DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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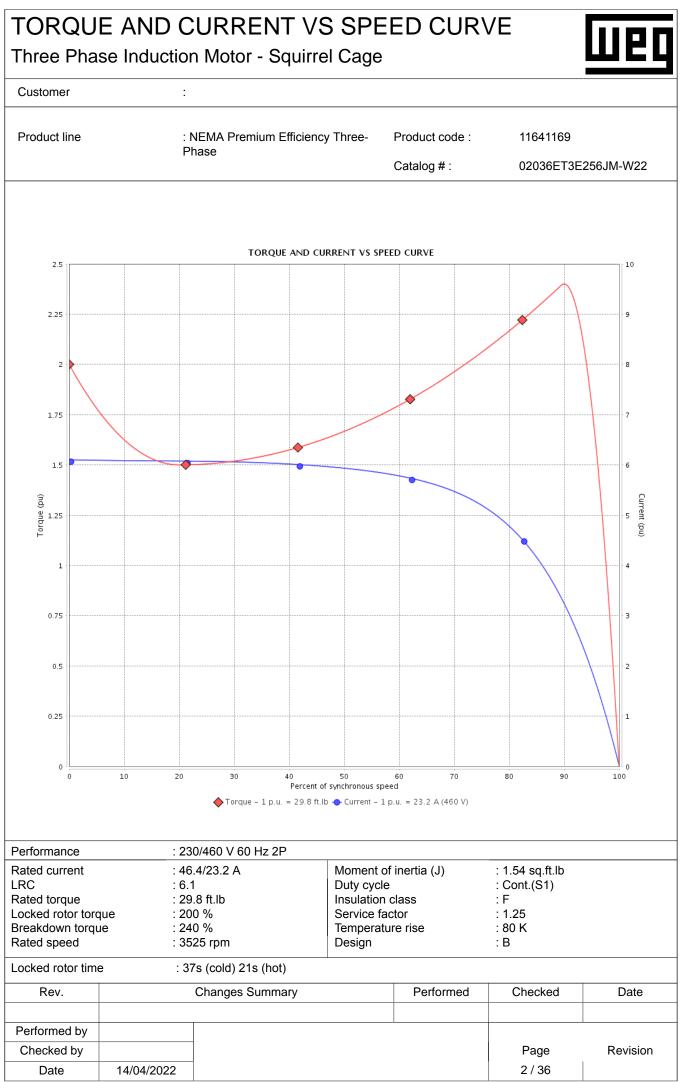
Customer

Product line		5			Product code :		11641169	
		Phase			Catalog # :	02	036ET3E256	JM-W22
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre		: 254/6JM : F : Cont.(S1) : -20°C to + : 1000 m.a.		Mounti Rotatio Startin Approx	on ¹ g method <. weight ³	: F : E : C : 3	C411 - TEFC F-1 Both (CW and Direct On Line B04 Ib	CCW)
Design	e	: IP55 : B		womer	nt of inertia (J))	.54 sq.ft.lb	
Output [HP]		20	15	15	15	20	20	20
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		46.4/23.2	20.4	19.6	19.1	28.9	27.2	26.2
R. Amperes [A] .RC [A]		283/142 6.1x(Code G)	141 6.9x(Code G)	151 7.7x(Code H)	155 8.1x(Code J)	147 5.1x(Code E)	155 5.7x(Code F)	160 6.1x(Code G)
No load current [A	1	13.0/6.50	6.20	6.60	6.90	6.20	6.60	6.90
Rated speed [RPN		3525	2935	2945	2950	2885	2905	2915
Slip [%]		2.08	2.17	1.83	1.67	3.83	3.17	2.83
Rated torque [ft.lb		29.8	26.9	26.8	26.8	36.3	36.2	36.0
_ocked rotor torqu		200	220	240	270	160	180	200
Breakdown torque	e [%]	240	260	280	310	190	210	229
Service factor		1.25 80 K	1.15 80 K	1.15 80 K	1.15 80 K	1.00 105 K	1.00 105 K	1.00 105 K
Temperature rise Locked rotor time		37s (cold) 21s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)	28s (cold) 16s (hot)
Noise level ²		72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)
	25%	91.4	90.2	90.2	89.5	93.3	92.1	92.2
Efficiency (0/)	50%	91.0	90.6	90.4	89.8	91.0	91.0	91.0
Efficiency (%)	75%	91.7	90.9	91.2	91.1	90.2	91.0	91.0
	100%	91.0	91.2	91.2	91.2	87.5	89.5	89.5
	25%	0.57	0.54	0.50	0.48	0.63	0.60	0.57
Power Factor	50%	0.82	0.78	0.75	0.73	0.86	0.84	0.82
	75% 100%	0.87	0.87	0.85 0.89	0.84	0.89 0.90	0.88	0.87 0.89
Bearing type Sealing Lubrication inter- Lubricant amour Lubricant type	val	Drive end 6309 C3 V'Ring 19000 h 13 g	Non drive 6209 (V'Rin	end Founda C3 Max. tra g Max. cc	tion loads	: 24	45 lb 49 lb	
Notes USABLE @208V This revision repl must be eliminate (1) Looking the m (2) Measured at 1	aces and car ed. totor from the 1m and with t weight subject	ncel the previo e shaft end. tolerance of +3	us one, which dB(A).				on tests with sinces stipulated	
(3) Approximate w manufacturing pro		Changes	Summary		Performe	ed Che	ecked	Date
(3) Approximate v manufacturing pr (4) At 100% of ful Rev.		Changes	Summary		Performe	ed Che	ecked	Date
 (3) Approximate v manufacturing pro (4) At 100% of ful 		Changes	Summary		Performe		age	Date

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 Date
 14/04/2022
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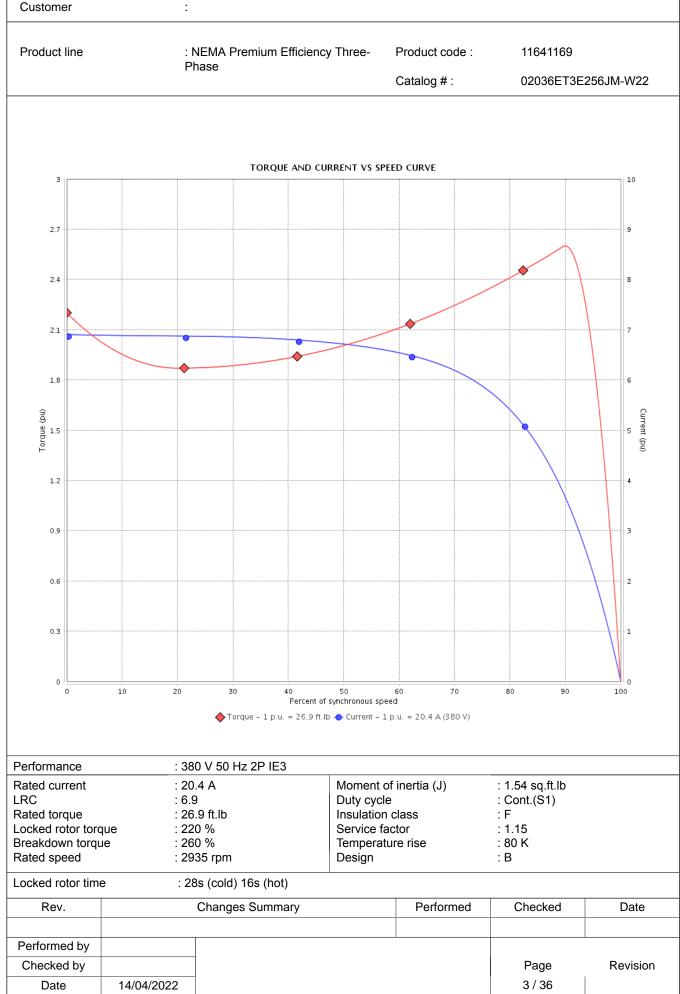
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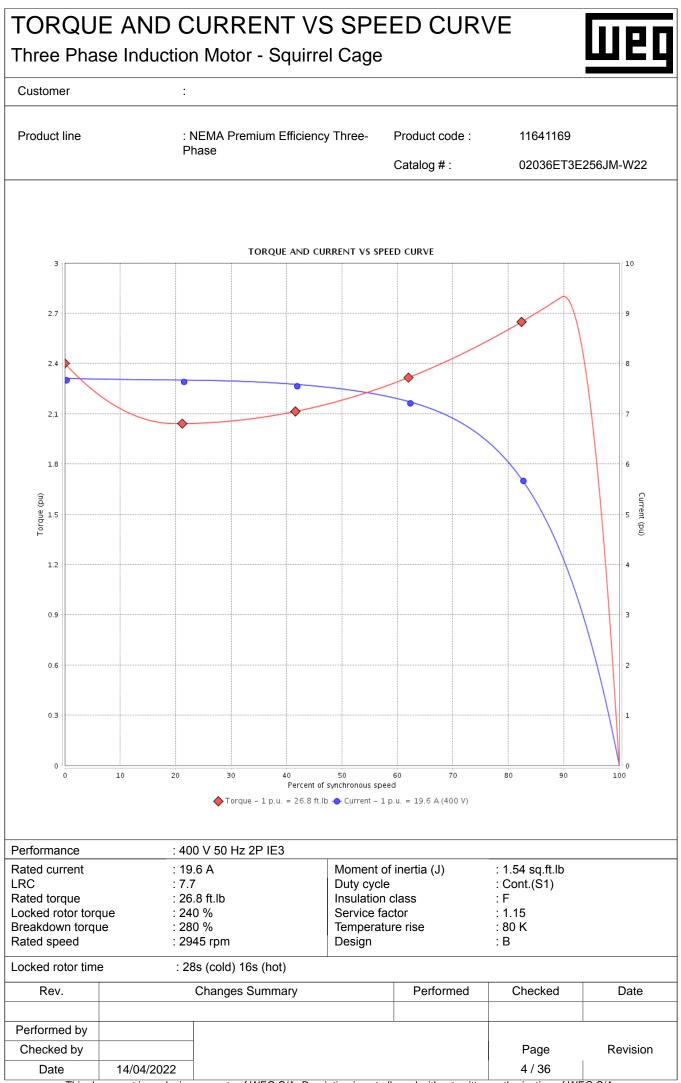
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



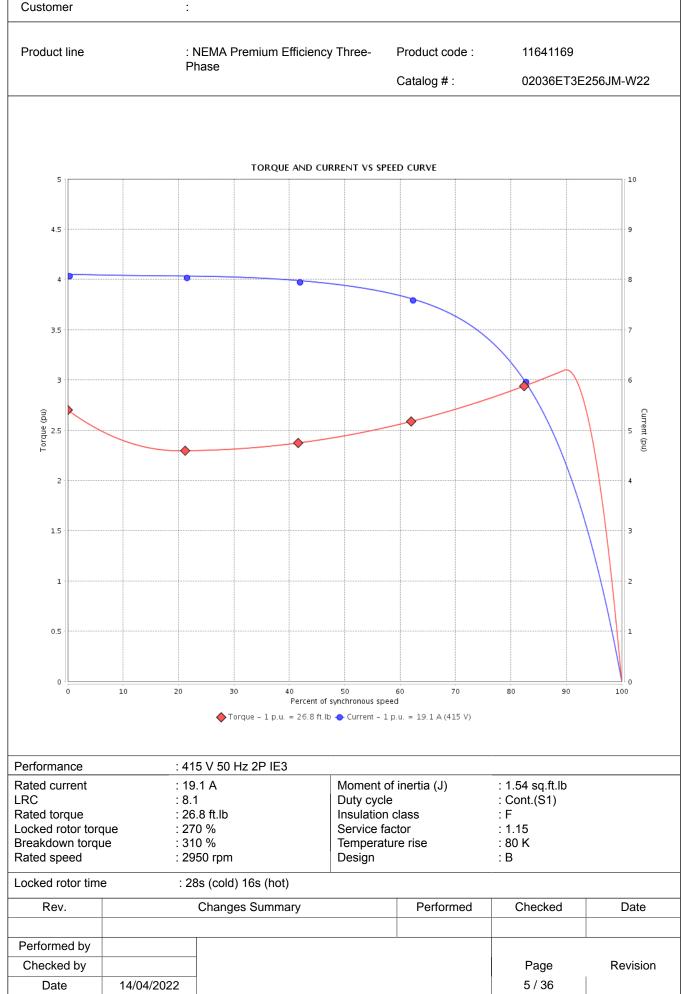
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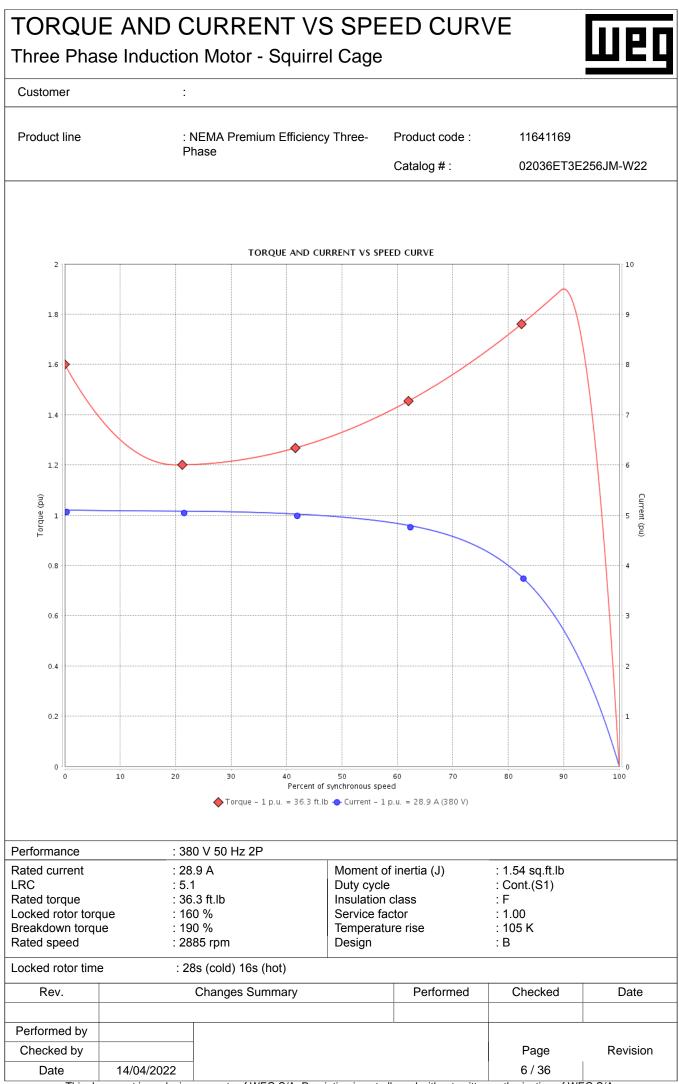
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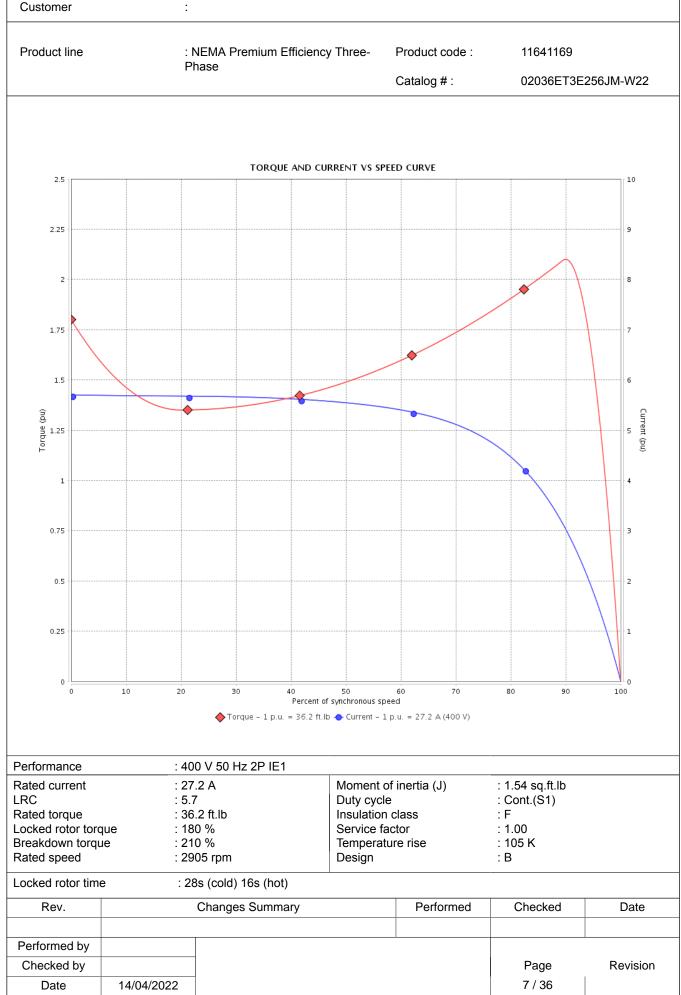
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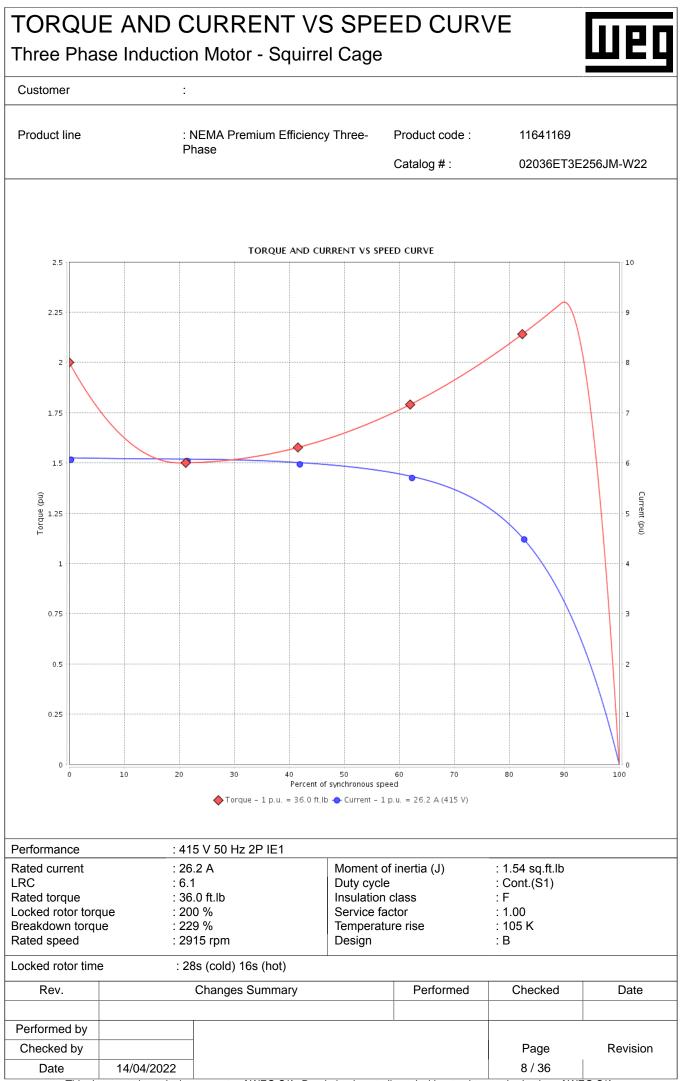
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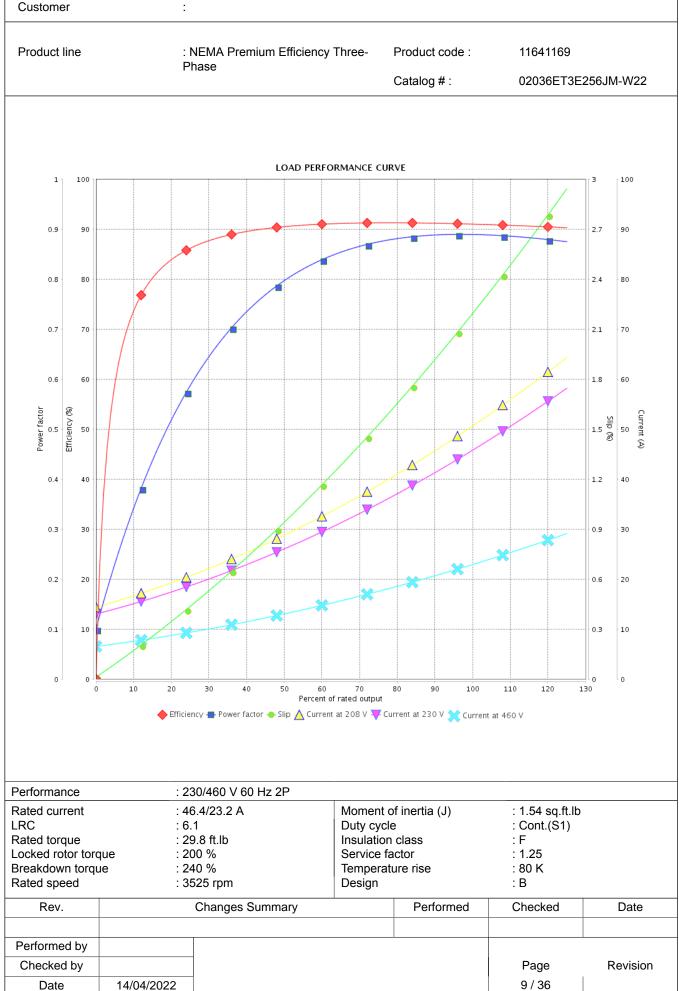


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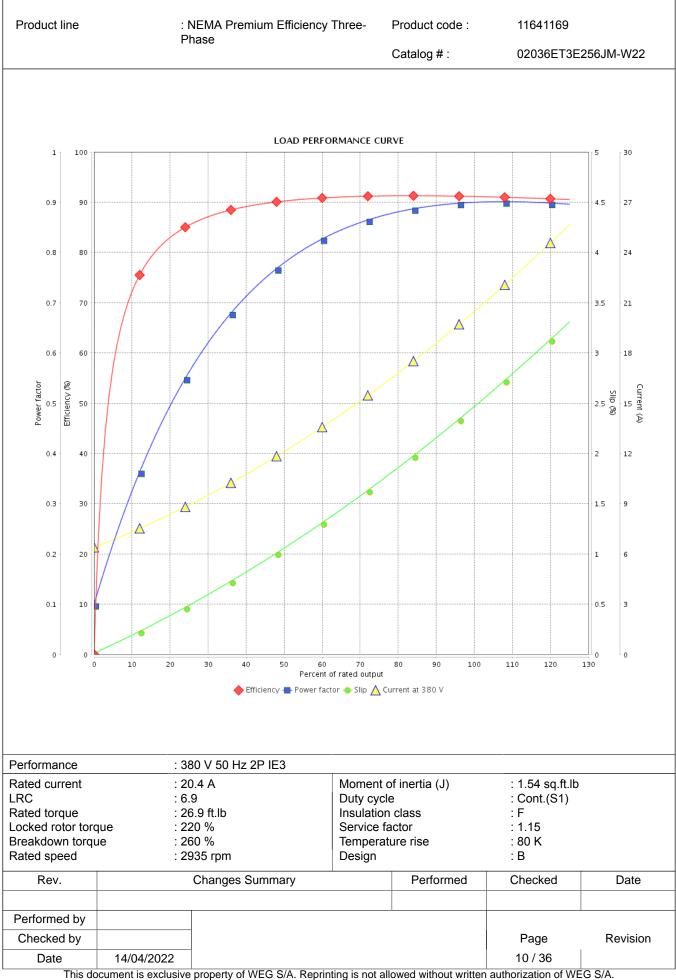
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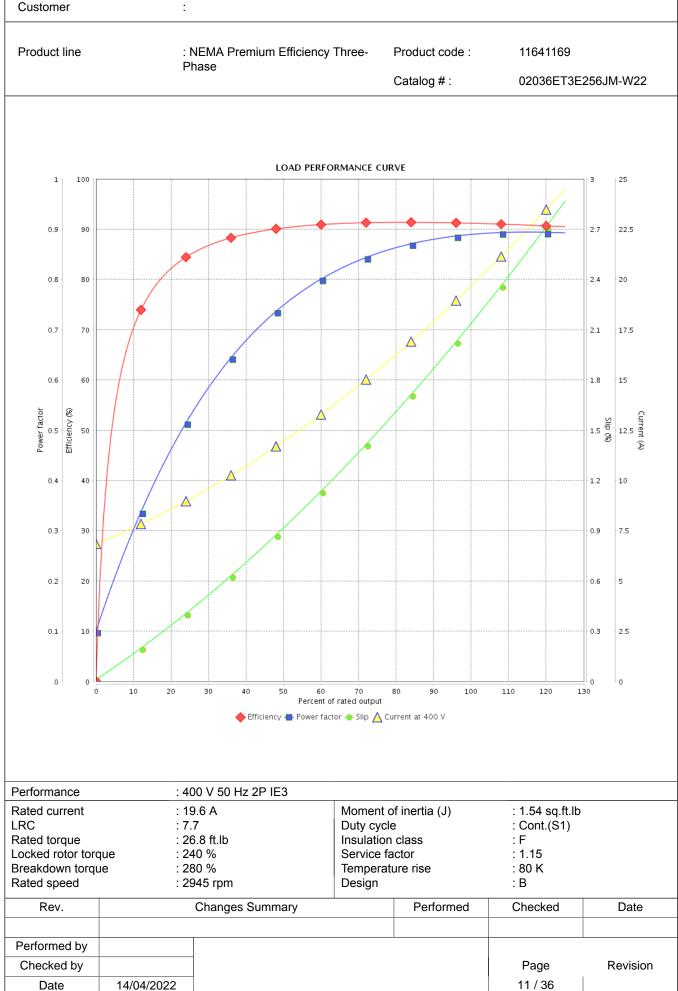


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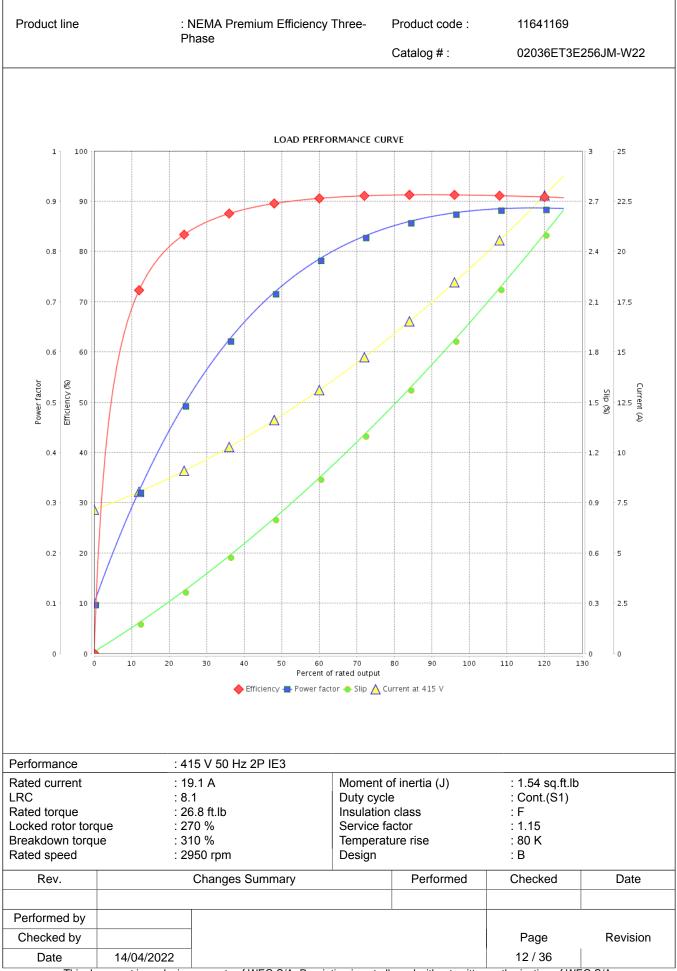
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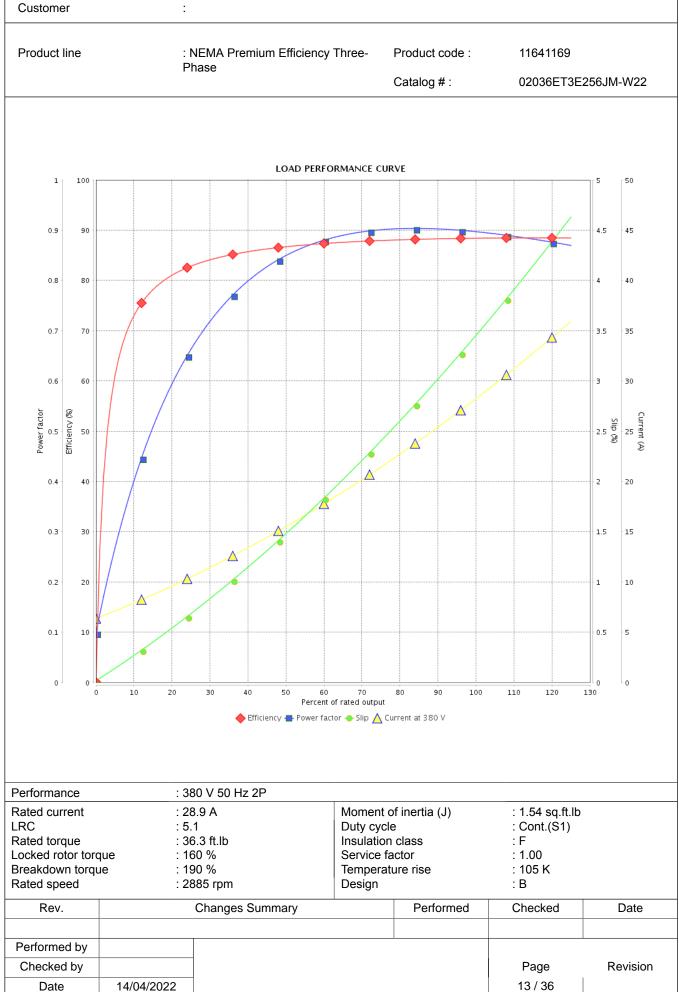


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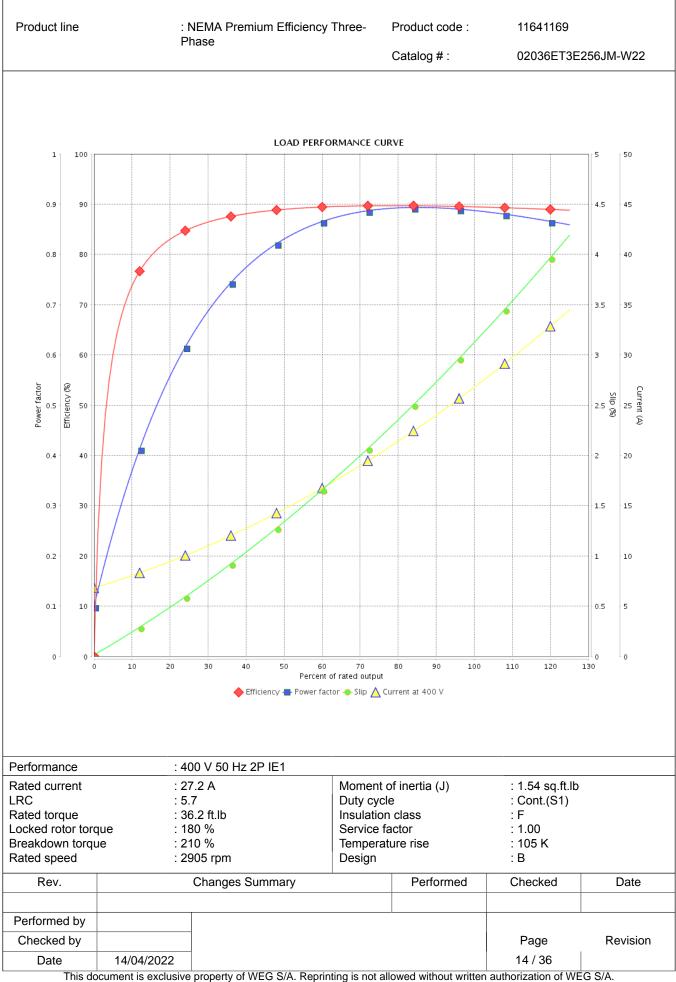
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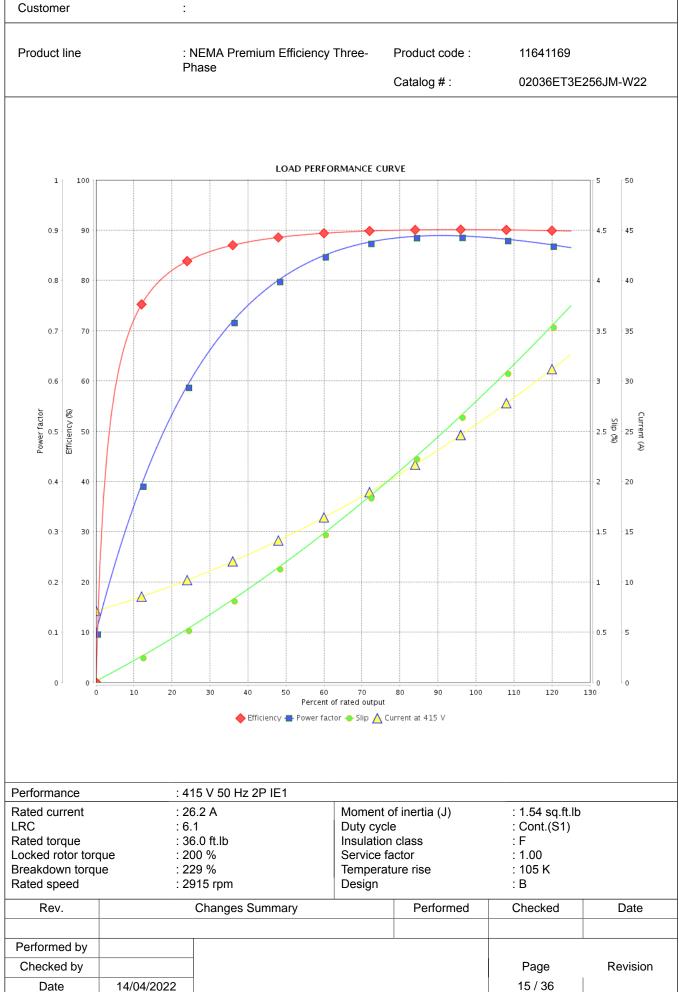


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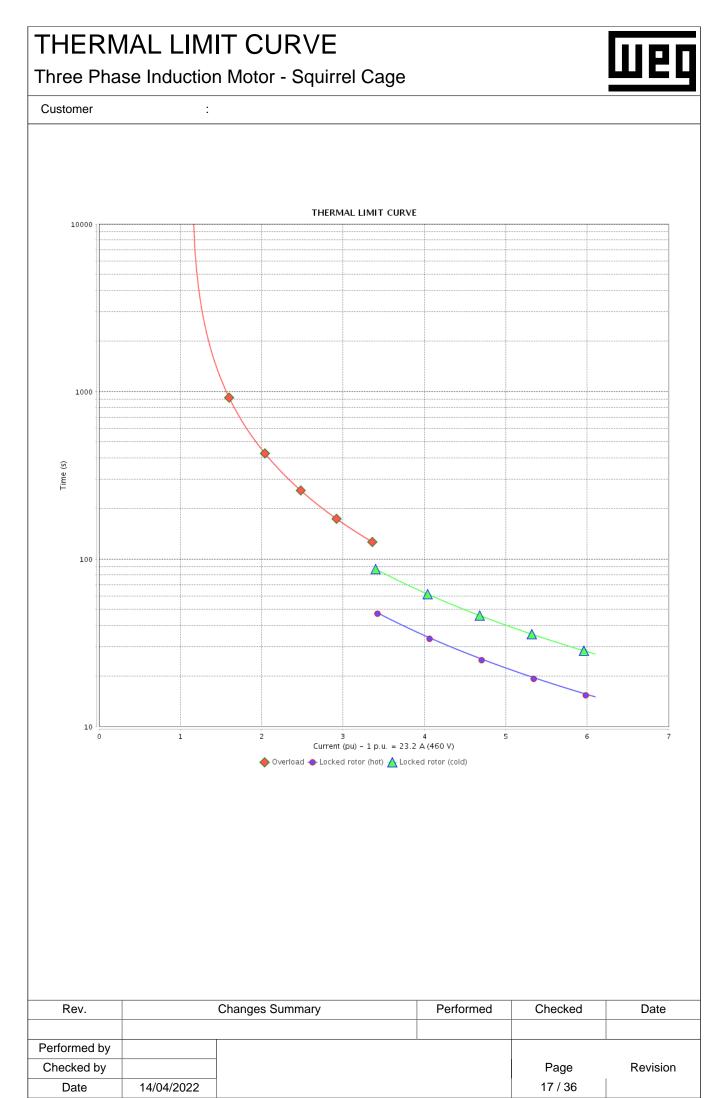
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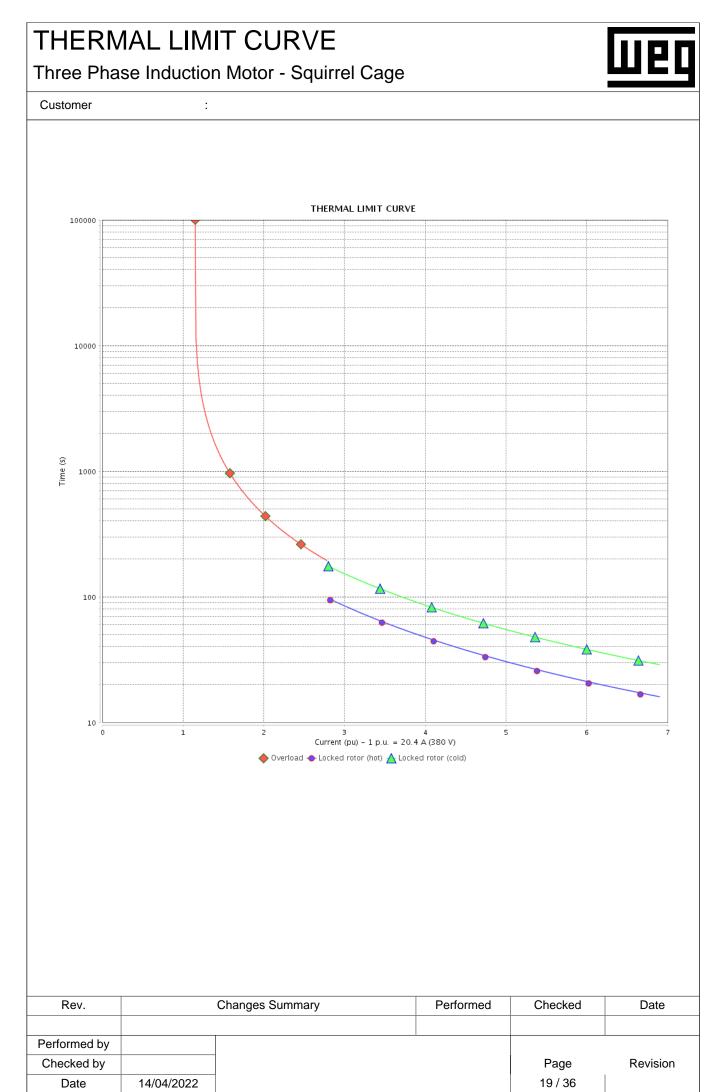
ustomer	:		
roduct line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11641169 02036ET3E256JM-W22

Performance	: 23	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 29 que : 20 ue : 24	5.4/23.2 A 1 9.8 ft.lb 00 % 40 % 525 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.54 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constan	t					
Cooling constan	t					
Rev.		Changes Summary		Performed	Checked	Date
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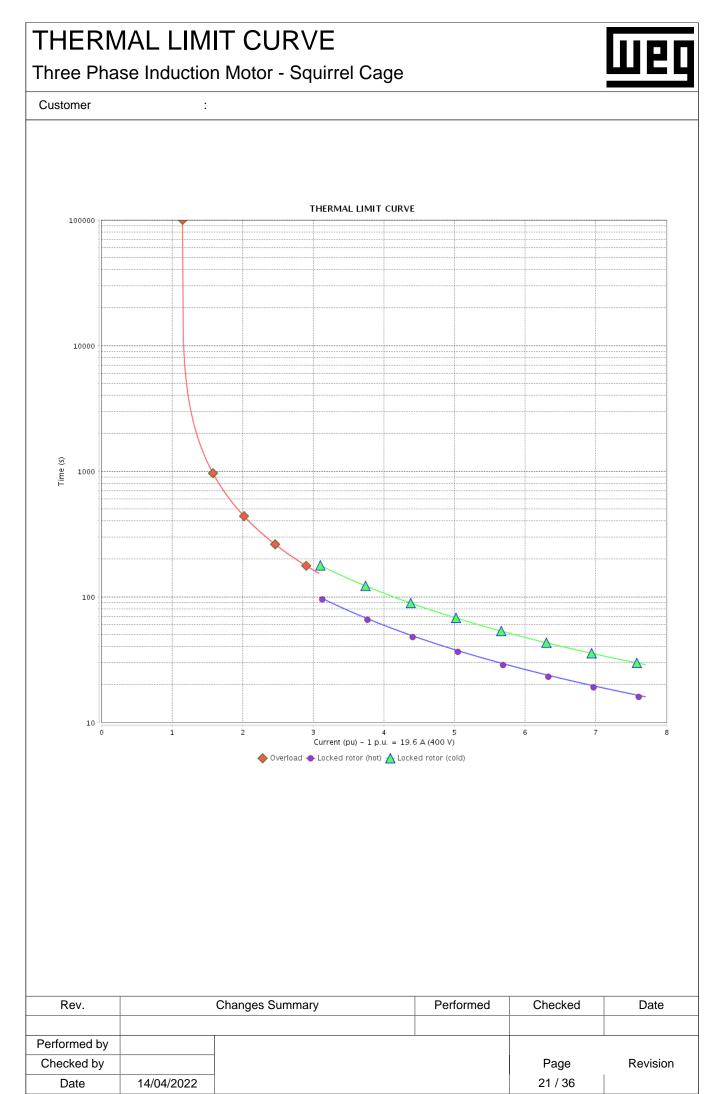
	LIMIT CURVE		
	nduction Motor - Squirrel Ca	ge	шес
Customer	:	-	
Product line	: NEMA Premium Efficiency Three Phase	- Product code : Catalog # :	11641169 02036ET3E256JM-W22
Performance	: 380 V 50 Hz 2P IE3		
Rated current LRC	: 20.4 A Morr : 6.9 Duty	ent of inertia (J) cycle	: 1.54 sq.ft.lb : Cont.(S1)

Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6. : 26 que : 22 ue : 26	0.4 A 9 5.9 ft.lb 20 % 60 % 935 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.54 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
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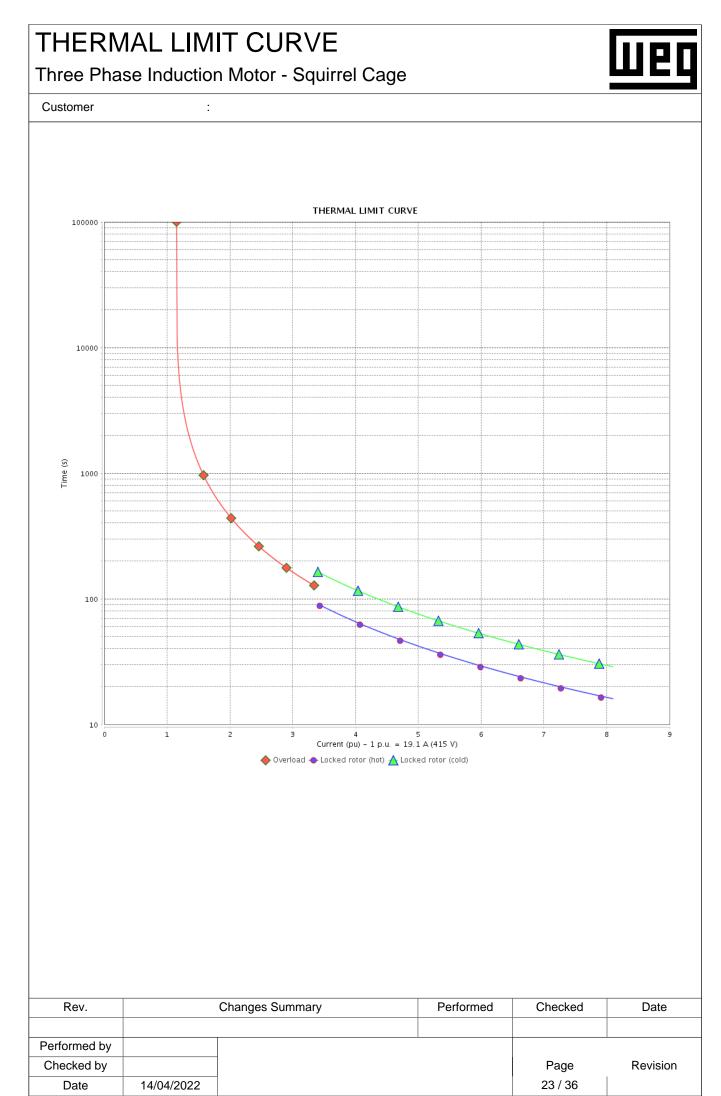
	LIMIT CURVE		Ше
Customer			
Product line	: NEMA Premium Efficiency Thre Phase	e- Product code : Catalog # :	11641169 02036ET3E256JM-W22
erformance	: 400 V 50 Hz 2P IE3		
ated current RC	: 19.6 A Mo : 7.7 Du	ment of inertia (J) ty cycle	: 1.54 sq.ft.lb : Cont.(S1)

Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	: 7. : 26 jue : 24 ie : 28	9.6 A 7 5.8 ft.lb 40 % 30 % 945 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 1.54 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	:					
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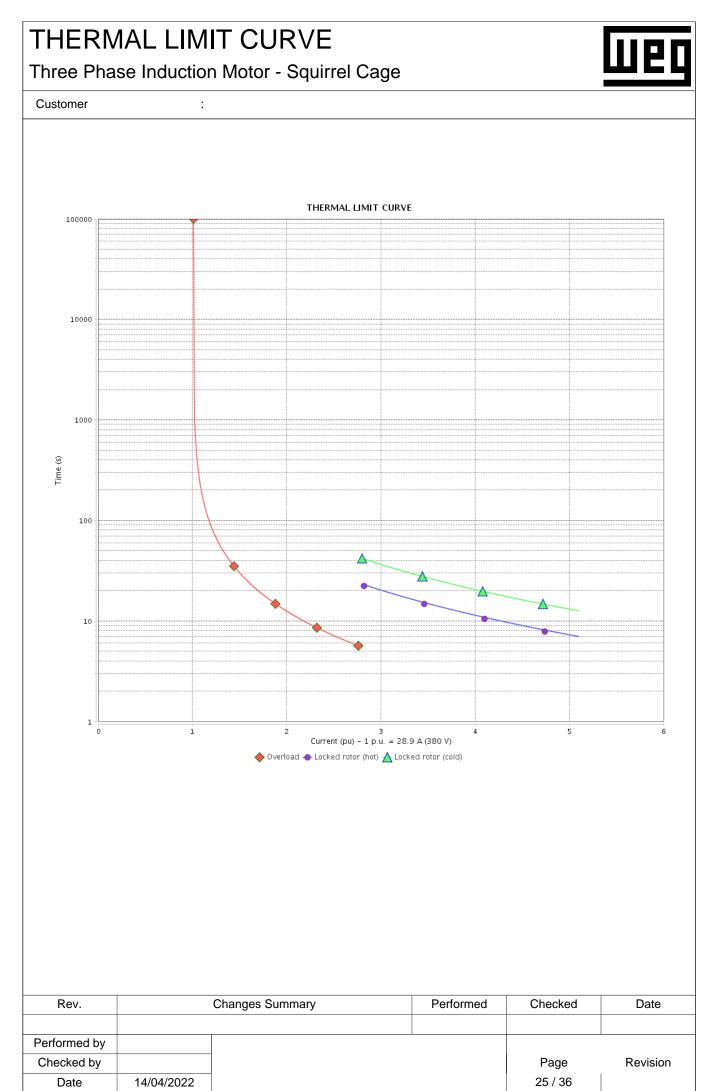
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	LIMIT CURVE		шер
Three Phase Inc	duction Motor - Squirrel Cag	e	
Customer	:		
Product line	: NEMA Premium Efficiency Three-	Product code :	11641169
	Phase	Catalog # :	02036ET3E256JM-W22
Performance	: 415 V 50 Hz 2P IE3		
Rated current LRC Pated torgue	: 8.1 Duty o	nt of inertia (J) cycle tion class	: 1.54 sq.ft.lb : Cont.(S1) : F
Rated torque	. 20.8 ILID INSUIA	uon class	. F

LRC	: 8	: 8.1 Duty cy		Э	: Cont.(S1)	
Rated torque	:2	26.8 ft.lb	Insulation	class	: F	
Locked rotor tore	que :2	270 %	Service fa	actor	: 1.15	
Breakdown torqu	ie :3	310 %	Temperat	ure rise	: 80 K	
Rated speed	. 2	2950 rpm	Design			
Heating constant	t					
Cooling constant	t					
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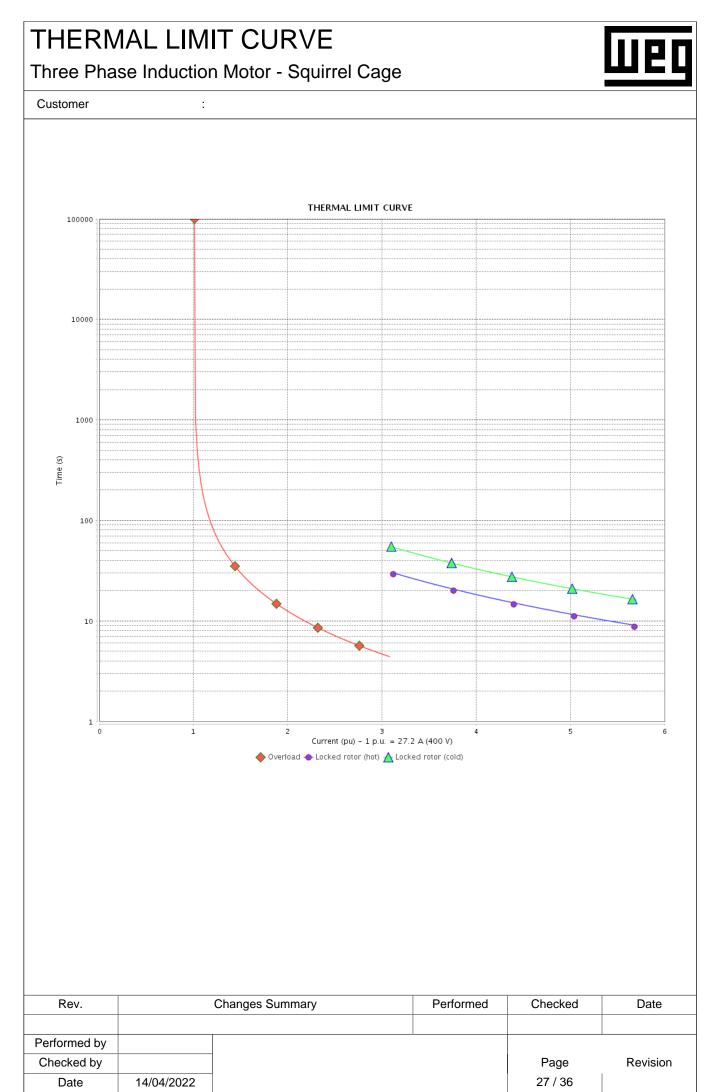
THERMAL	LIMIT CURVE		
	duction Motor - Squirrel Cage	9	Шес
Customer	:		
Product line	: NEMA Premium Efficiency Three-	Product code :	11641169
	Phase	Catalog # :	02036ET3E256JM-W22
Performance	: 380 V 50 Hz 2P	at of inertia (I)	· 1.54 so ft lb

Performance	: 3	80 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 5 : 3 que : 1 ue : 1	8.9 A Moment of inertia (J)		: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
Heating constant	t					
Cooling constant	t					
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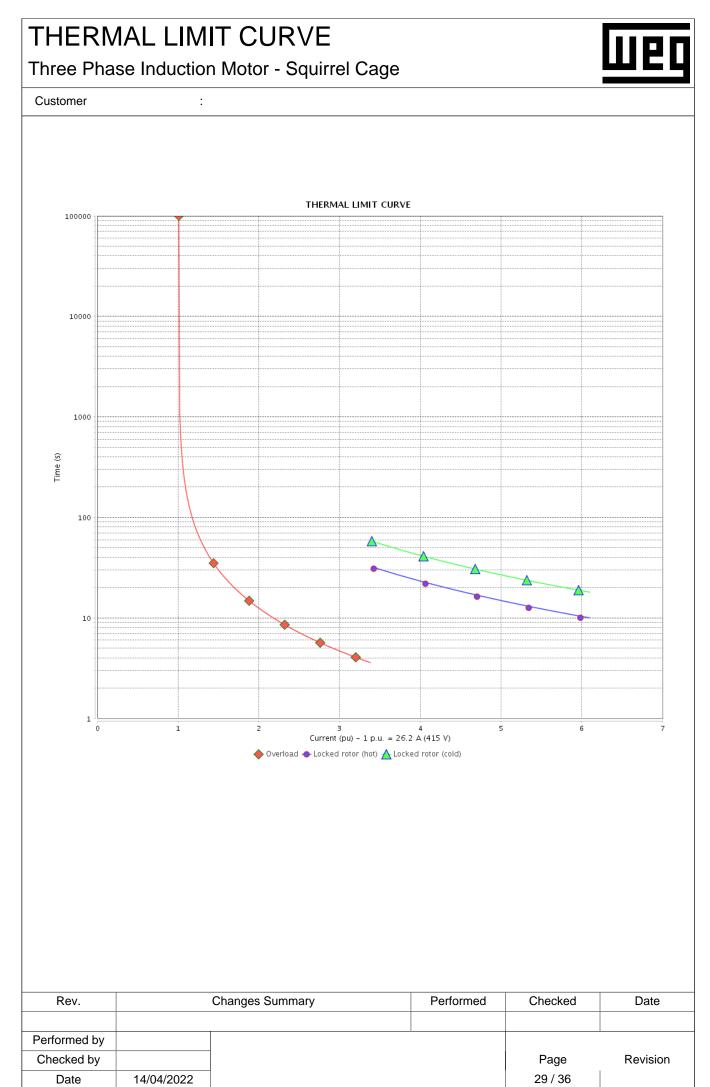
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer						
	·					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11641169			
		Catalog # :	02036ET3E256JM-W22			
Performance	: 400 V 50 Hz 2P IE1					

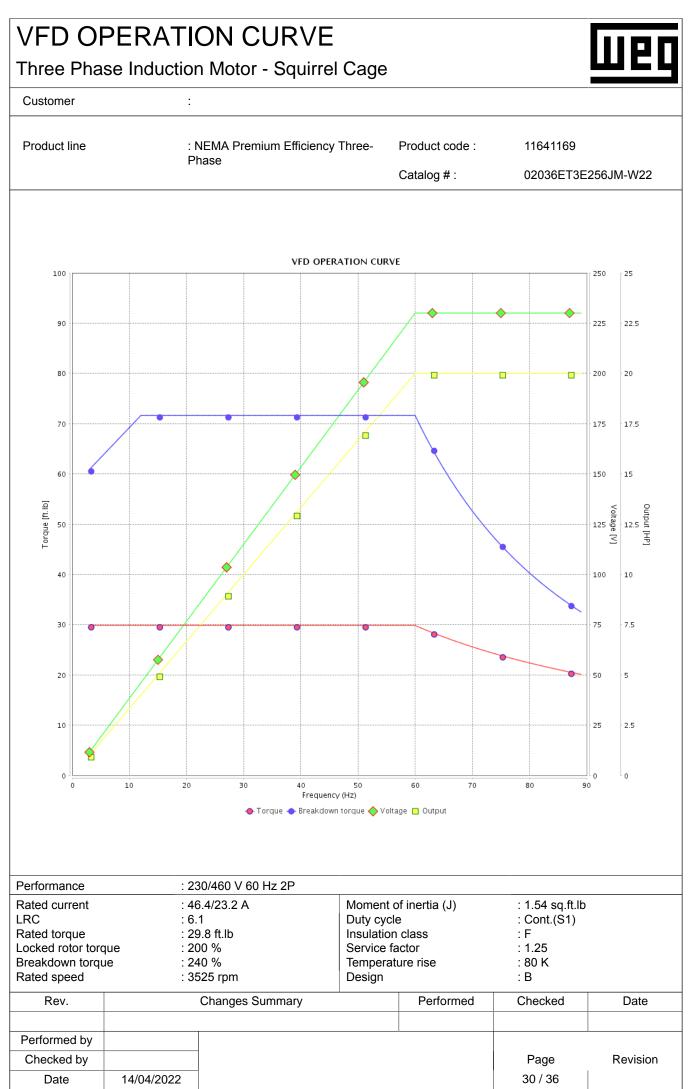
Periormance	. 4	00 V 50 HZ 2P IE I				
Rated current: 27.2 ALRC: 5.7Rated torque: 36.2 ft.lbLocked rotor torque: 180 %Breakdown torque: 210 %Rated speed: 2905 rpm		.7 6.2 ft.lb 80 % 10 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t				·	
Cooling constant	t					
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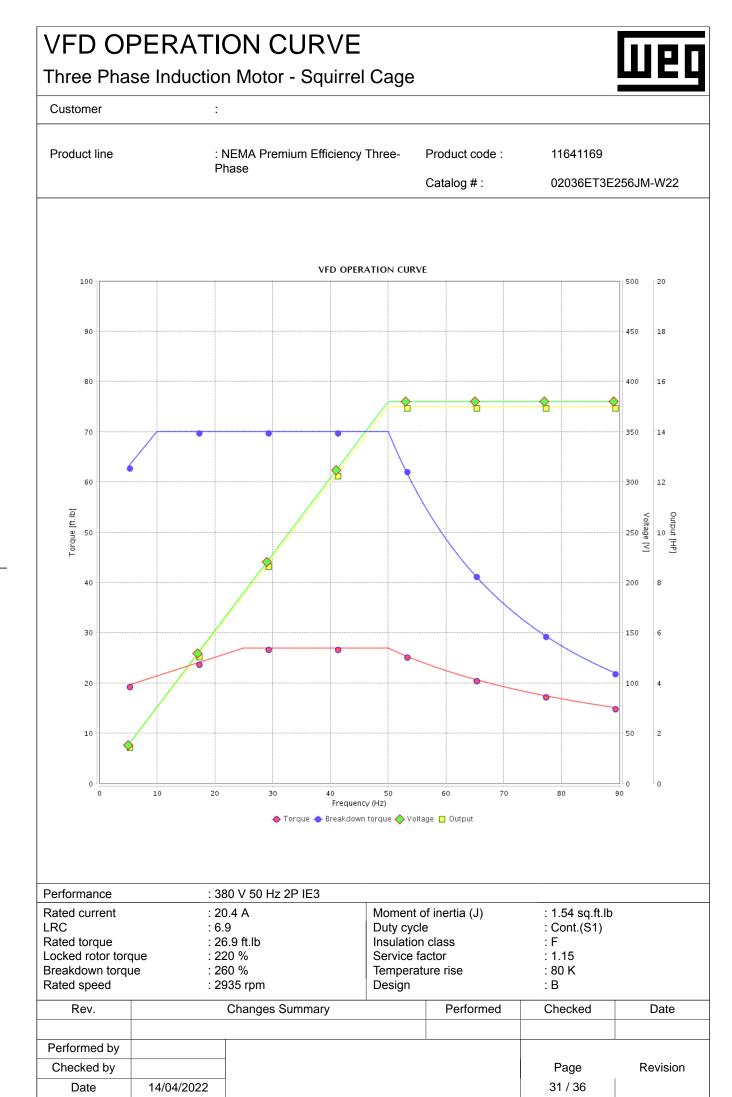


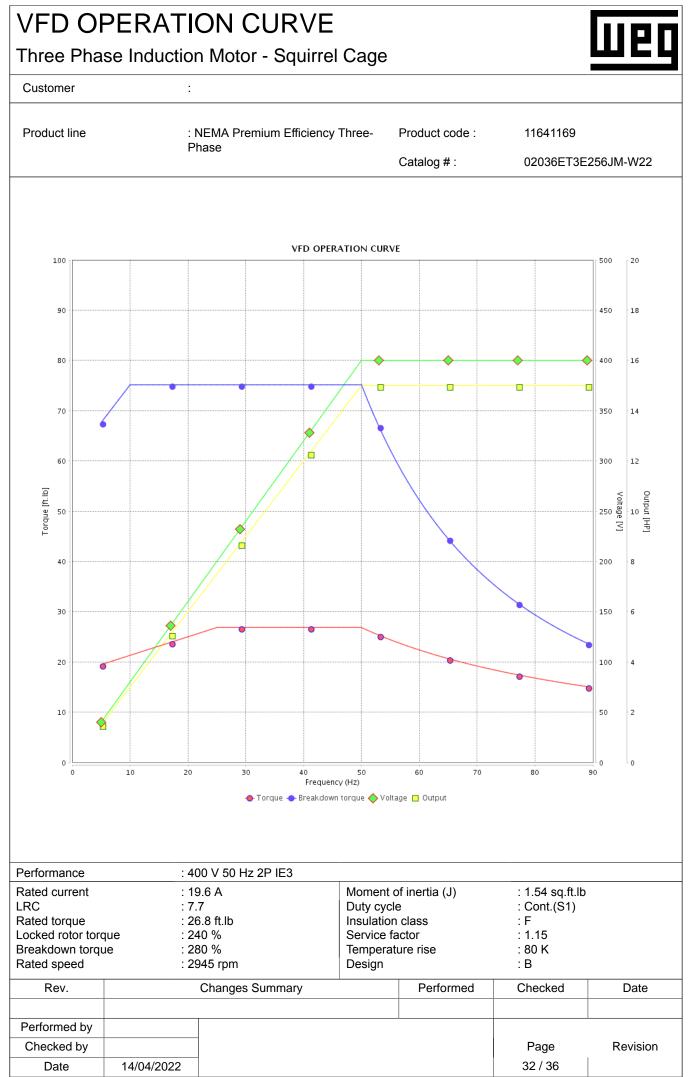
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11641169 02036ET3E256JM-W22

Performance	: 4	15 V 50 Hz 2P IE1				
Rated current: 26.2 ALRC: 6.1Rated torque: 36.0 ft.lbLocked rotor torque: 200 %Breakdown torque: 229 %Rated speed: 2915 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.54 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
Heating constan	t					
Cooling constant	t					
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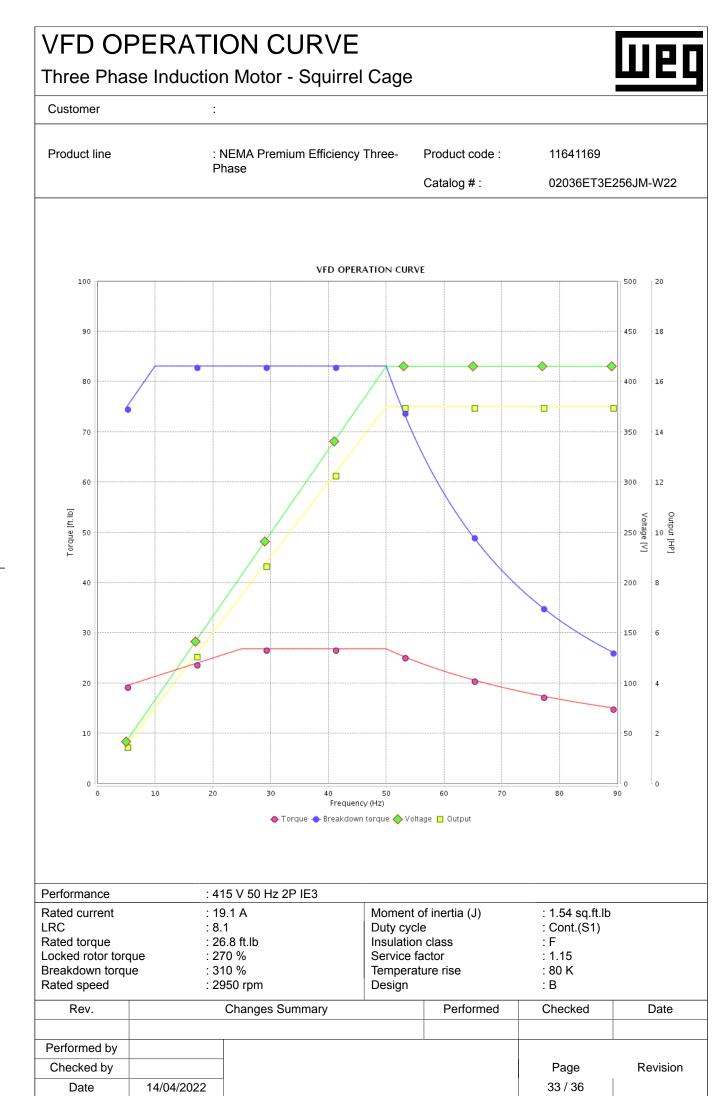


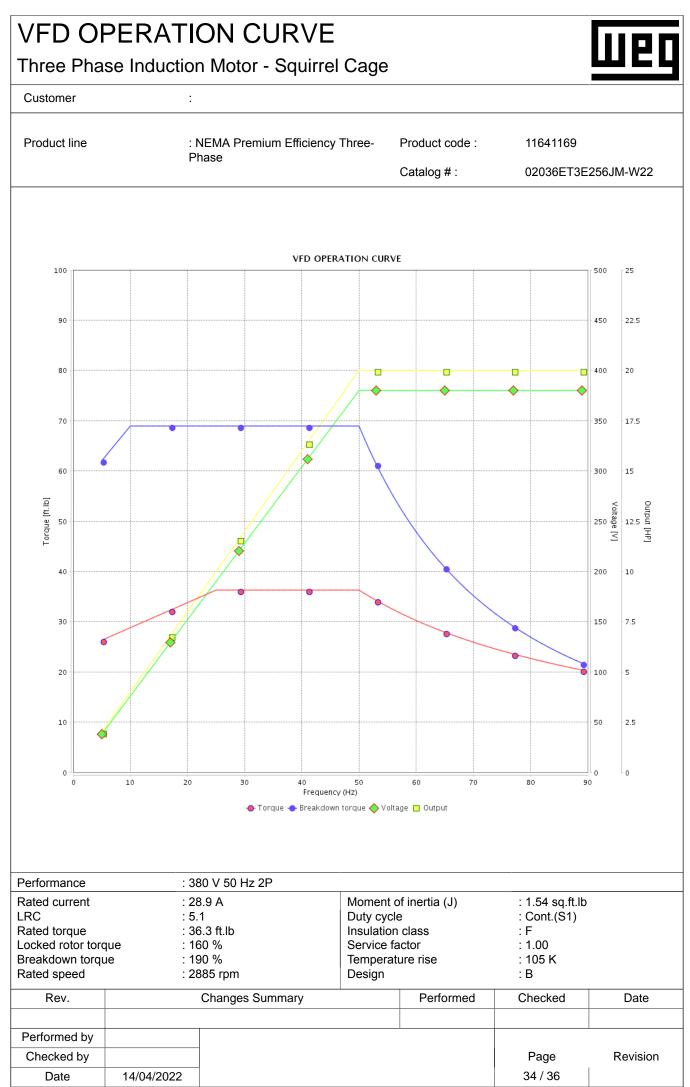


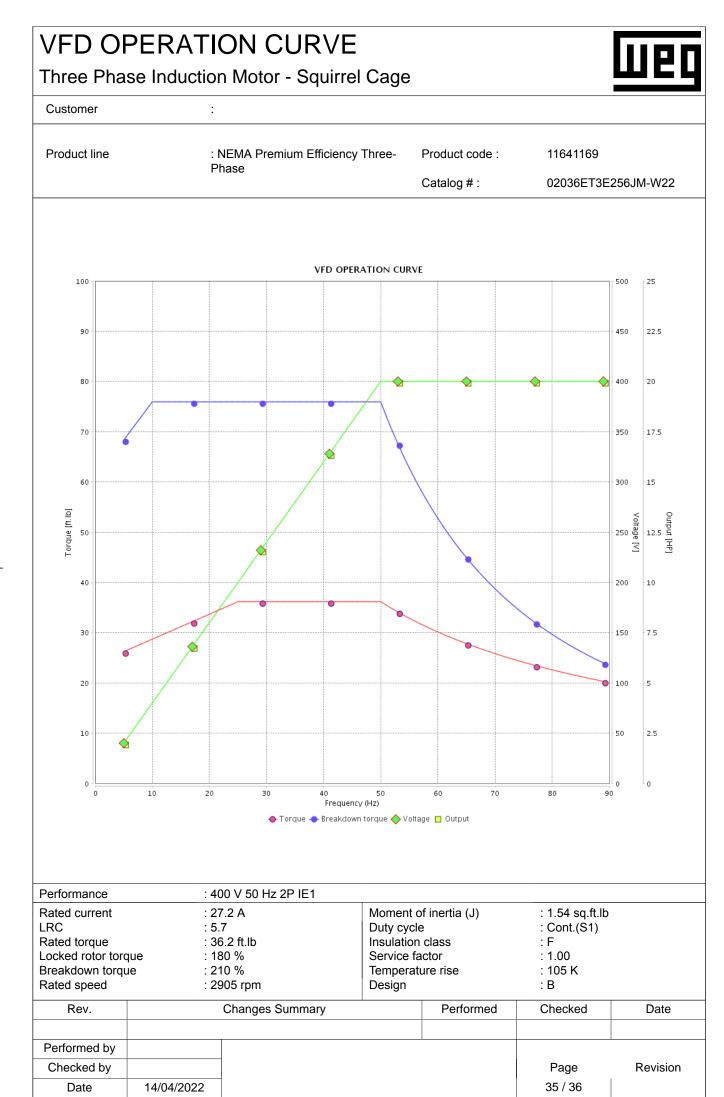


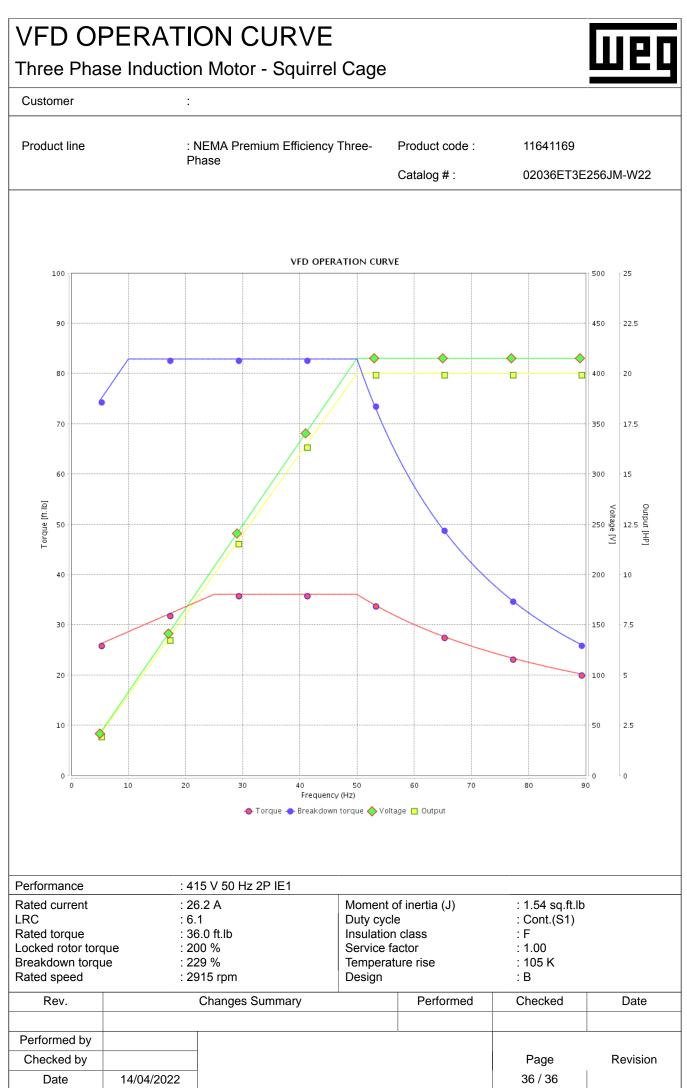


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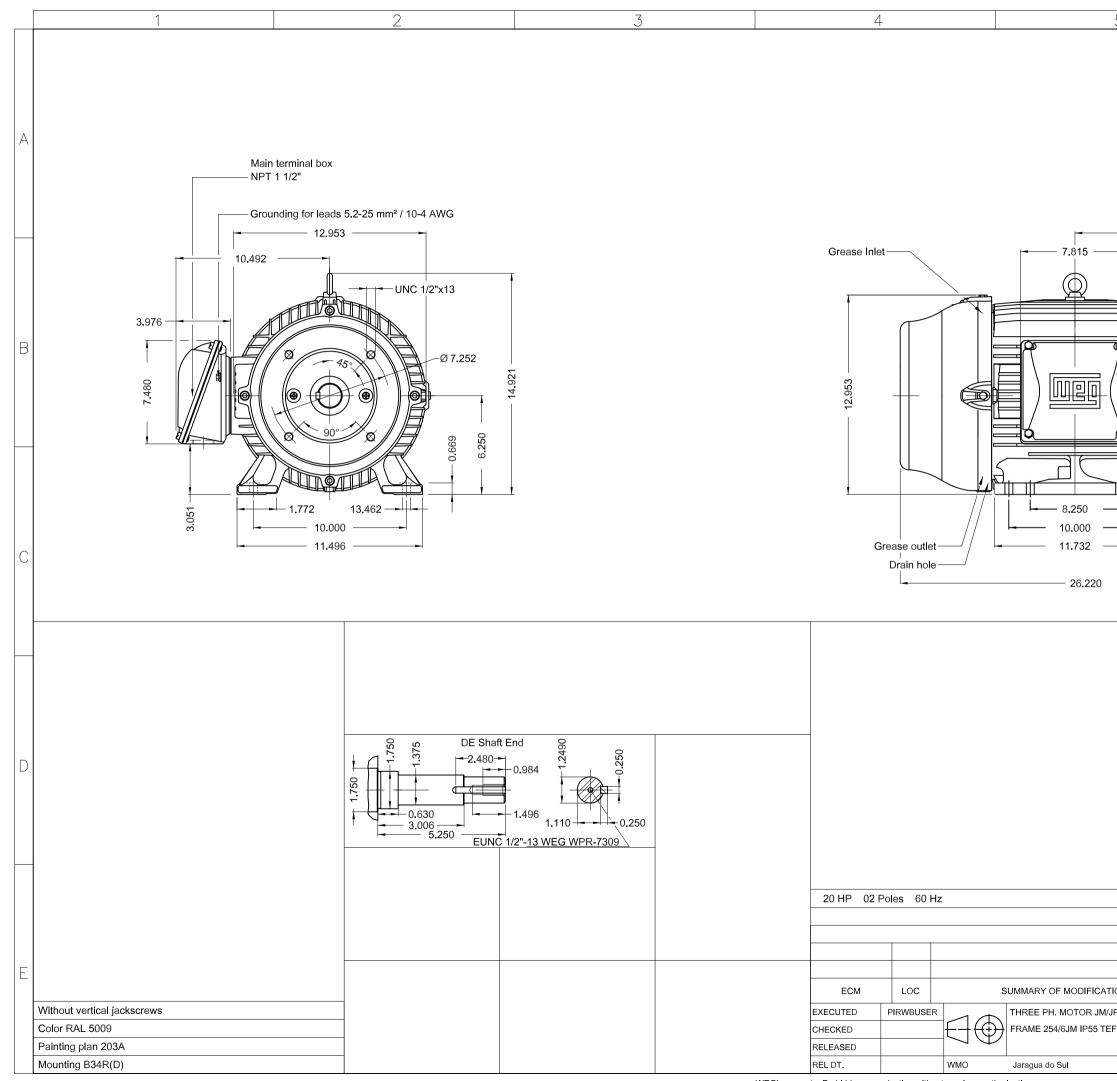








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		EXECUTED	5.250 Grease outlet Drain hole				Dimensions in inches
		REM. EFF.	PREVI	EW			
X		t Engineering	WDD		ШВ	9	XME A3
	Produc	c Engineering		· / ·			×