DATA SHEET

Three Phase Induction Motor - Squirrel Cage

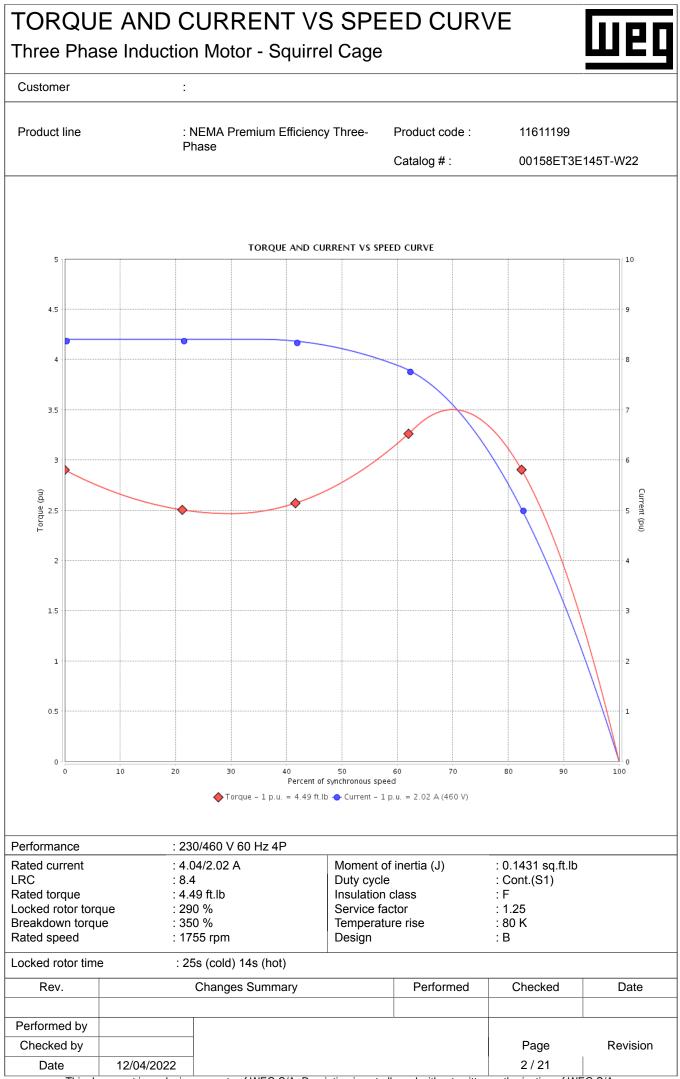
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Customer

Product line	: NEMA Premium Efficiency Three- Product code : Phase					11611199		
		Flidse		Ca	atalog # :	00158ET3E145T-W22		
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 143/5T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 50.1 lb : 0.1431 sq.ft.lb		
Output [HP]		1.5	1	1.5	1.	5	1.5	
Poles		4		4	4	-	4	
Frequency [Hz]		60		50	50	о –	50	
Rated voltage [V]		230/460		380	40	0	415	
Rated current [A]		4.04/2.02	1	2.42	2.3		2.30	
L. R. Amperes [A]		33.9/17.0	1	15.5	16		17.0	
LRC [A]		8.4x(Code L)	6.4	4x(Code H)	7.0x(C		7.4x(Code K)	
No load current [A	.]	2.20/1.10	1	1.10	1.2		1.30	
Rated speed [RPN		1755	1	1440	144		1450	
Slip [%]	-	2.50	1	4.00	3.6		3.33	
Rated torque [ft.lb]]	4.49	1	5.47	5.4		5.43	
Locked rotor torqu		290		220	25		280	
Breakdown torque		350			29		320	
Service factor		1.25			1.2	25	1.25	
Temperature rise		80 K		80 K	80	К	80 K	
Locked rotor time		25s (cold) 14s (hot)	25s (d	cold) 14s (ho			25s (cold) 14s (hot)	
Noise level ²		51.0 dB(A)		9.0 dB(A)	49.0 c		49.0 dB(A)	
	25%			· · ·				
Efficiency (%)	50%	82.5			82	.5	81.0	
Efficiency (%)	75%	85.5		84.0	84		84.0	
	100%	86.5		84.1	84	.1	84.1	
	25%							
Power Factor	50%	0.60		0.67	0.6		0.60	
I UWEI FACIUI	75%	0.70		0.76	0.7		0.70	
	100%	0.79		0.82	3.0	31	0.79	
Bearing type Sealing Lubrication inter Lubricant amoun		6205 ZZ 62 V'Ring V'	Irive end Foundation loads 204 ZZ Max. traction /'Ring Max. compression		on	: 126 lb : 176 lb		
Lubricant type		Mobil Polyrex E	EM					
USABLE @208V	4.36A SF 1.7	5 SFA 5.01A						
must be eliminate (1) Looking the m	ed. lotor from the Im and with to weight subjec ocess.	olerance of +3dB(A).	hich				s with sinusoidal ipulated in NEMA	
Rev.		Changes Summary	'		Performed	Checked	Date	
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Date	12/04/2022					1 / 21		

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TORQUE AND CURRENT VS SPEED CURVE

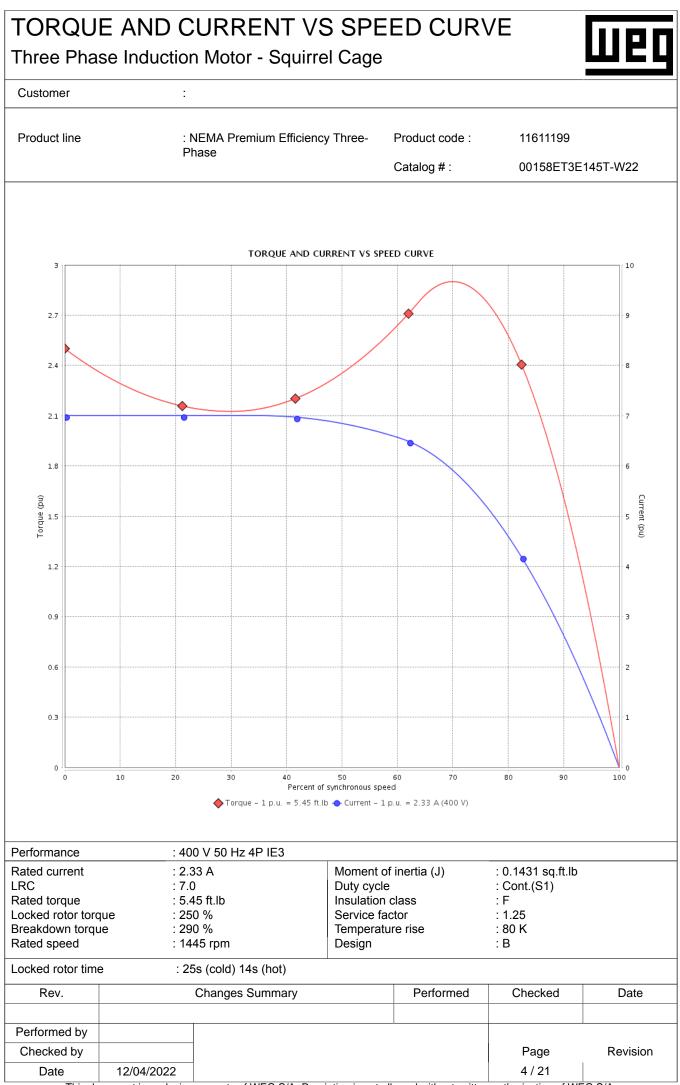
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		1 11030		Catalog # :	00158ET3E1	00158ET3E145T-W22	
		TORQUE AND CL	JRRENT VS SP	EED CURVE			
3						10	
2.7						9	
2.4						8	
2.1		~				7	
1.8						6	
<u>-</u>						6	
(nd) an 1.5 L						Current (pu)	
Ĕ						5	
1.2					•	4	
0.9						3	
0.6						2	
0.3						1	
0							
0	10	20 30 40 Percent of	50 f synchronous spe	60 70 eed	80 90	100	
		♦ Torque - 1 p.u. = 5.47 ft.	lb 🔶 Current – 1	.p.u. = 2.42 A (380 V)			
erformance		: 380 V 50 Hz 4P IE3					
ated current		: 2.42 A : 6.4		of inertia (J)	: 0.1431 sq.ft.lb		
ated torque		: 5.47 ft.lb : 220 %	Duty cycle Insulation Service fa	class	: Cont.(S1) : F : 1.25		
ocked rotor to reakdown torc		: 250 %	Temperat		: 1.25 : 80 K		
ated speed	<u>ו</u>	: 1440 rpm : 25s (cold) 14s (hot)	Design		: B		
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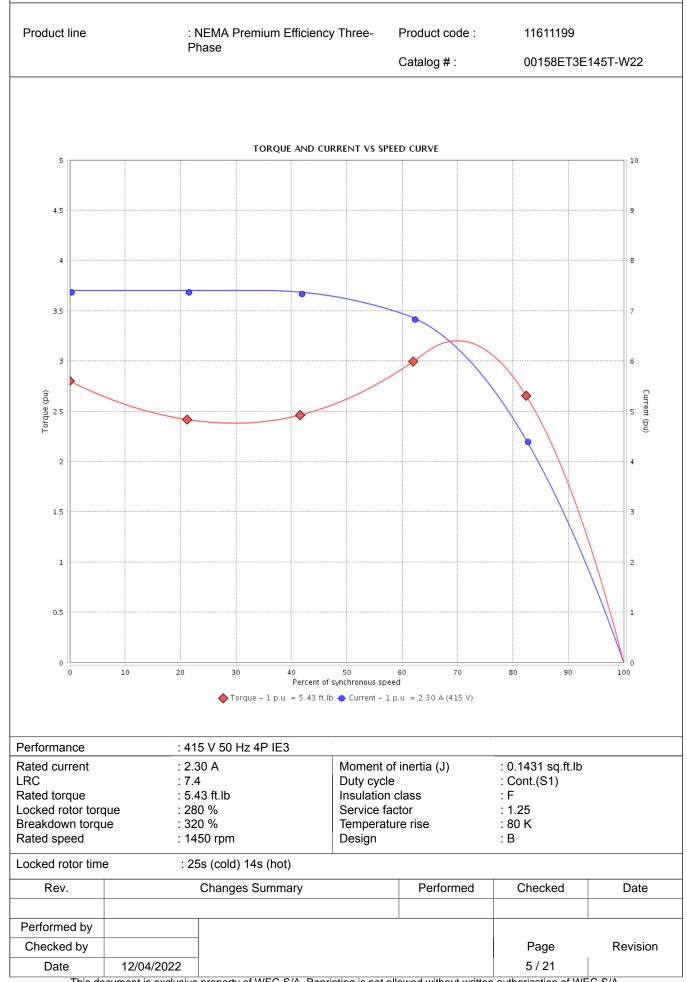
TORQUE AND CURRENT VS SPEED CURVE

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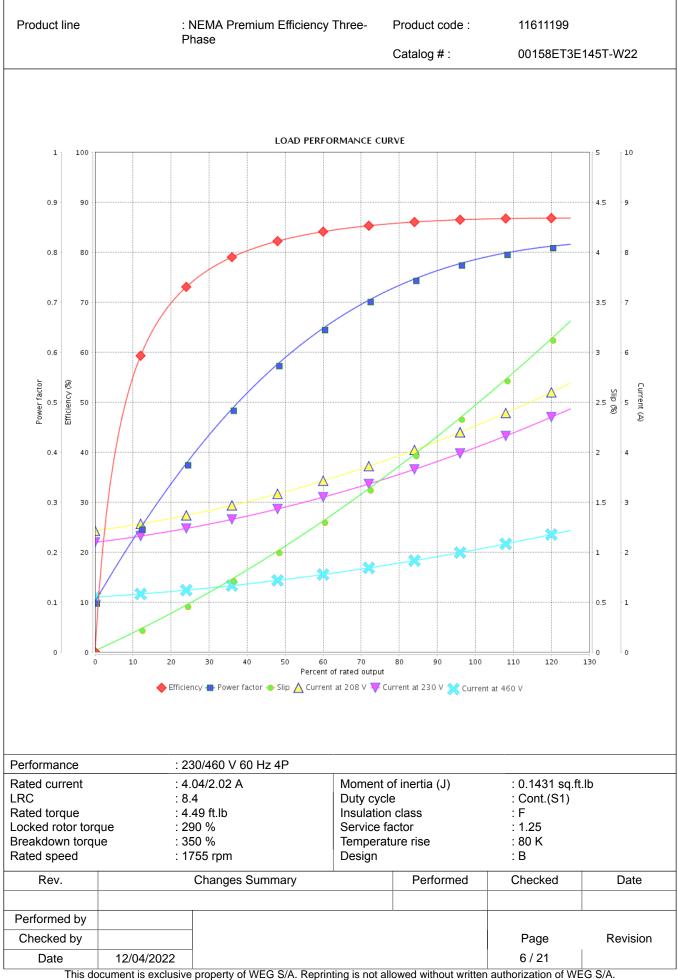


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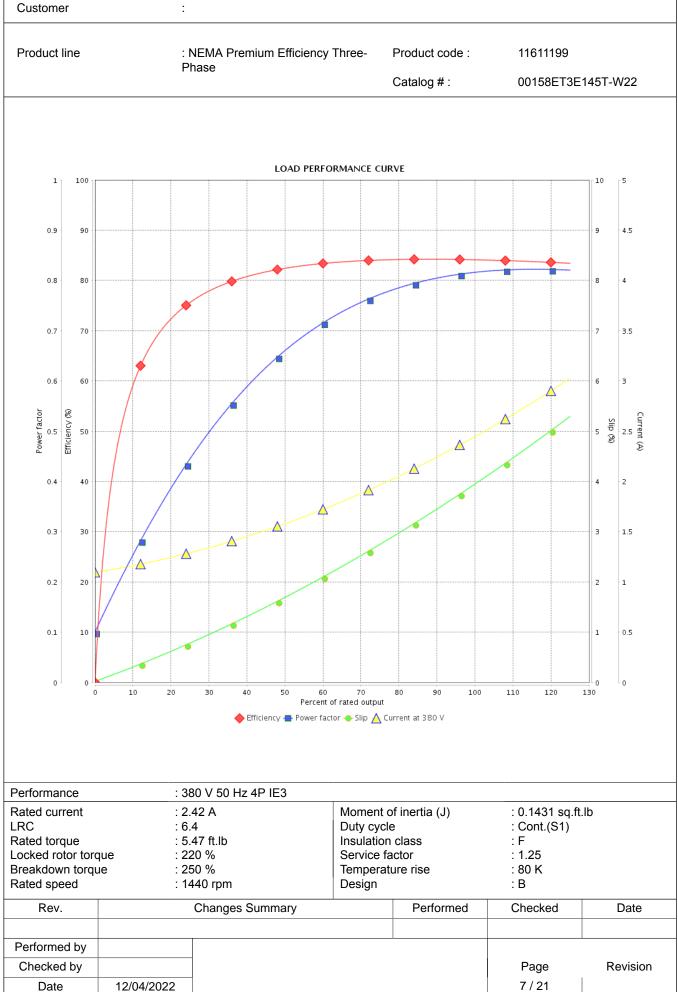


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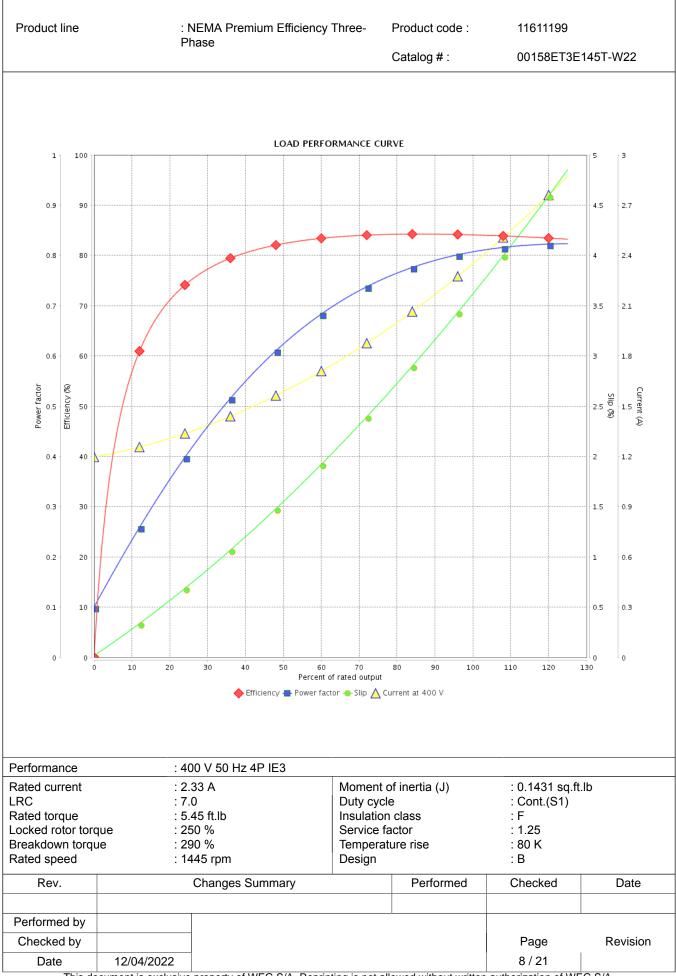
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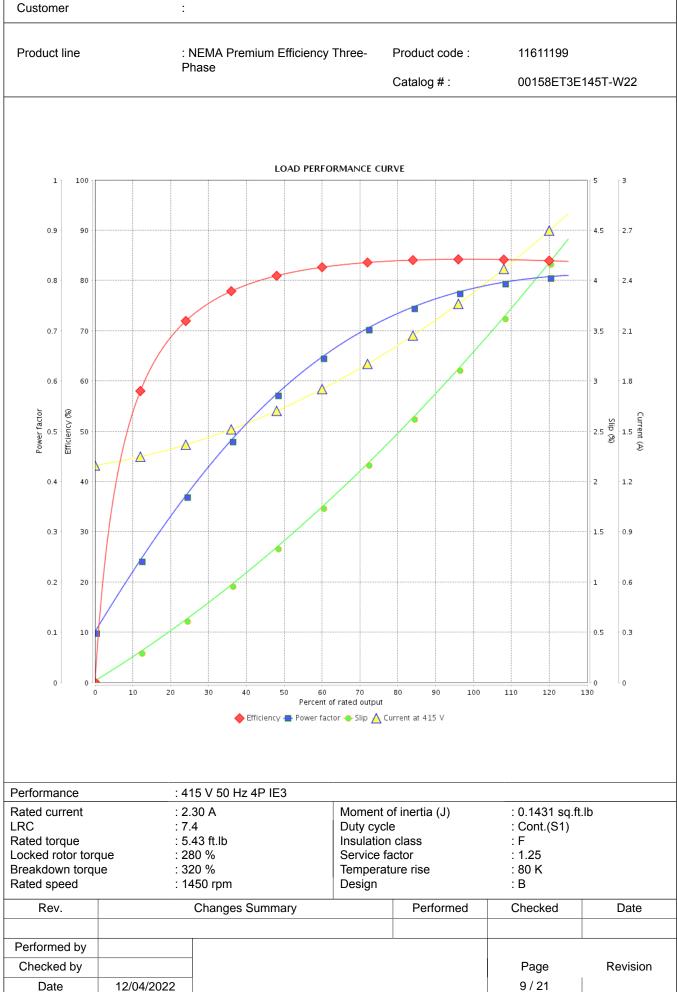


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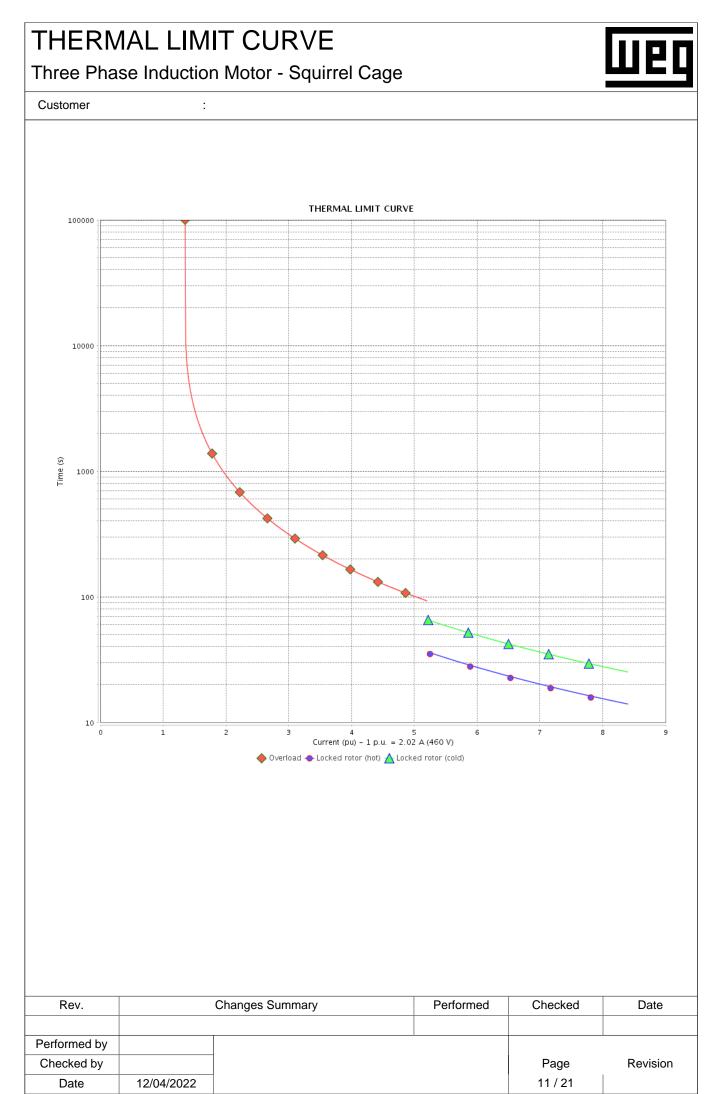
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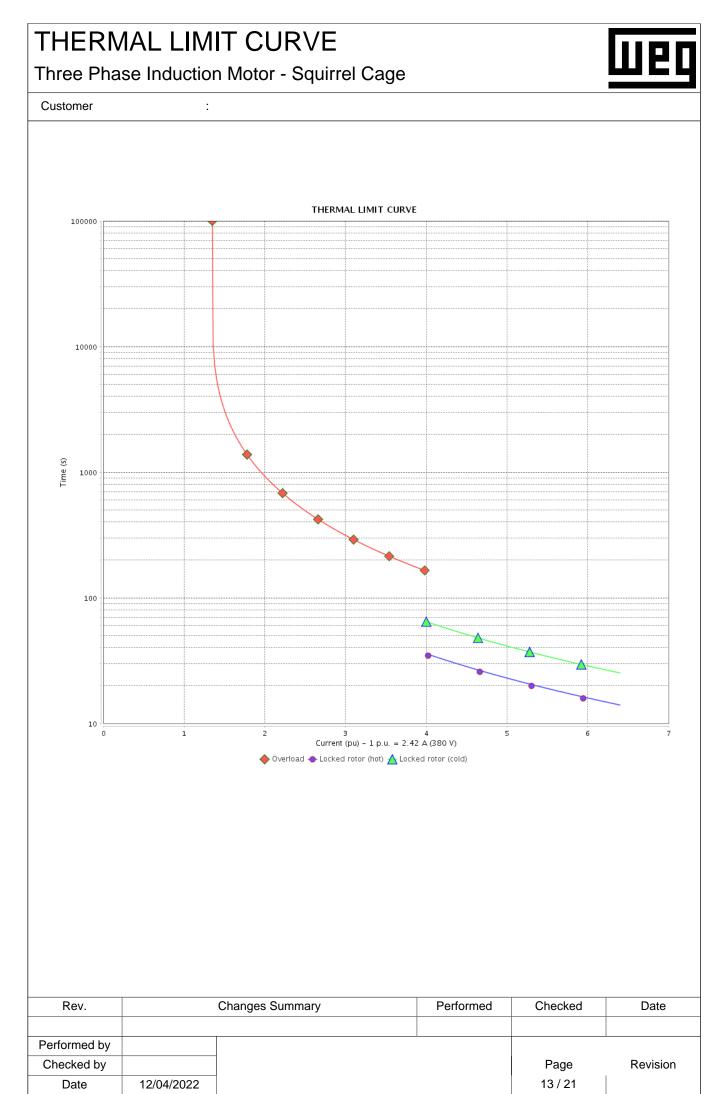
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Three Phase Induc)	шсч	
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11611199
		Catalog # :	00158ET3E145T-W22

Performance	: 2	230/460 V 60 Hz 4P				
Rated current: 4.04/2.02 ALRC: 8.4Rated torque: 4.49 ft.lbLocked rotor torque: 290 %Breakdown torque: 350 %Rated speed: 1755 rpm		.4 .49 ft.lb 90 % 50 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1431 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant	t					
Cooling constant	t					
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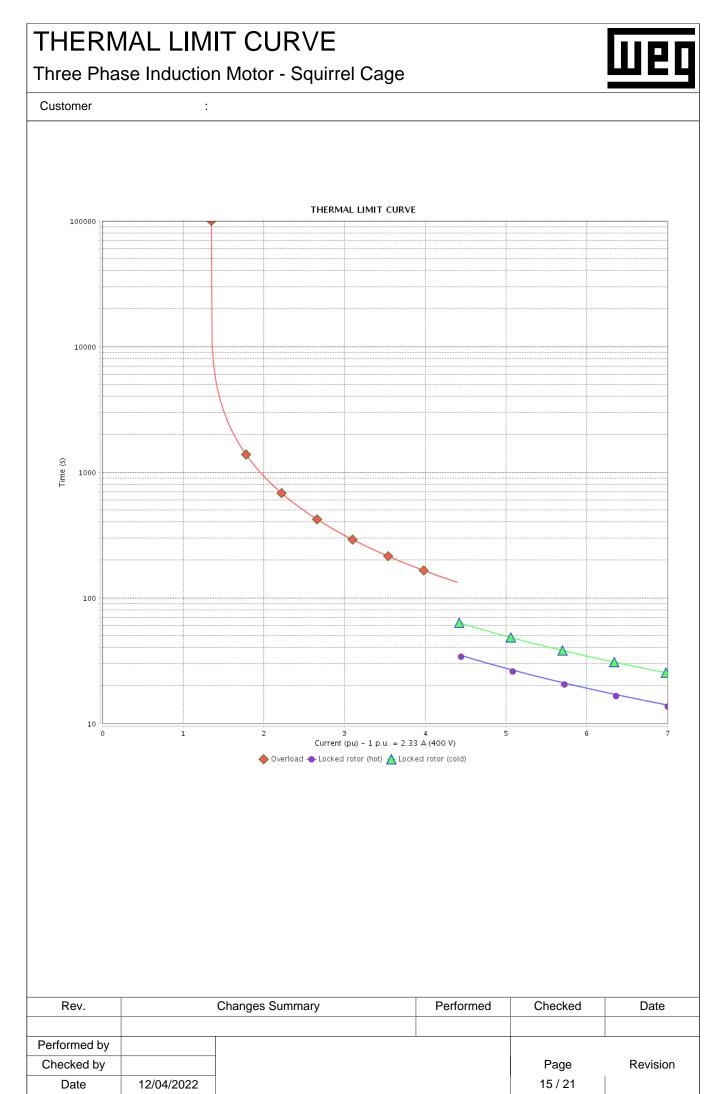
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Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11611199
	1 11256	Catalog # :	00158ET3E145T-W22

Performance		: 380 V 50 Hz 4P IE3				
Rated current: 2.42 ALRC: 6.4Rated torque: 5.47 ft.lbLocked rotor torque: 220 %Breakdown torque: 250 %Rated speed: 1440 rpm		Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1431 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant						
Cooling constant						
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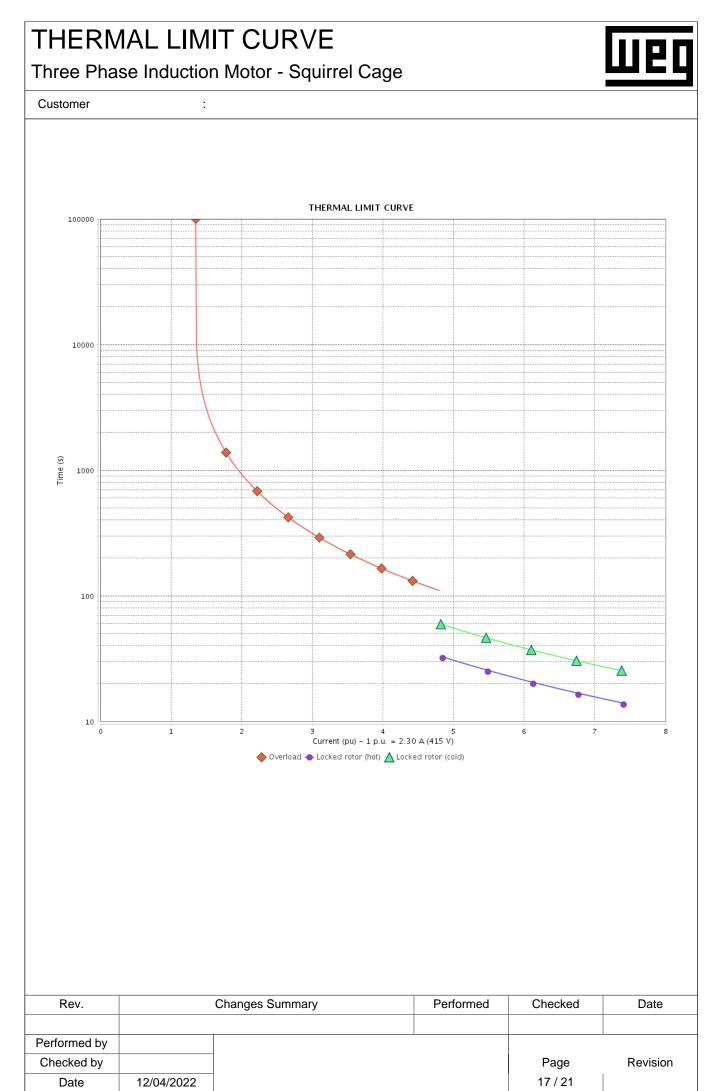
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Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11611199
		Catalog # :	00158ET3E145T-W22

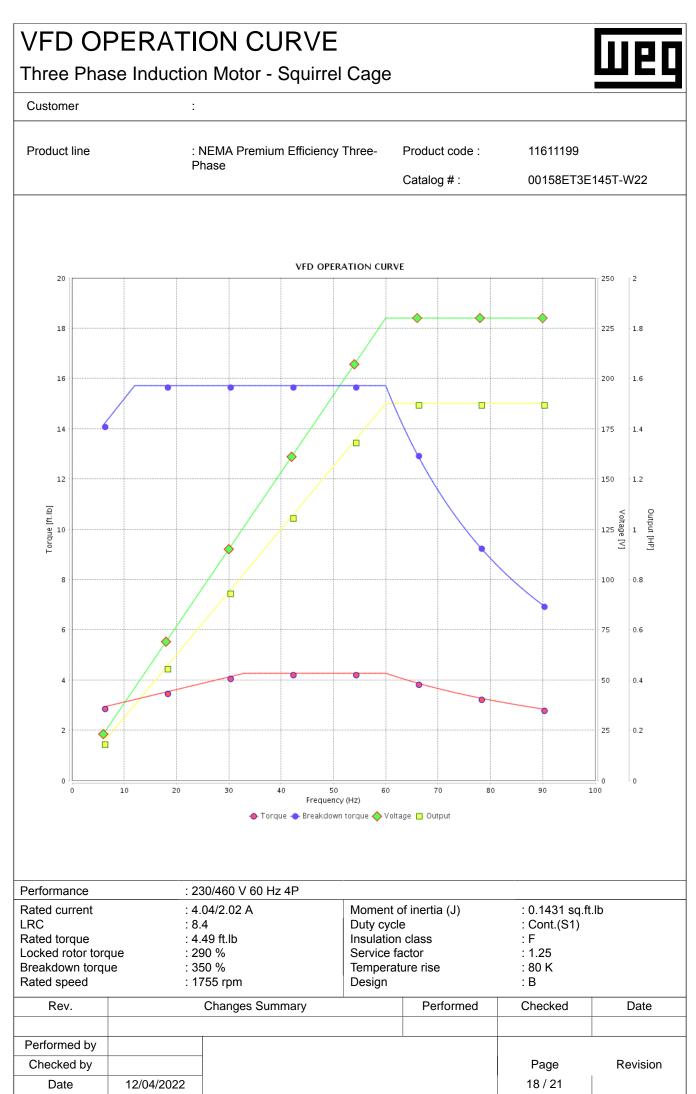
Performance	: 40	400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7. : 5. que : 28	: 2.33 AMoment of inertia: 7.0Duty cycle: 5.45 ft.lbInsulation class: 250 %Service factor: 290 %Temperature rise: 1445 rpmDesign		class ctor	: 0.1431 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	.lb
Heating constant	t					
Cooling constant						
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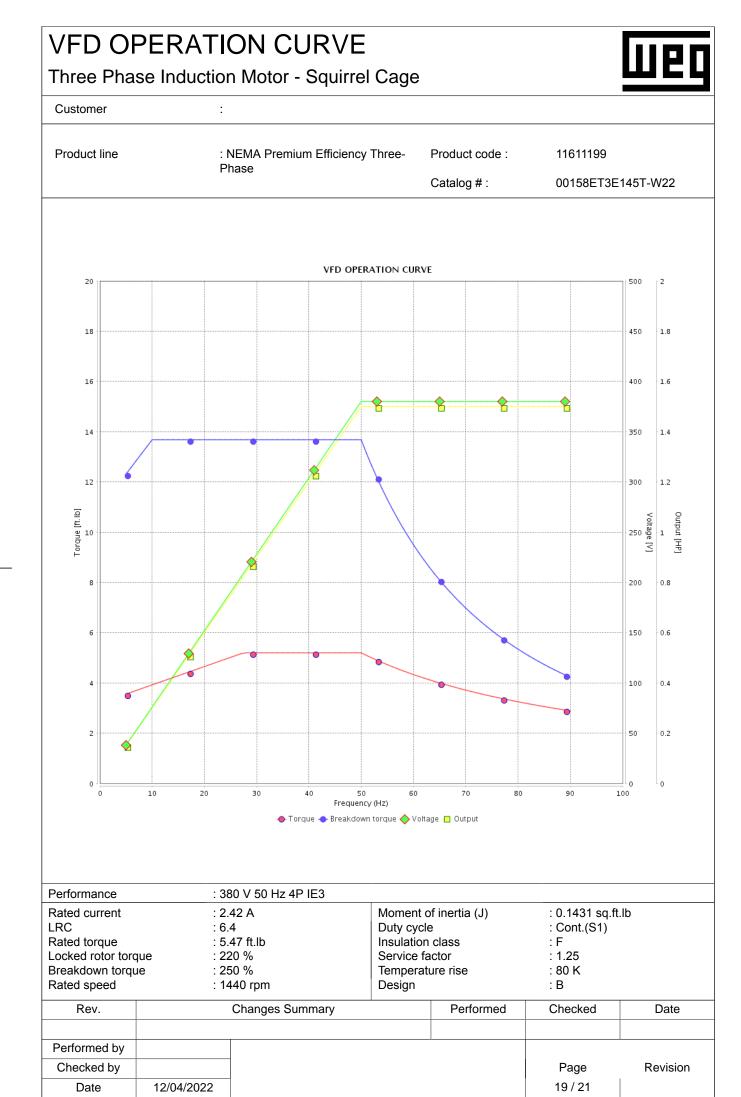


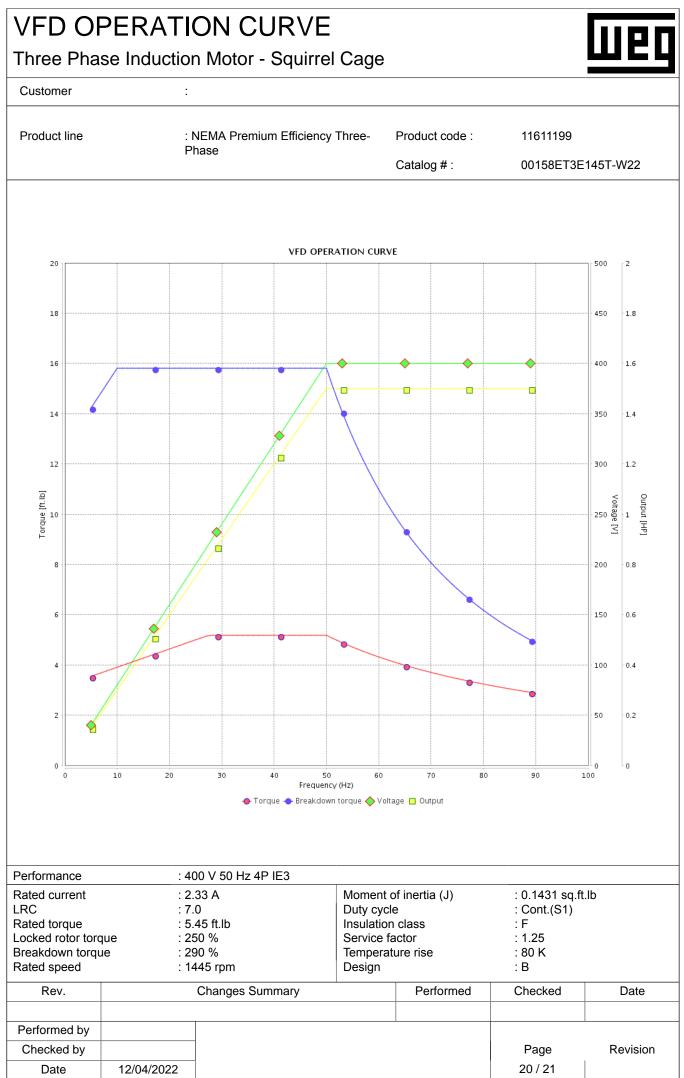
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Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	11611199
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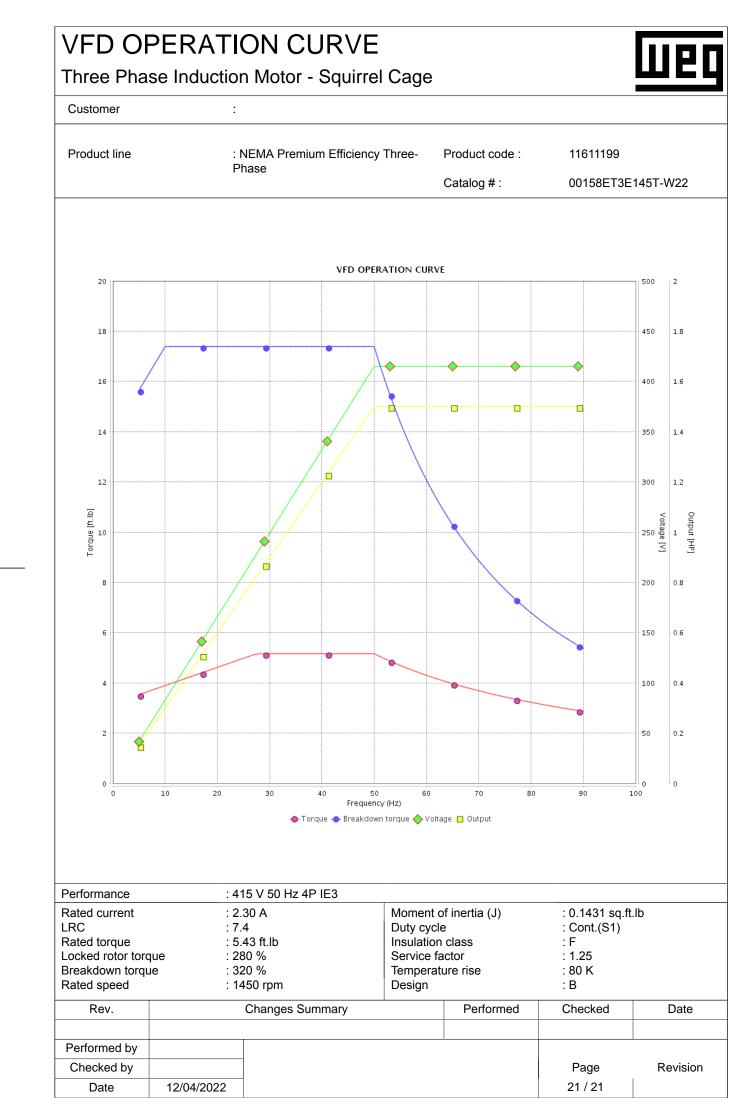
Performance	: 4	15 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 5 que : 2 ue : 3	30 A .4 .43 ft.lb 80 % 20 % 450 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1431 sq.ft : Cont.(S1) : F : 1.25 : 80 K : B	lb
Heating constan Cooling constan						
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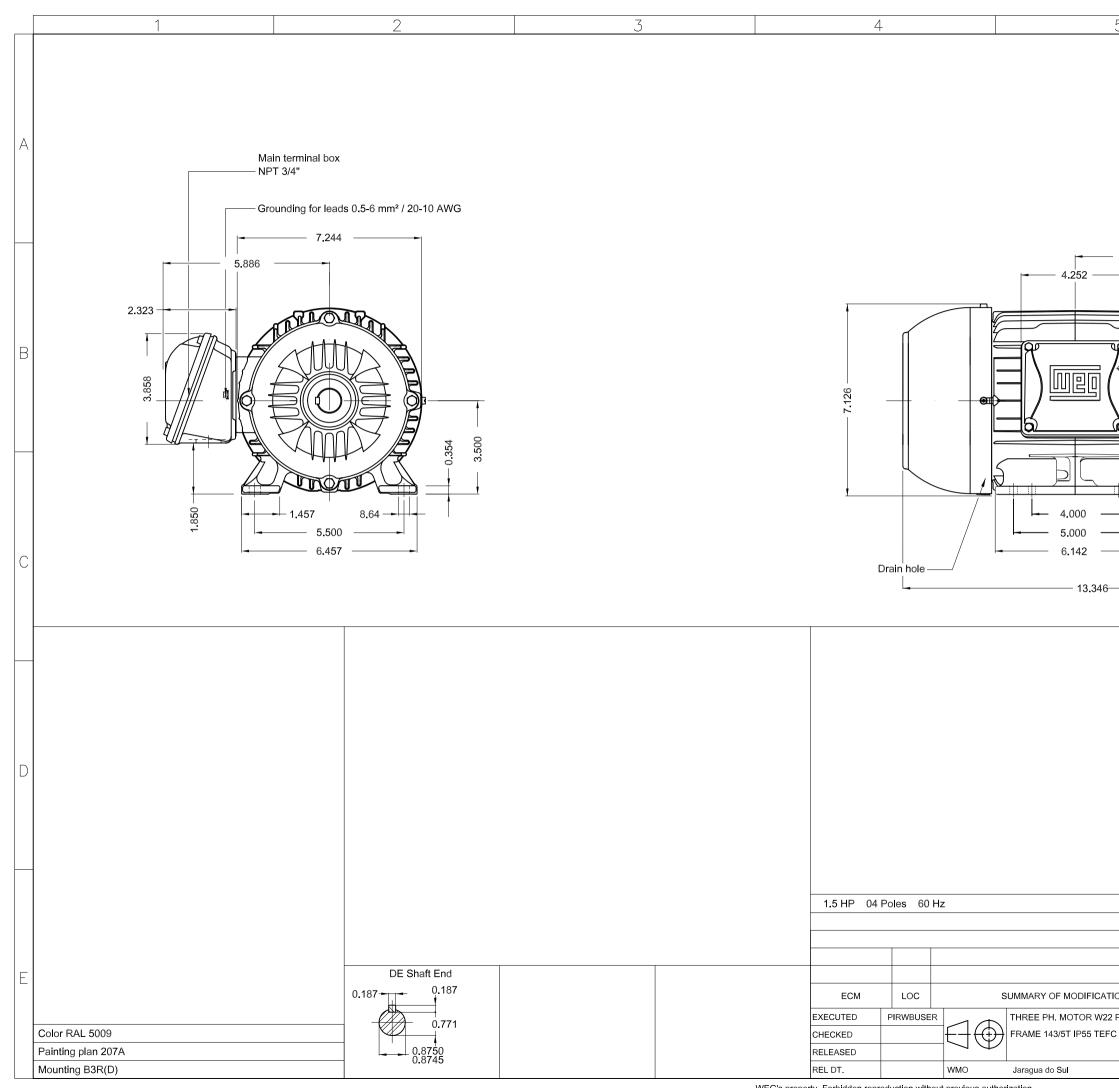












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