 15036OT3G405TS-W40G TORQUE AND CURRENT VS SPEED CURVE 10 2.7 9 2.4 2.1



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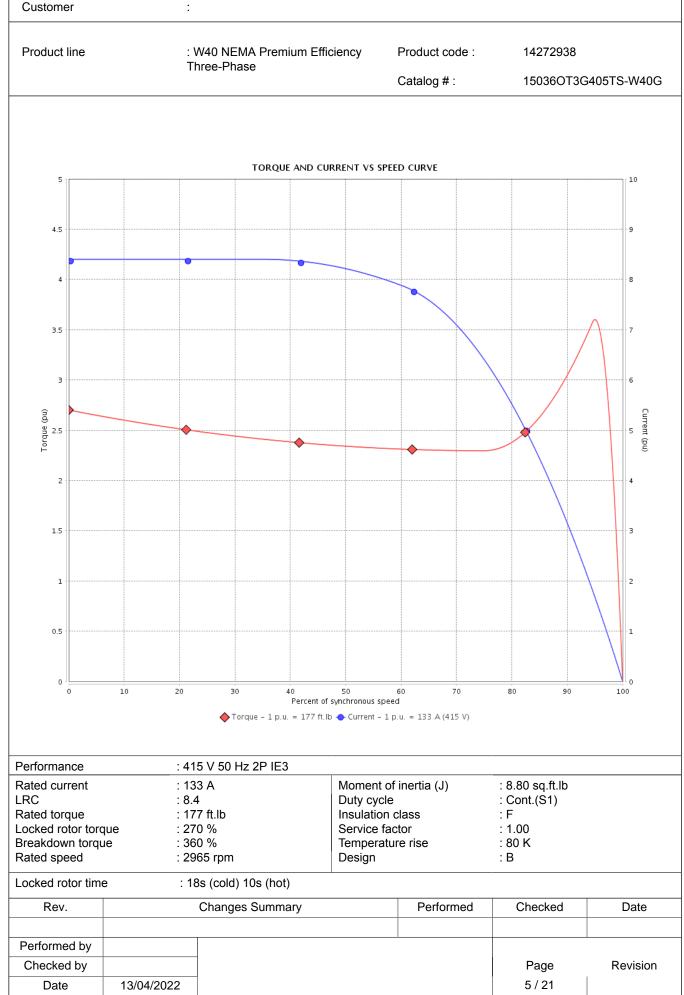


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#### TORQUE AND CURRENT VS SPEED CURVE

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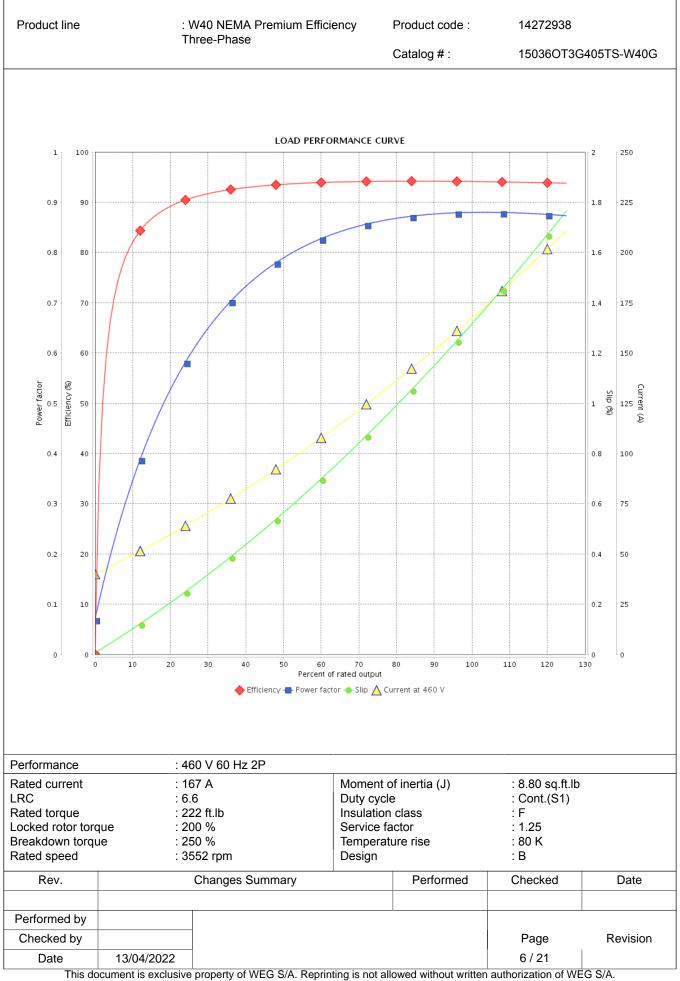
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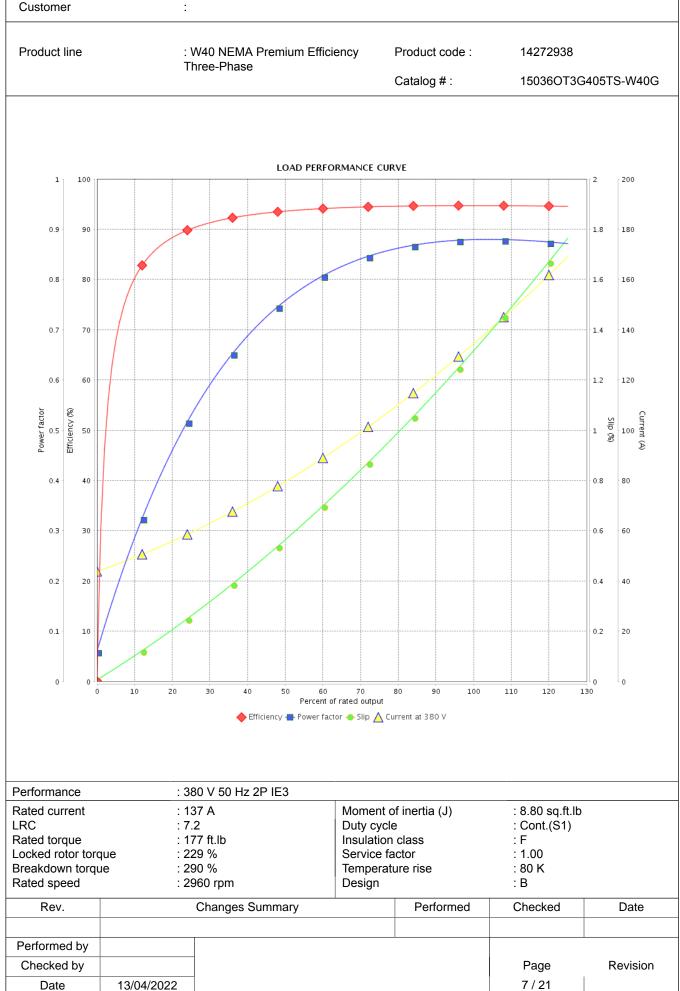


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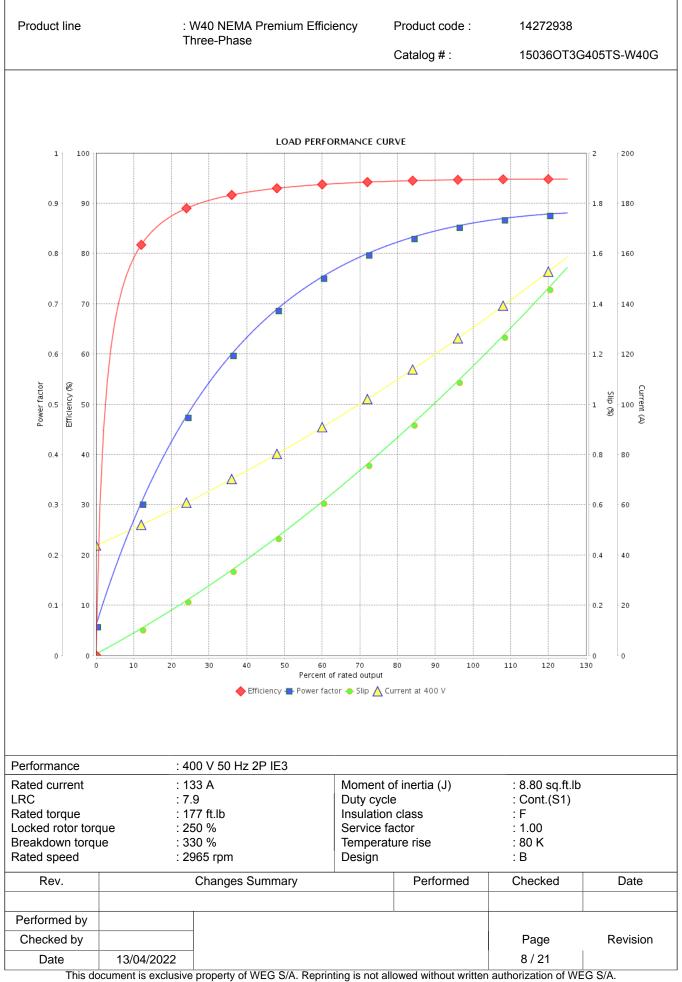
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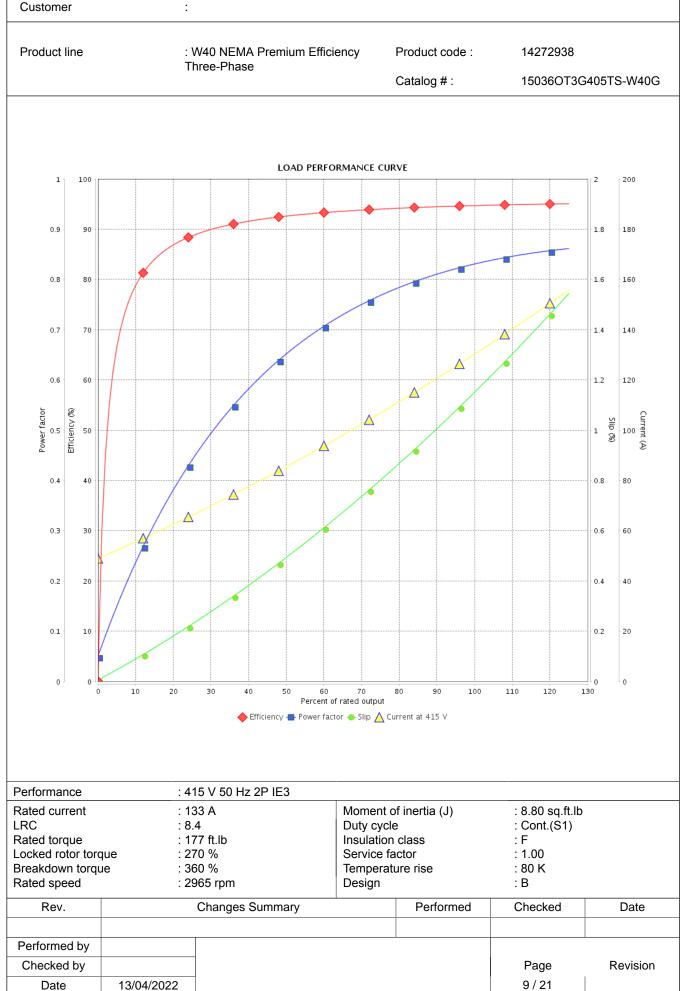


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## THERMAL LIMIT CURVE

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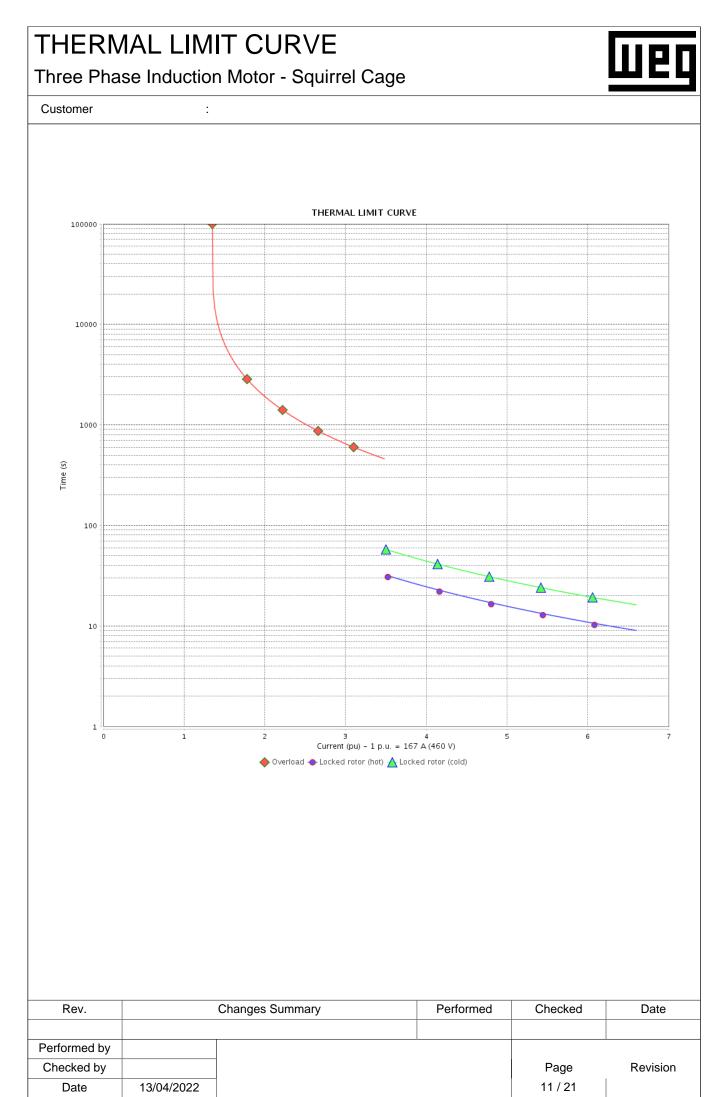


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Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14272938	14272938	
				Catalog # :	15036OT30	6405TS-W40G	
					150360130	4051S-W40G	
Performance		: 460 V 60 Hz 2P					
LRC: 6.6Rated torque: 222 ft.lbLocked rotor torque: 200 %Breakdown torque: 250 %		Moment o Duty cycle Insulation Service fa Temperate Design	class ctor	: 8.80 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B			
Heating constant	t						
Cooling constant							
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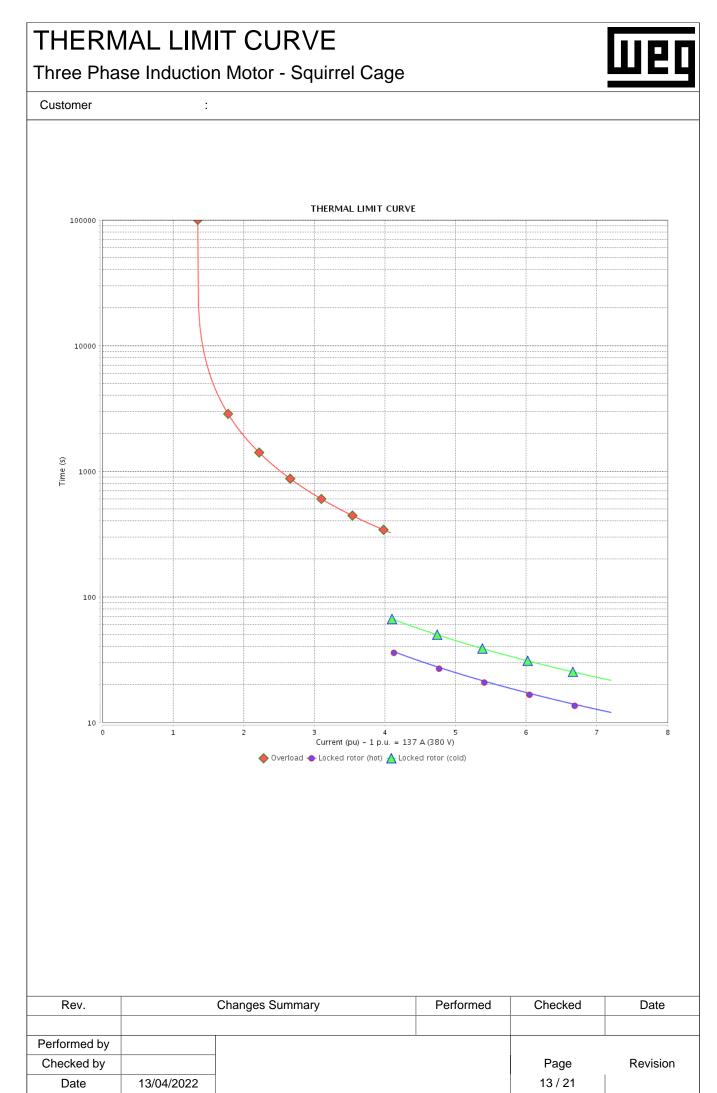
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14272938	
				Catalog # :	15036OT3G	405TS-W40G
Performance	: 38	30 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 7. : 17 jue : 22 ie : 29	37 A 2 77 ft.lb 29 % 90 % 960 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 8.80 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant					,	
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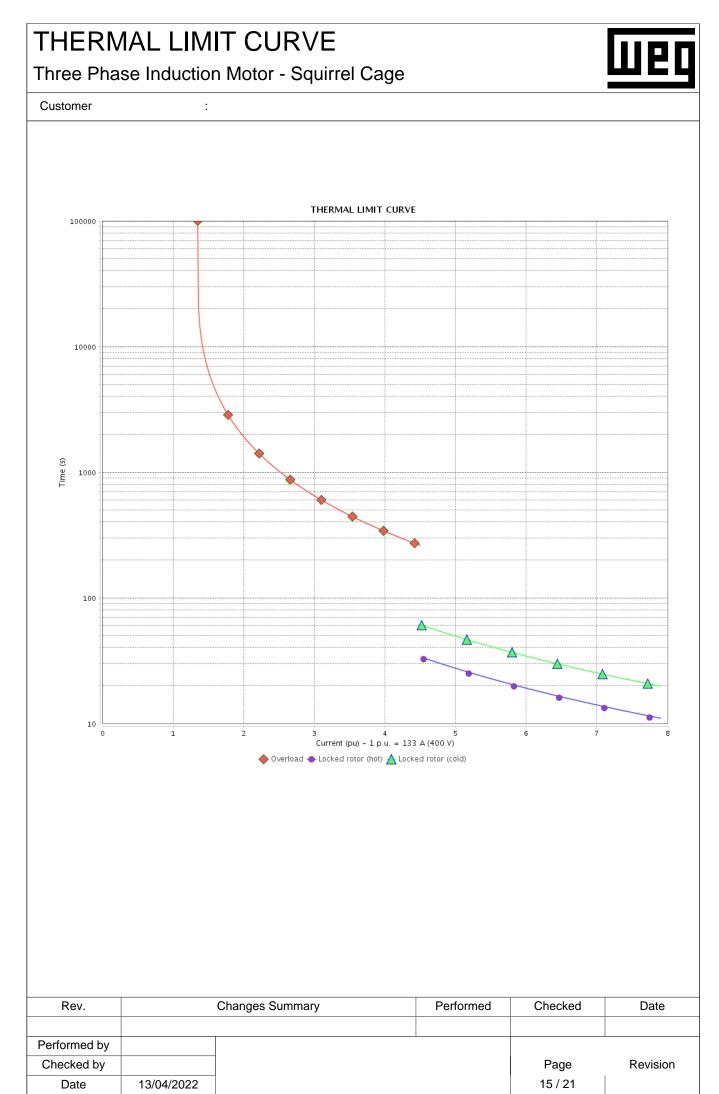
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code : Catalog # :	14272938 15036OT3G	405TS-W40G
Performance Rated current		00 V 50 Hz 2P IE3 33 A	Moment o	f inertia (J)	: 8.80 sq.ft.lb	
LRC Rated torque	: 7		Duty cycle	;	: Cont.(S1) : F	
Locked rotor tore	que : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torqu Rated speed		30 % 965 rpm	Temperature rise Design		: 80 K : B	
Heating constant			-			
Cooling constant					· · · · · · · · · · · · · · · · · · ·	
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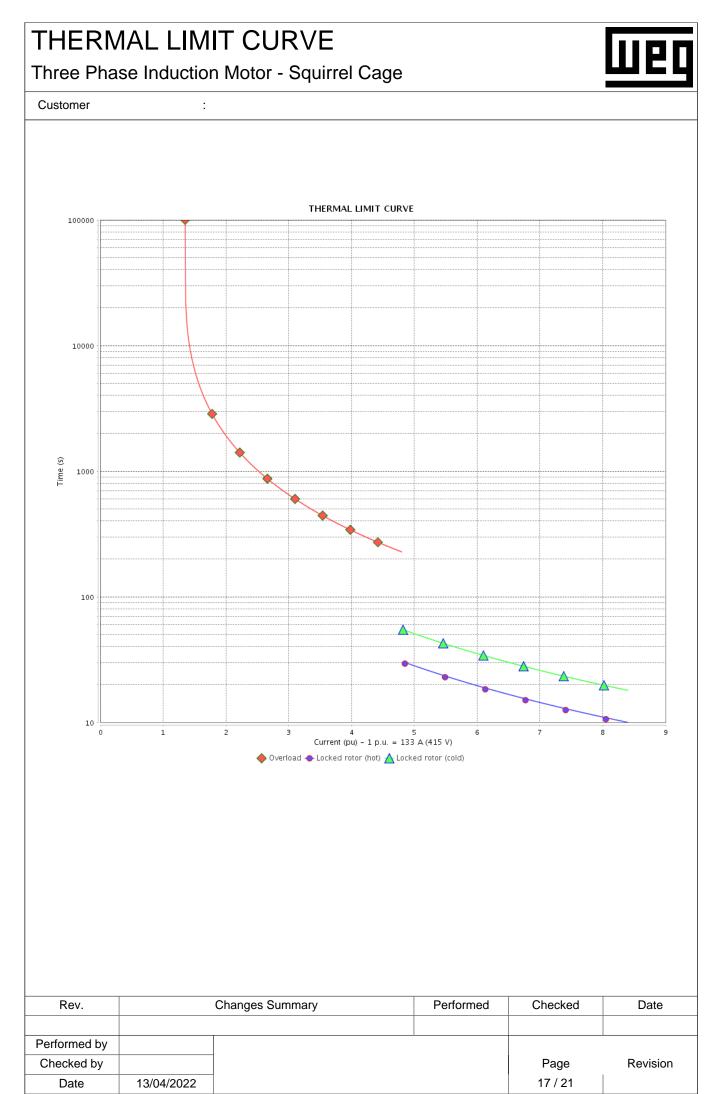
Product line : W40 NEMA Premium Efficie Three-Phase		ency Product code : Catalog # :		14272938 150360T3G	14272938 15036OT3G405TS-W40G		
Performance Rated current		415 V 50 Hz 2P IE3 133 A	Moment o	f inertia (J)	: 8.80 sq.ft.lb		
LRC		: 8.4 Duty c		<b>;</b>	: Cont.(S1)		
		177 ft.lb 270 %	Insulation Service fa		: F : 1.00		
Breakdown torque : 360 %		360 % 2965 rpm	Temperature rise : 8		: 80 K : B		
Rated speed			Design		. ש		
Heating constant Cooling constant							
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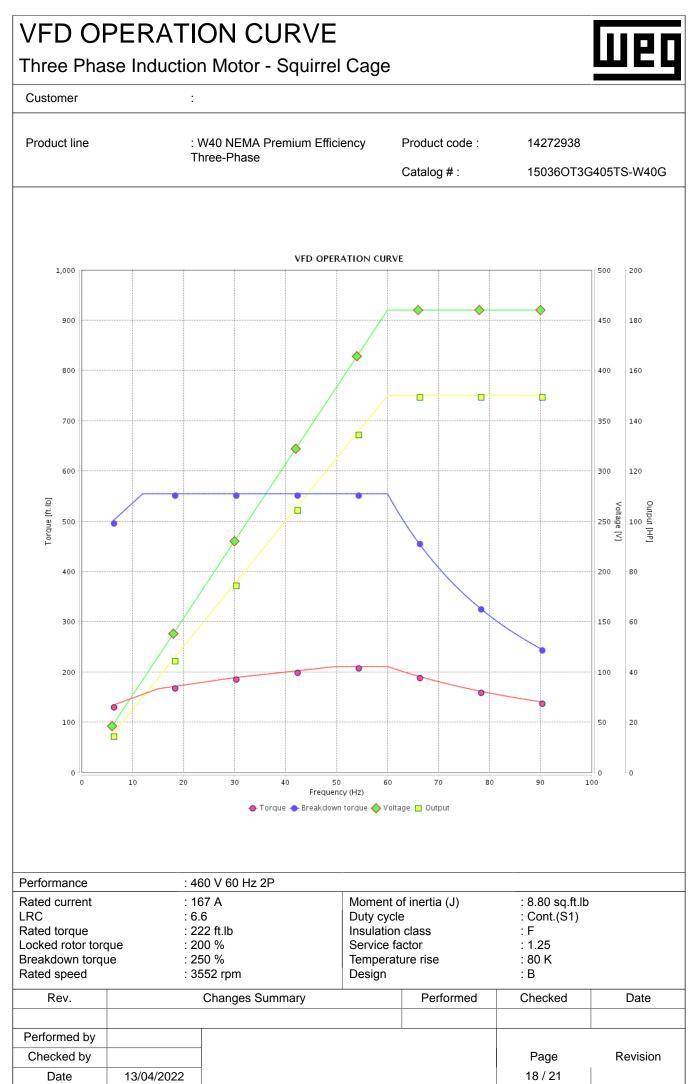
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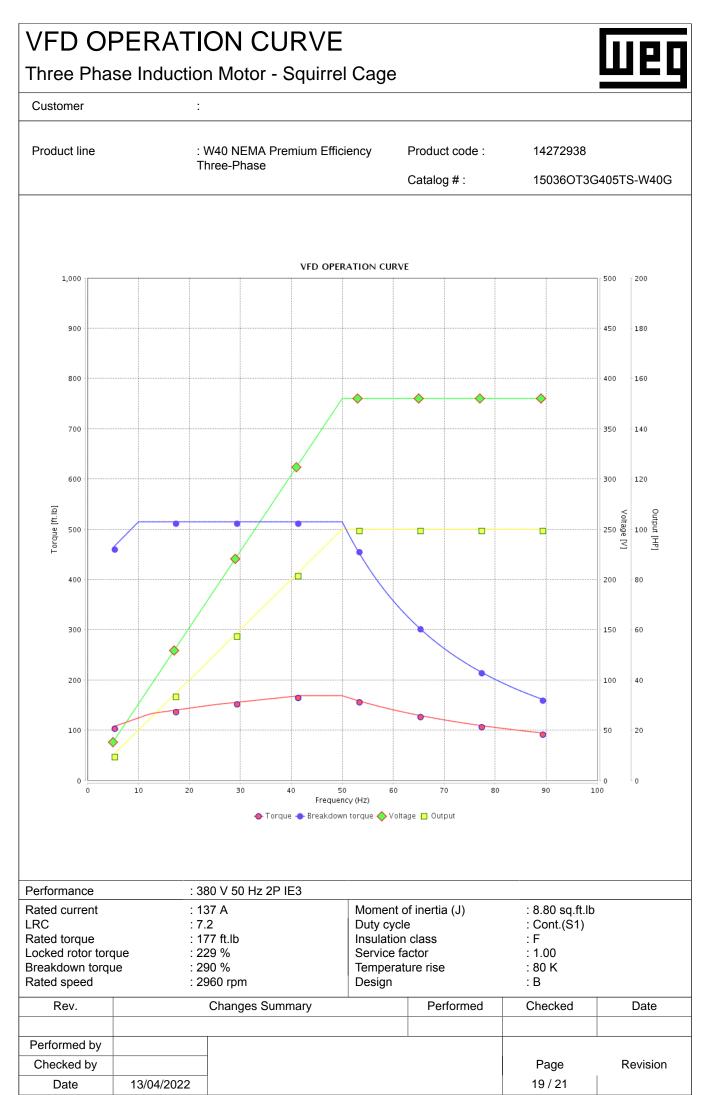
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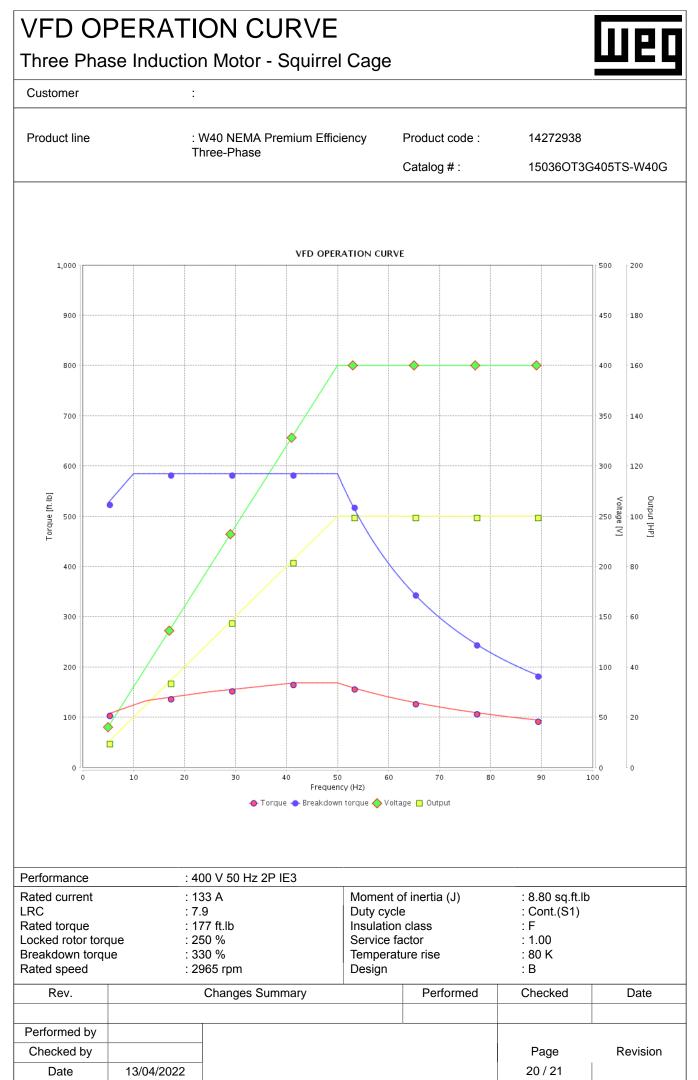
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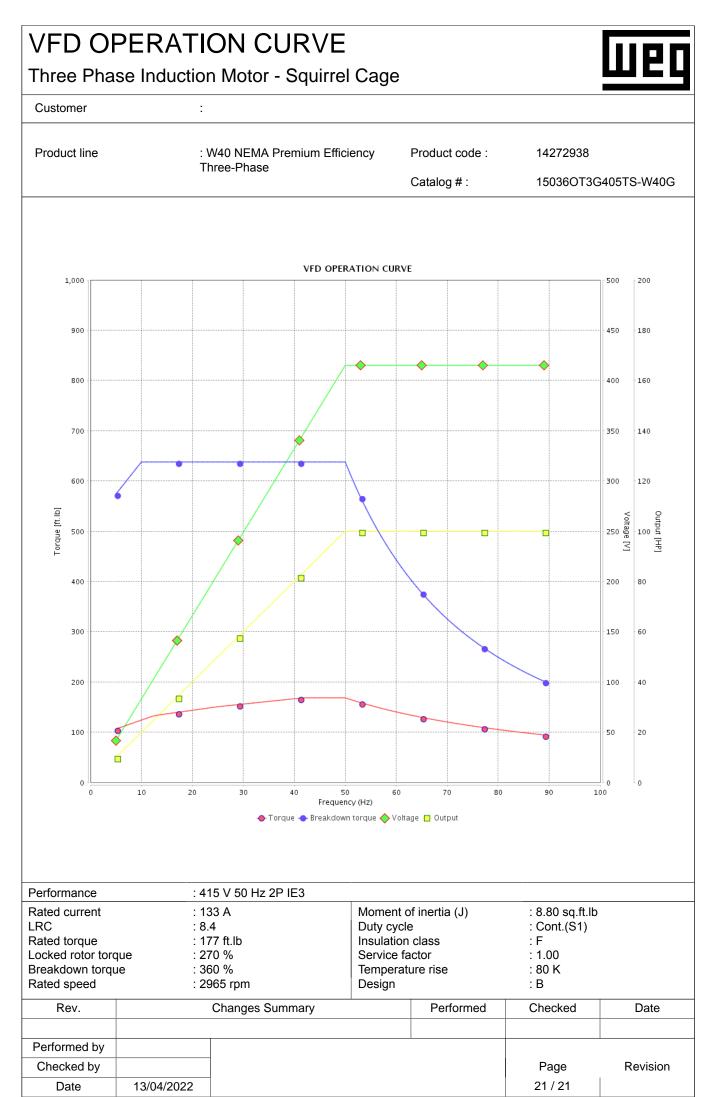
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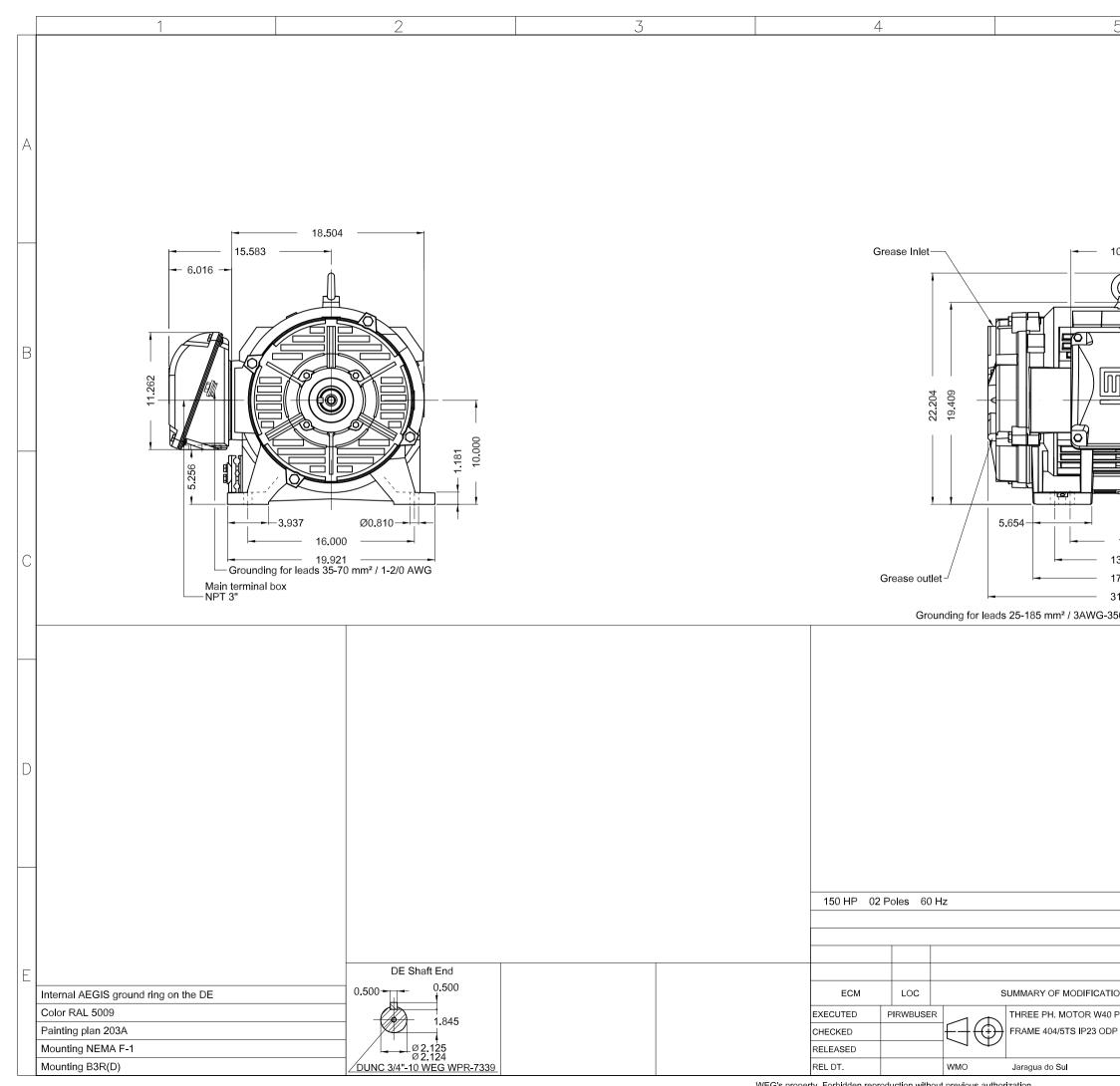
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