DATA SHEET

Three Phase Induction Motor - Squirrel Cage

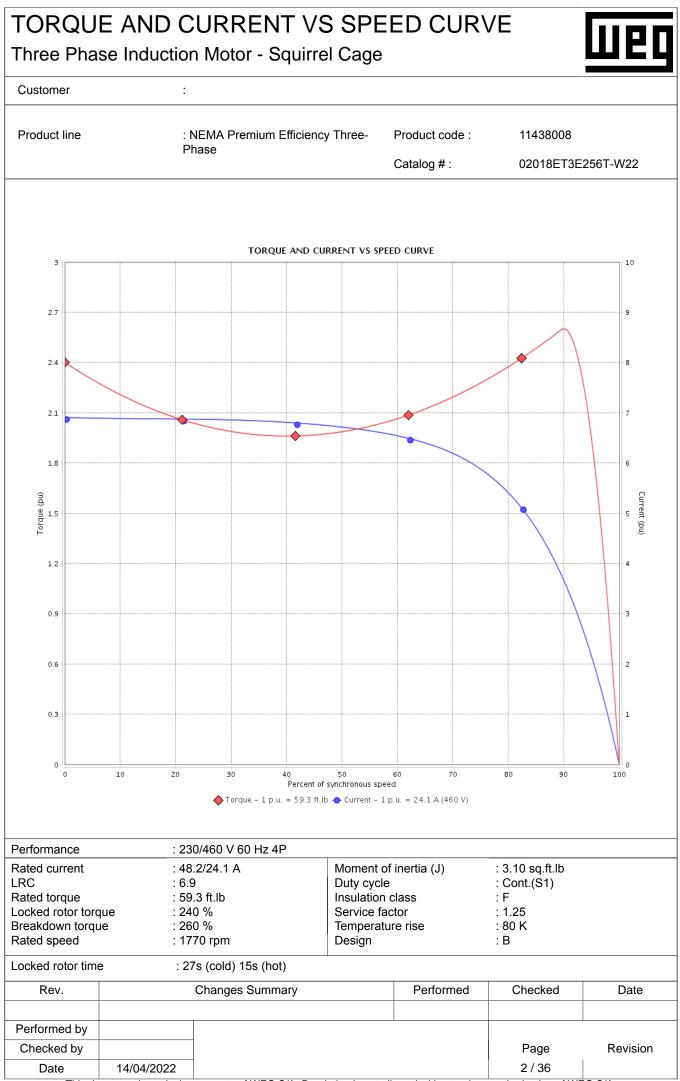
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Customer

Product line			mium Efficien	icy Three-	Product cod	e: 11	11438008	
		Phase			Catalog # :	02	2018ET3E256	6T-W22
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 254/6T : F : Cont.(S1) : -20°C to + : 1000 m.a.: : IP55 : B		Mou Rota Star App	ling method nting tition ¹ ting method rox. weight ³ nent of inertia (J	: F : E : C : 3	C411 - TEFC -1 Both (CW and Direct On Line 338 lb 3.10 sq.ft.lb	CCW)
-								
Output [HP] Poles		20 4	15 4	15 4	15	20	20	20
Frequency [Hz]		60	4 50	4 50	50	4 50	4 50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		48.2/24.1	21.8	21.2	20.6	29.4	28.0	27.1
L. R. Amperes [A]		333/166	161	167	173	168	174	179
LRC [A]					J) 8.4x(Code K)		6.2x(Code	
No load current [A	1	19.2/9.60	9.90	10.5	11.0	9.90	G) 10.5	11.0
Rated speed [RPN		19.2/9.00	1470	1475	1477	1455	1460	1465
Slip [%]	"	1.67	2.00	1.67	1.53	3.00	2.67	2.33
Rated torque [ft.lb	1	59.3	53.6	53.4	53.3	72.2	71.9	71.7
Locked rotor torqu		240	250	280	300	190	210	229
Breakdown torque		260	290	320	340	210	229	260
Service factor		1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		27s (cold)	21s (cold)	25s (cold		21s (cold)	25s (cold)	25s (cold)
		15s (hot)	12s (hot)	14s (hot)		12s (hot)	14s (hot)	14s (hot)
Noise level ²		64.0 dB(A)	61.0 dB(A)	61.0 dB(A	() 61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
	25%							
Efficiency (%)	50%	91.7	91.0	89.8	89.8	91.7	91.0	91.0
Efficiency (%)	75%	92.4	91.5	91.0	91.3	91.0	91.0	91.7
	100%	93.0	91.4	91.4	91.7	90.2	91.0	91.7
	25%							
Power Factor	50%	0.68	0.65	0.62	0.60	0.75	0.72	0.70
	75%	0.79	0.78	0.75	0.73	0.83	0.81	0.80
	100%	0.84	0.84	0.82	0.81	0.86	0.85	0.84
Bearing type Sealing Lubrication inter Lubricant amour		Drive end : 6309 C3 : V'Ring : 20000 h : 13 g	3 6209 (V'Rin	C3 Max. g Max.	dation loads traction compression		25 lb 063 lb	
Lubricant amour			9 g I Polyrex EM					
Notes USABLE @208V	53.3A SF 1	.15 SFA 61.3A						
This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	ed. lotor from the Im and with weight subjectocess.	e shaft end. tolerance of +3	8dB(A).		e are average v r supply, subjec I.			
Rev.		Changes	Summary		Performe	ed Che	ecked	Date
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Checked by							age	Revision
Date	14/04/202	22				1	/ 36	

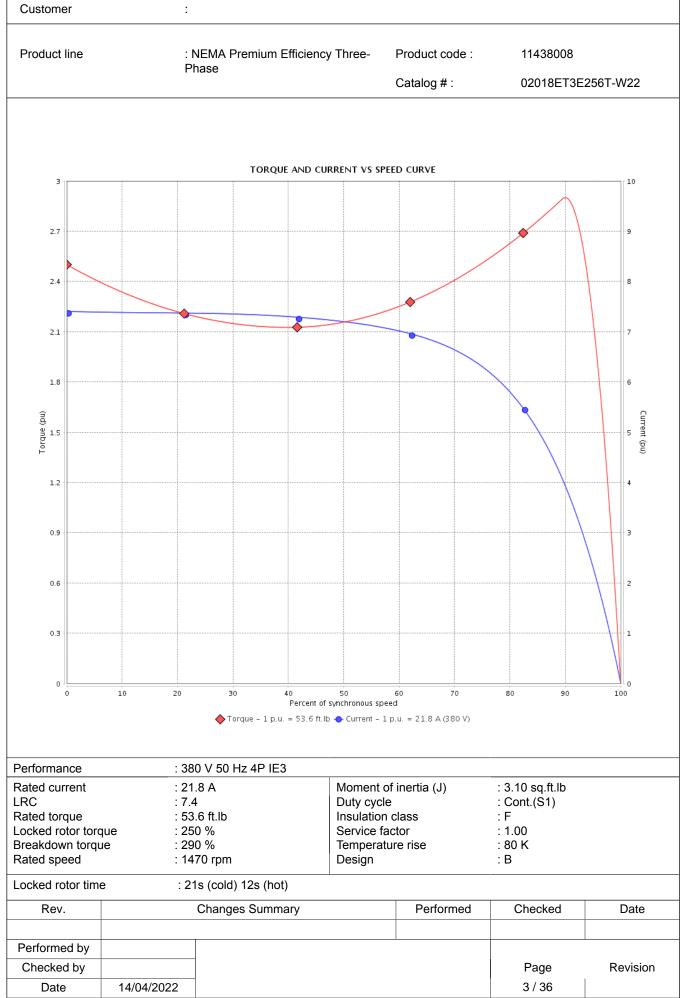
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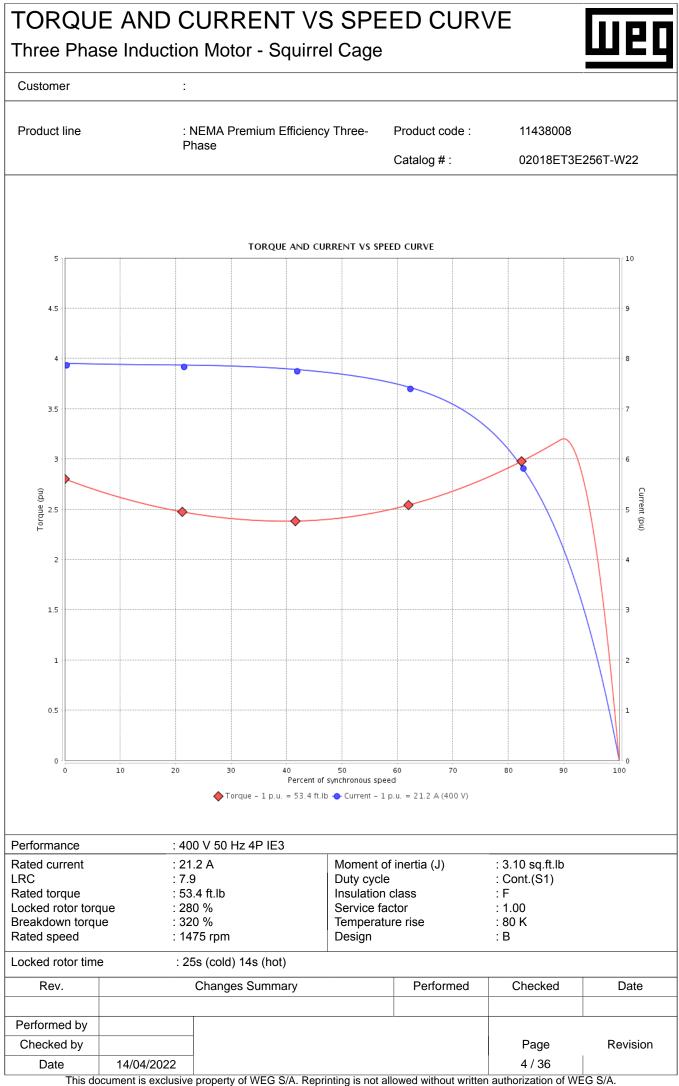


TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



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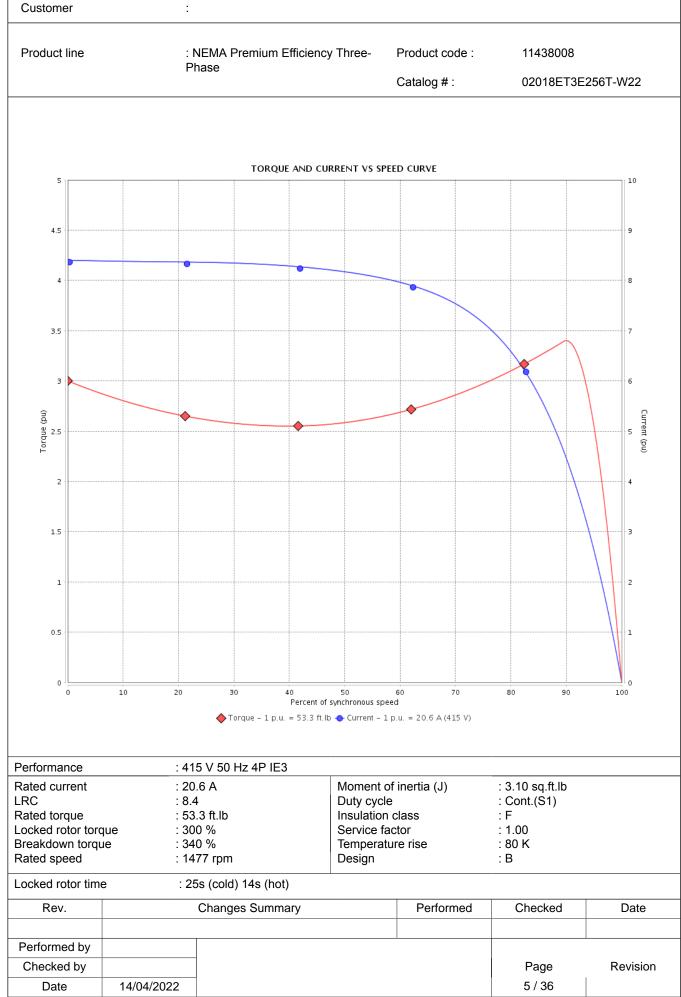


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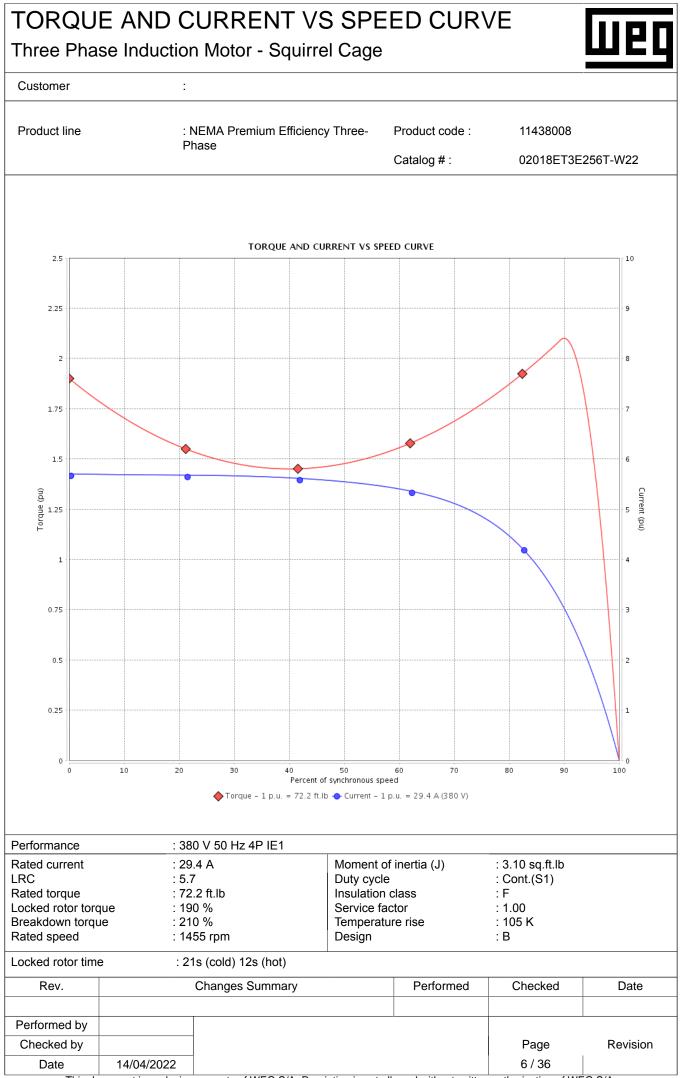
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





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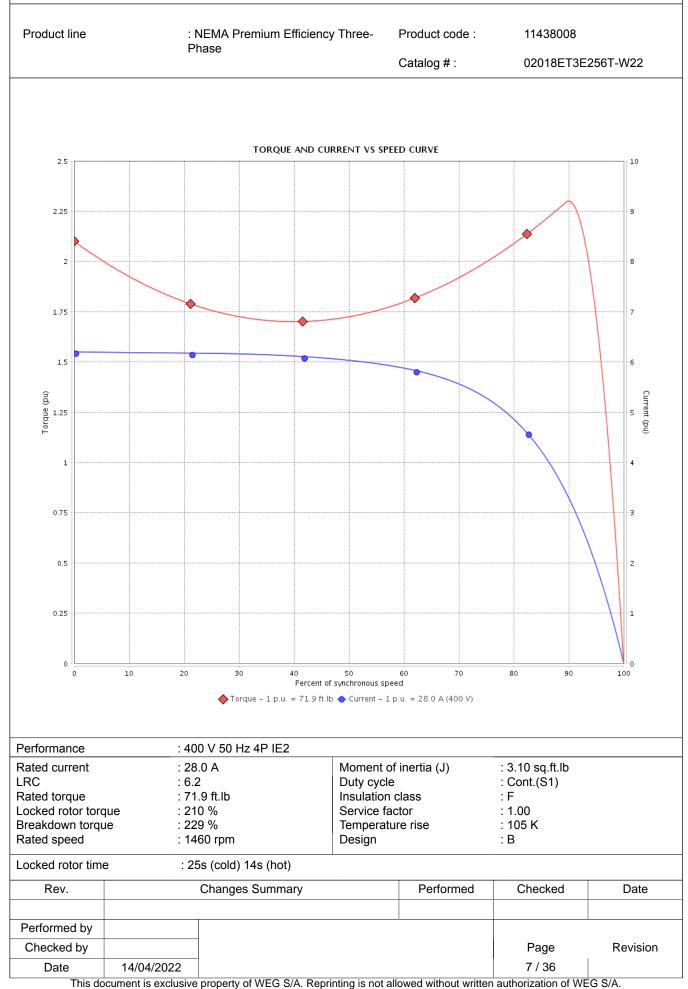
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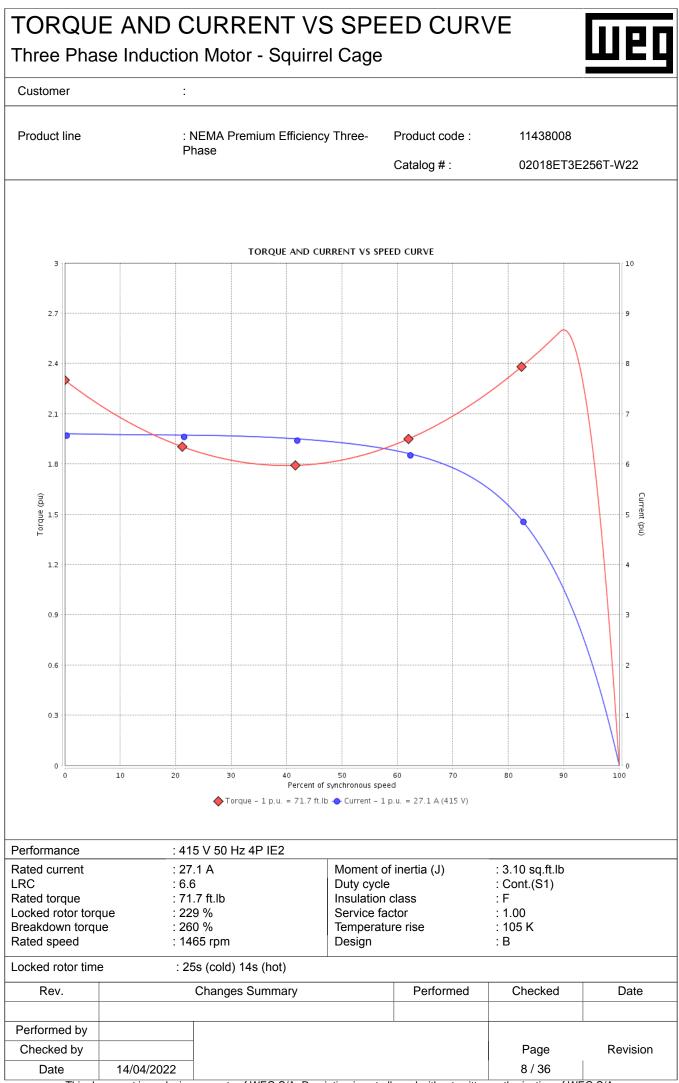
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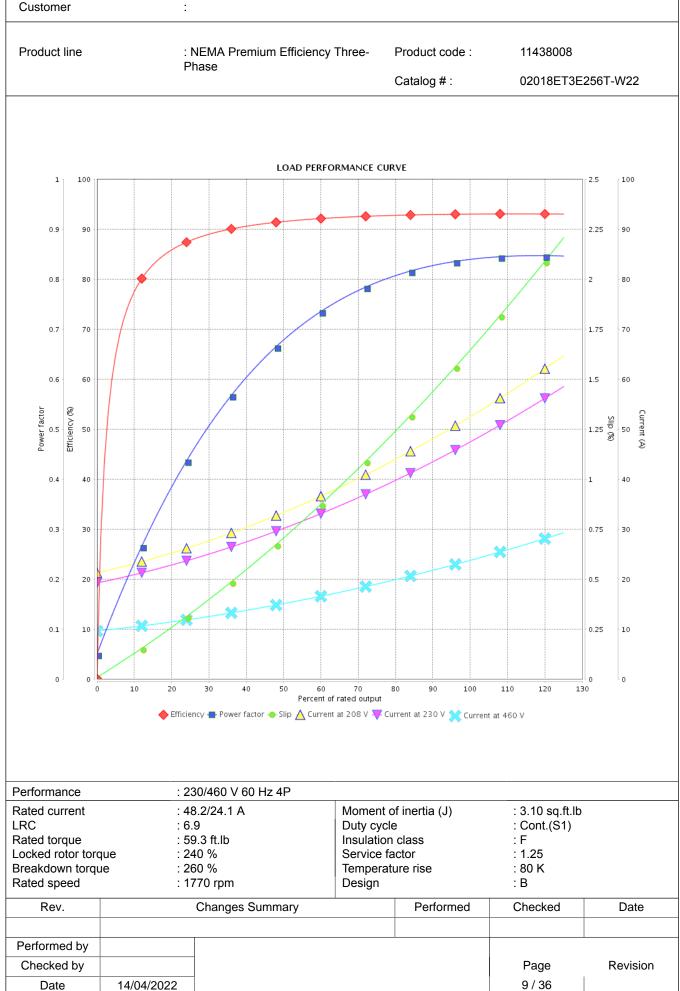




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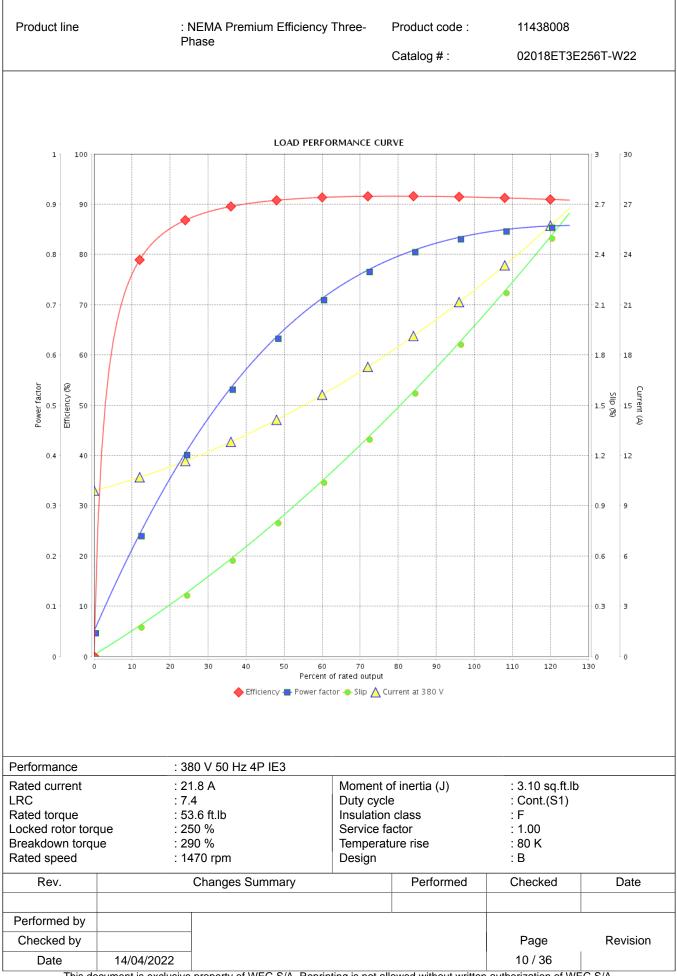
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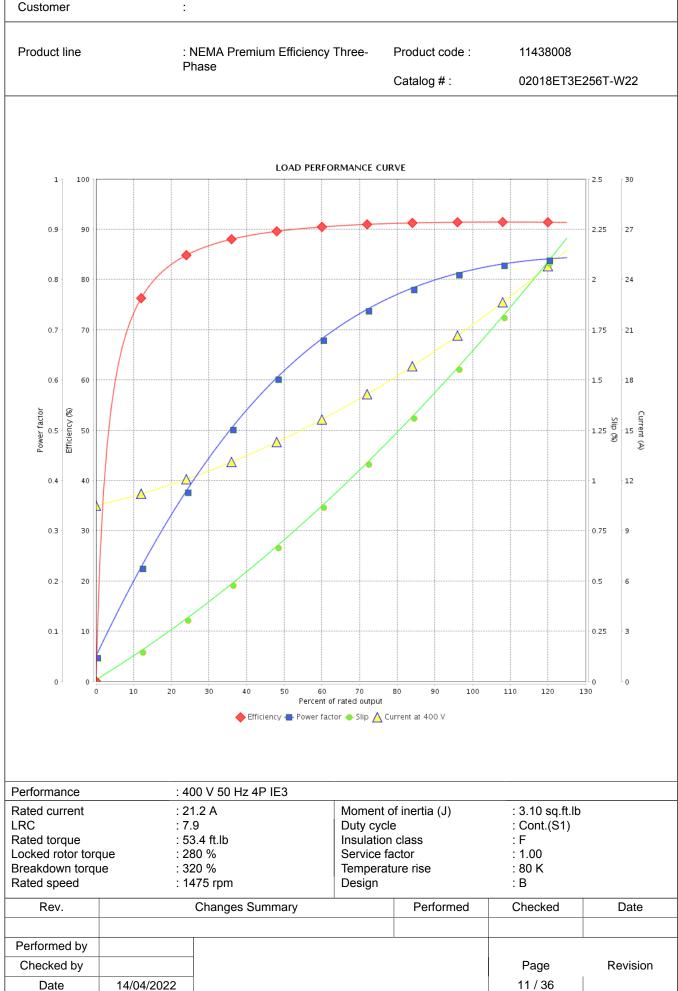


Customer



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Customer



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LOAD PERFORMANCE CURVE Three Phase Induction Motor - Squirrel Cage Customer : Product line : NEMA Premium Efficiency Three-Product code : 11438008 Phase Catalog # : 02018ET3E256T-W22 LOAD PERFORMANCE CURVE 100 25 1 2.5 2.25 22.5 0.9 90 Δ 0.8 80 20 2 Δ 17.5 1.75 0.7 70 \wedge 0.6 60 1.5 15 Efficiency (%) Power factor \wedge 12.5 Current 1.25 Slip 0.5 50 Δ è Δ 0.4 40 1 10 0.3 30 0.75 7.5 0.2 20 0.5 5 0.1 10 0.25 2.5 0 0 0 0 ó 10 20 100 110 120 130 30 40 50 60 70 80 90 Percent of rated output 🔶 Efficiency 🖶 Power factor 🔶 Slip 🛕 Current at 415 V Performance : 415 V 50 Hz 4P IE3 : 20.6 A Rated current Moment of inertia (J) : 3.10 sq.ft.lb LRC : 8.4 Duty cycle : Cont.(S1) : 53.3 ft.lb Insulation class Rated torque : F Locked rotor torque : 300 % Service factor : 1.00 Breakdown torque : 340 % Temperature rise : 80 K Rated speed : 1477 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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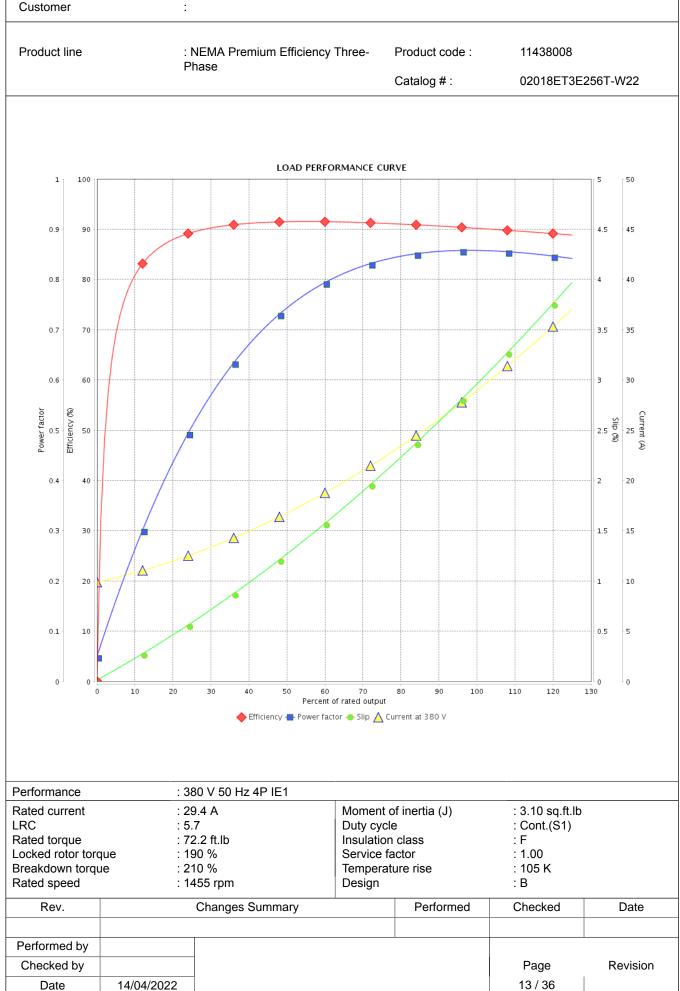
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Three Phase Induction Motor - Squirrel Cage

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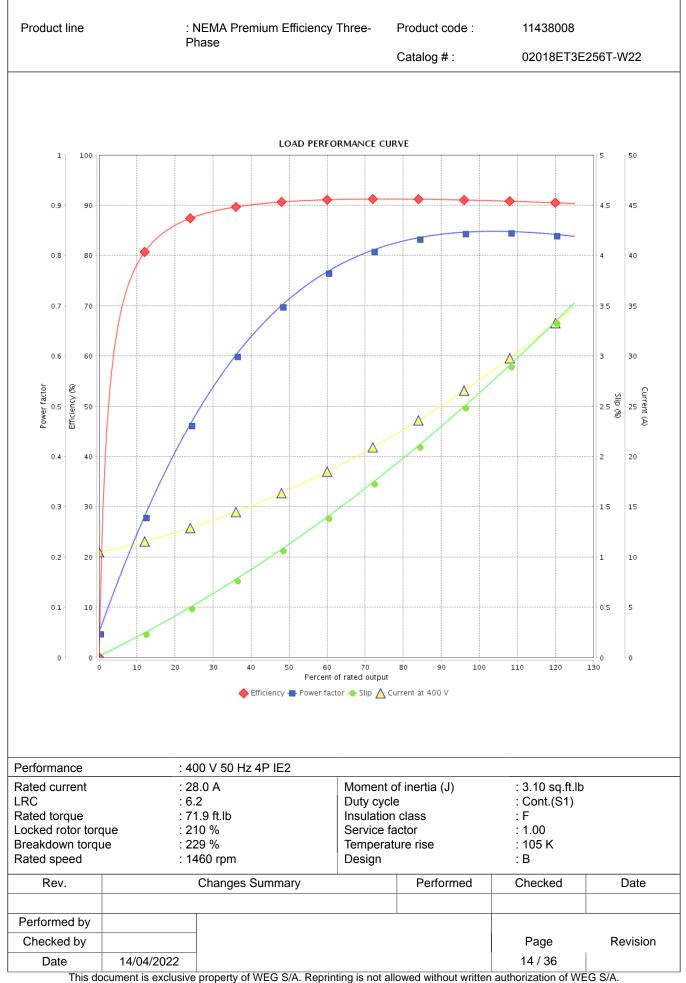
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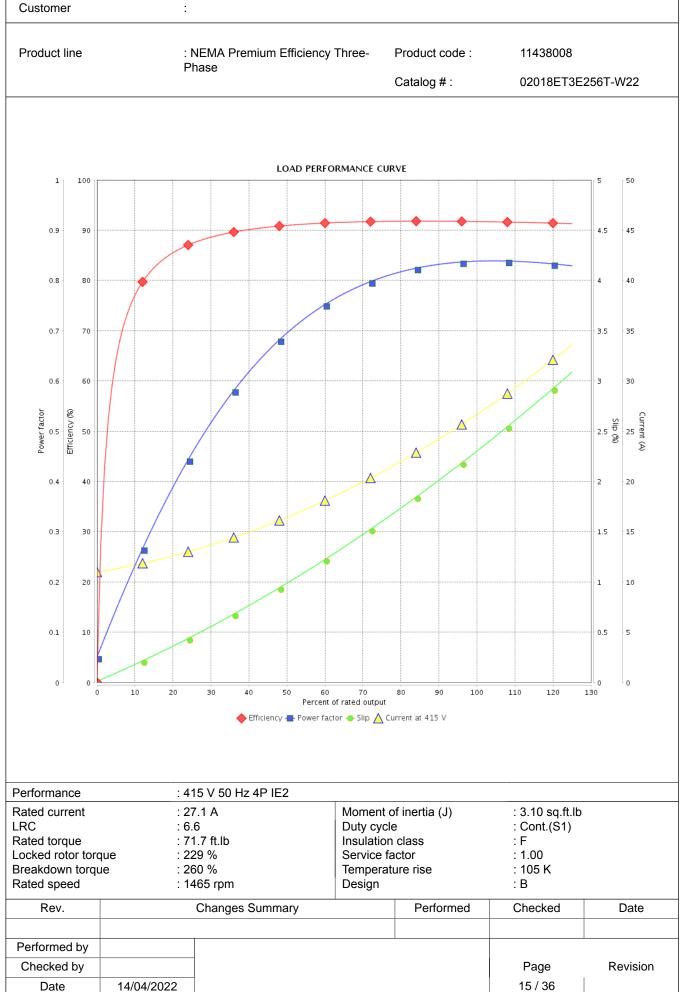


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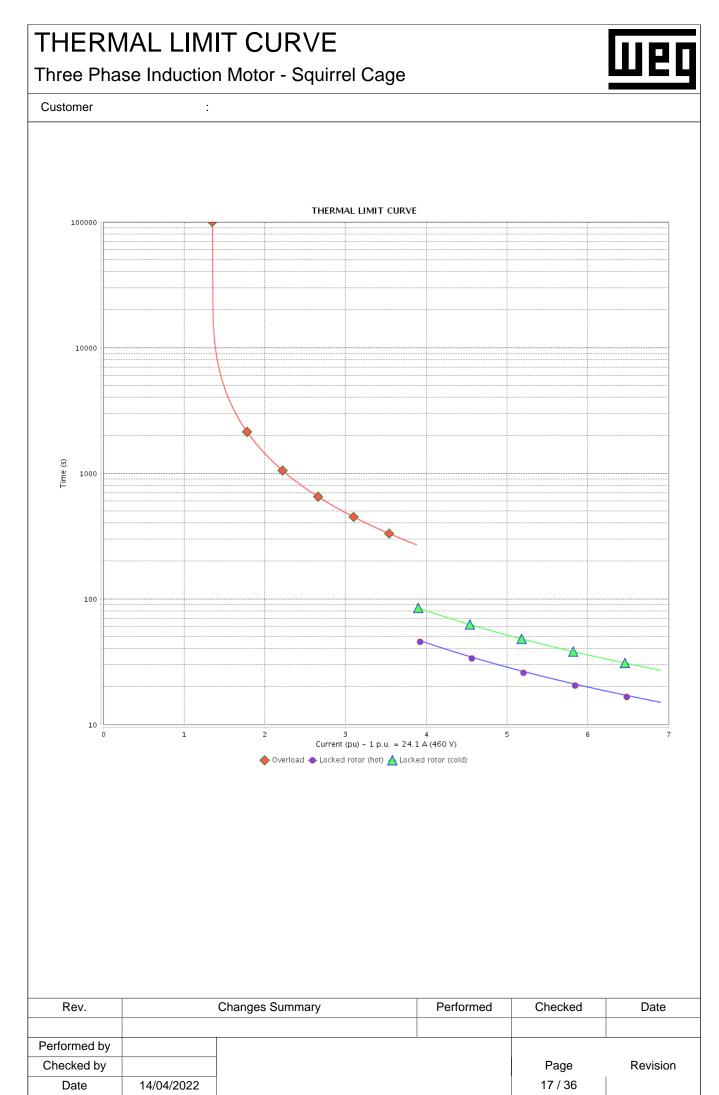
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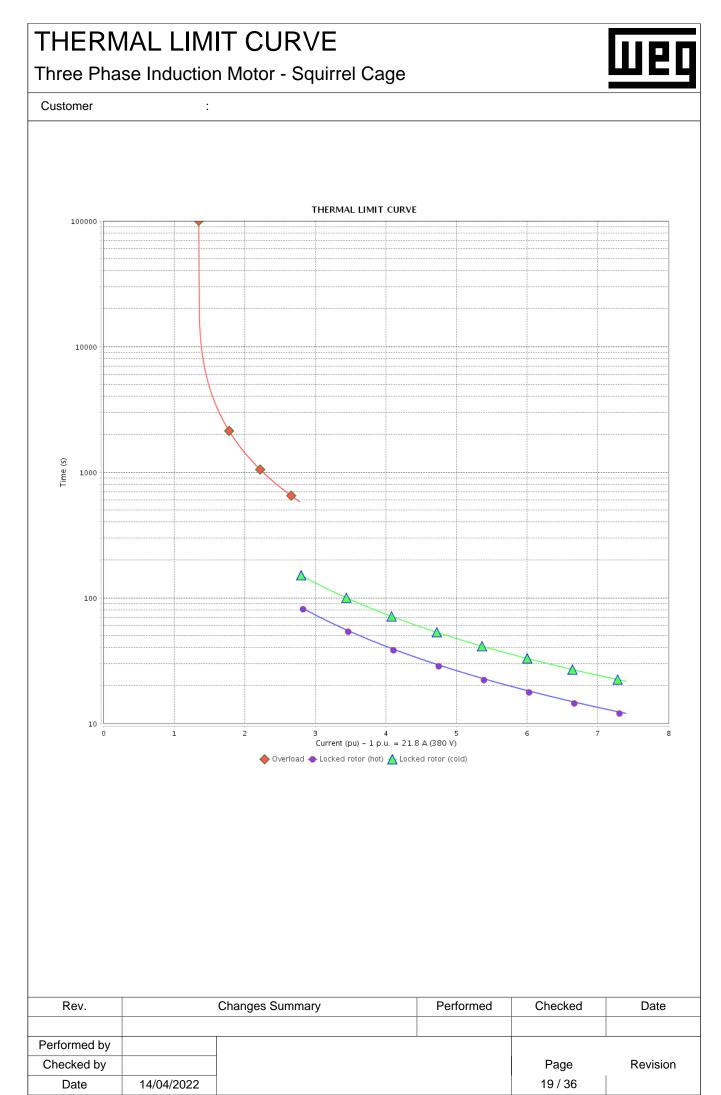
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11438008
	Flidse	Catalog # :	02018ET3E256T-W22

Performance	: 2	230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 6 : 5 que : 2 Je : 2	8.2/24.1 A 5.9 59.3 ft.lb 240 % 260 % 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.10 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	t					
Cooling constant	t					
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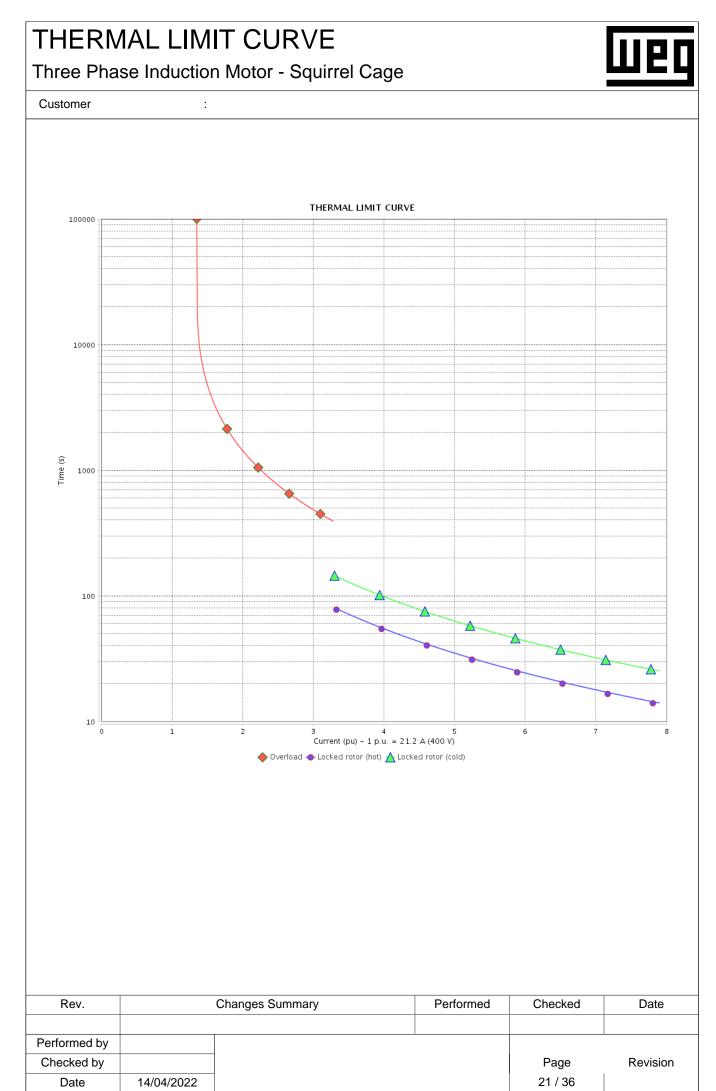
ustomer	:		
roduct line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11438008 02018ET3E256T-W22

Performance	: 38	80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7. : 53 que : 29 ue : 29	.8 AMoment of inertia (J)IDuty cycle.6 ft.lbInsulation class0 %Service factor0 %Temperature rise70 rpmDesign		: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constan	t					
Cooling constan	t					
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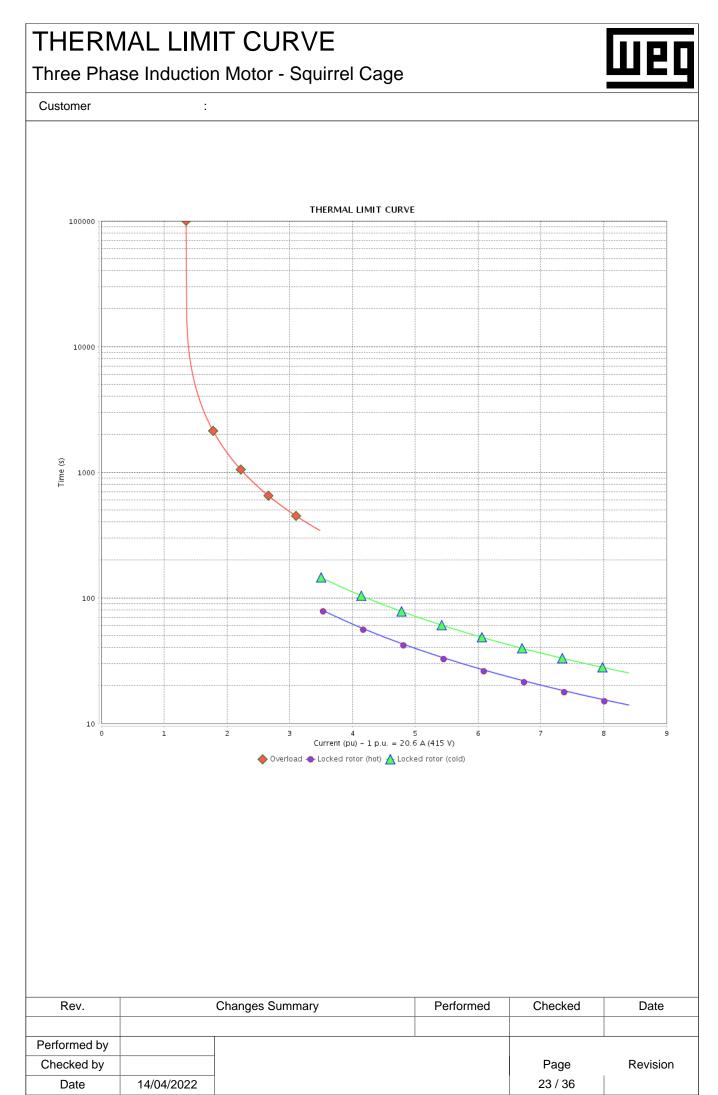
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage					
Customer	:				
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11438008 02018ET3E256T-W22		

Performance	: 4	00 V 50 Hz 4P IE3				
Rated current	: 2	1.2 A	Moment o	f inertia (J)	: 3.10 sq.ft.lb	
LRC	: 7	.9	Duty cycle	;	: Cont.(S1)	
Rated torque	: 5	3.4 ft.lb	Insulation	class	: F	
Locked rotor torc	que : 2	80 %	Service factor		: 1.00	
Breakdown torqu	.e :3	20 %	Temperatu	ure rise	: 80 K	
Rated speed	: 1	475 rpm	Design		: B	
Heating constant	t				·	
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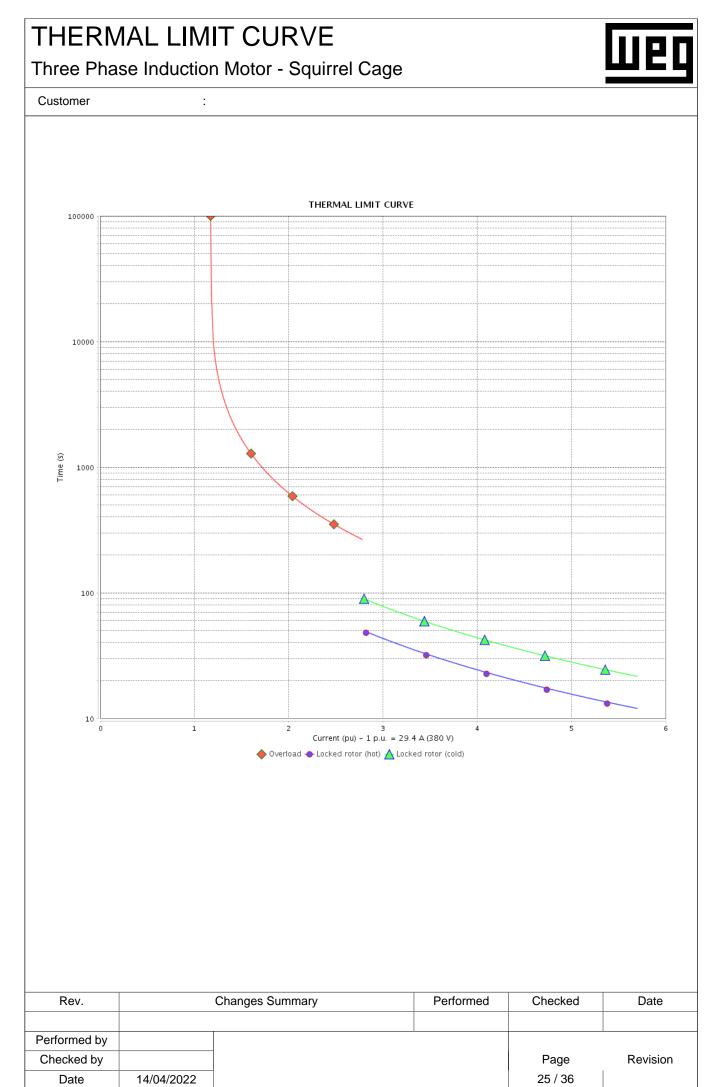
IHERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage					
Customer	:				
Product line	: NEMA Premium Efficiency Three-	Product code :	11438008		
	Phase	Catalog # :	02018ET3E256T-W22		

Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 8 : 5 que : 3 ue : 3	0.6 A .4 3.3 ft.lb 00 % 40 % 477 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constan	t					
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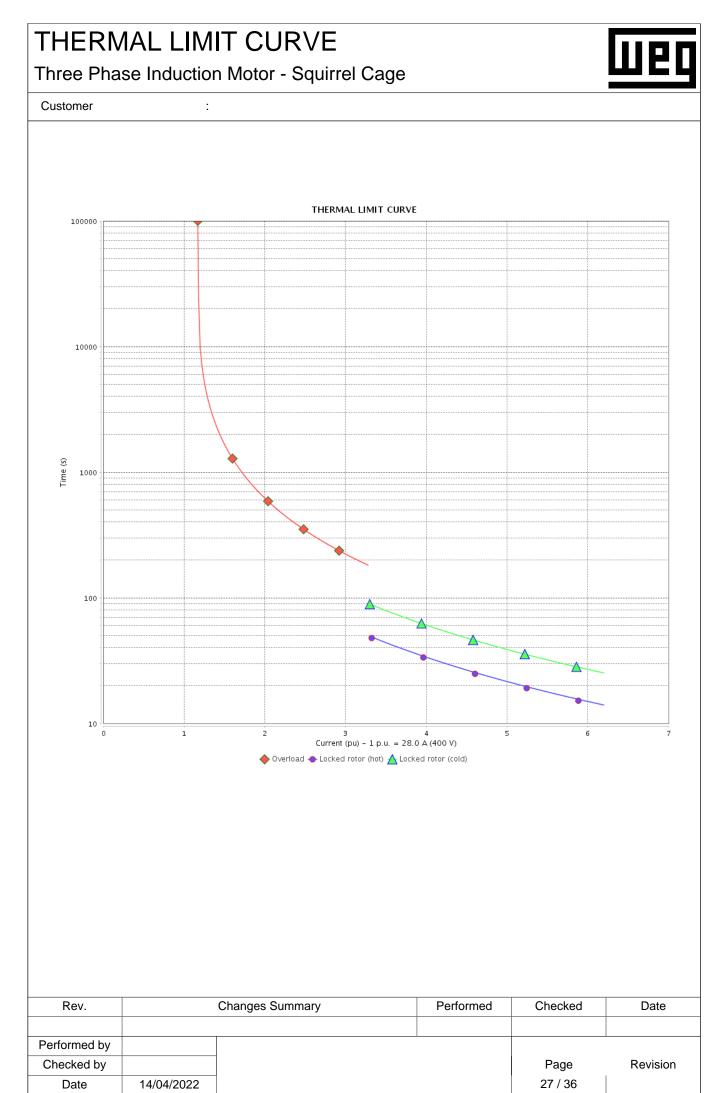
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11438008 02018ET3E256T-W22

Performance	: 38	30 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5. : 72 que : 19 ue : 21	9.4 A 7 2.2 ft.lb 90 % 10 % 455 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
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Cooling constant	t					
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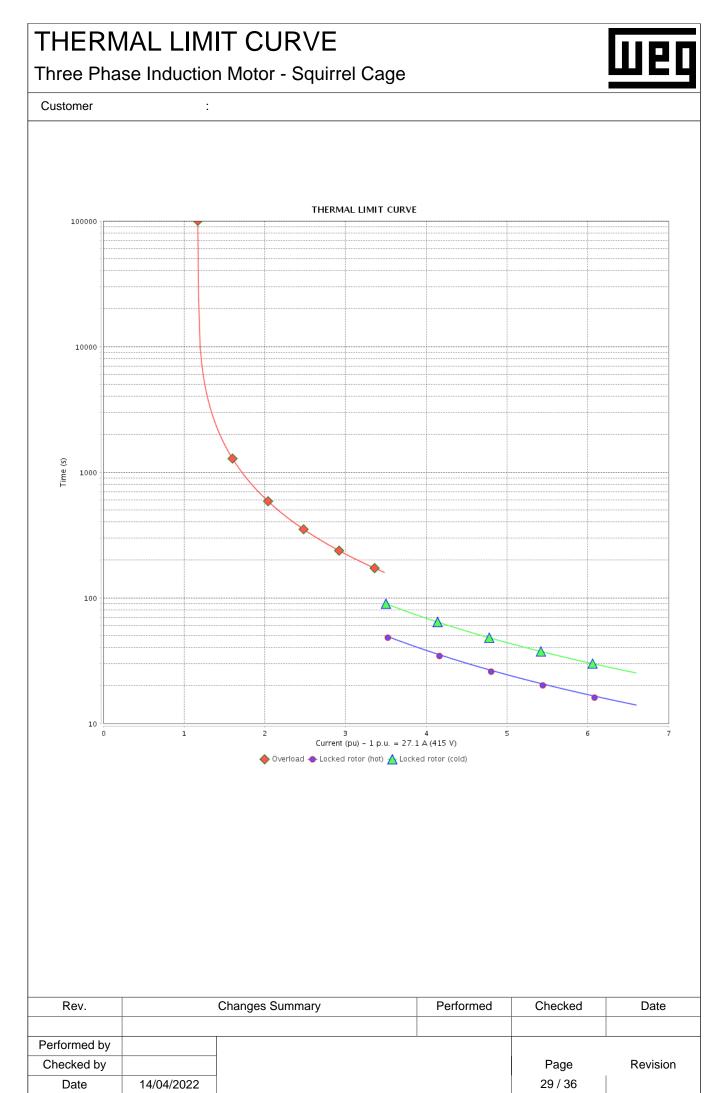
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Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11438008 02018ET3E256T-W22

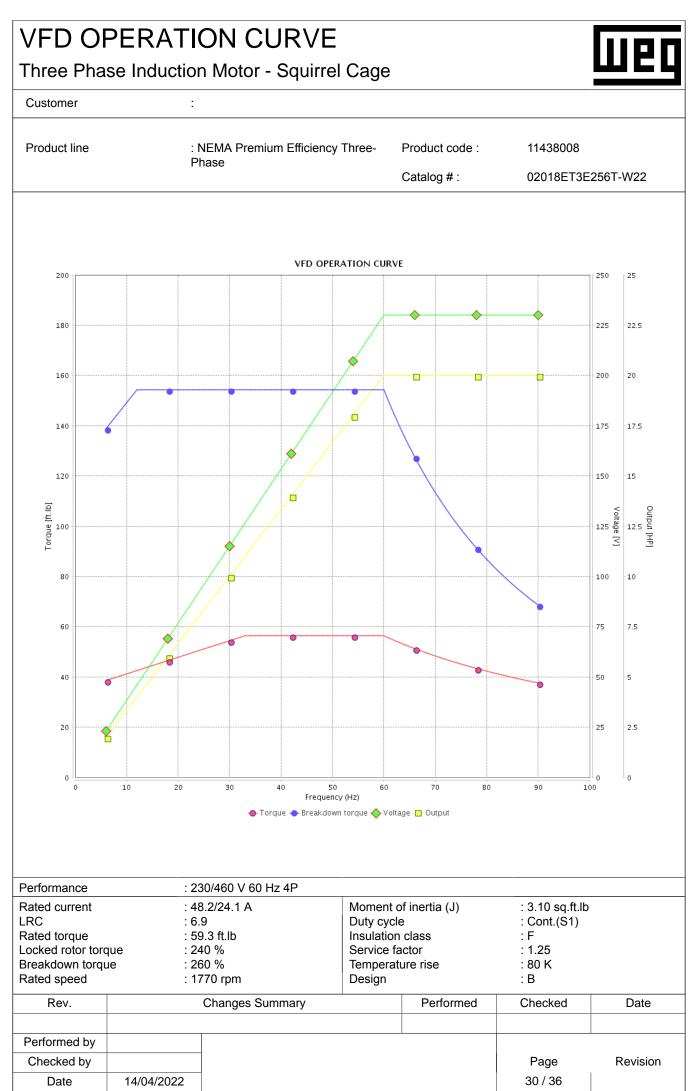
Performance : 400 V 50 Hz 4P IE2						
LRC: 6.1Rated torque: 71Locked rotor torque: 21Breakdown torque: 22		8.0 A .2 1.9 ft.lb 10 % 29 % 460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
Cooling constant	t					
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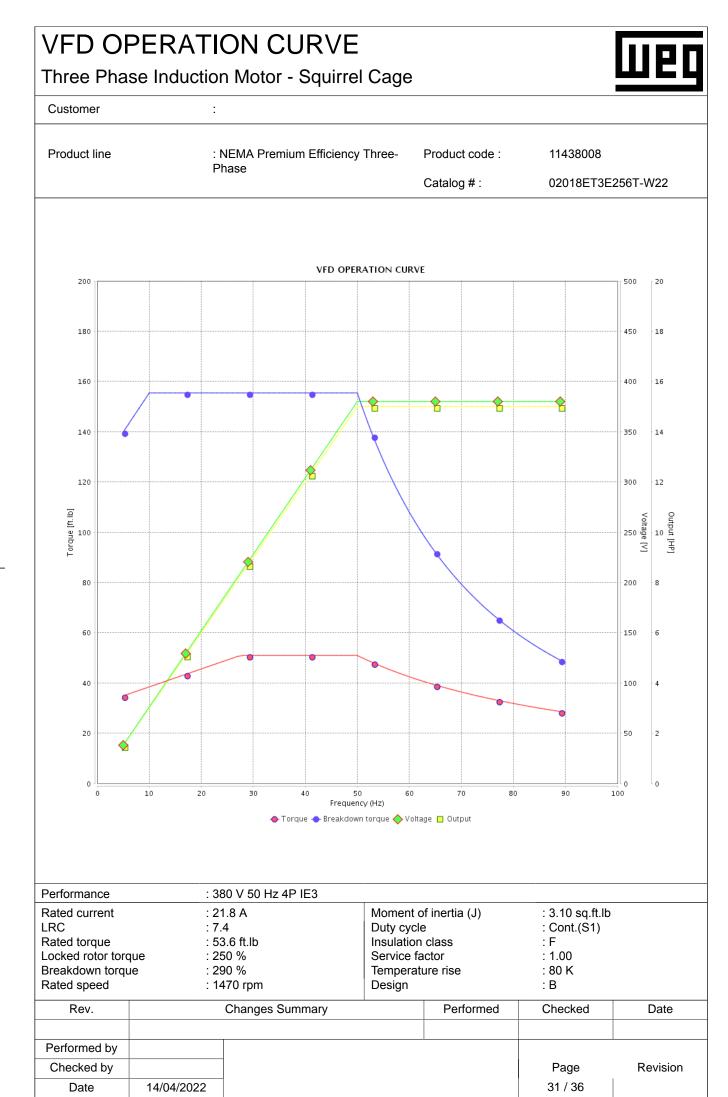


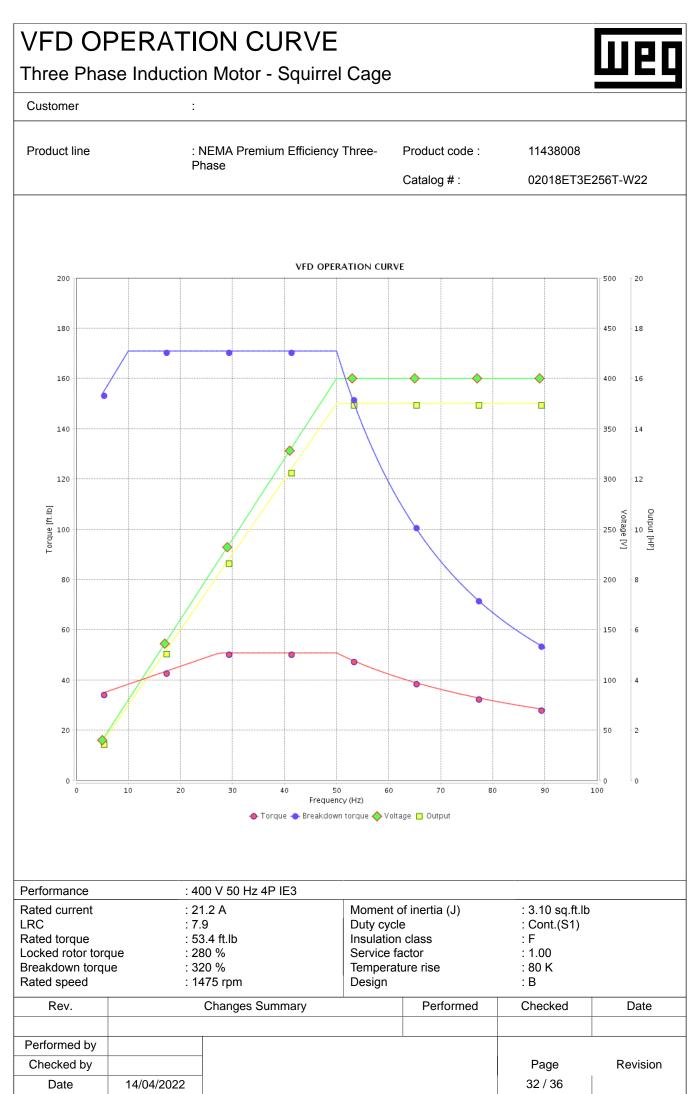
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Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11438008 02018ET3E256T-W22
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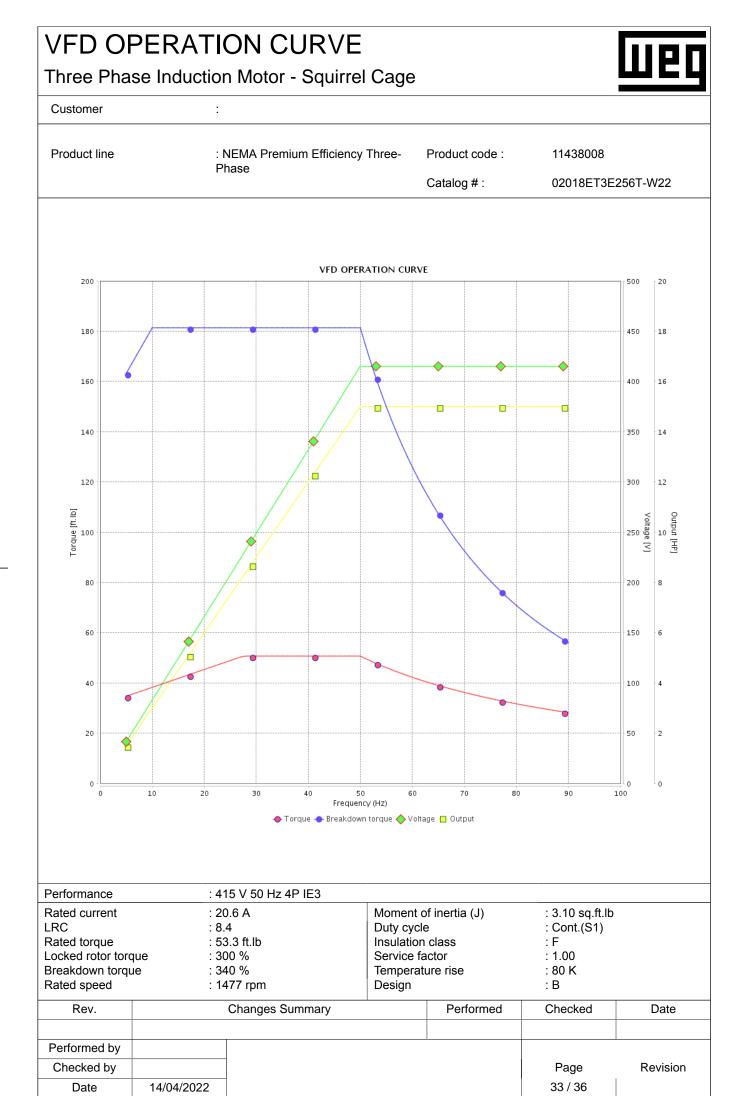
Performance	: 4	15 V 50 Hz 4P IE2				
Rated current: 27.1 ALRC: 6.6Rated torque: 71.7 ft.lbLocked rotor torque: 229 %Breakdown torque: 260 %Rated speed: 1465 rpm		.6 1.7 ft.lb 29 % 60 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.10 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
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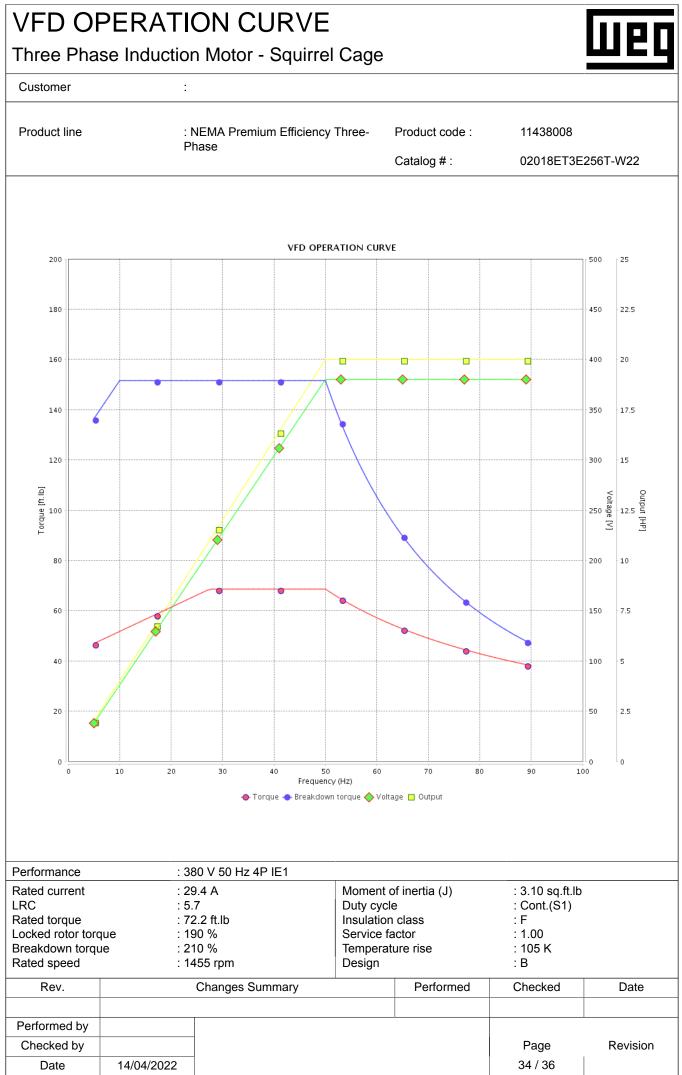


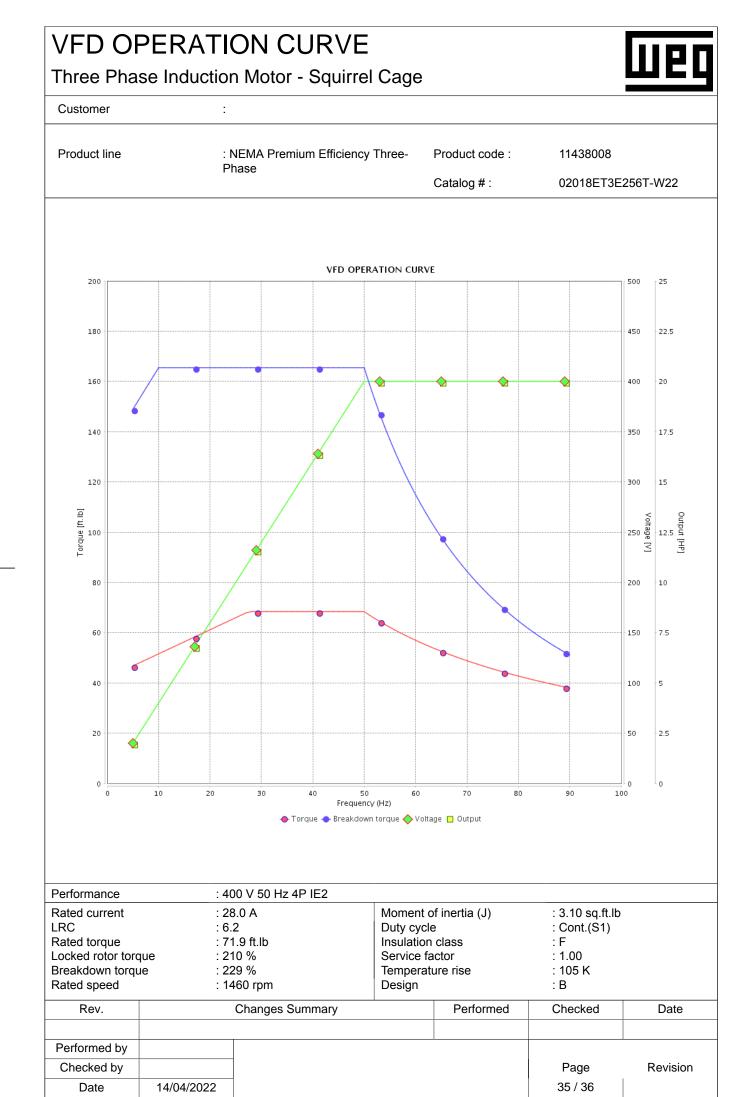


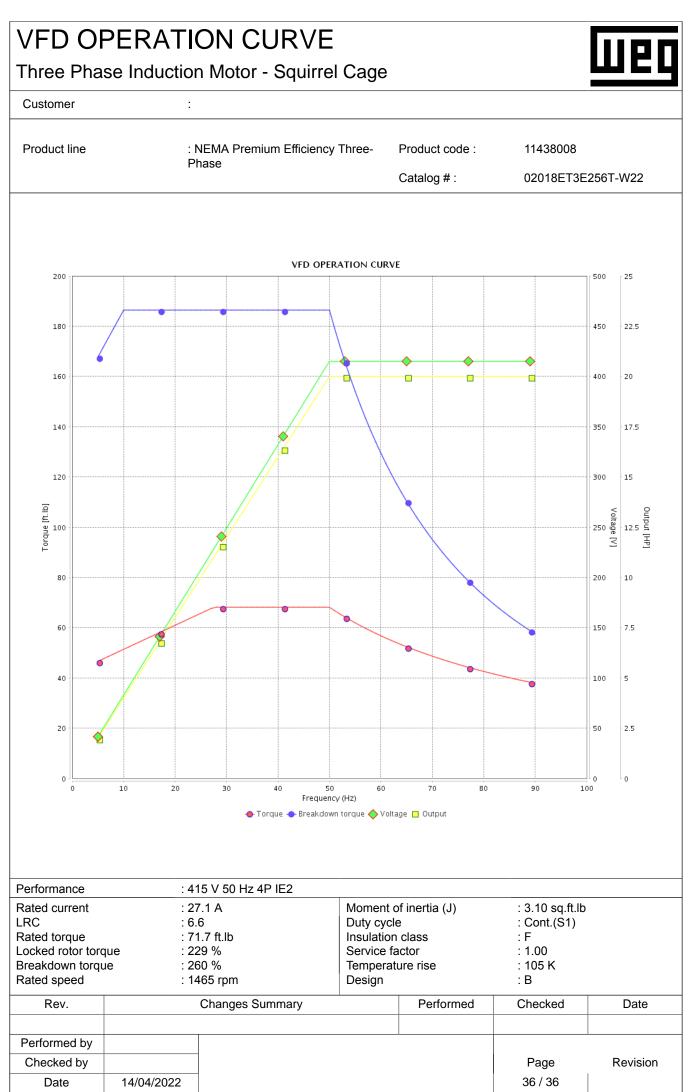


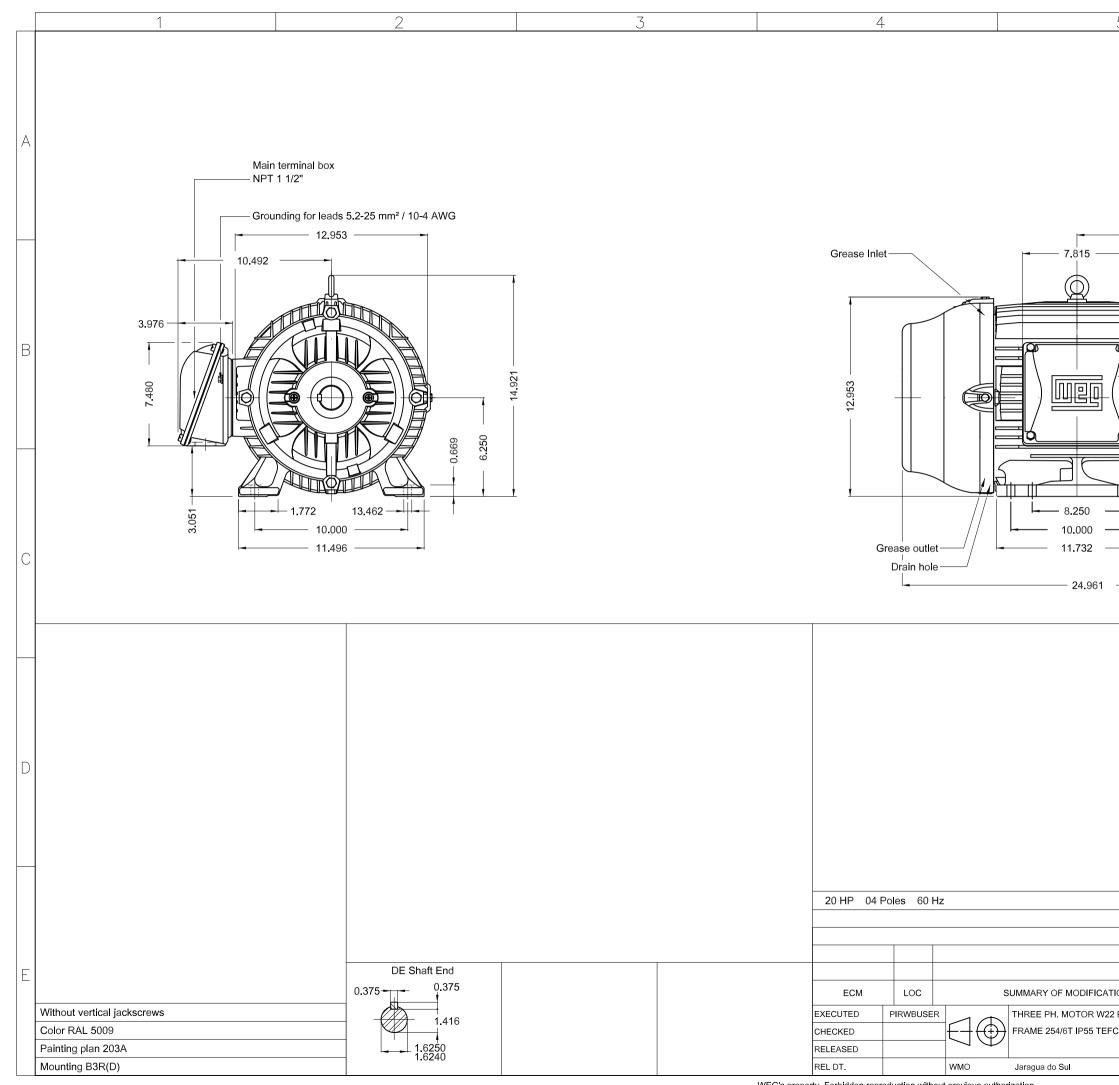












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