DATA SHEET

Three Phase Induction Motor - Squirrel Cage

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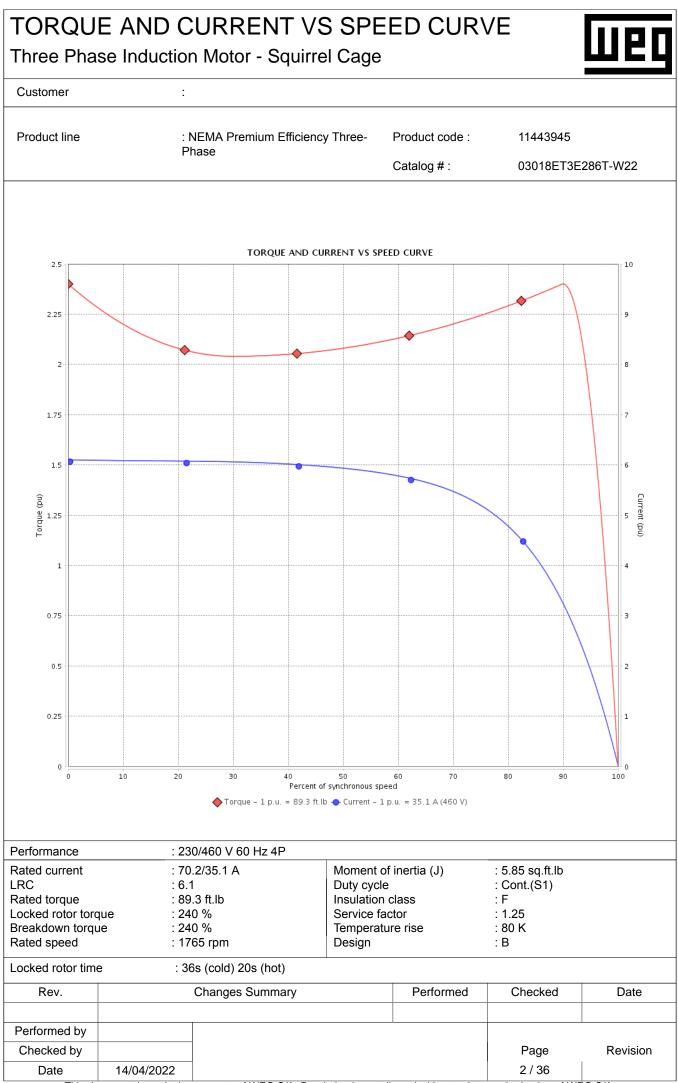
Customer

Product line		: NEMA Premium Efficiency Three- Phase			Product code :		11443945	
					Catalog # :	03	3018ET3E286	T-W22
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 284/6T : F : Cont.(S1) : -20°C to + : 1000 m.a.s : IP55 : B		Mounti Rotatic Startine Approx		: F : E : C : 4	C411 - TEFC F-1 Both (CW and Direct On Line 468 lb 5.85 sq.ft.lb	CCW)
Output [HP]		30	25	25	25	30	30	30
Poles		30	4	25 4	25 4	30	4	30 4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		70.2/35.1	35.7	34.3	33.9	43.1	41.1	39.7
. R. Amperes [A]		428/214	214	230	237	216	230	238
RC [A]		6.1x(Code G)	6.0x(Code G)	6.7x(Code H)	7.0x(Code H)	5.0x(Code E)	5.6x(Code F)	6.0x(Code G)
No load current [A		26.0/13.0	12.9	13.8	14.5	12.9	13.8	14.5
Rated speed [RPN		1765	1460	1465	1470	1445	1455	1460
Slip [%]		1.94	2.67	2.33	2.00	3.67	3.00	2.67
Rated torque [ft.lb]		89.3	89.9	89.6	89.3	109	108	108
ocked rotor torqu		240	200	229	260	170	190	220
Breakdown torque	[%]	240	229	260	280	190	220	240
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
ocked rotor time		36s (cold) 20s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²		63.0 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%	93.0	92.1	92.1	91.6	90.0	90.5	91.2
, (**)	75%	93.0	92.5	92.8	92.5	90.2	91.0	91.7
	100% 25%	93.6	92.6	92.7	92.6	90.2	91.0	91.7
		0.70	0.70	0.67	0.64	0.76	0.72	0.70
Power Factor	50% 75%	0.70 0.80	0.70	0.67	0.64 0.76	0.76 0.83	0.73	0.70 0.80
	100%	0.80	0.81	0.79	0.76	0.83	0.82	0.80
	100%					0.00	0.65	0.04
Bearing type Sealing Lubrication interv Lubricant amoun		Drive end : 6311 C3 : V'Ring : 20000 h : 18 g	6211 0 V'Rin 20000 11 g	C3 Max. tra g Max. cc	tion loads action ompression	-	95 lb 363 lb	
Lubricant type Notes USABLE @208V This revision repla must be eliminate	aces and car	15 SFA 89.3A					on tests with sinces stipulated	
 Looking the m Measured at 1 Approximate v manufacturing pro At 100% of ful 	otor from the Im and with t weight subject ocess.	tolerance of +3 of to changes a	after	MG-1.				
Rev.		Changes	Summary		Performe	ea Che	ecked	Date
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Performed by Checked by						Р	age	Revision

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 14/04/2022
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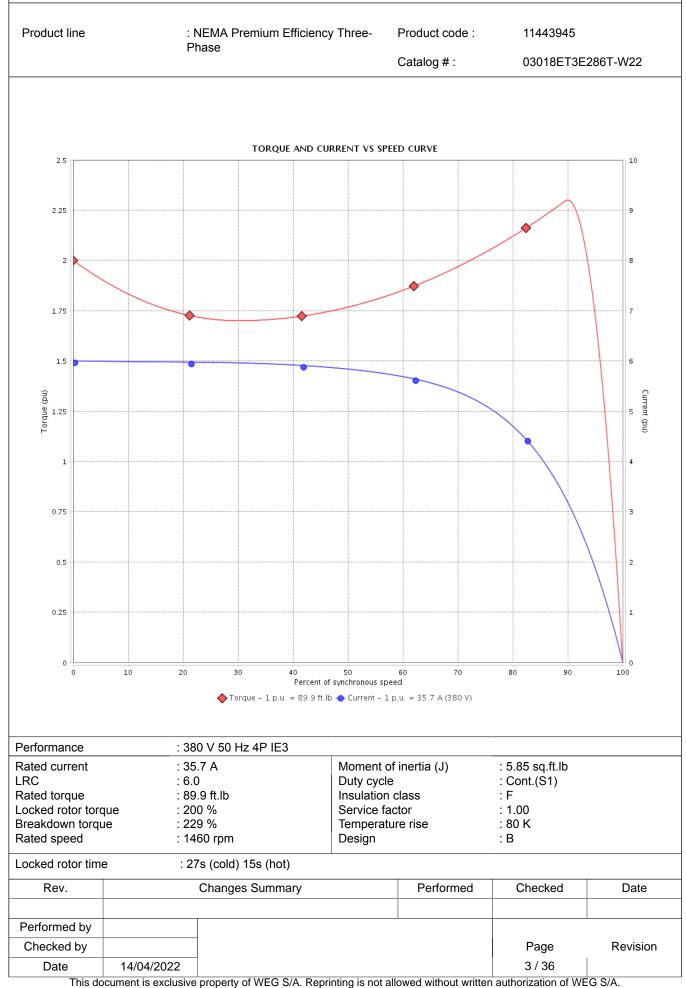
TORQUE AND CURRENT VS SPEED CURVE

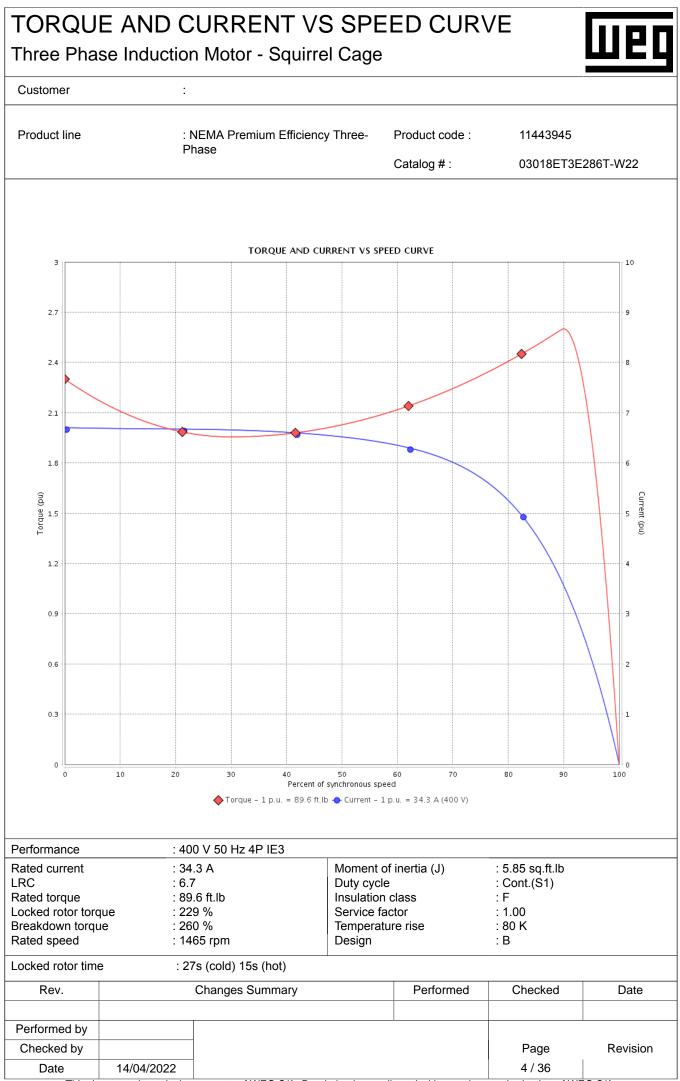
Three Phase Induction Motor - Squirrel Cage

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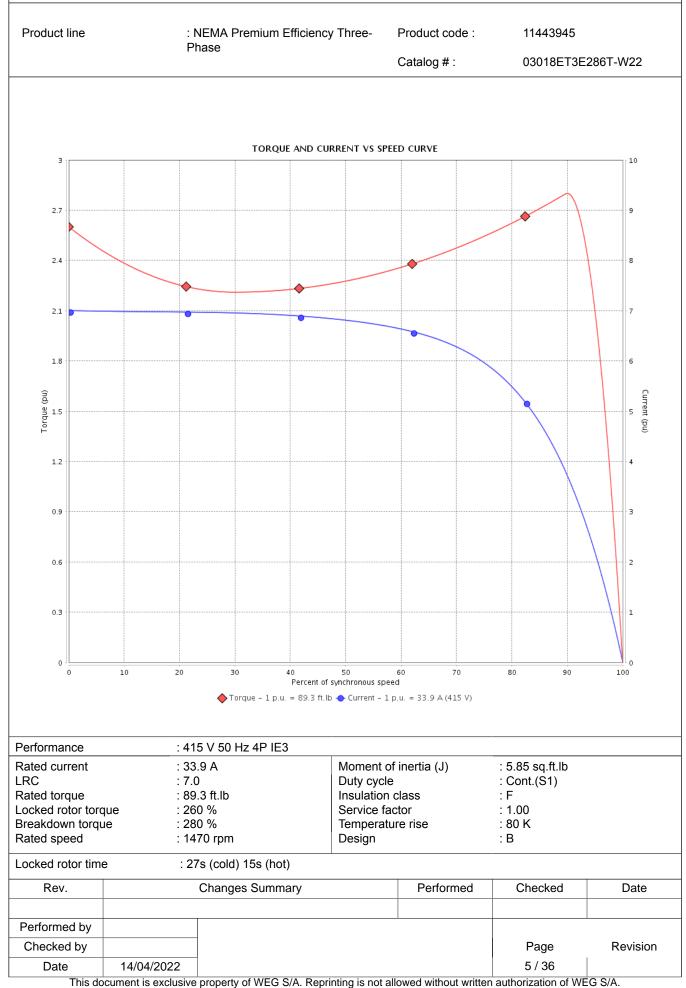
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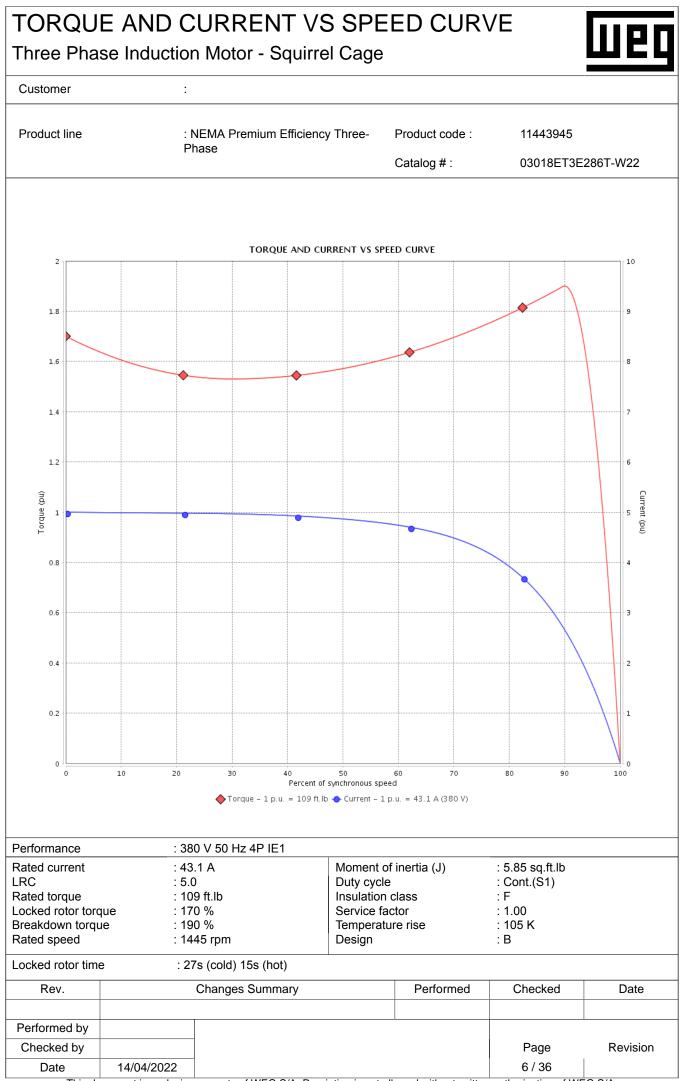
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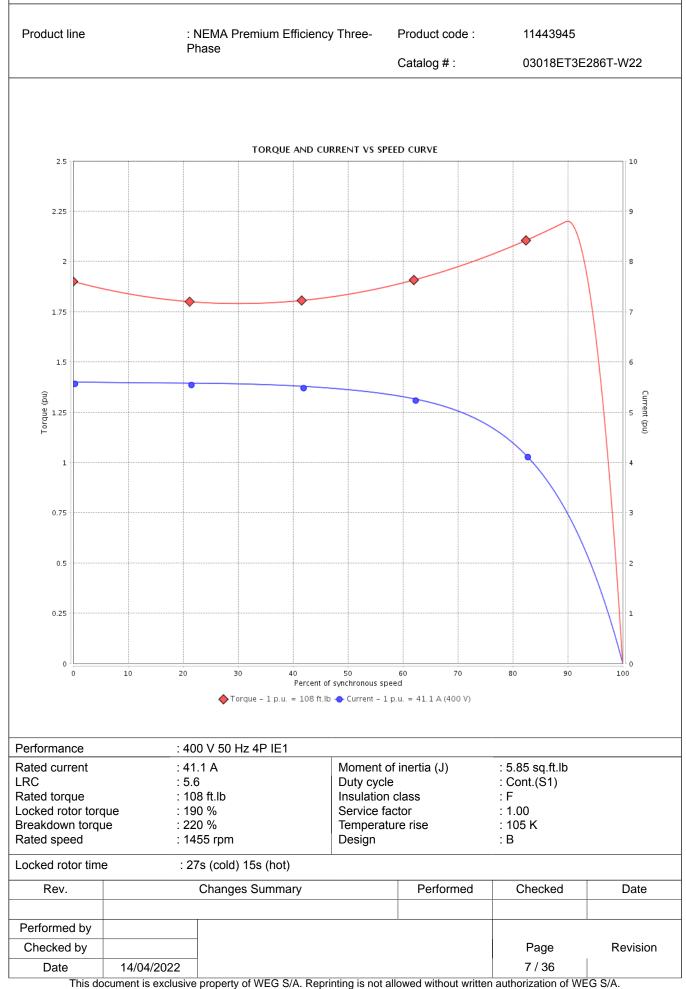
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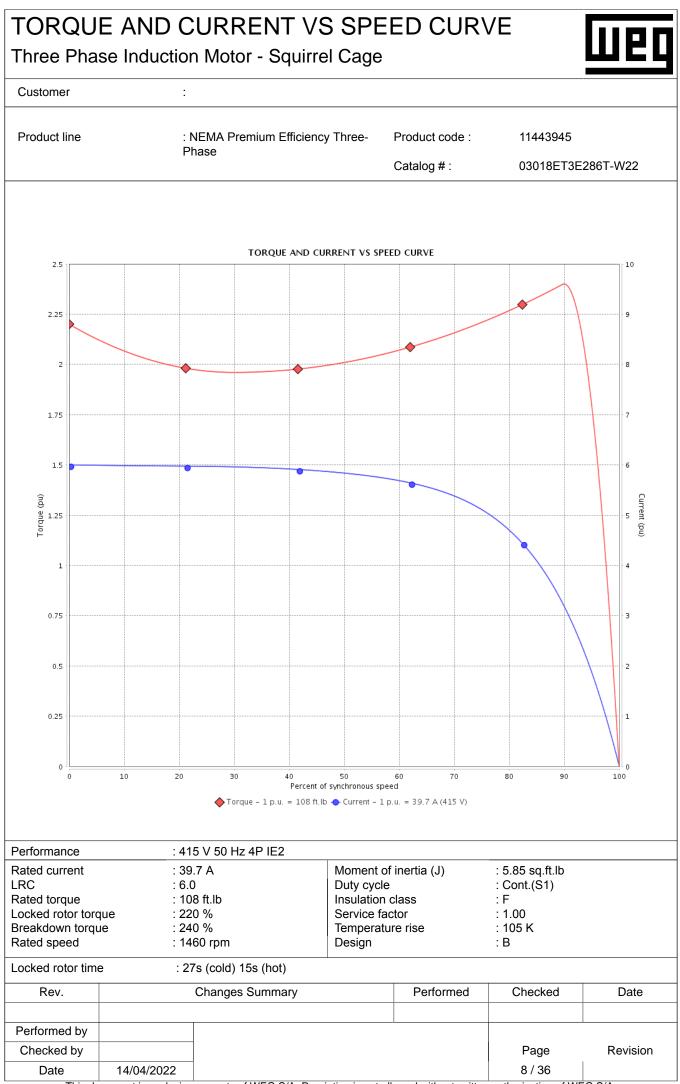
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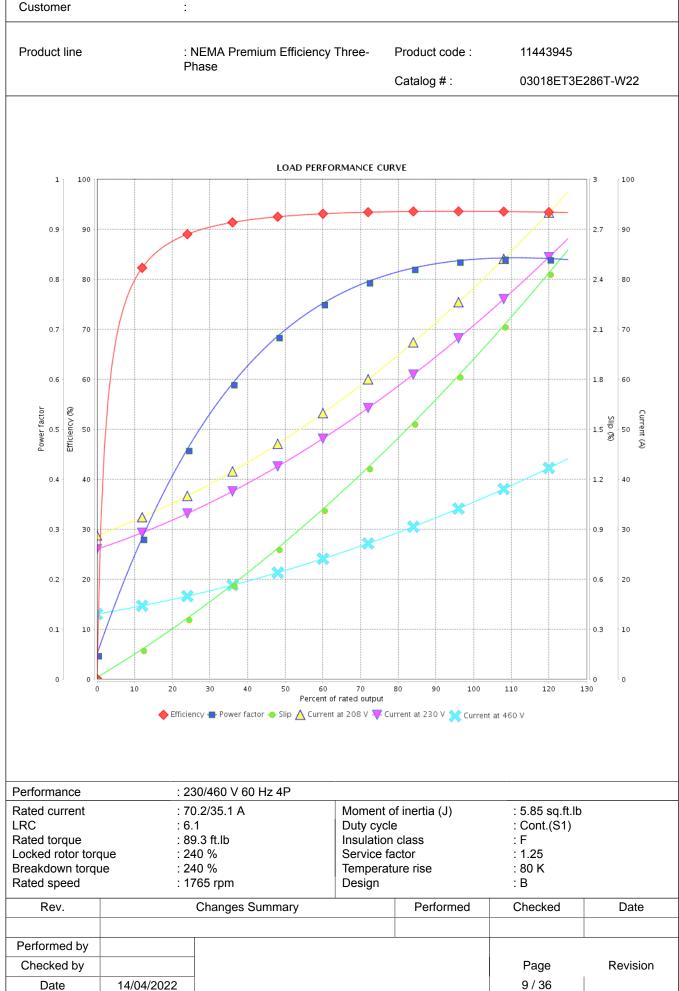






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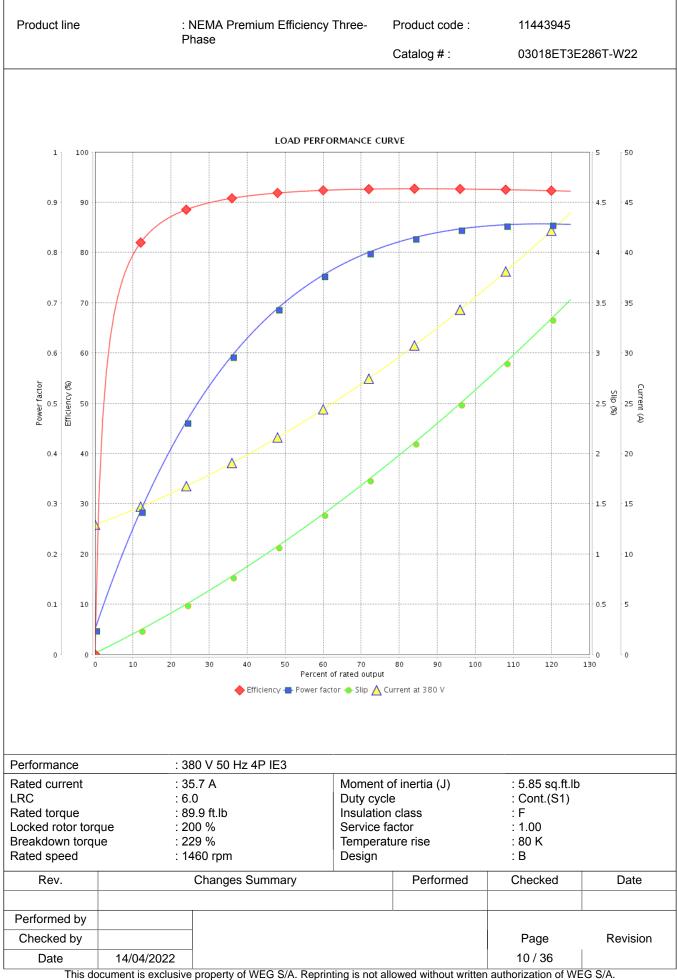
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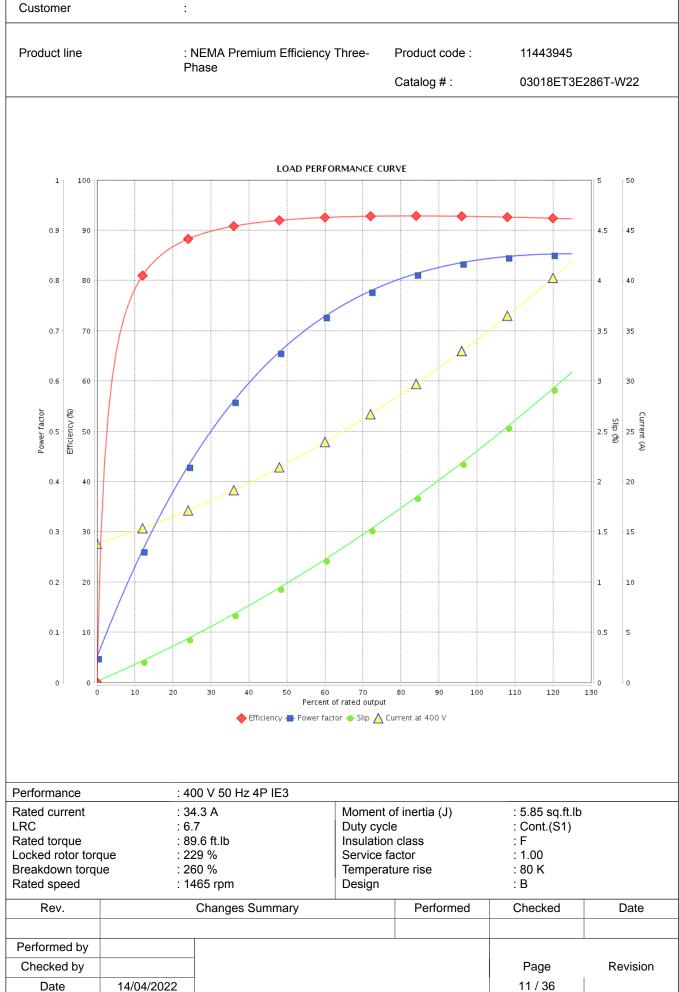


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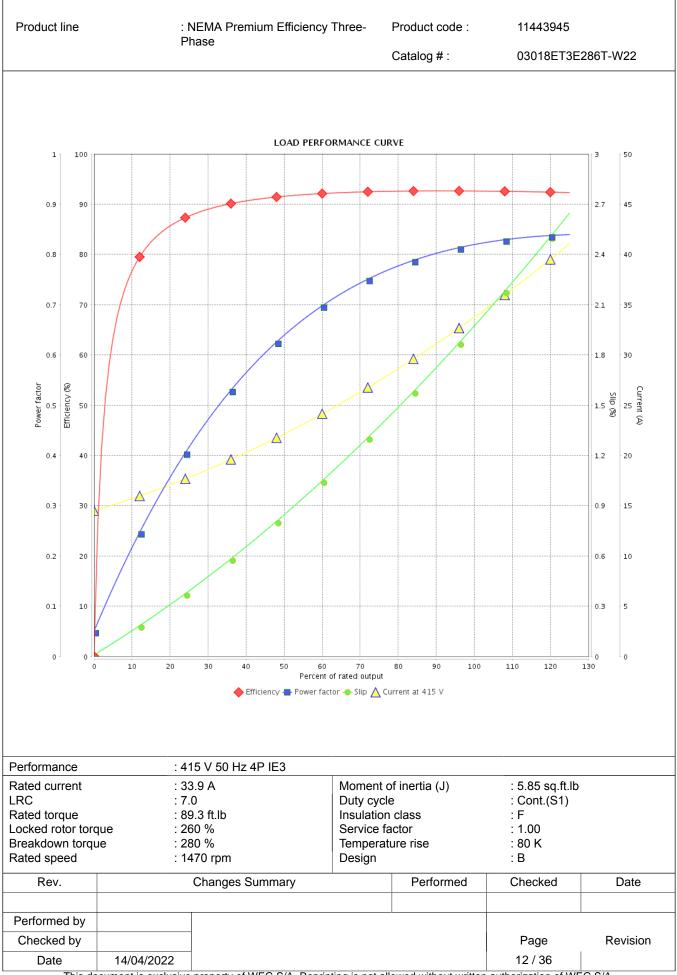
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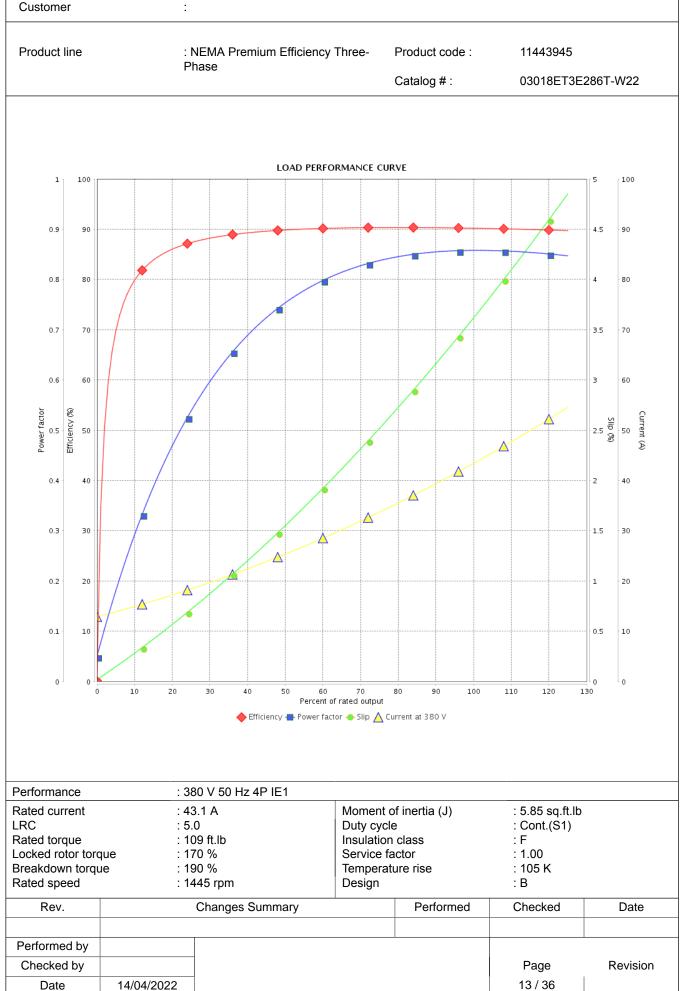


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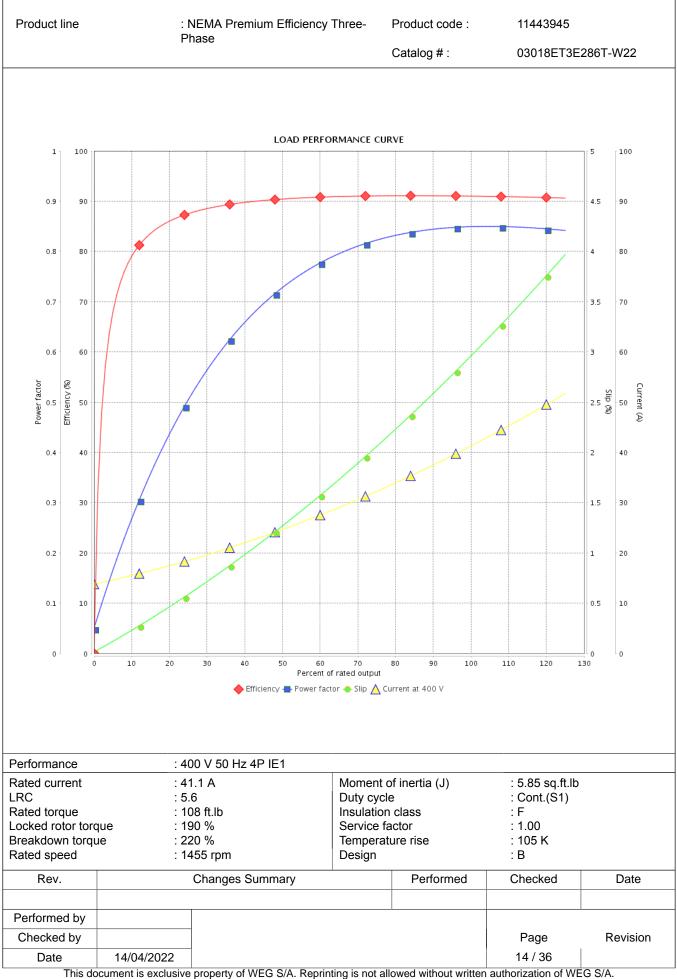
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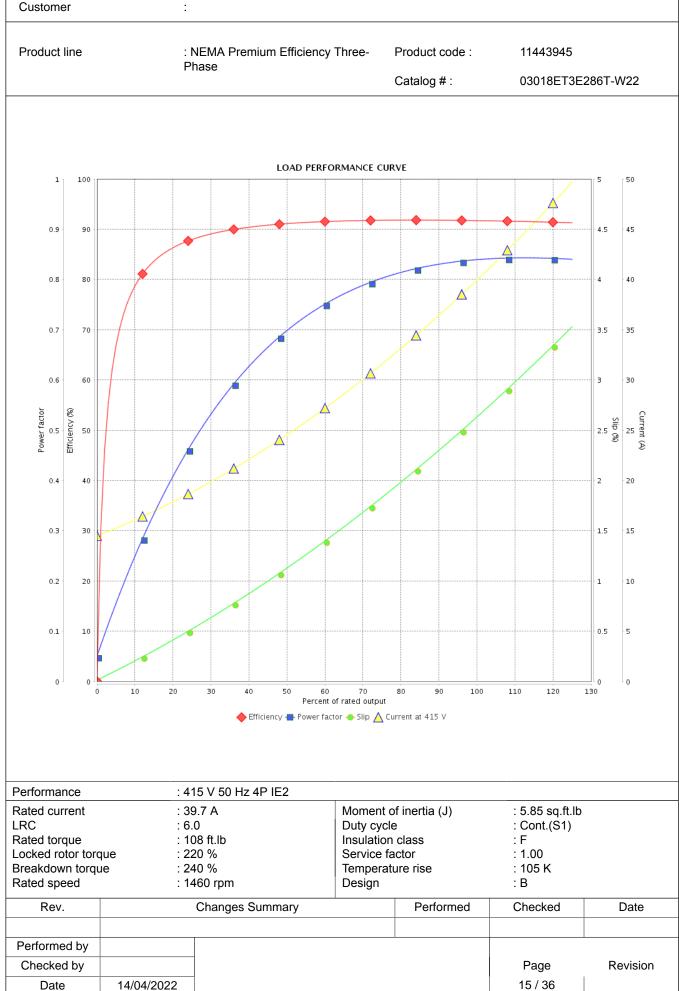


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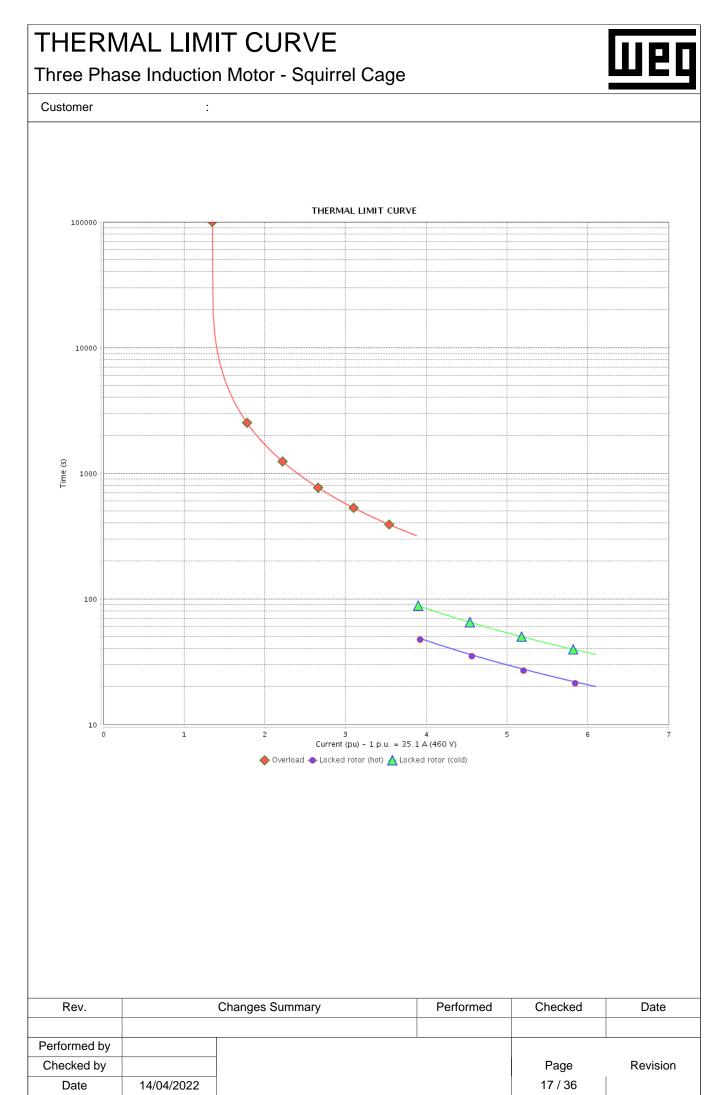
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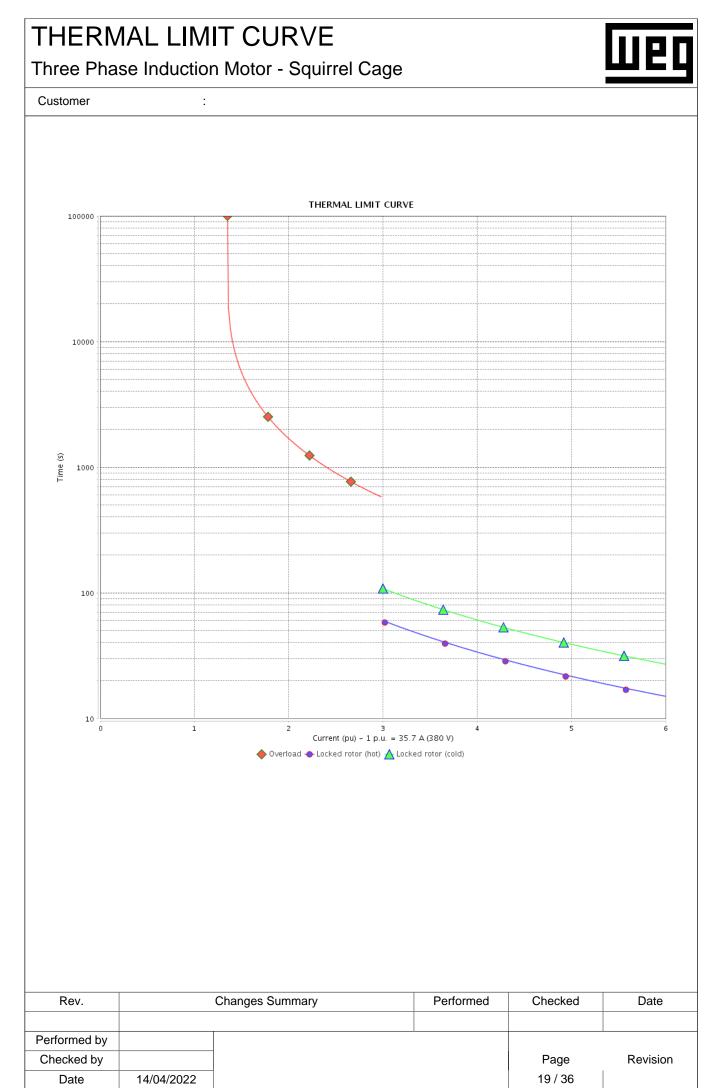
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	ction Motor - Squirrel Cage	;	
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11443945
		Catalog # :	03018ET3E286T-W22

Performance	: 2	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 8 que : 2 Je : 2	0.2/35.1 A Moment of inertia (J)		: 5.85 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B		
Heating constant	t					
Cooling constant	t					
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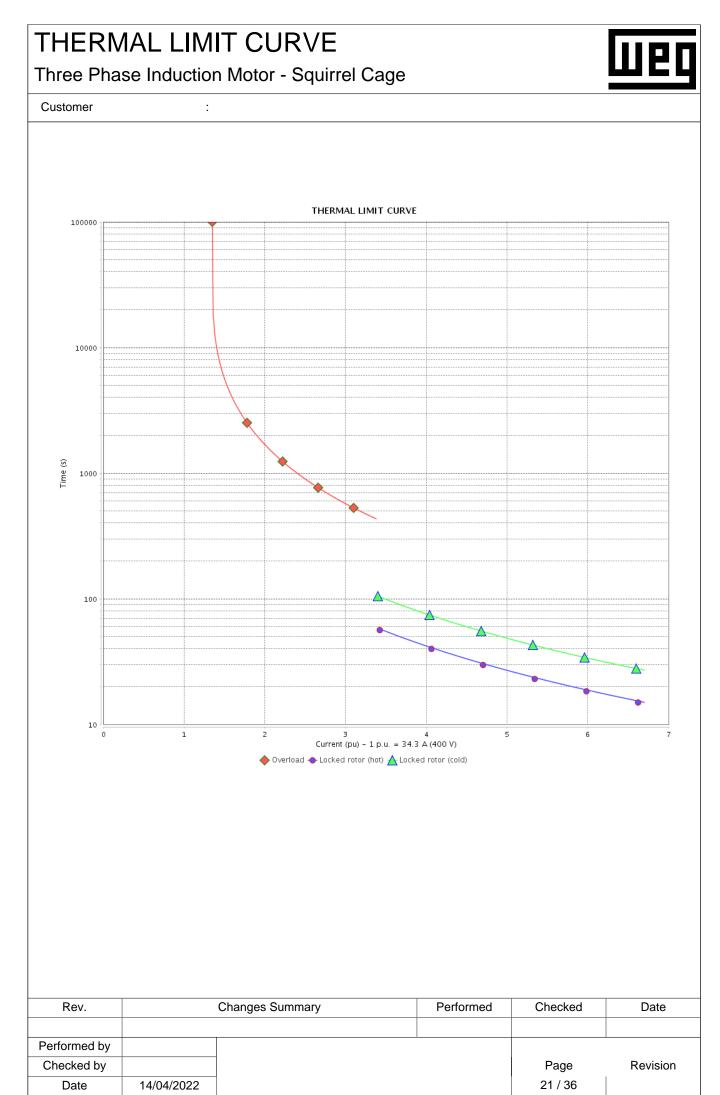
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Three Phase Induct	tion Motor - Squirrel Cage		шсч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11443945
		Catalog # :	03018ET3E286T-W22

Performance	: 3	380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 8 jue : 2	35.7 A 3.0 39.9 ft.lb 200 % 229 % 460 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t					
Cooling constant	:					
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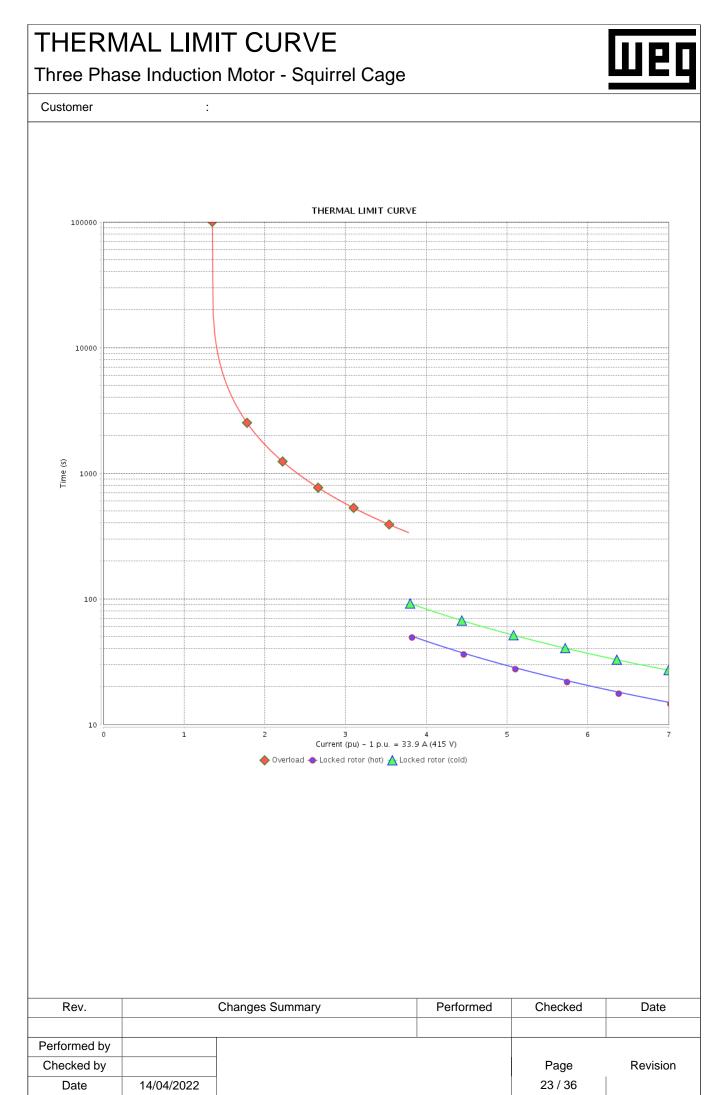
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Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11443945
	1 11035	Catalog # :	03018ET3E286T-W22

Performance	: 4	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed Heating constan	: 6 : 8 que : 2 ue : 2 : 1	4.3 A .7 9.6 ft.lb 29 % 60 % 465 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Cooling constant						
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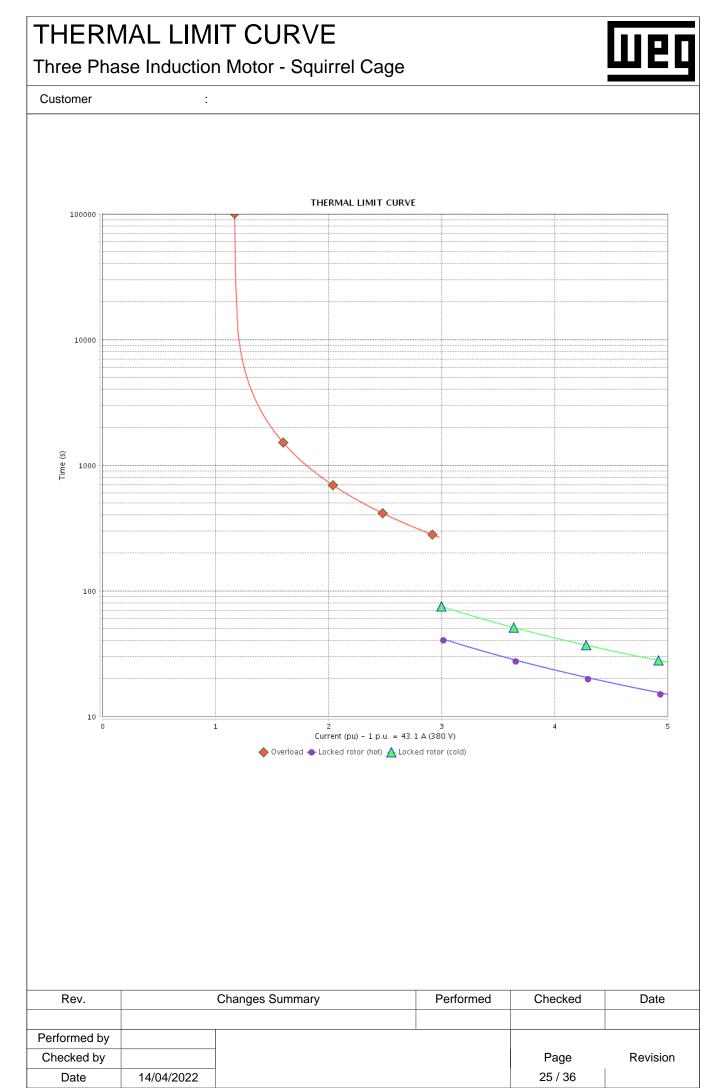
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Three Phase Inc	luction Motor - Squirrel Cage	9	
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11443945
	Thuse	Catalog # :	03018ET3E286T-W22

Performance	:4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	20 20 21 21 21 21 21 21 21 21 21 21 21 21 21	3.9 A .0 9.3 ft.lb 60 % 80 % 470 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t					
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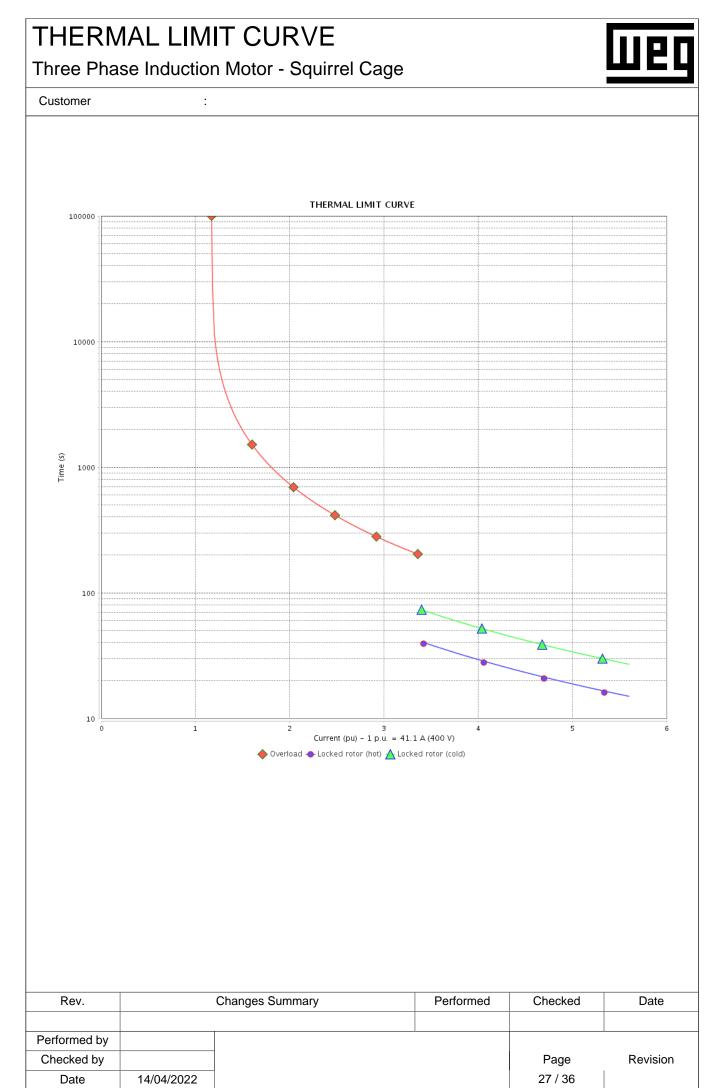
THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage						
Customer	:					
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11443945			
		Catalog # :	03018ET3E286T-W22			

Performance	:	380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	iue :	43.1 A 5.0 109 ft.lb 170 % 190 % 1445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant	t					
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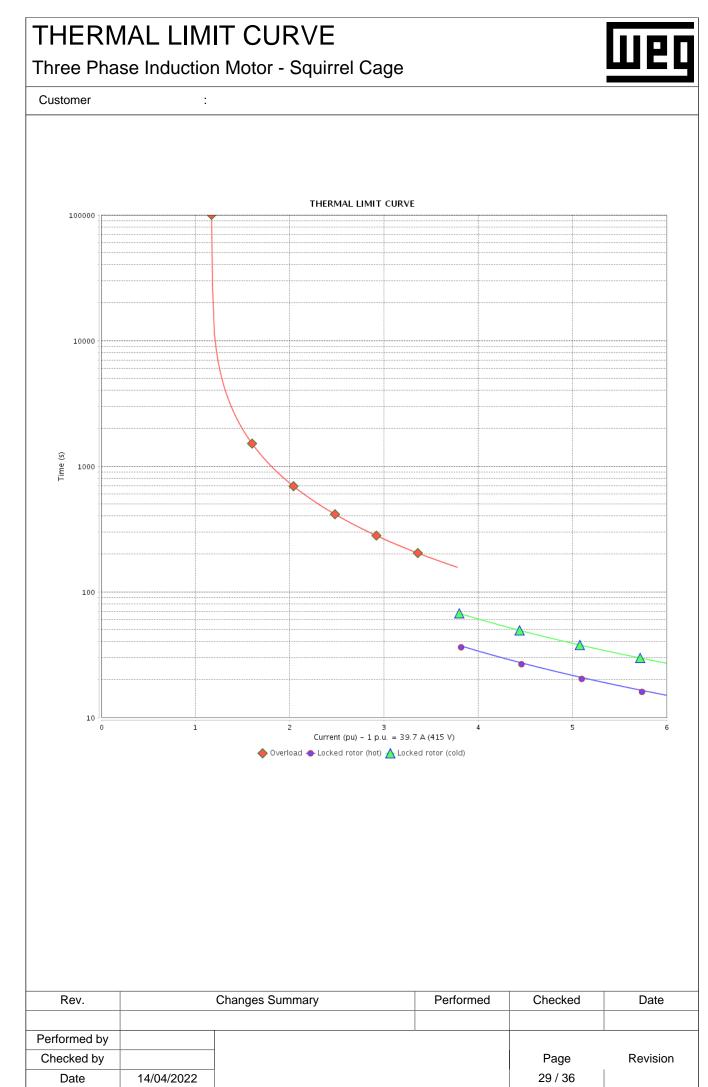
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THERMAL LIMIT CURVE Three Phase Induction Motor - Squirrel Cage							
Customer	:						
Product line	: NEMA Premium Efficiency Three-	Product code :	11443945				
	Phase	Catalog # :	03018ET3E286T-W22				

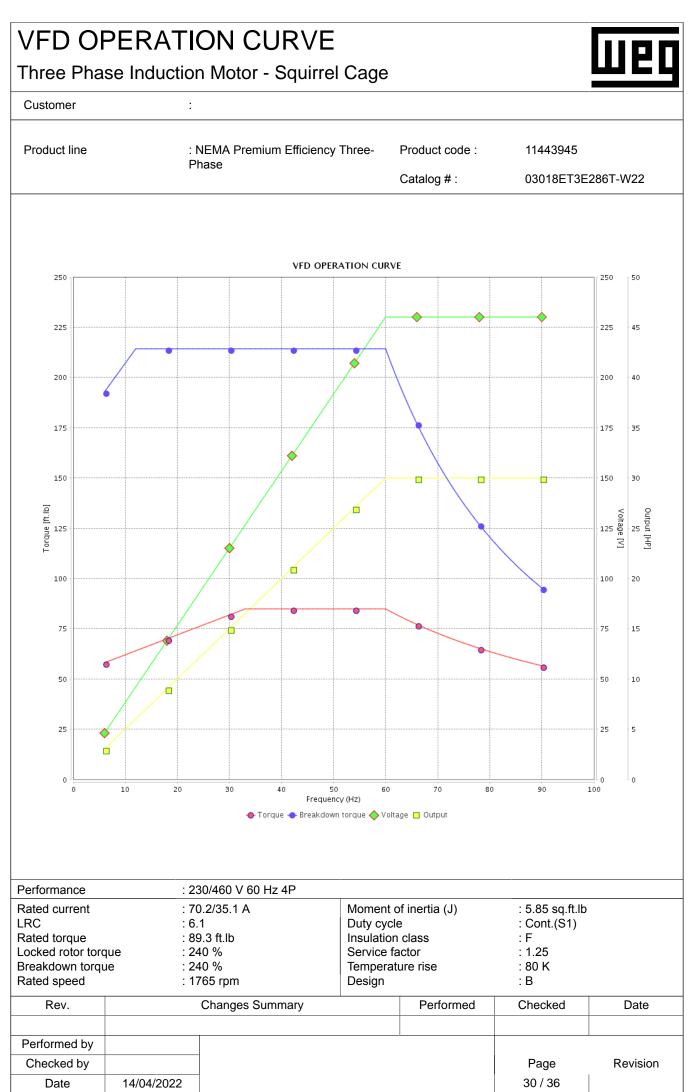
Performance		: 400 V 50 Hz 4P IE1					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 41.1 A : 5.6 : 108 ft.lb : 190 % : 220 % : 1455 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B	
Heating constant					·		
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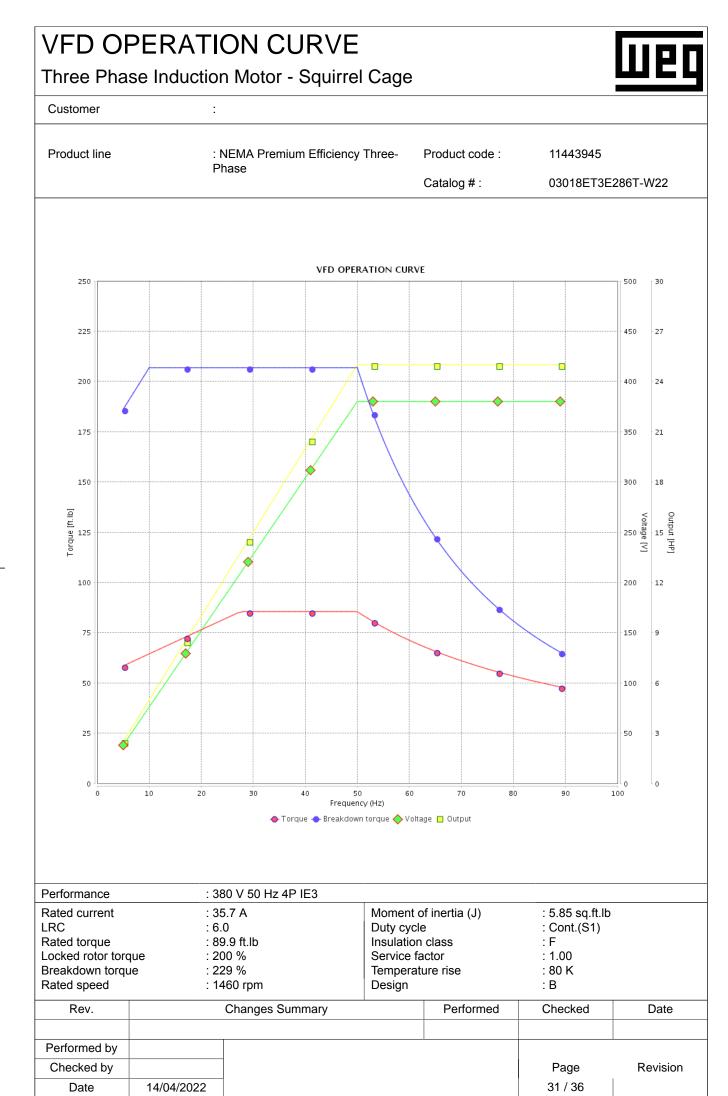
	HERMAL LIMIT CURVE				
Customer	:				
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11443945		
		Catalog # :	03018ET3E286T-W22		

Performance	: 4	415 V 50 Hz 4P IE2				
Rated current: 39.7LRC: 6.0		39.7 A 5.0	Moment of inertia (J) Duty cycle		: 5.85 sq.ft.lb : Cont.(S1)	
Rated torque : 108 ft.lb		108 ft.lb	Insulation class		: F	
Locked rotor torque : 220 %		220 %	Service factor		: 1.00	
Breakdown torque : 24		240 %	Temperature rise		: 105 K	
Rated speed : 1460 rpm		1460 rpm	Design		: B	
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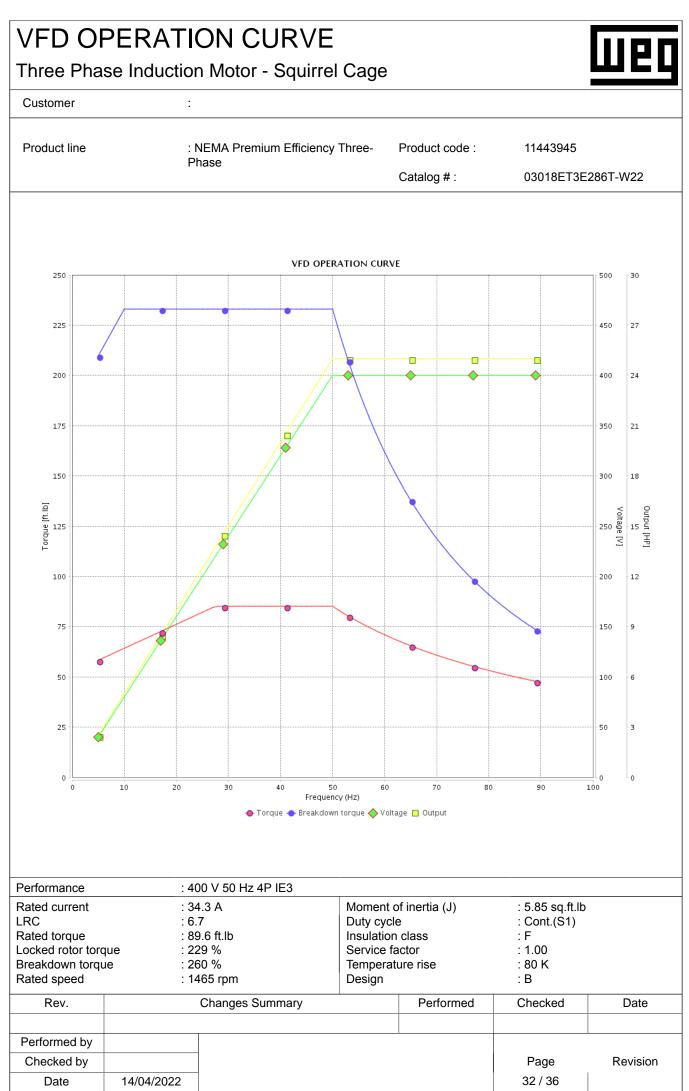


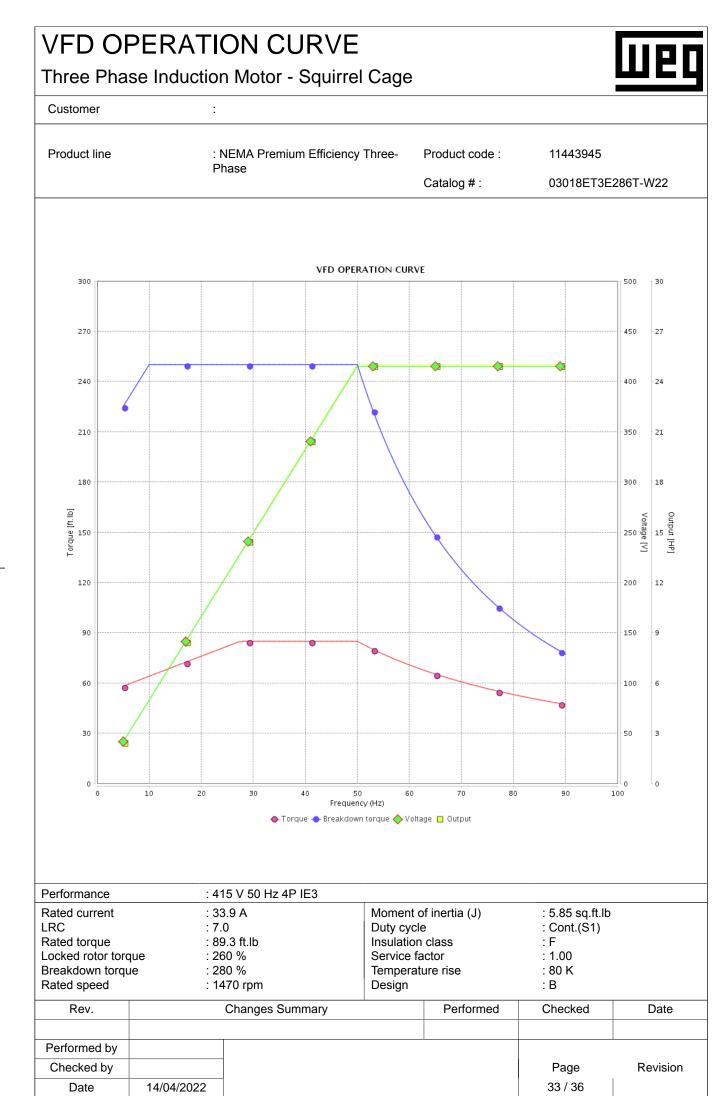


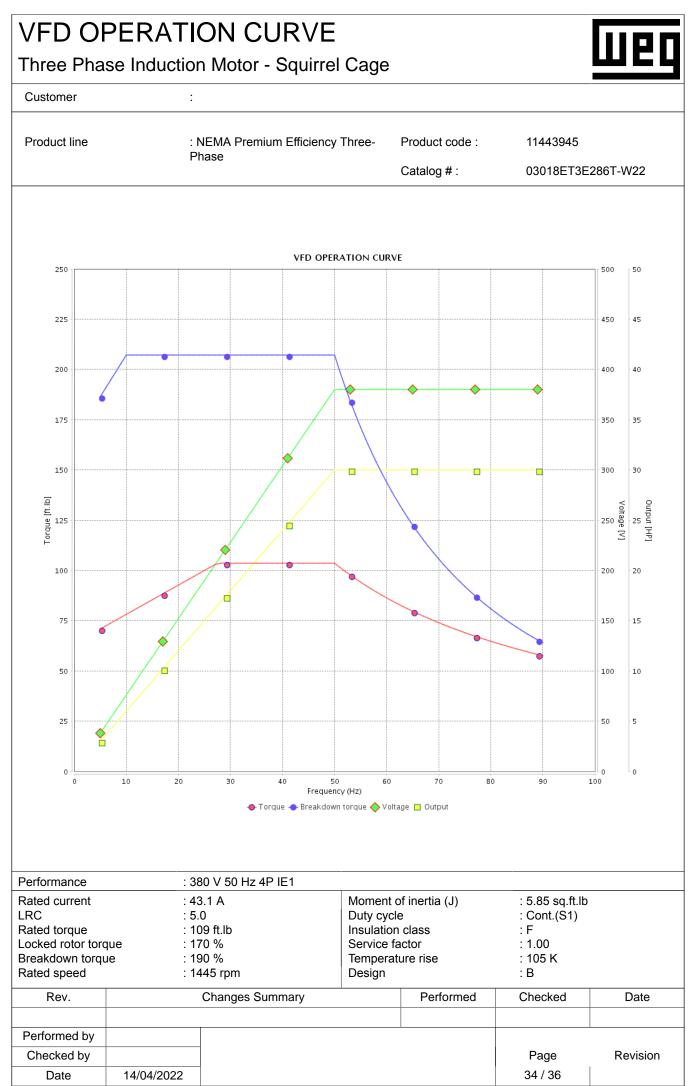
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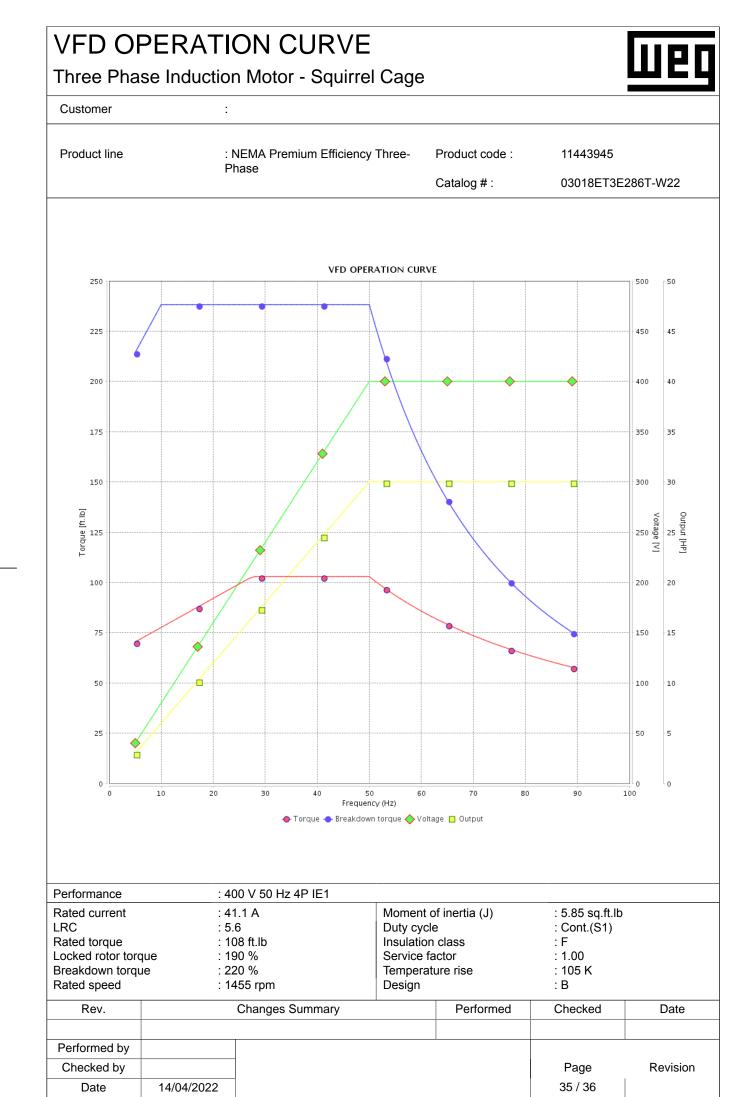


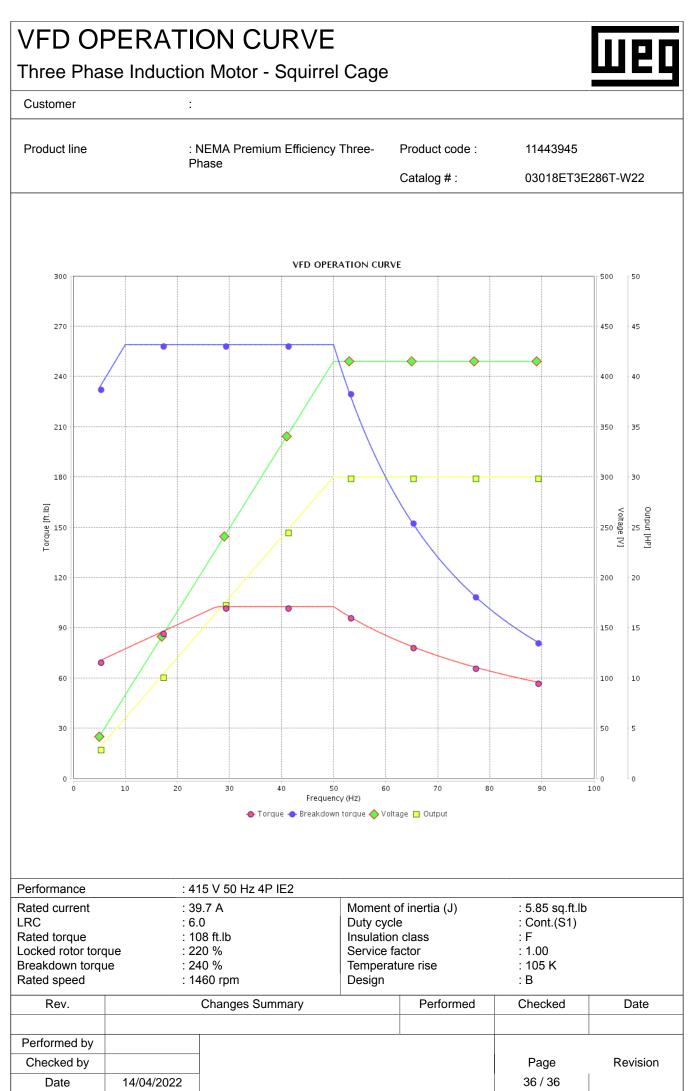
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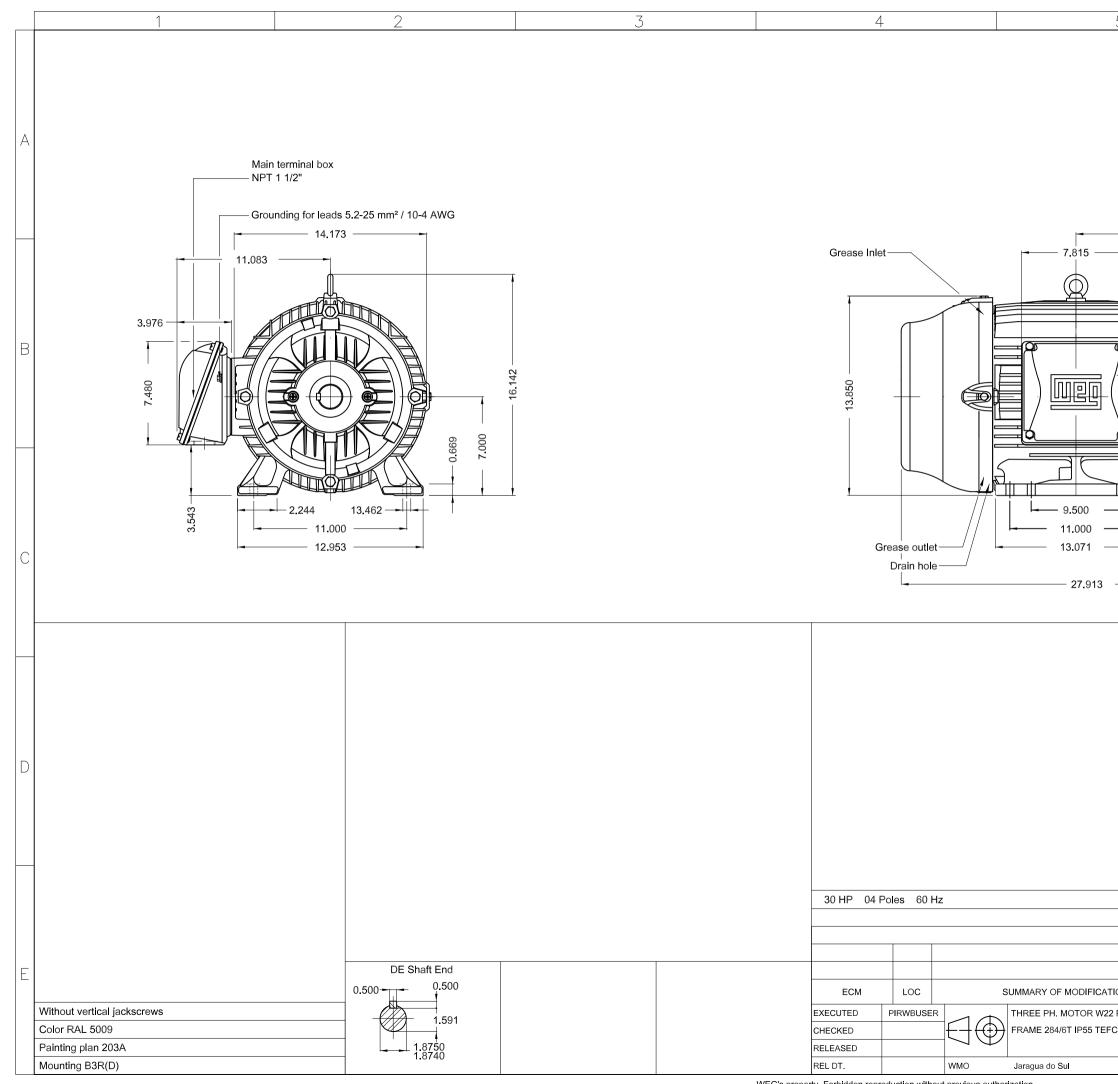












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