# DATA SHEET

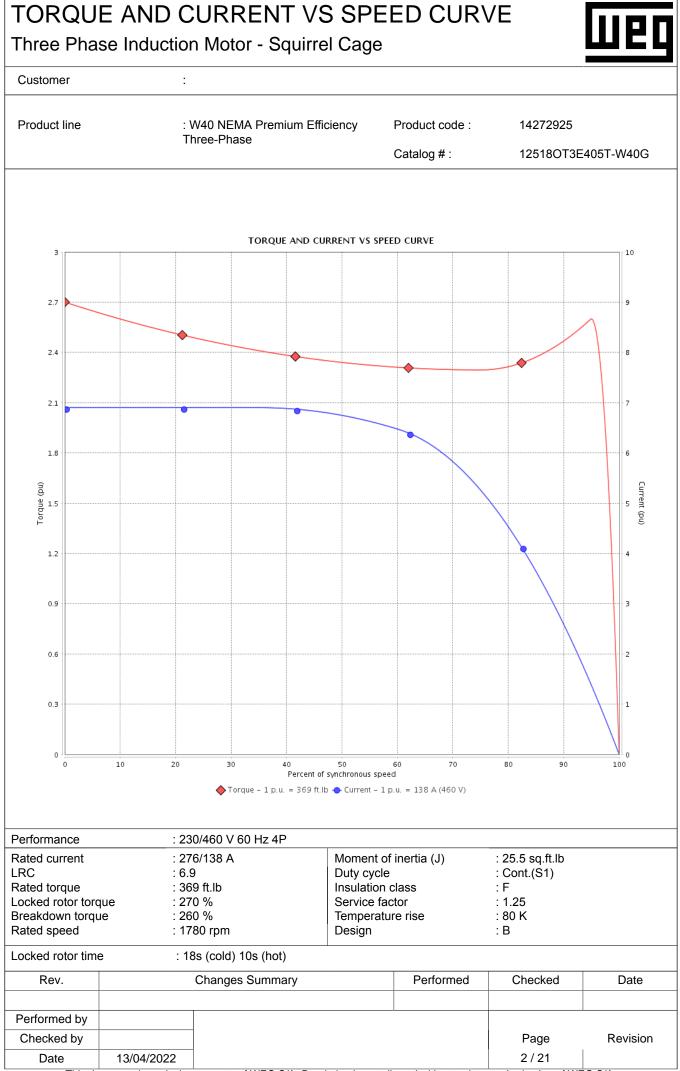
Three Phase Induction Motor - Squirrel Cage

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#### Customer

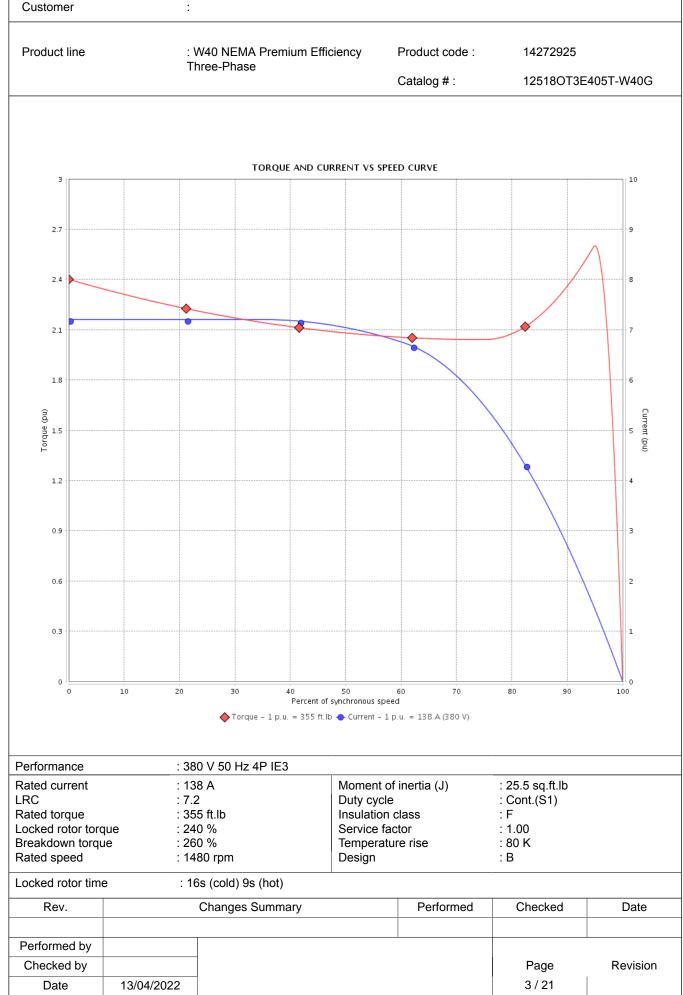
Product line		: W40 NEMA Premium Efficiency Three-Phase		ncy F	Product code :	14272925	14272925	
				C	Catalog # :		12518OT3E405T-W40G	
Frame Insulation class Duty cycle Ambient temperature		: 404/5T : F : Cont.(S1) : -20°C to +40°C		Cooling method Mounting Rotation <sup>1</sup> Starting method		: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line		
Altitude Protection degree Design		: 1000 m.a.s.l. : IP23 : B	IP23		Approx. weight <sup>3</sup> Moment of inertia (J)		: 1030 lb : 25.5 sq.ft.lb	
Dutput [HP]		125		100	10	00	100	
Poles		4		4	4	4	4	
Frequency [Hz]		60		50	5	0	50	
Rated voltage [V]		230/460		380	40	00	415	
ated current [A]		276/138		138		33	129	
. R. Amperes [A]		1904/952		994		24	1032	
RC [A]		6.9x(Code G)	7.2	2x(Code H)		ode H)	8.0x(Code J)	
lo load current [A	]	94.0/47.0		46.3	·	).2	53.7	
ated speed [RPN		1780		1480		80	1480	
lip [%]	-	1.11		1.33		33	1.33	
ated torque [ft.lb]		369		355		55	355	
ocked rotor torqu		270		240		70	290	
reakdown torque		260		260		00	320	
Service factor	L · · · J	1.25		1.00		00	1.00	
Temperature rise			80 K 80			K K	80 K	
ocked rotor time	1		16s (	cold) 9s (ho			4s (cold) 8s (hot)	
loise level <sup>2</sup>		69.0 dB(A)			,	,,		
	25%	94.9		94.5	94	.5	94.8	
	50%	95.0	94.6		94		94.9	
Efficiency (%)	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	
<b>-</b> -	50%	0.75		0.76	0.		0.69	
Power Factor	75%	0.83		0.84	0.0		0.80	
	100%	0.86		0.87	0.0		0.85	
Bearing type :		Drive end Non dr	<u>ive end</u> 2 Z C3	Foundatio	on loads	: 2890 lb		
Sealing Lubrication interv	val	Bearing Seal Beari	Bearing Seal Bearing Seal		npression : 3920 lb			
Lubricant amoun			3 g					
Lubricant type			Mobil Polyrex EM					
Notes USABLE @208V	305A SF 1.7	5 SFA 351A		I				
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	ed. otor from the m and with t veight subjec ocess.	acel the previous one, where shaft end. olerance of +3dB(A). St to changes after	nich		e average values oply, subject to th		with sinusoidal pulated in NEMA	
(4) At 100% of ful	l load.			 		<b>-</b>		
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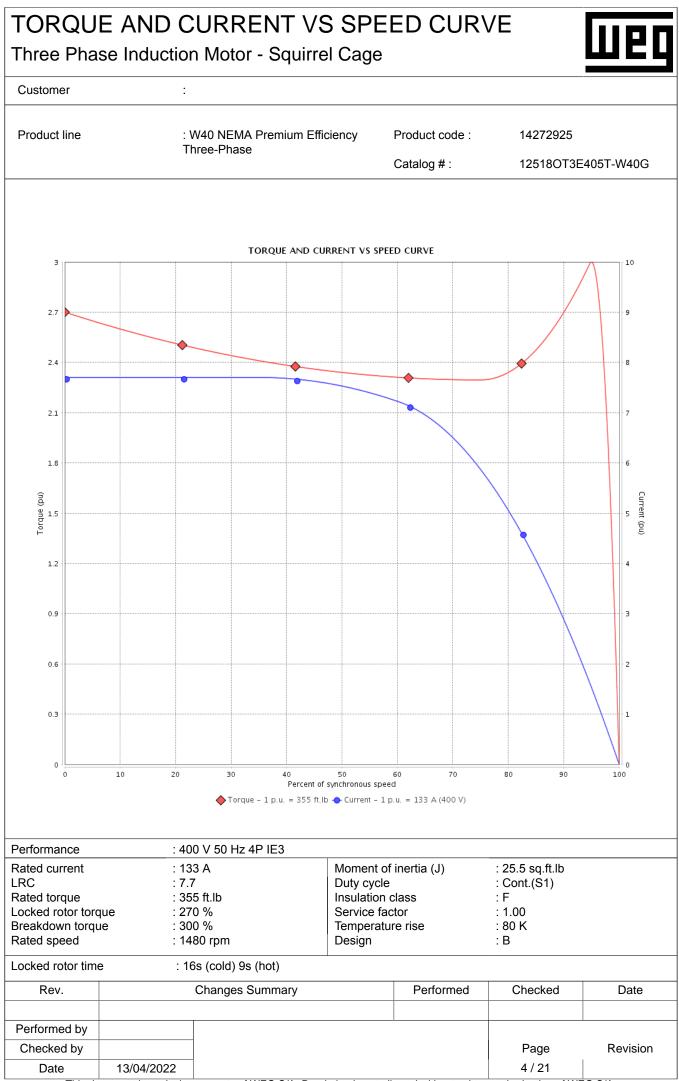
### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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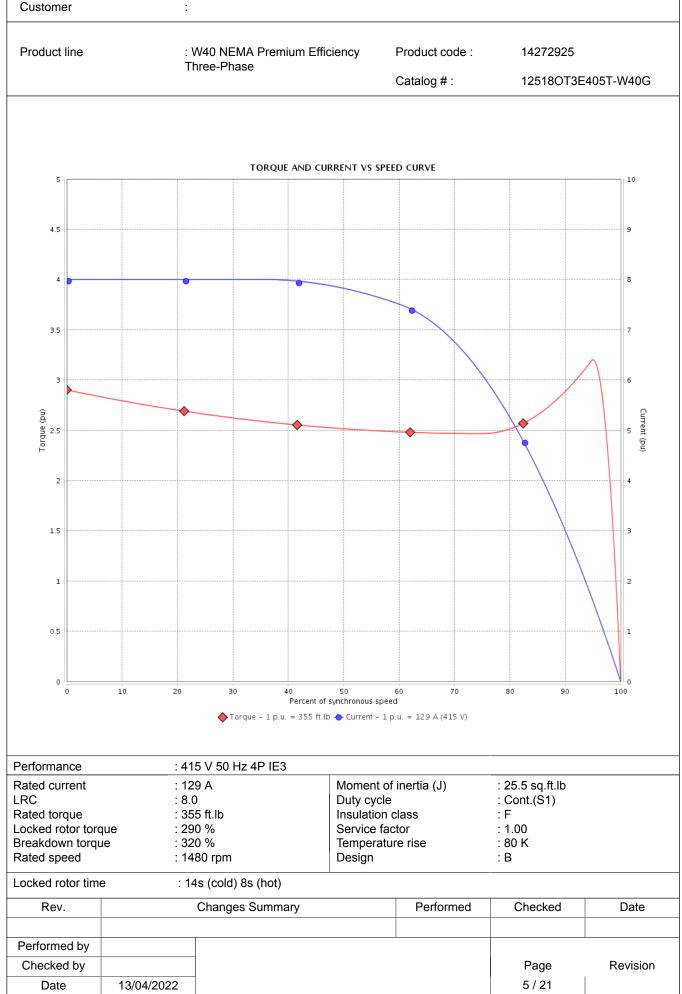


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### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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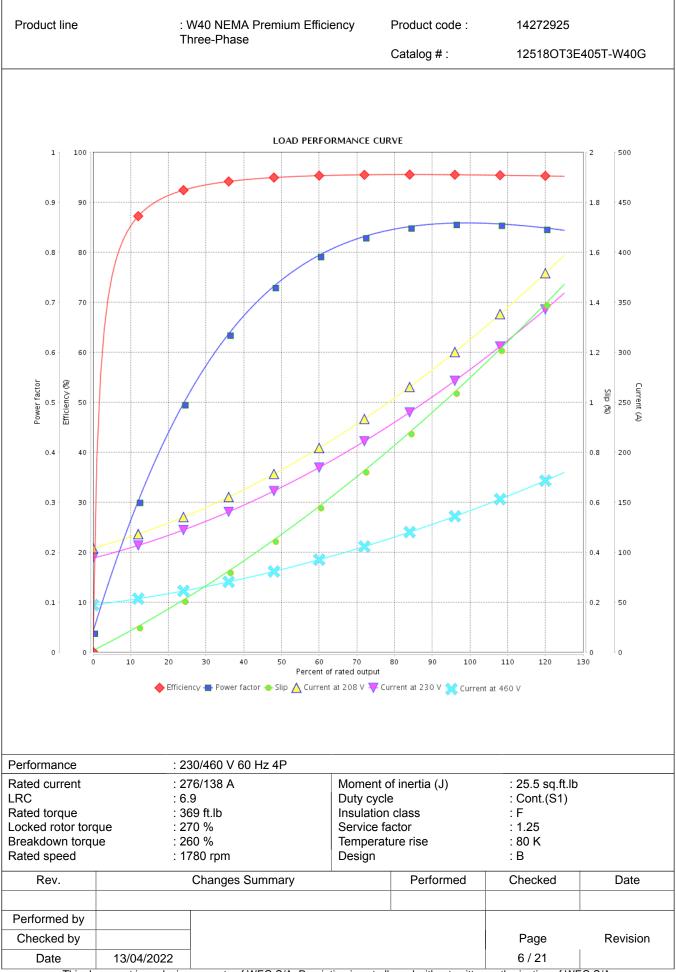
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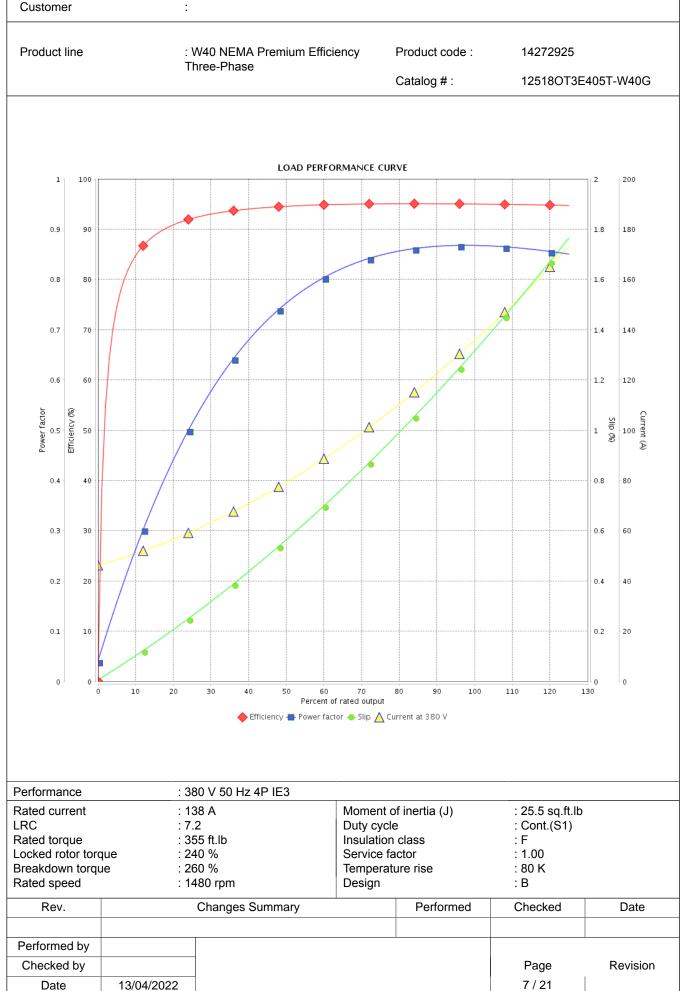


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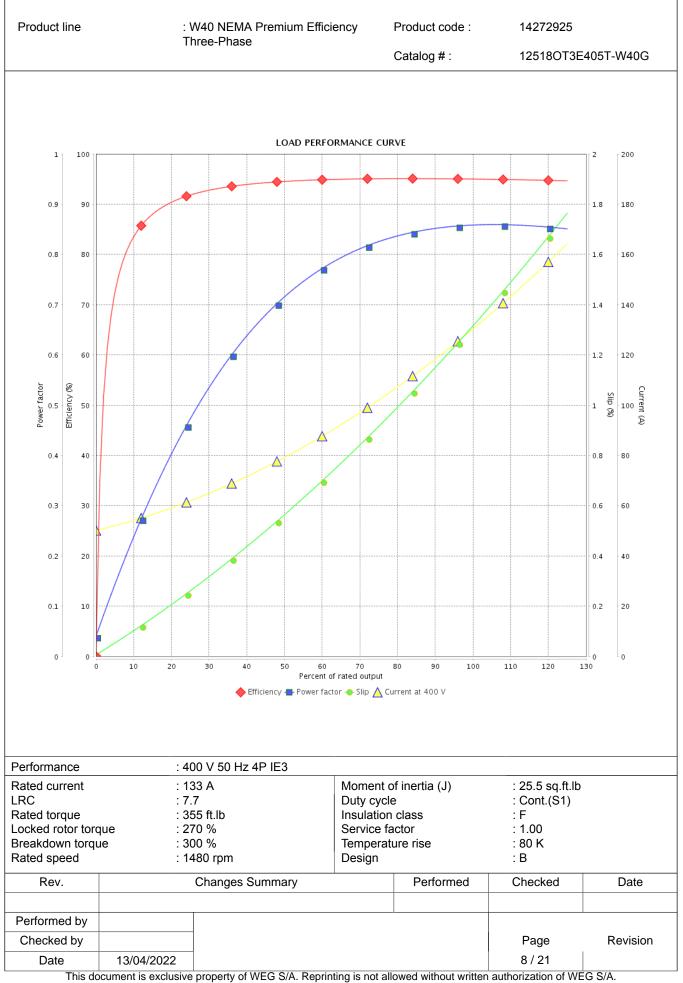
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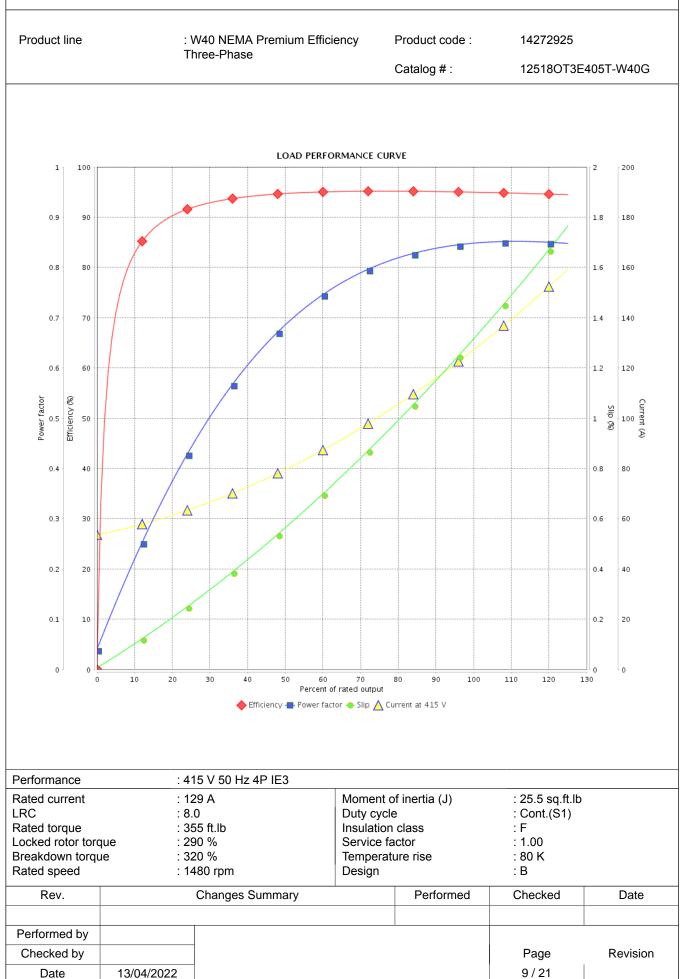
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## THERMAL LIMIT CURVE

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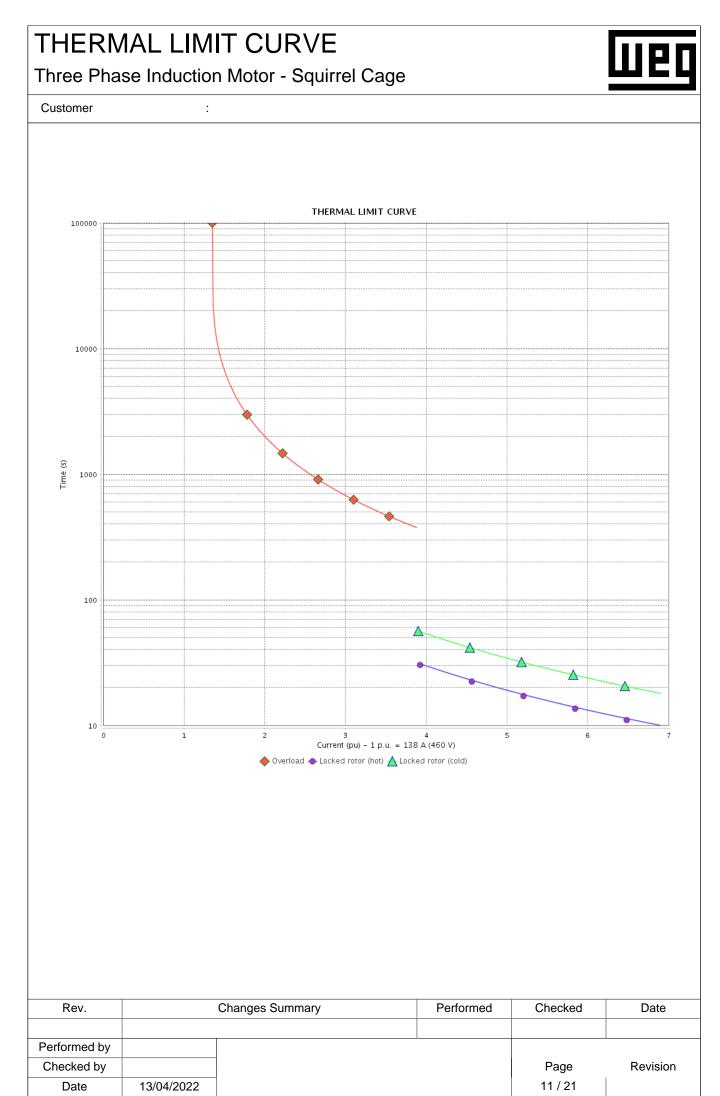
Product line : W40 NEMA Premium Efficier Three-Phase		ency Product code :		14272925		
			Catalog # :	12518OT3E4	12518OT3E405T-W40G	
<b>.</b>						
Performance Rated current	: 230/460 V 60 Hz 4P : 276/138 A	Moment o	f inertia (J)	: 25.5 sq.ft.lb		
LRC	: 6.9 Duty		9	: Cont.(S1) : F		
Rated torque : 369 ft.lb Locked rotor torque : 270 %		Insulation class Service factor		: 1.25		
Breakdown torque Rated speed	: 260 % : 1780 rpm	Temperati Design	ure rise	: 80 K : B		
Heating constant						
Cooling constant						
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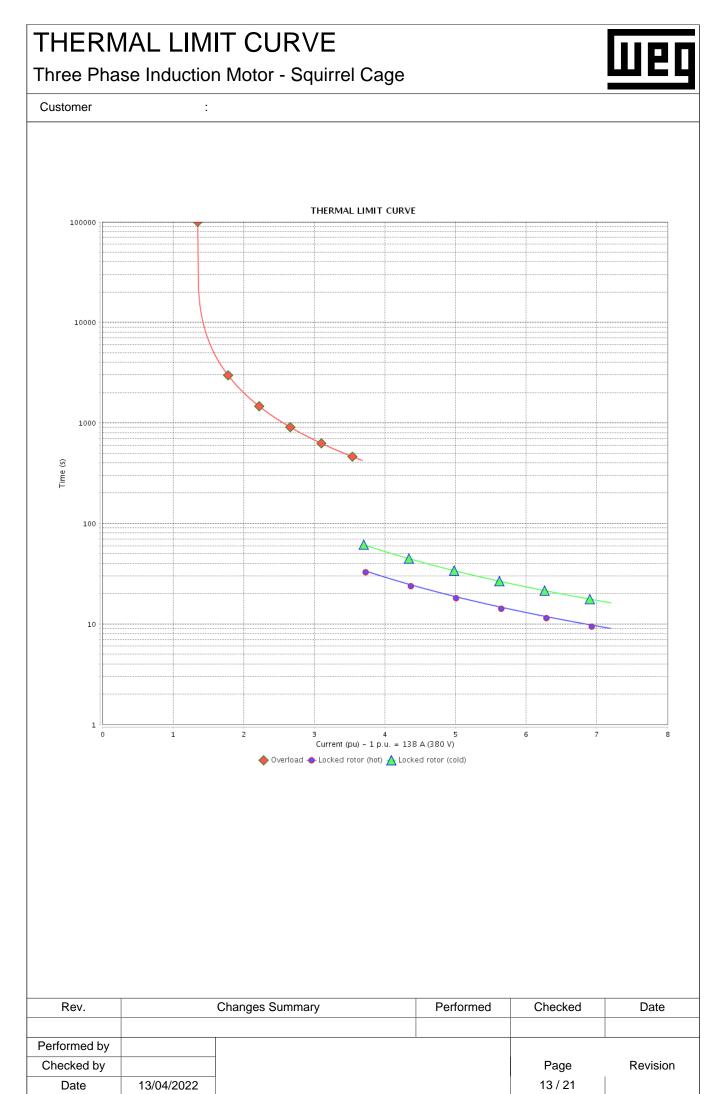


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Product line		: W40 NEMA Premium Efficiency		Product code :	14272925	14272925		
Three-Phase			Catalog # :		12518OT3E405T-W40G			
					1251801324	001-11400		
Performance	: 3	80 V 50 Hz 4P IE3						
Rated current				f inertia (J)	: 25.5 sq.ft.lb			
LRC :		.2	Duty cycle		: Cont.(S1)			
		55 ft.lb 40 %	Insulation class Service factor		: F : 1.00			
Breakdown torque : 240 %		60 %	Temperatu		: 80 K			
Rated speed	: 1	480 rpm	Design		: B			
Heating constant	t							
Cooling constant								
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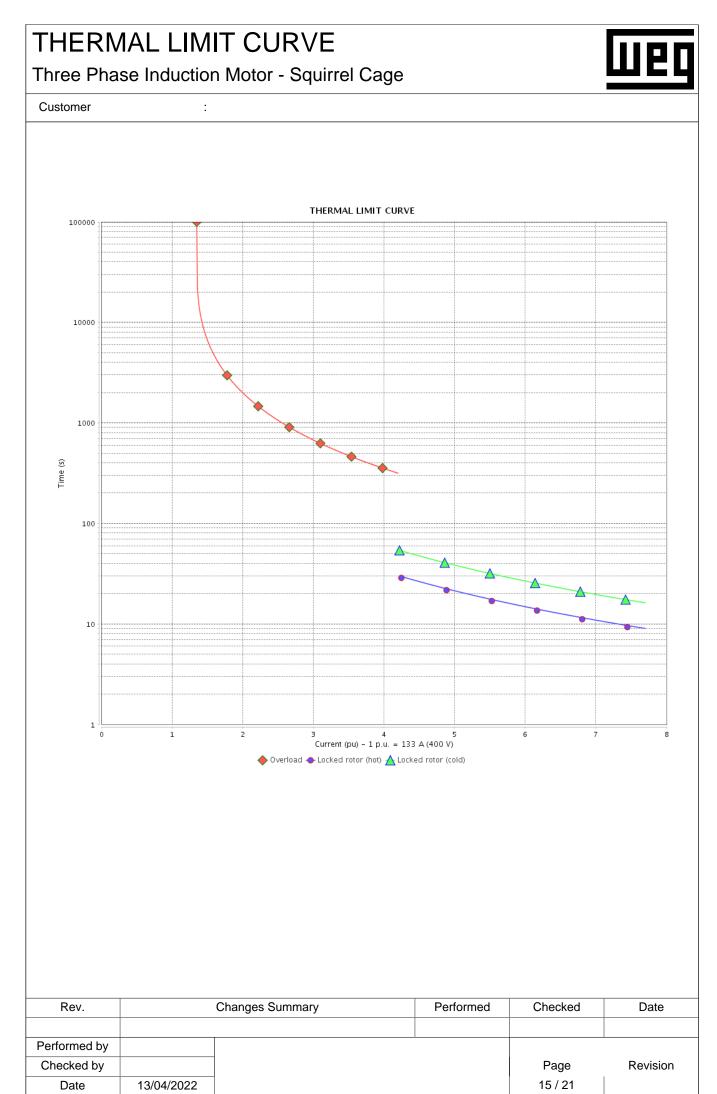
				4 40 70005		
Product line : W40 NEMA Premium Efficie Three-Phase				14272925		
			Catalog # :	12518OT3E4	12518OT3E405T-W40G	
Performance	: 400 V 50 Hz 4P IE3					
Rated current	: 133 A : 7.7	Moment of inertia (J)		: 25.5 sq.ft.lb : Cont.(S1)		
Rated torque : 355 ft.lb		Duty cycle Insulation class		: F		
Locked rotor torque : 270 % Breakdown torque : 300 %		Service factor Temperature rise		: 1.00 : 80 K		
Rated speed : 1480 rpm		Design		: B		
Heating constant						
Cooling constant	Changes Summers		Performed	Checked	Data	
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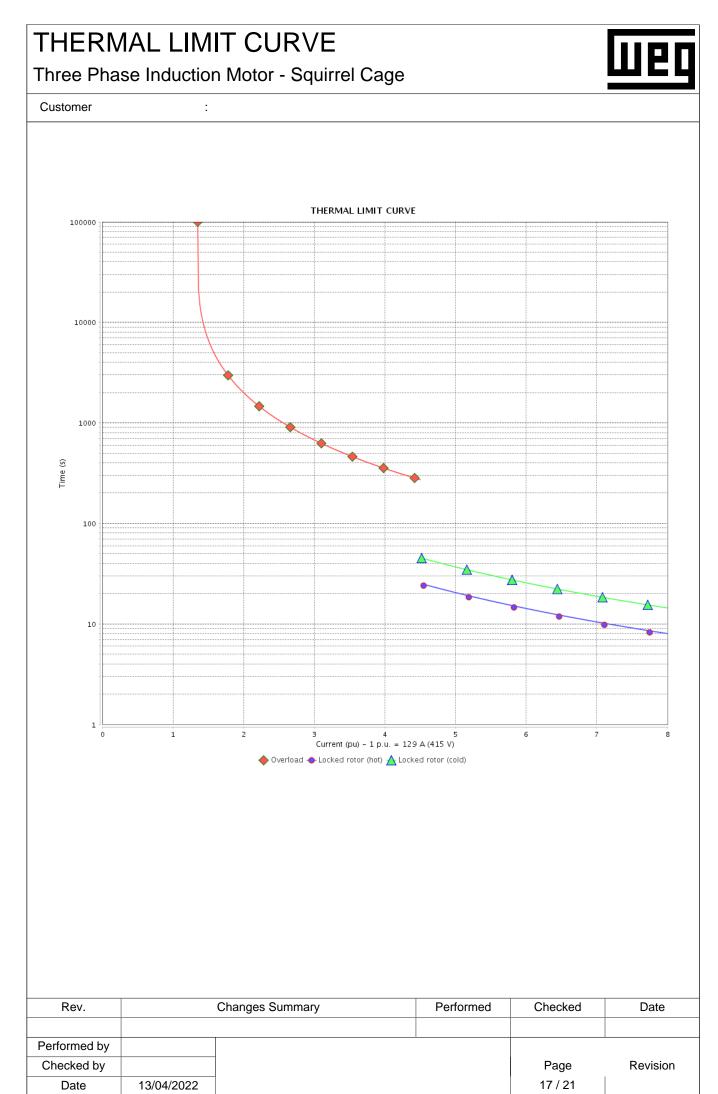
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		Three-Phase		Catalog # :	12518OT3E4	12518OT3E405T-W40G	
Performance		15 V 50 Hz 4P IE3					
LRC Rated torque Locked rotor torque Breakdown torque		: 129 A       Moment         : 8.0       Duty cyc         : 355 ft.lb       Insulation         : 290 %       Service         : 320 %       Temperation         : 1480 rpm       Design		class ictor	: 25.5 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constant							
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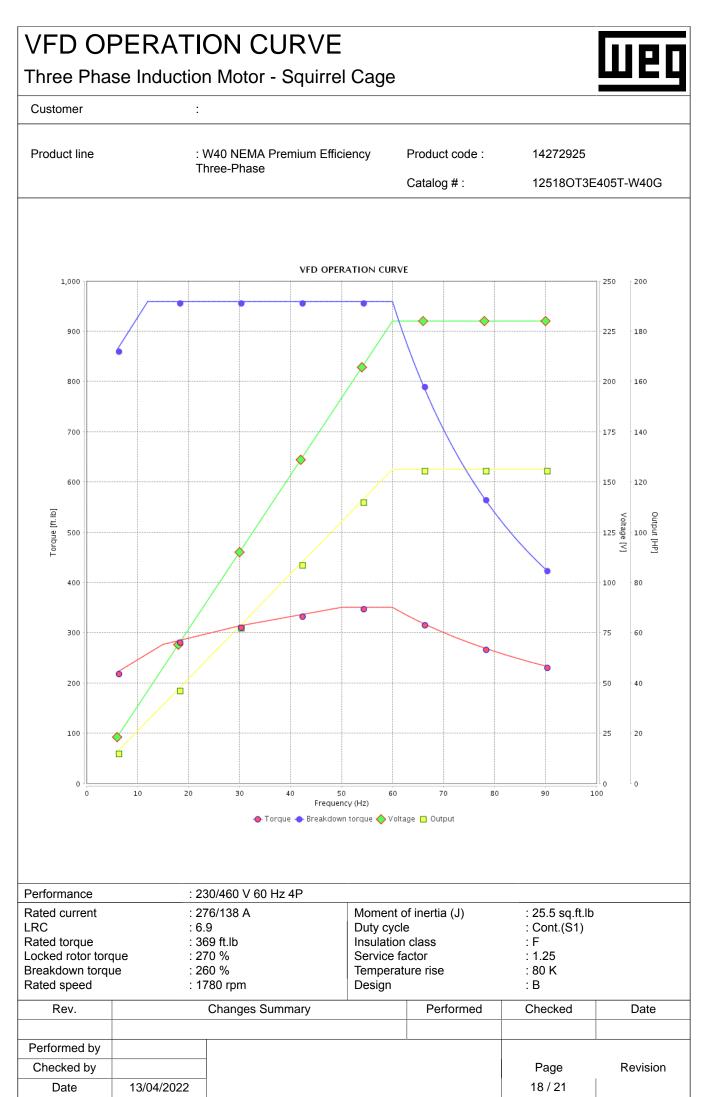
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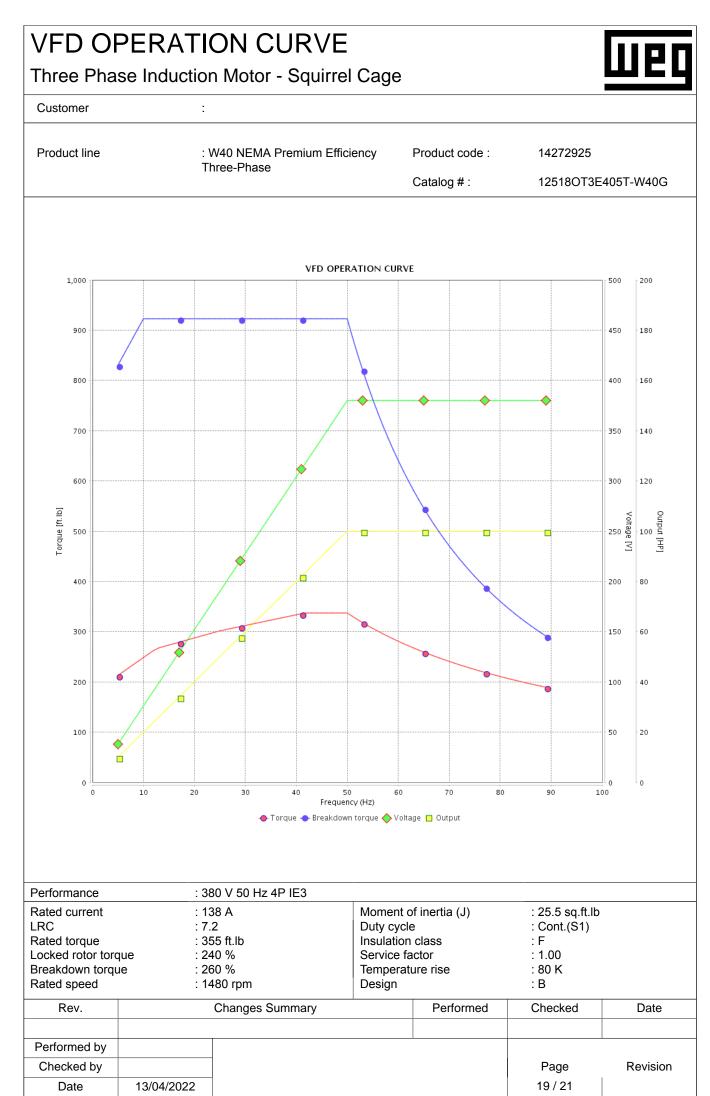
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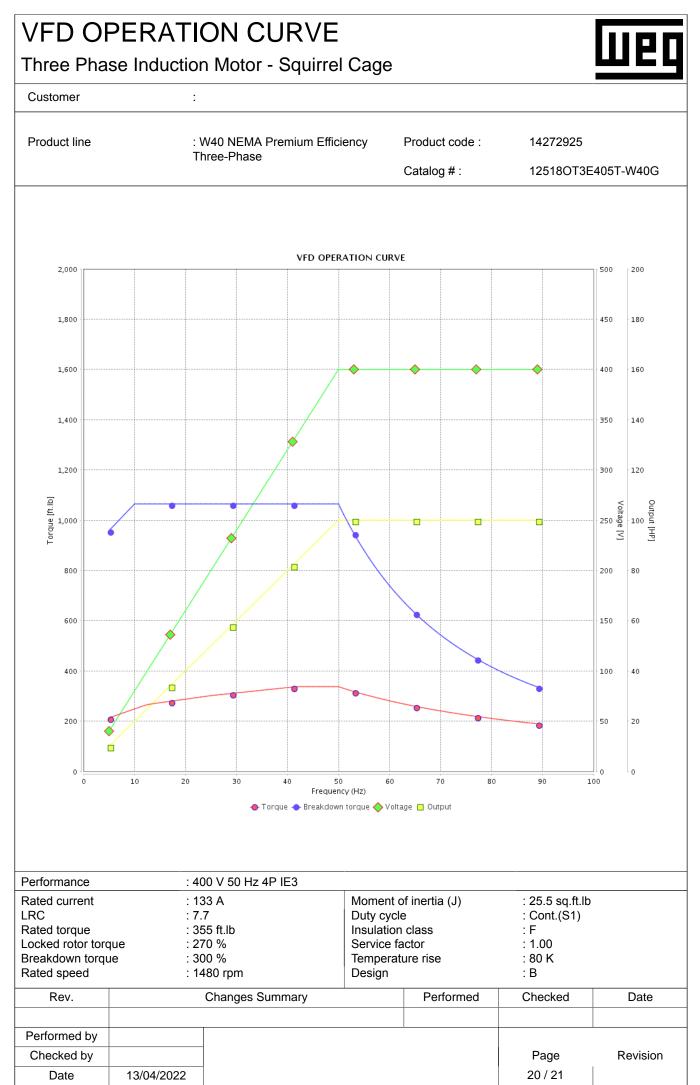
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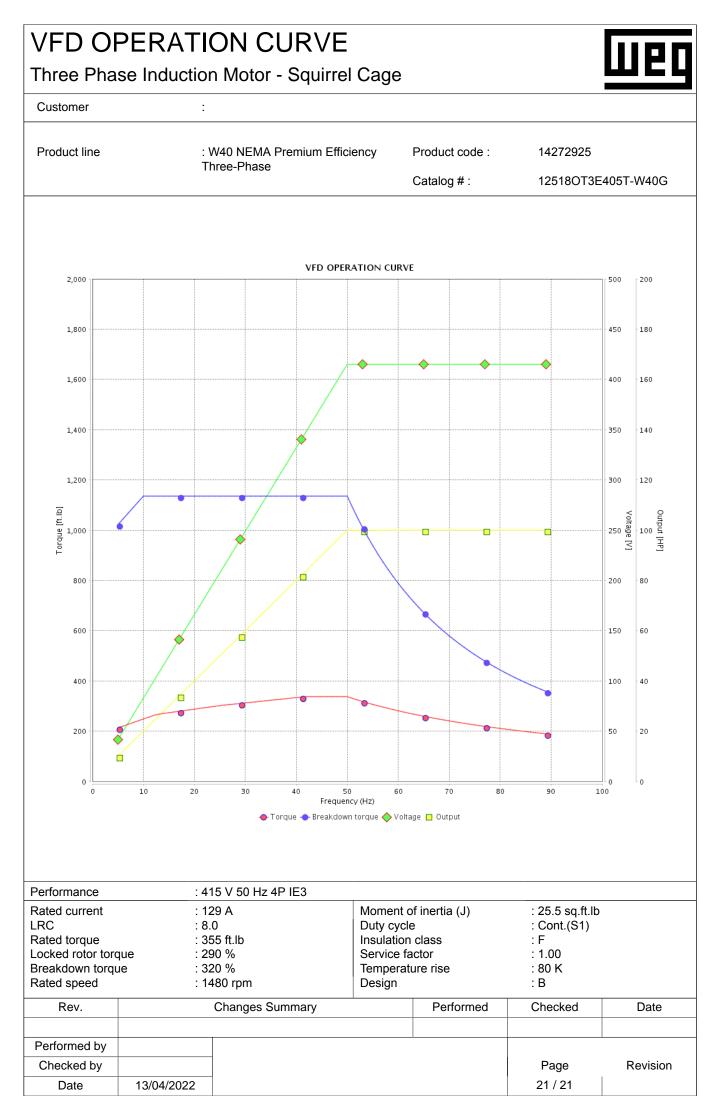
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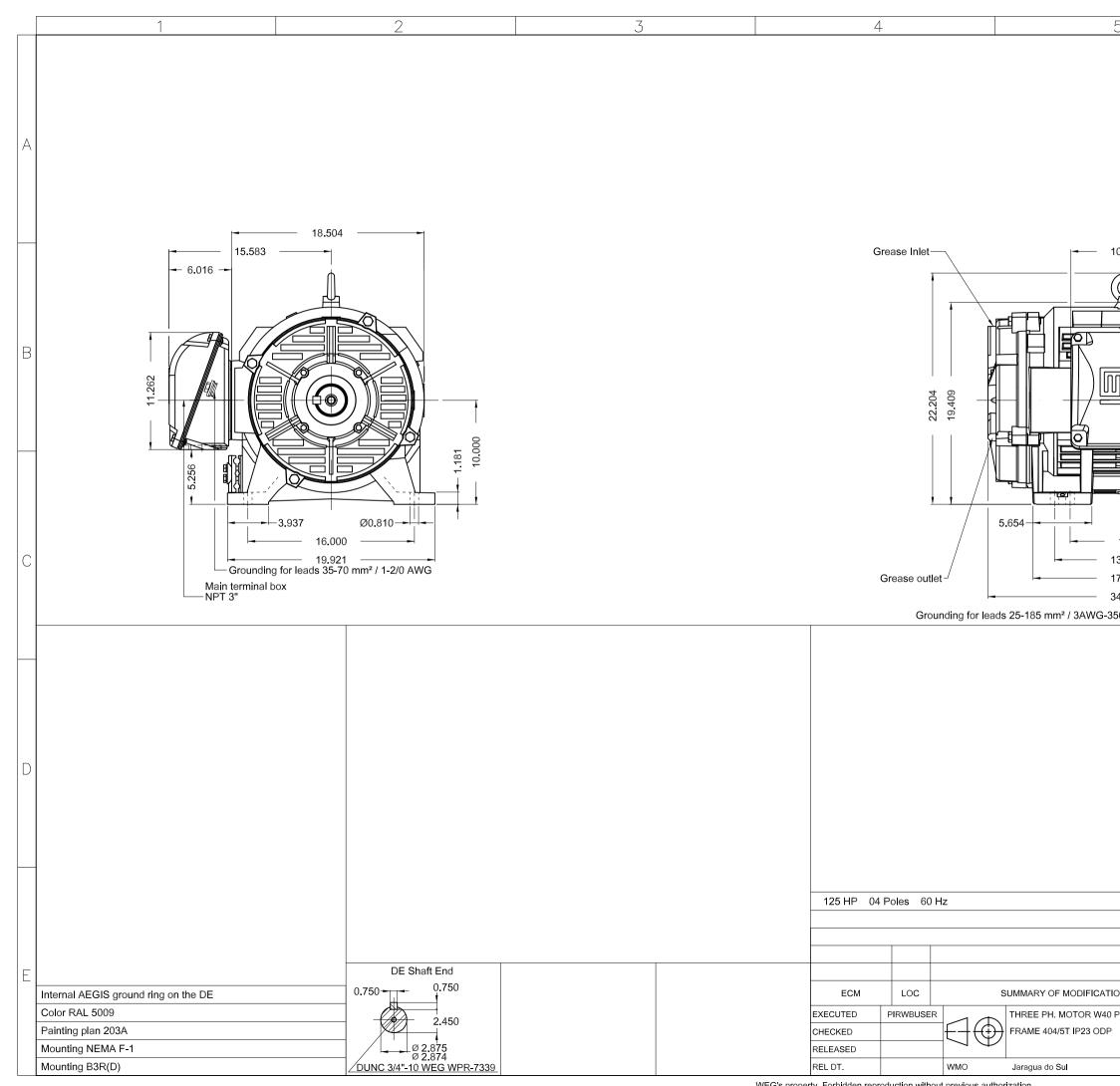












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