# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

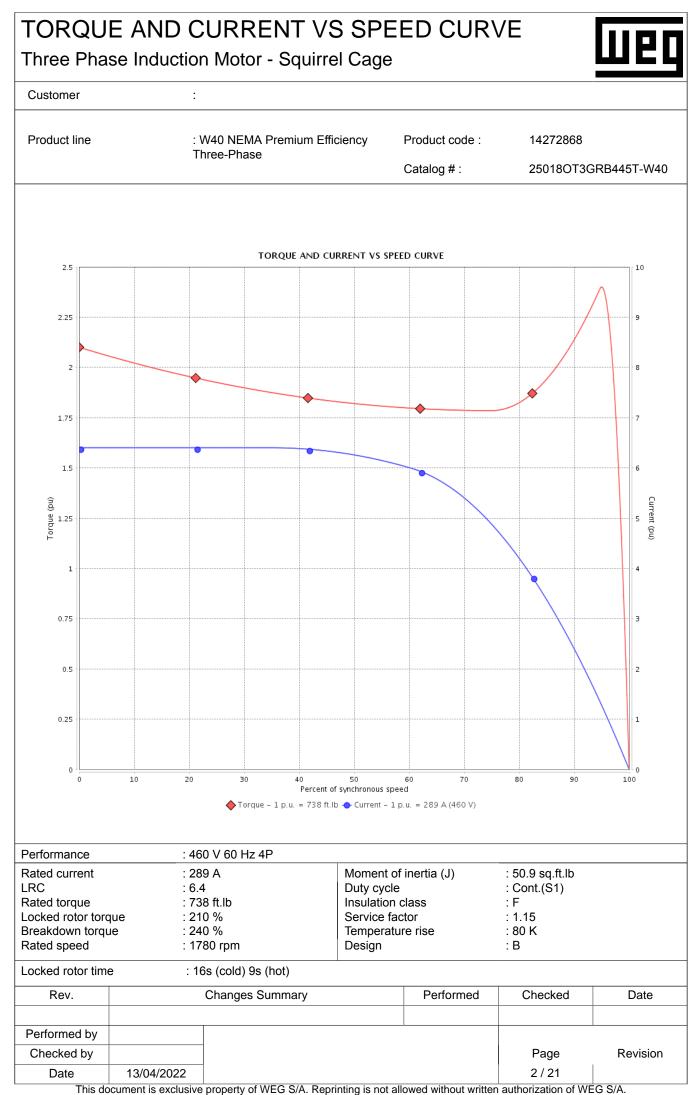
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#### Customer

Product line		: W40 NEMA Premiur Three-Phase	MA Premium Efficiency Product code :		roduct code :	14272868		
		Three-Phase		Ca	Catalog # :		25018OT3GRB445T-W40	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 444/5T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP23 : B	: F Mount   : Cont.(S1) Rotation   : -20°C to +40°C Startin   : 1000 m.a.s.l. Approx   : IP23 Mome		nethod	: F-1 : Both (CV : Direct Or : 1542 lb	: Both (CW and CCW) : Direct On Line	
Output [HP]		250	1	200	20	0	200	
Poles		250		4	20	-	200	
Frequency [Hz]		60	50		50		50	
Rated voltage [V]		460		380	40		415	
Rated current [A]		289		283	27		269	
. R. Amperes [A]		1850		1953	198		1991	
_RC [A]		6.4x(Code G)	6.9	9x(Code H)	7.3x(Co		7.4x(Code J)	
No load current [A	]	106		105	11		125	
Rated speed [RPN		1780		1480	148		1485	
Slip [%]	-	1.11		1.33	1.3		1.00	
Rated torque [ft.lb]	]	738		710	71		707	
ocked rotor torqu		210		200	22	9	250	
Breakdown torque		240		220	24	0	270	
Service factor		1.15		1.00	1.0	0	1.00	
Temperature rise		80 K		80 K	80	K	80 K	
_ocked rotor time		16s (cold) 9s (hot)	14s (	(cold) 8s (ho	t) 14s (cold)	14s (cold) 8s (hot) 14s (		
Noise level <sup>2</sup>		78.0 dB(A)						
	25%	95.3	95.2		94.		94.4	
Efficiency (%)	50%	95.4	95.5		95.	3	94.9	
	75%	95.8		95.6	95.		95.4	
	100%	95.8	95.8		95.		95.8	
	25%	0.46	0.46		0.4		0.38	
Power Factor	50%	0.72		0.72	0.6		0.64	
	75%	0.80	0.81		0.7		0.75	
	100%		rive end	0.84 Foundatior	0.8 n loads	3	0.81	
Bearing type Sealing Lubrication interval Lubricant amount		: Without W Bearing Seal Bear : 18825 h 20 : 45 g 2	Without Without Bearing Seal Bearing Seal 18825 h 20000 h 45 g 27 g		Max. traction : 4320 lb Max. compression : 5861 lb			
Lubricant type		: Mobil Polyrex E	EM					
Notes								
must be eliminate (1) Looking the m	ed. otor from the m and with to veight subjec ocess.	olerance of +3dB(A).	hich		average values l ply, subject to the		with sinusoidal oulated in NEMA	
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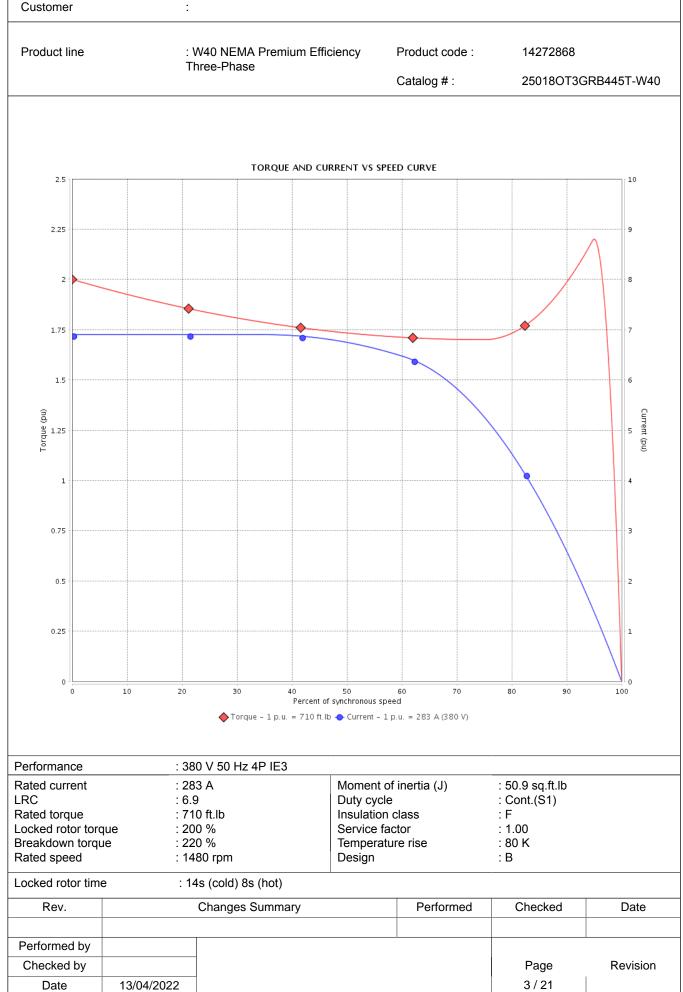
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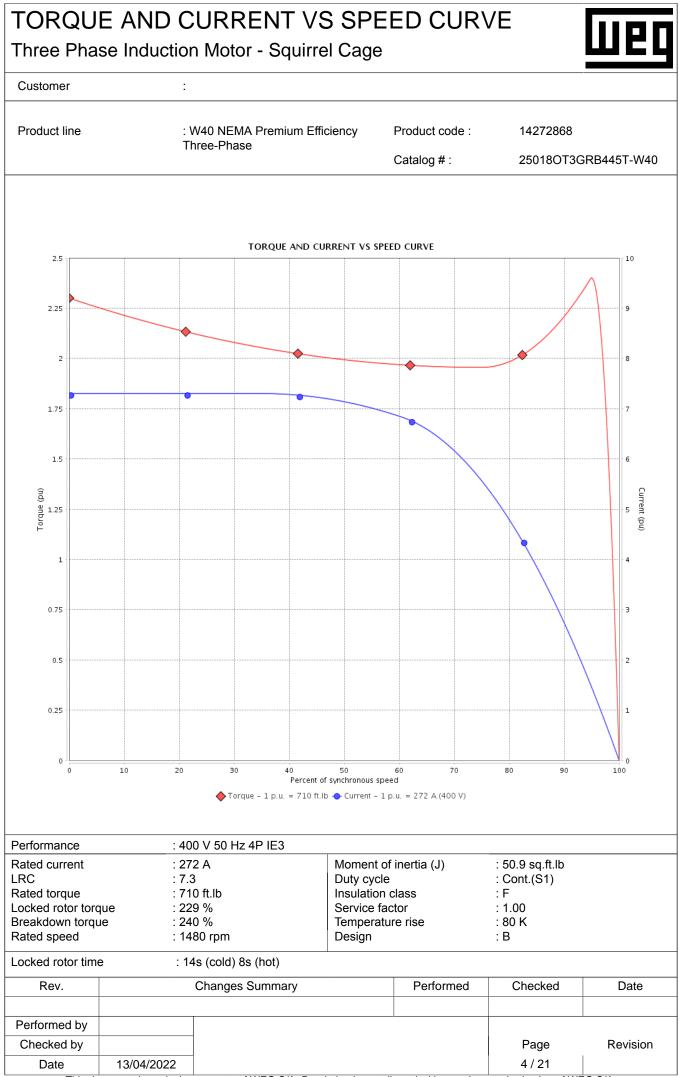
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

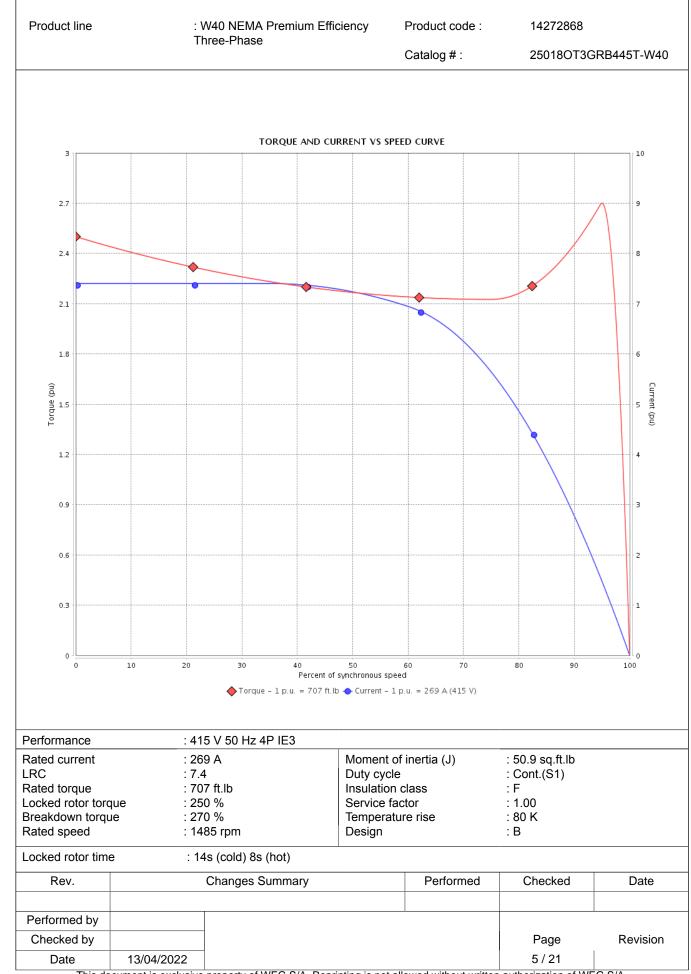
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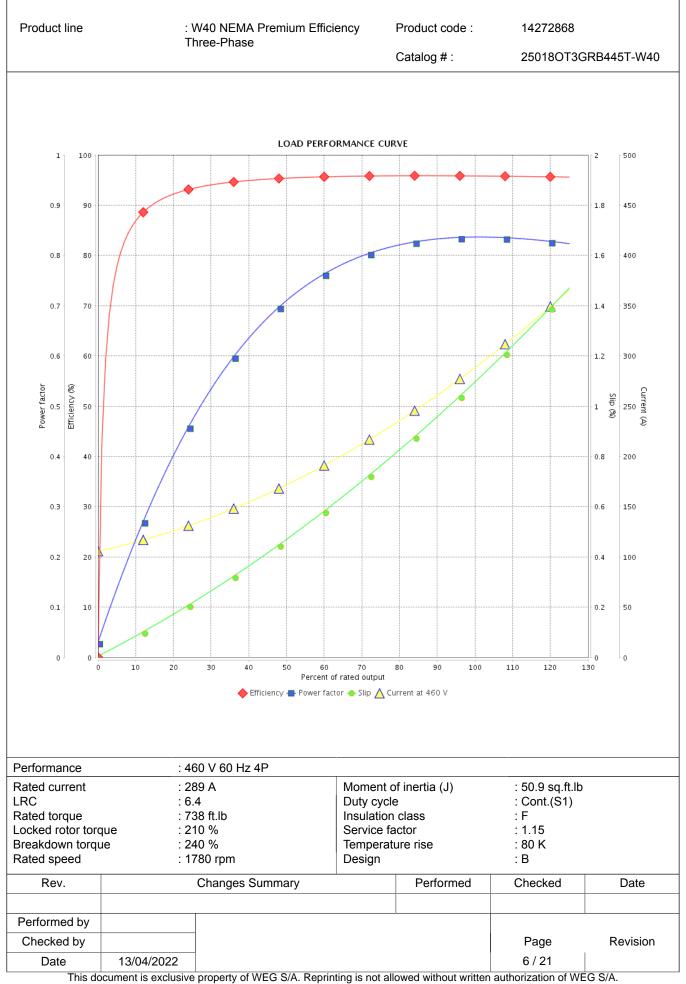
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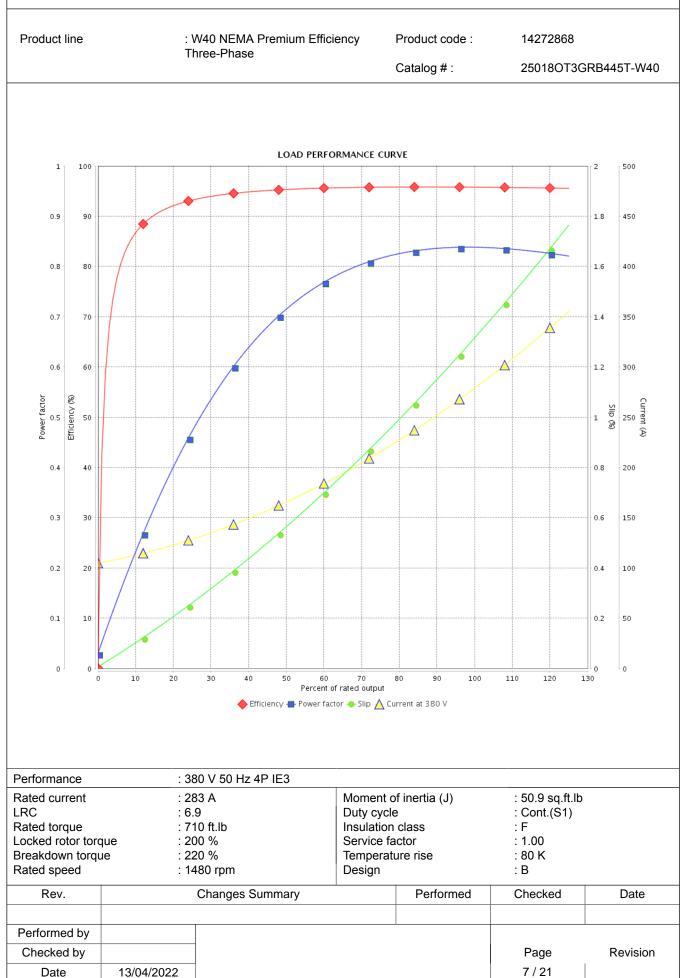
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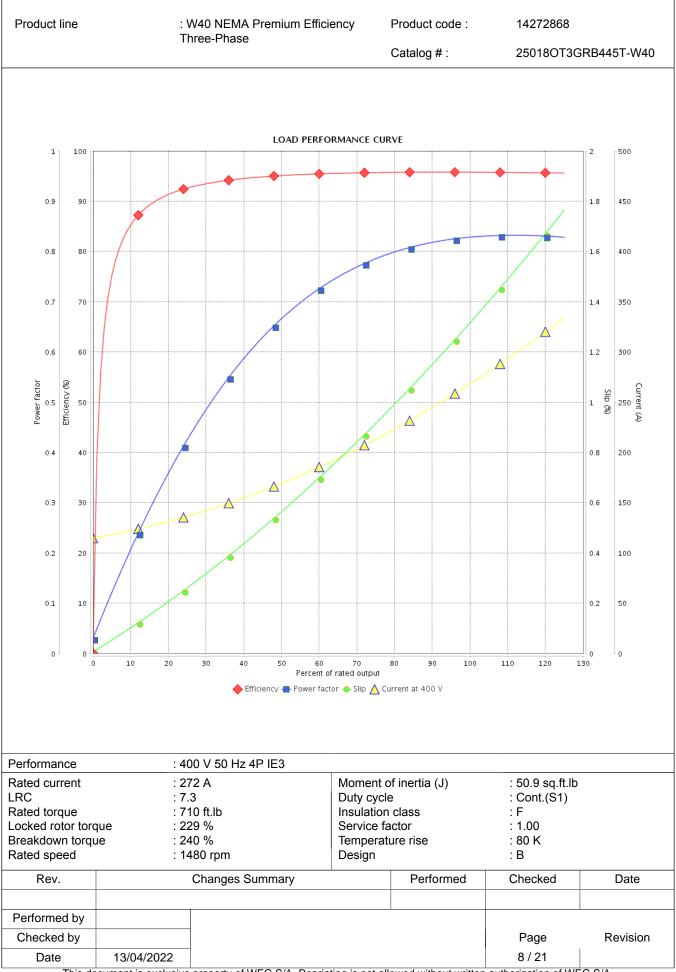
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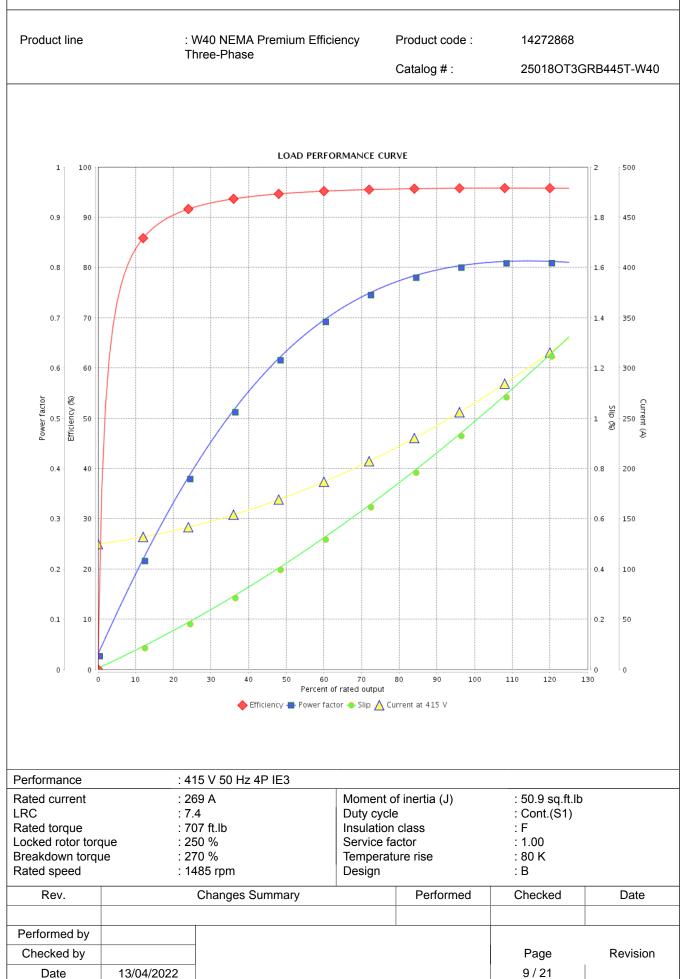


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# THERMAL LIMIT CURVE

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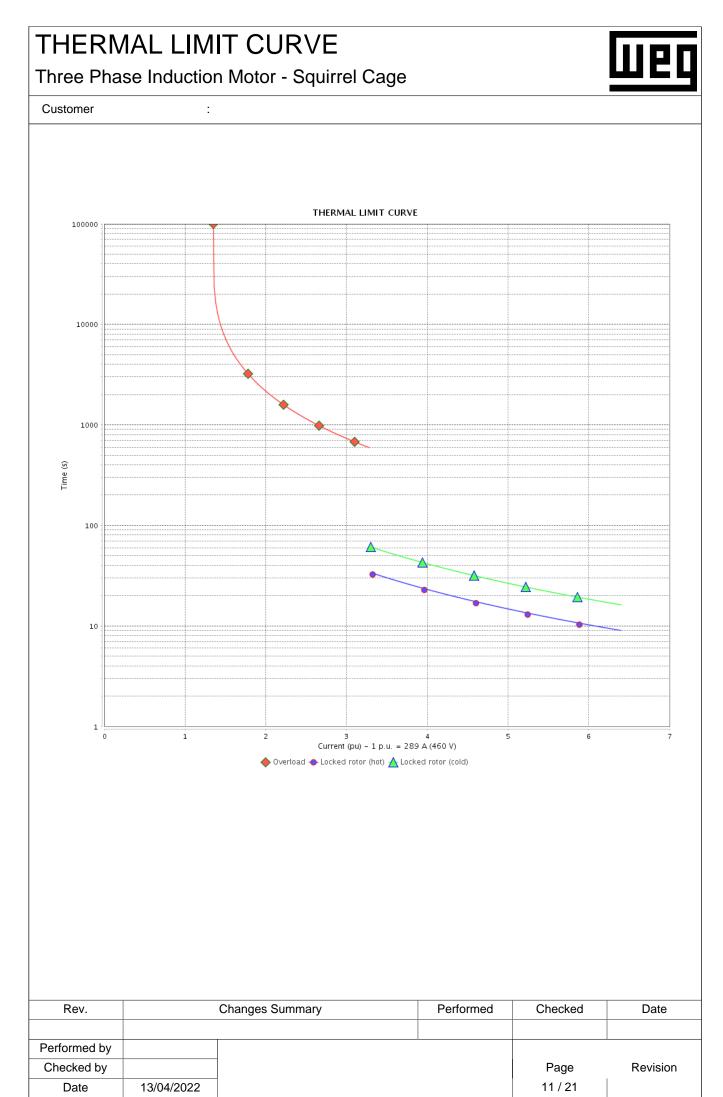
Product line		: W40 NEMA Premium Efficiency		Product code :	14272868	14272868		
		Three-Phase		Catalog # :	25018OT3G	RB445T-W40		
Performance		: 460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque		: 289 A : 6.4 : 738 ft.lb : 210 % : 240 % : 1780 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 50.9 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
Heating constant Cooling constant								
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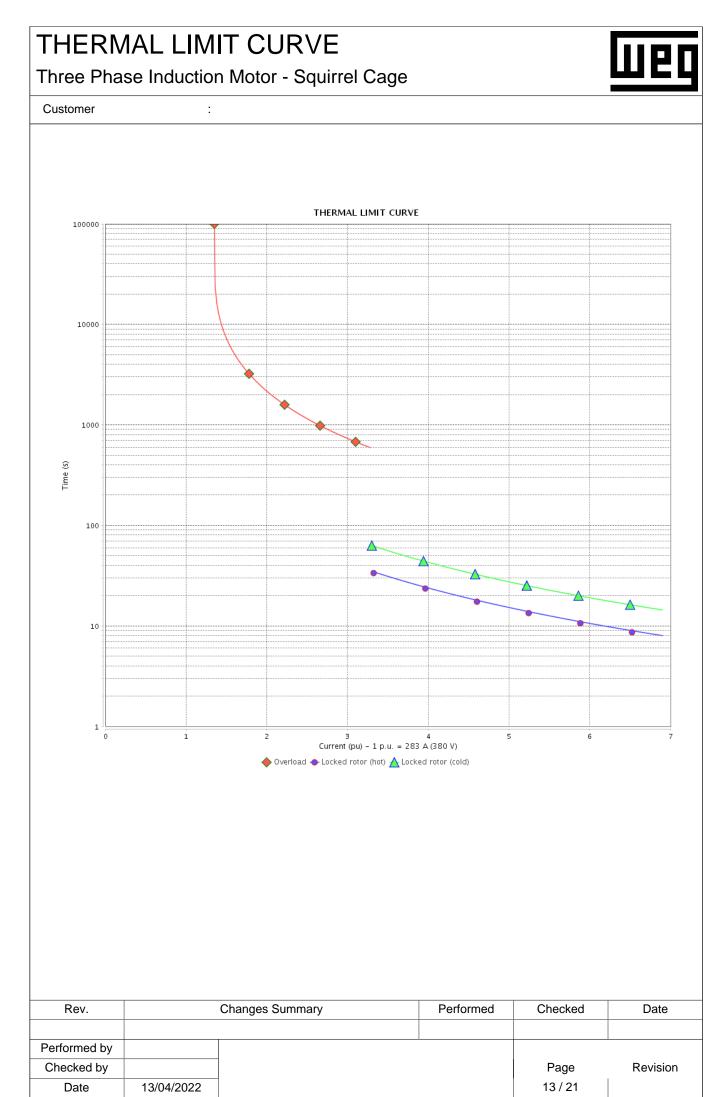
Product line : W40 NEMA Premium Efficie Three-Phase		ency Product code :		14272868				
				Catalog # :	25018OT3G	RB445T-W40		
Performance	: 3	80 V 50 Hz 4P IE3						
Rated current		83 A	Moment o	f inertia (J)	: 50.9 sq.ft.lb			
LRC Rated torque	:6 ·7	.9 10 ft.lb	Duty cycle Insulation		: Cont.(S1) : F			
Locked rotor torc		00 %	Service fa		: 1.00			
Breakdown torqu	.e : 2	20 %	Temperati	ure rise	: 80 K			
Rated speed	: 1	480 rpm	Design		: B			
Heating constant	t							
Cooling constant	t							
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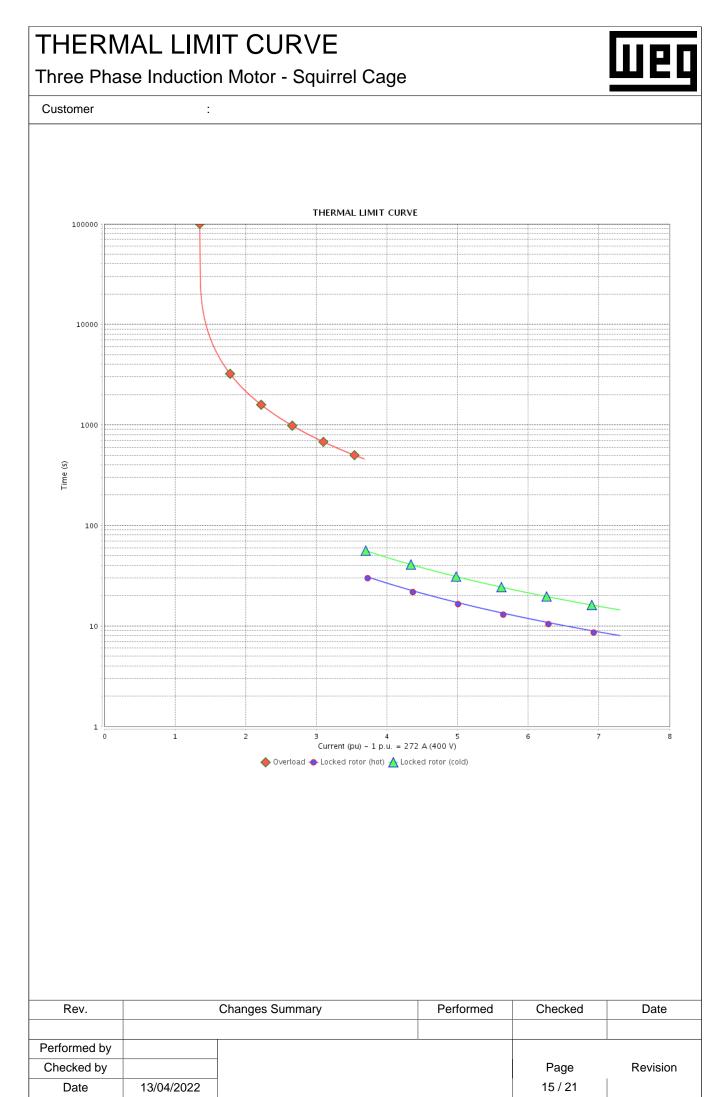
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Product line : W40 NEMA Pre Three-Phase		W40 NEMA Premium Efficie Three-Phase		Product code :	14272868			
				Catalog # :	25018OT3G	25018OT3GRB445T-W40		
Performance	: 4	400 V 50 Hz 4P IE3			·			
Rated current		272 A		f inertia (J)	: 50.9 sq.ft.lb			
LRC Rated torque		7.3 710 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F			
Locked rotor torq	ue :2	229 %	Service fa	ctor	: 1.00			
Breakdown torqu Rated speed		: 240 % Temper : 1480 rpm Design		ure rise	: 80 K : B			
Heating constant			-					
Cooling constant								
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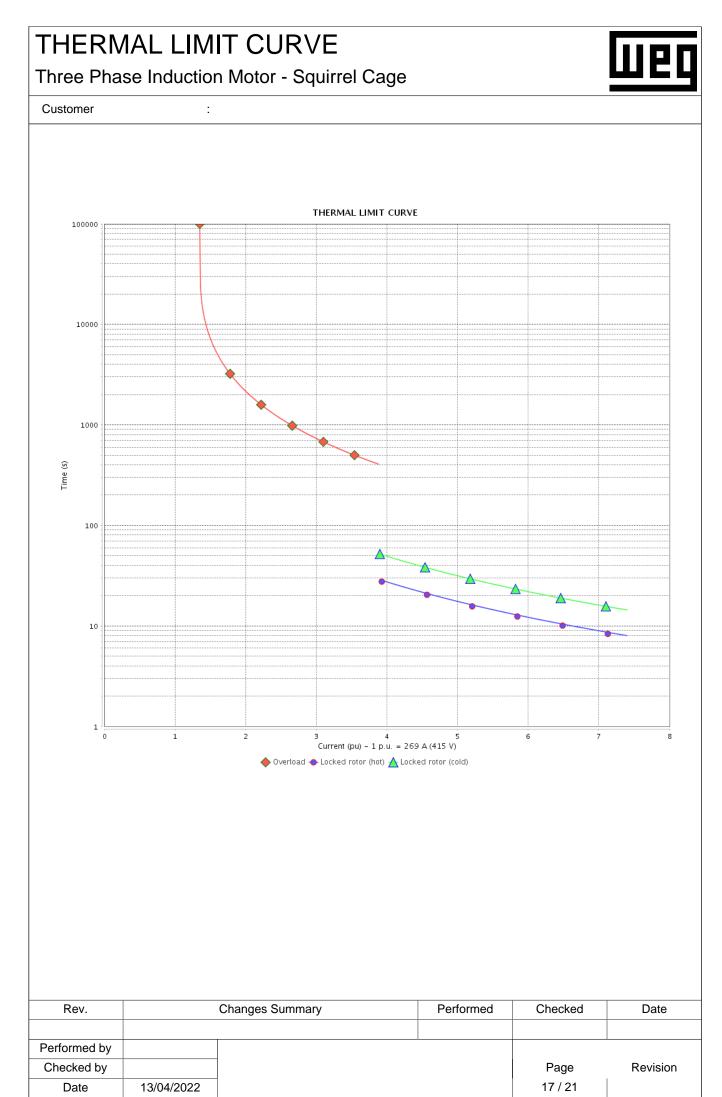
Product line		: W40 NEMA Premium Efficiency Three-Phase		Product code :	14272868	14272868		
				Catalog # :	25018OT3G	25018OT3GRB445T-W40		
Performance		415 V 50 Hz 4P IE3						
Rated current		269 A	Moment o	f inertia (J)	: 50.9 sq.ft.lb			
LRC	:	7.4	Duty cycle	;	: Cont.(S1)			
Rated torque Locked rotor toro		707 ft.lb 250 %	Insulation Service fa		: F : 1.00			
Breakdown torqu				ure rise	: 80 K			
Rated speed	:	1485 rpm	Design		: B			
Heating constan	t							
Cooling constant	t							
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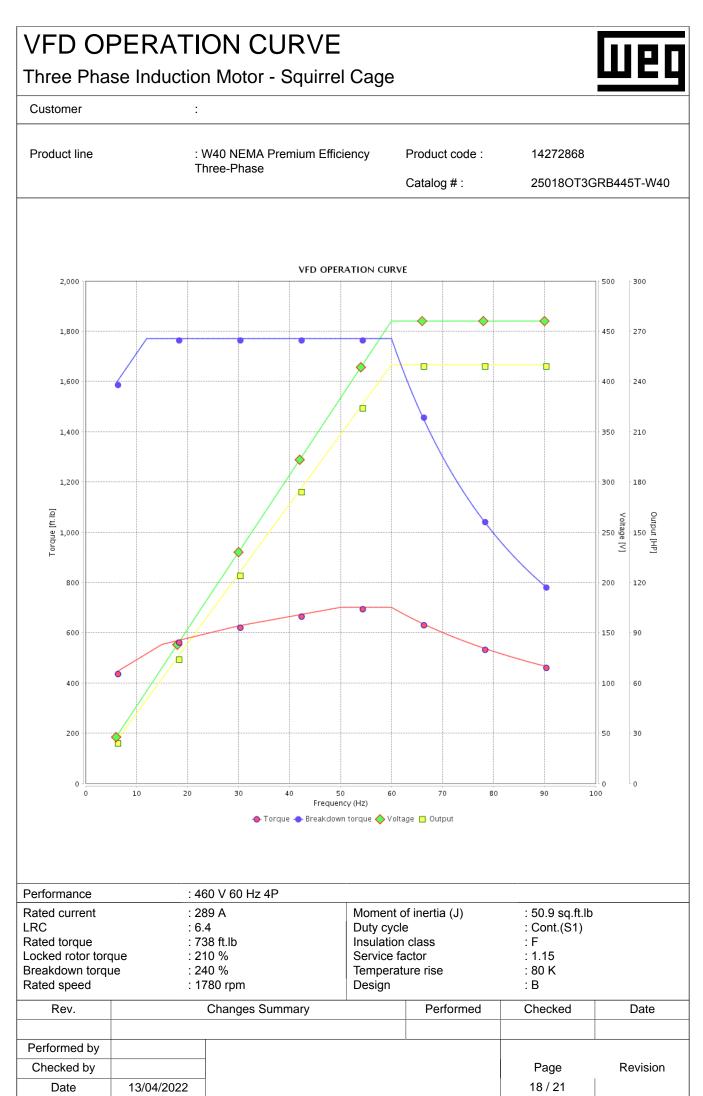
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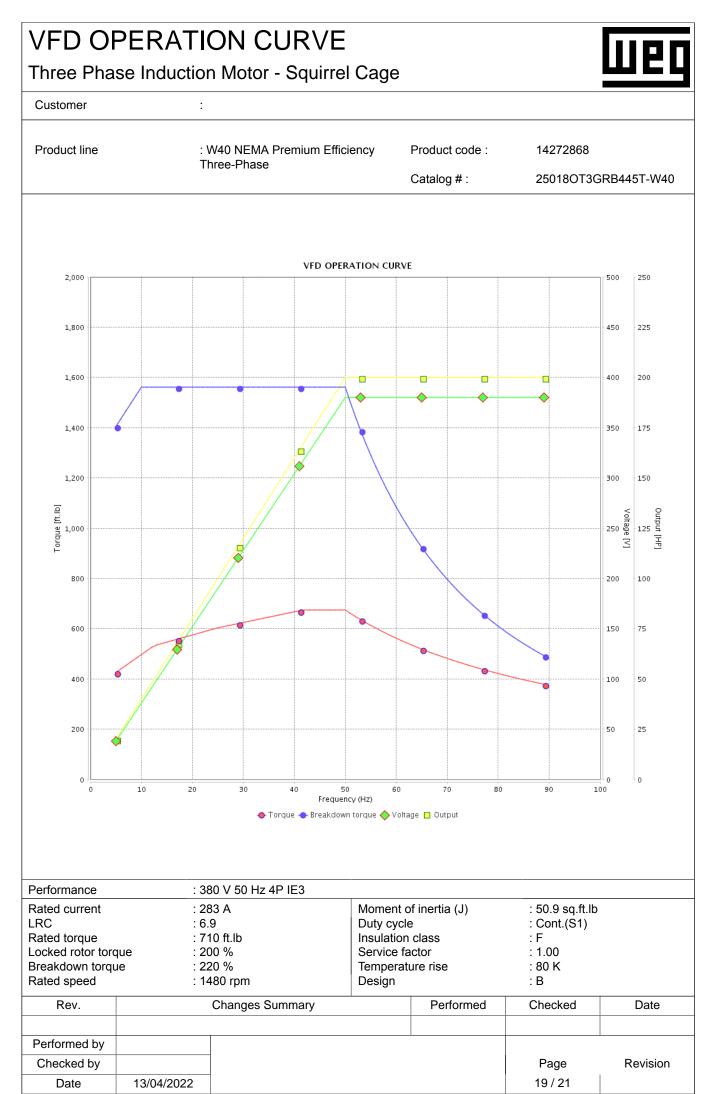
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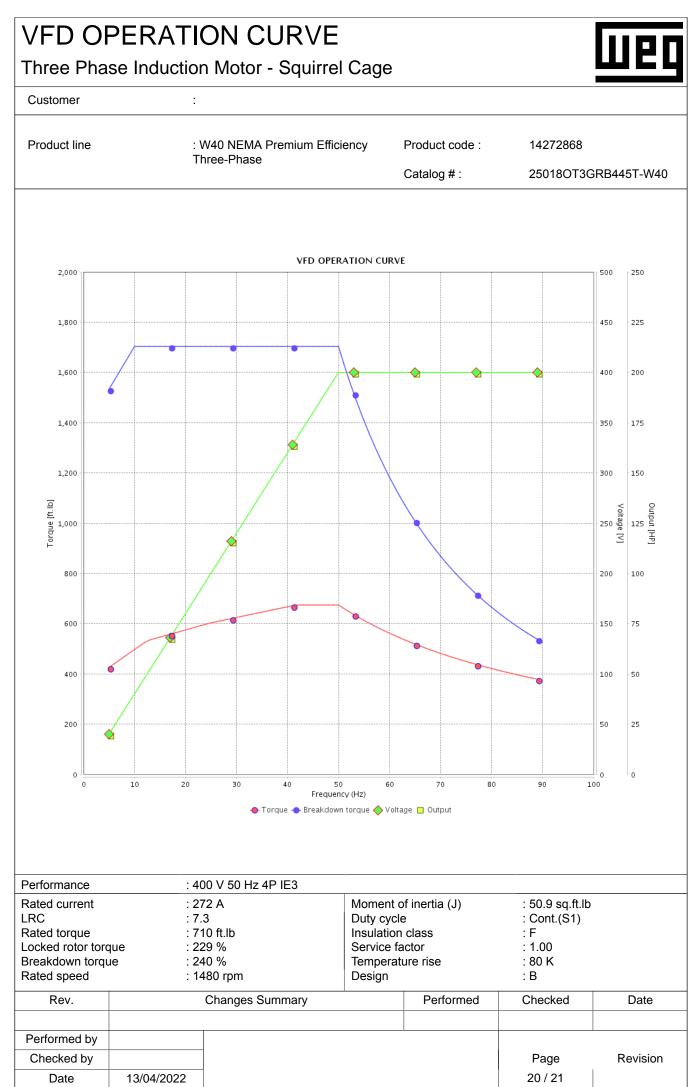
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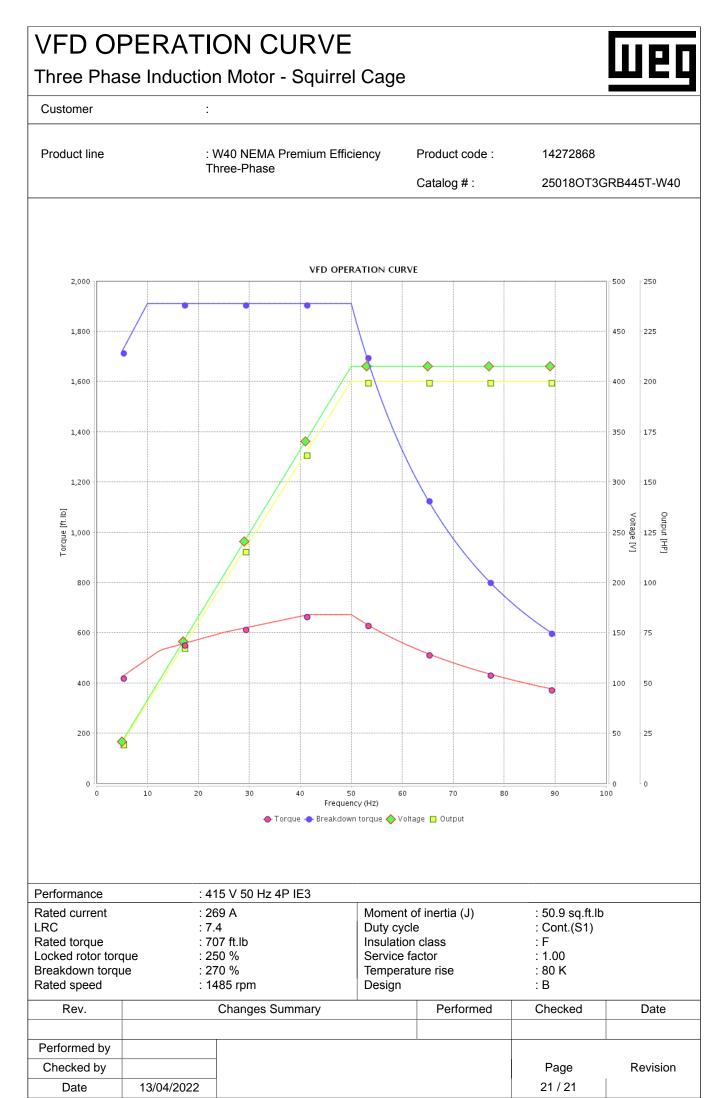


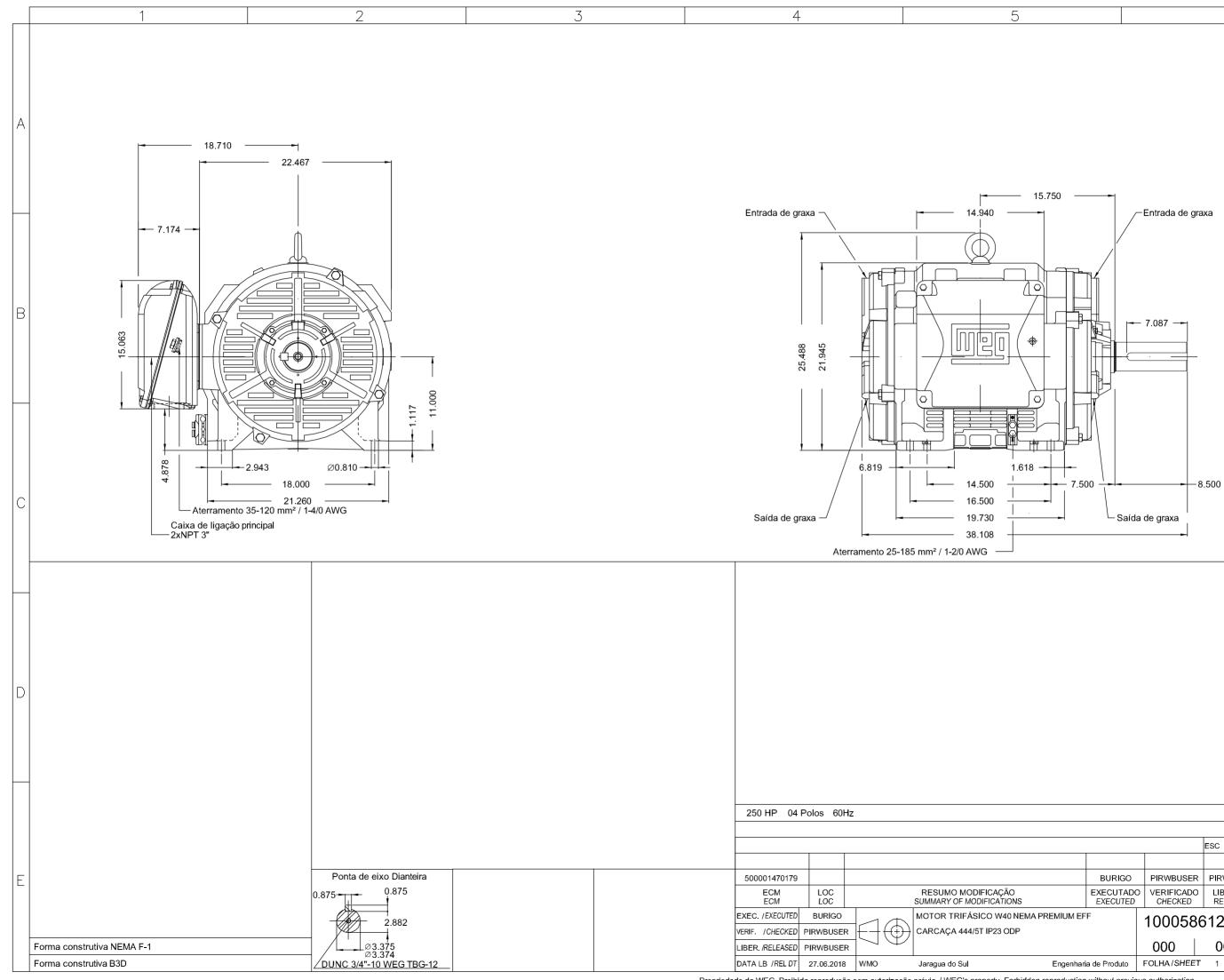
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