DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line		: NEMA Premium Effic	ciency T	hree- Pr	oduct code :	1418820	05
		Phase		Ca	atalog # :	00312X	T3E213TC
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: F M : Cont.(S1) F : -20°C to +40°C S : 1000 m.a.s.l. A		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 : 213 lb : 1.20 sq.ft.lb	
Output [HP]		3		3		3	3
Poles		6		6		5	6
Frequency [Hz]		60		50		0	50
Rated voltage [V]		230/460		380		00	415
Rated current [A]		8.82/4.41		5.28	5.		5.11
. R. Amperes [A]		61.7/30.9		31.7	33		35.8
.RC [A]		7.0x(Code K)	6 (0x(Code H)	6.5x(C		7.0x(Code K)
No load current [A]	1	5.20/2.60	0.0	2.40	2.		2.90
		1180		970	97		980
Rated speed [RPN	n]			3.00	2.5		
Slip [%]	1	1.67					2.00
Rated torque [ft.lb]		13.4		16.2		6.2	16.1
ocked rotor torqu		180		140		30	210
Breakdown torque	[%]	290		229	25		270
Service factor		1.15		1.00	1.(1.00
Temperature rise		80 K		80 K		K	80 K
ocked rotor time		104s (cold) 58s (hot)					72s (cold) 40s (hot)
Noise level ²		55.0 dB(A)	53.0 dB(A)		53.0 0		53.0 dB(A)
	25%	85.4	83.4		83		83.5
Efficiency (%)	50%	86.5	84.0			1.0	84.0
	75%	88.5		84.0	84	l.0	84.0
	100%	89.5		84.4	84		84.4
	25%	0.29		0.36	0.3	31	0.29
Dower Faster	50%	0.50		0.57	0.9	53	0.50
Power Factor	75%	0.62	Ì	0.70	0.0	66	0.64
	100%	0.70	İ	0.75	0.1	73	0.71
Bearing type Sealing					on	: 138 lb : 351 lb	
Lubrication interv		: -	-				
Lubricant amoun	t	: -	-				
Lubricant type		: Mobil Polyrex E	EM				
Notes USABLE @208V	9.75A SF 1.	15 SFA 11.2A	_				
must be eliminate (1) Looking the m (2) Measured at 1	d. otor from the m and with t veight subjec ocess.	ncel the previous one, where shaft end. olerance of +3dB(A). ot to changes after	hich				s with sinusoidal tipulated in NEMA
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ID	Application	Thermal protection Type	Quantity	Sonaina	Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	15	55 °C
_	Chang	ges Summary	Performed	Checked	Date
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TORQUE AND CURRENT VS SPEED CURVE

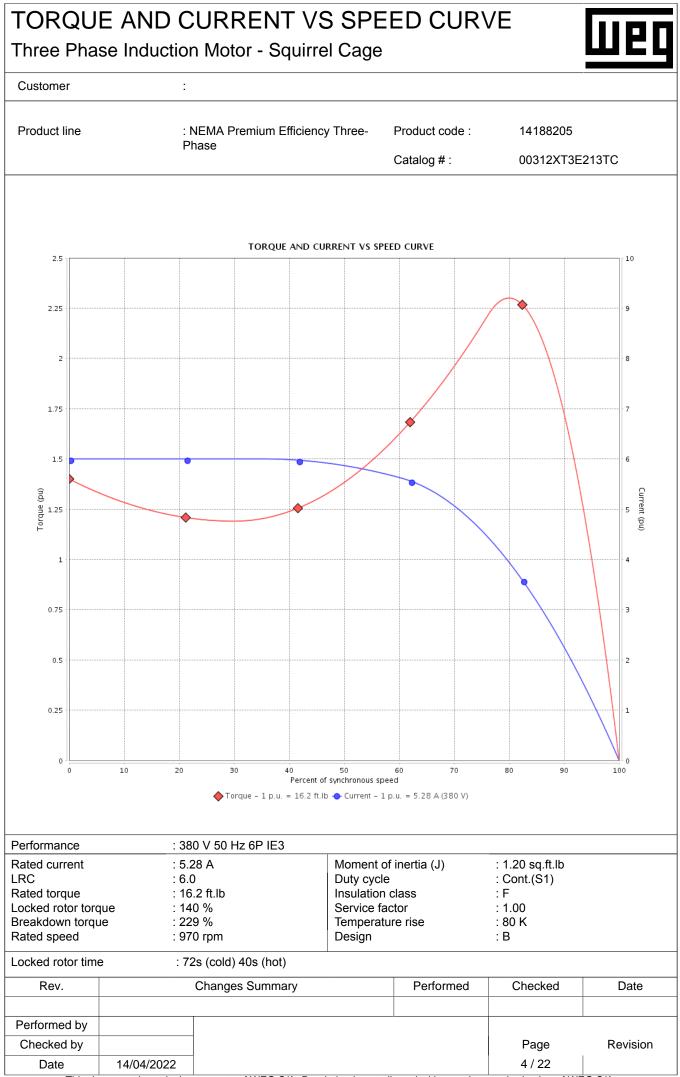
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line		NEMA Premium Efficiency T	hree- I	Product code :	14188205	
	ŀ	Phase	(Catalog # :	00312XT3E	213TC
		TORQUE AND CURR	ENT VS SPEEI	D CURVE		
3						10
2.7				/		9
2.4						8
2.1 -	•	•		*		7
1.8						6
(în d) 9 n 1.5 0 L						Current (pu)
Torg						(pu)
1.2						4
0.9						3
0.6						2
0.3						
0	10 20		50 6 chronous speed	0 70	80 90	100
		◆ Torque - 1 p.u. = 13.4 ft.lb	Current – 1 p.	u. = 4.41 A (460 V)		
erformance	: 2	30/460 V 60 Hz 6P				
ated current RC lated torque ocked rotor torq reakdown torqu lated speed	: 7 : 1 ue : 1 e : 2	.0 [3.4 ft.lb] 80 %	Moment of i Duty cycle nsulation c Service fact Femperatur Design	lass tor	: 1.20 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
ocked rotor time		104s (cold) 58s (hot)	-			
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TORQUE AND CURRENT VS SPEED CURVE

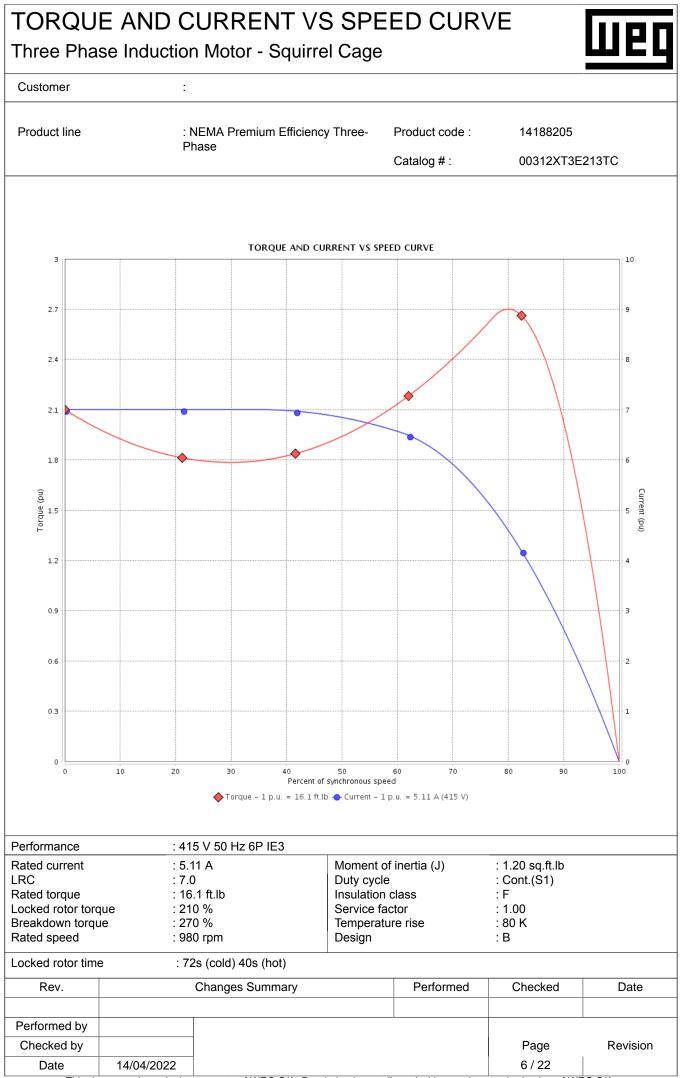
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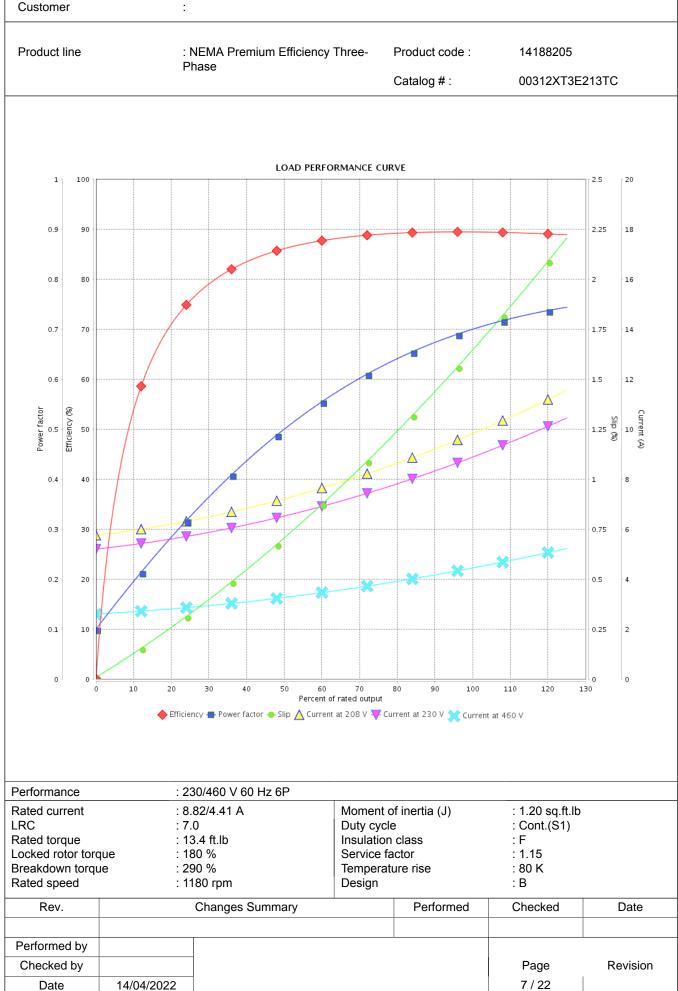
Customer

Product line		: NEMA Premium Efficiency	Three-	Product code :	14188205	
		Phase		Catalog # :	00312XT3E	213TC
		TORQUE AND CURI	RENT VS SPE	ED CURVE		
3						10
2.7						
2.4 -						8
2.1						7
1.8	_	•				6
(nd) an 1.5 L		•				Current (pu)
1.2						4
0.9						
0.6 -						2
0.3 -						1
0	10 2	0 30 40 Percent of sy Torque - 1 p.u. = 16.2 ft.lb	50 nchronous spee • Current - 1 p		80 90	100
erformance ated current RC		6.5	Duty cycle		: 1.20 sq.ft.lb : Cont.(S1)	
ated torque ocked rotor to reakdown toro ated speed	rque	: 180 % : 250 %	Insulation Service fac Temperatu Design	ctor	: F : 1.00 : 80 K : B	
ocked rotor tin	ne	: 72s (cold) 40s (hot)				
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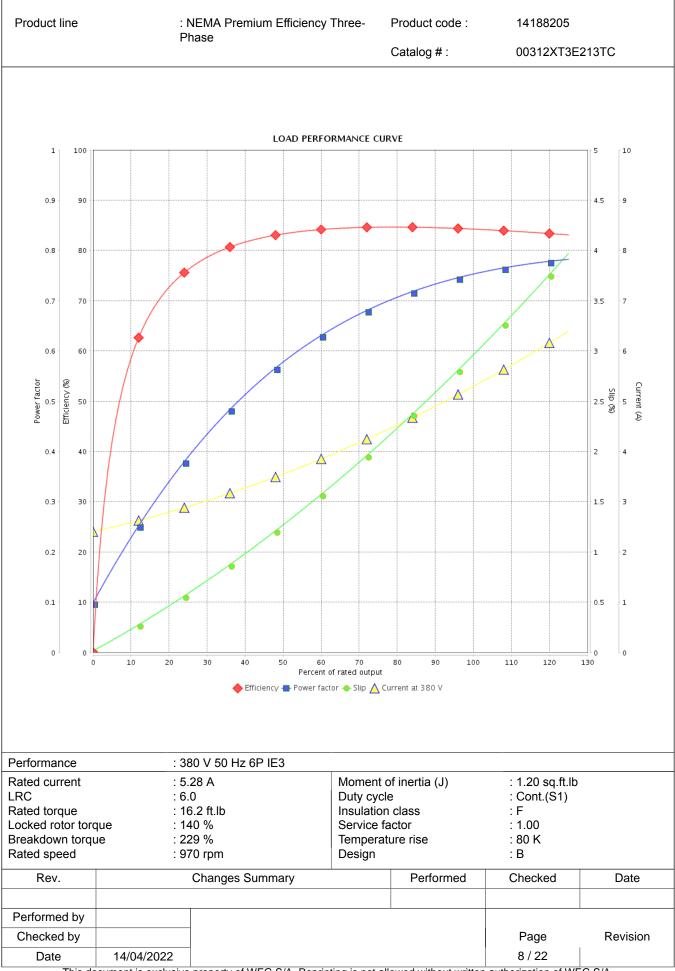
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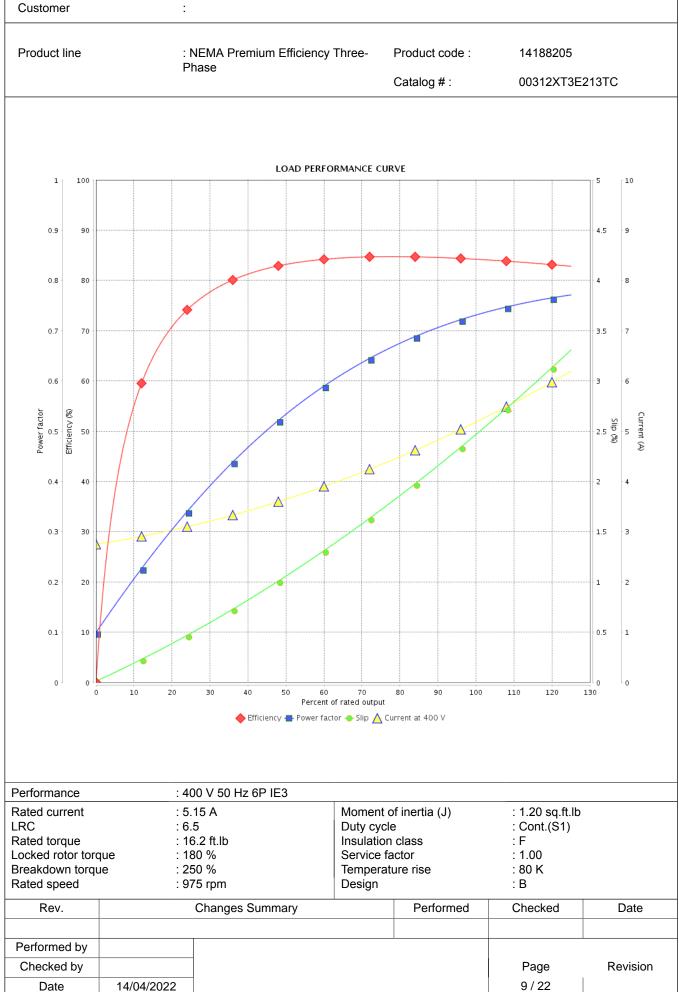


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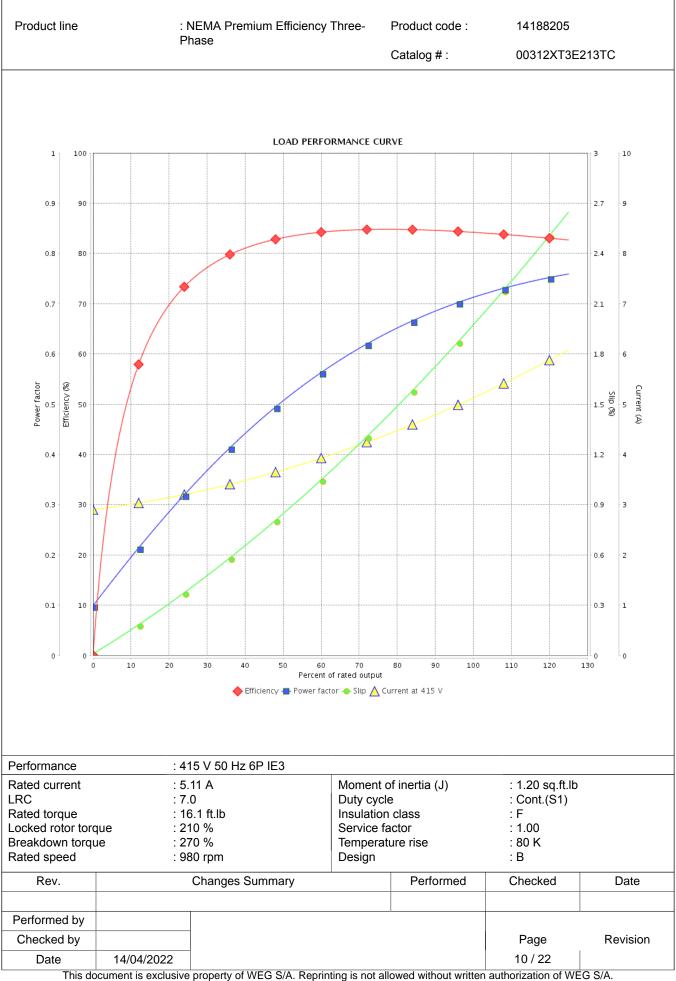
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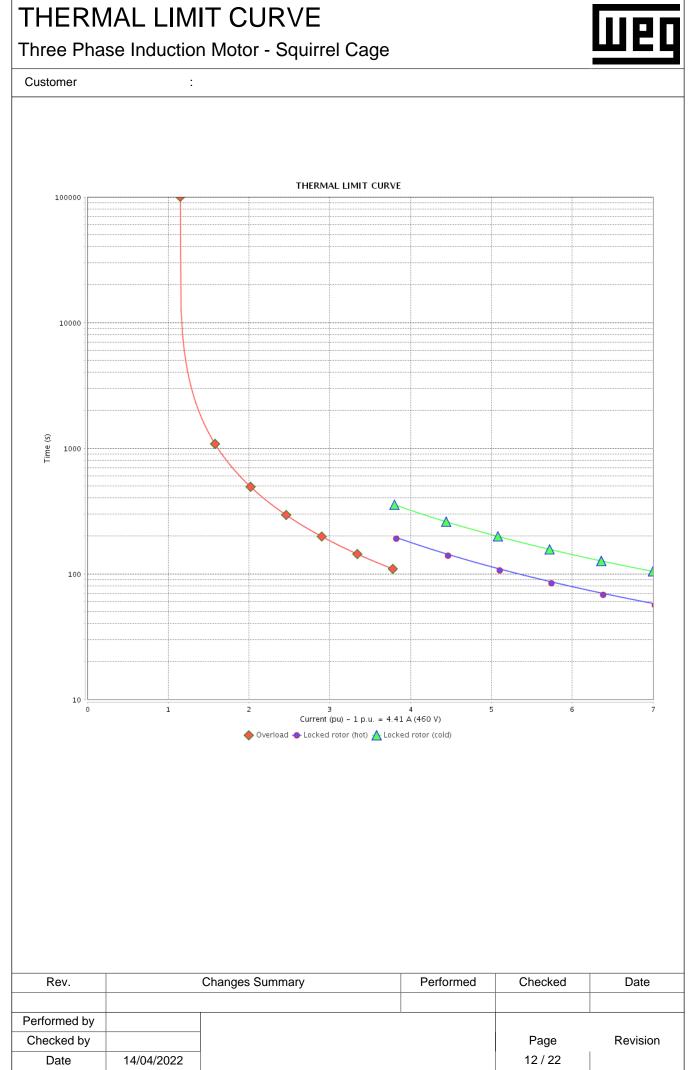
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Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14188205
	Phase	Catalog # :	00312XT3E213TC

Шеq

Performance	: 23	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7. : 13 jue : 18 ie : 29	82/4.41 A 0 3.4 ft.lb 80 % 90 % 180 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.20 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant	:					
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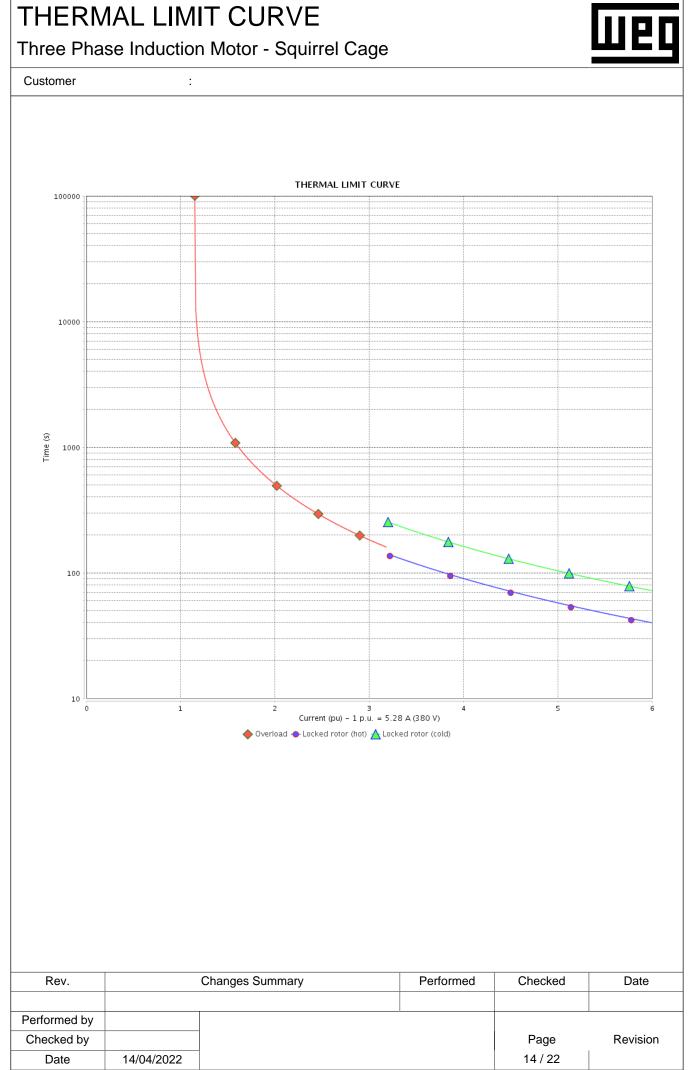
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14188205
	Phase	Catalog # :	00312XT3E213TC

Шеq

Performance	: 3	380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 6 : 1 iue : 1 ie : 2 : 9	5.28 A 6.0 16.2 ft.lb 140 % 229 % 970 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design		: 1.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
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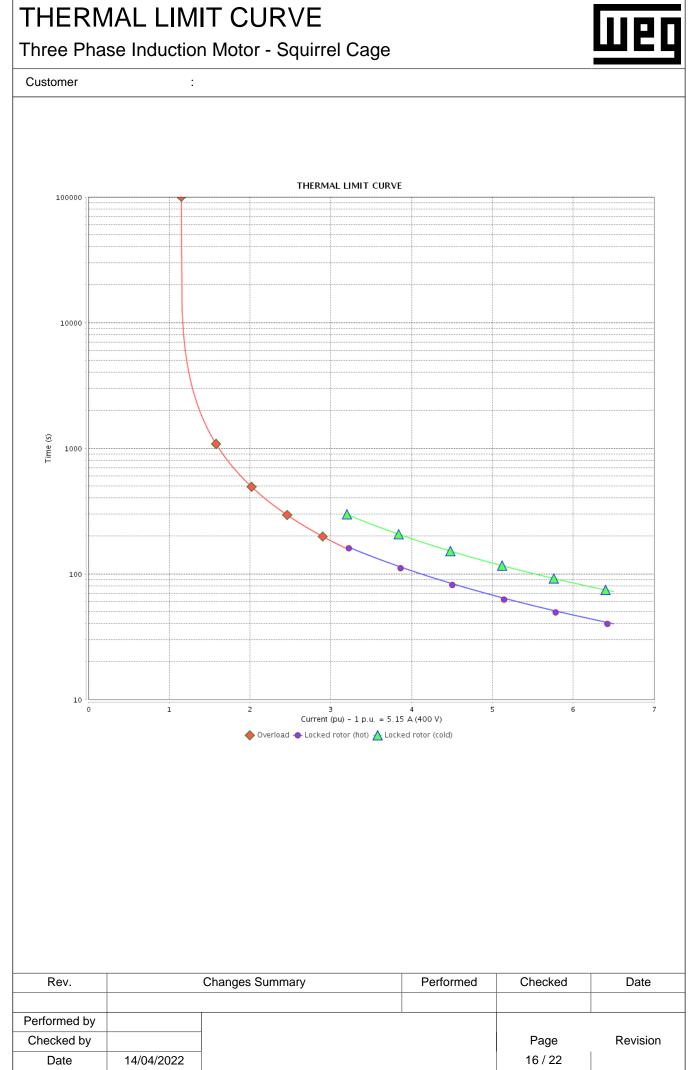
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Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14188205
	Phase	Catalog # :	00312XT3E213TC

Шеq

Performance	: 4	00 V 50 Hz 6P IE3					
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 6 : 1 jue : 1 ie : 2	5 AMoment of inertia (J)5 ADuty cycle2 ft.lbInsulation class0 %Service factor0 %Temperature rise5 rpmDesign		class ctor	: 1.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B		
Heating constant							
Cooling constant							
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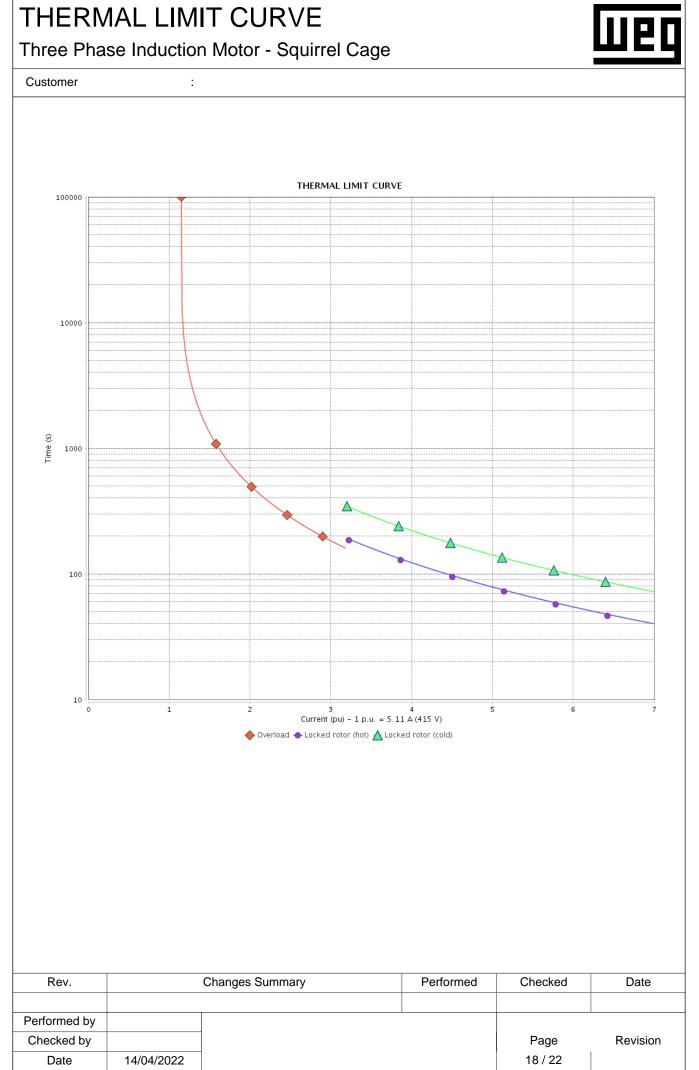
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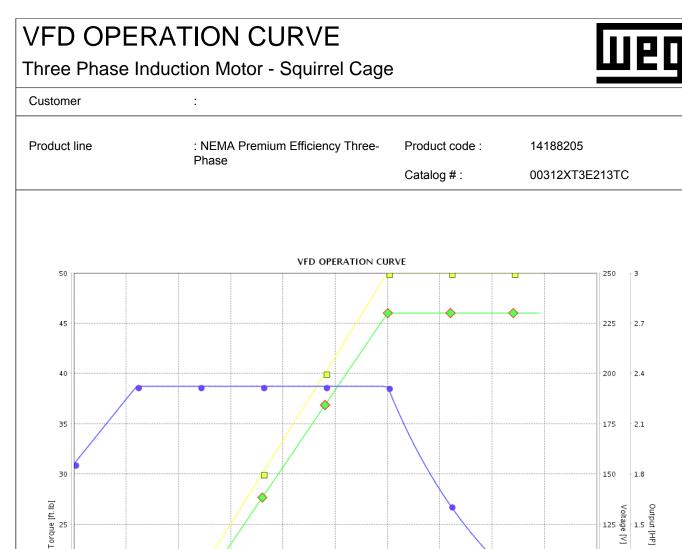
: NEMA Premium Efficiency Three-	Product code :	14188205
Phase	Catalog # :	00312XT3E213TC

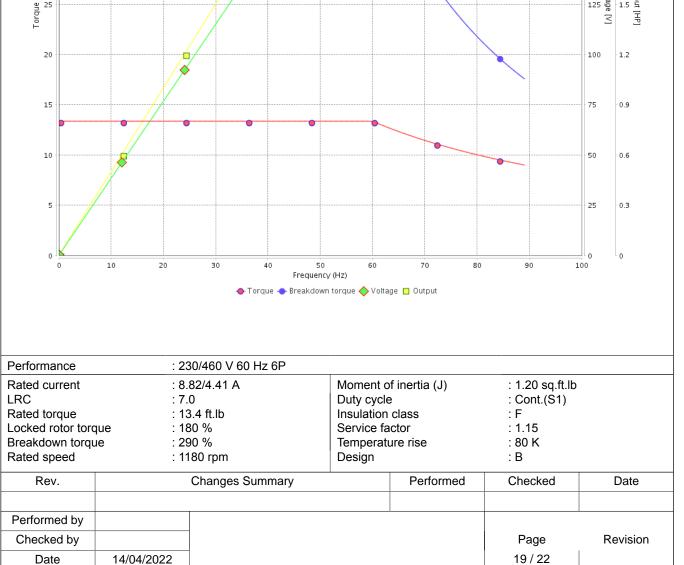
Шеq

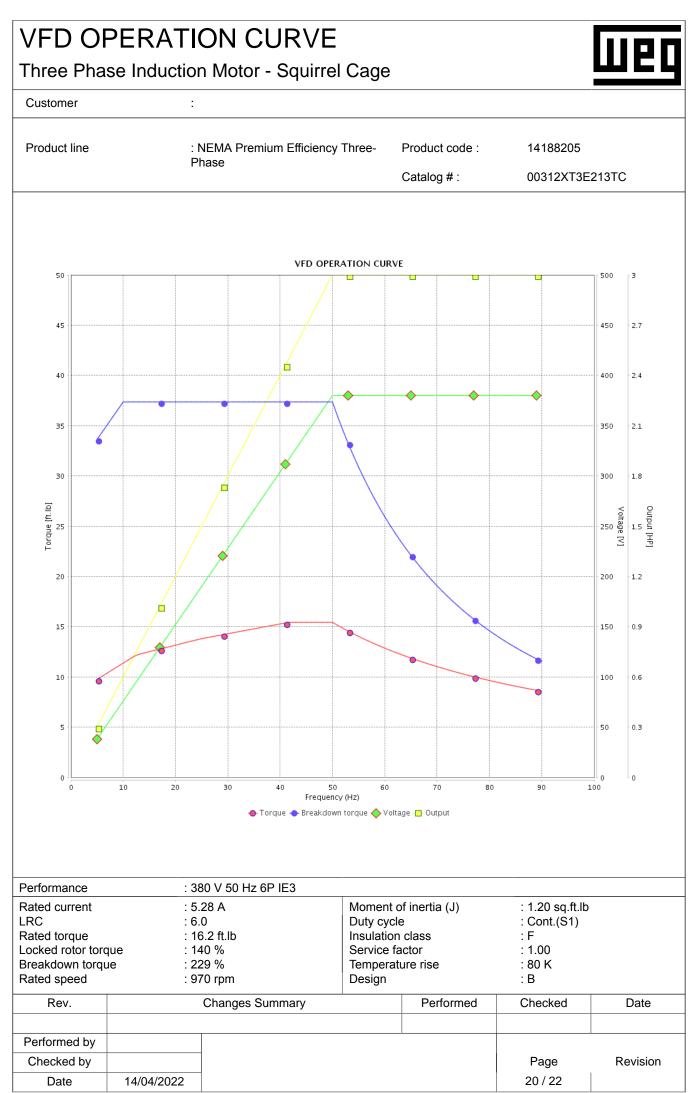
Performance	: 47	15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7. : 16 iue : 27	11 A 0 6.1 ft.lb 10 % 70 % 80 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 1.20 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	t					
Cooling constant	:					
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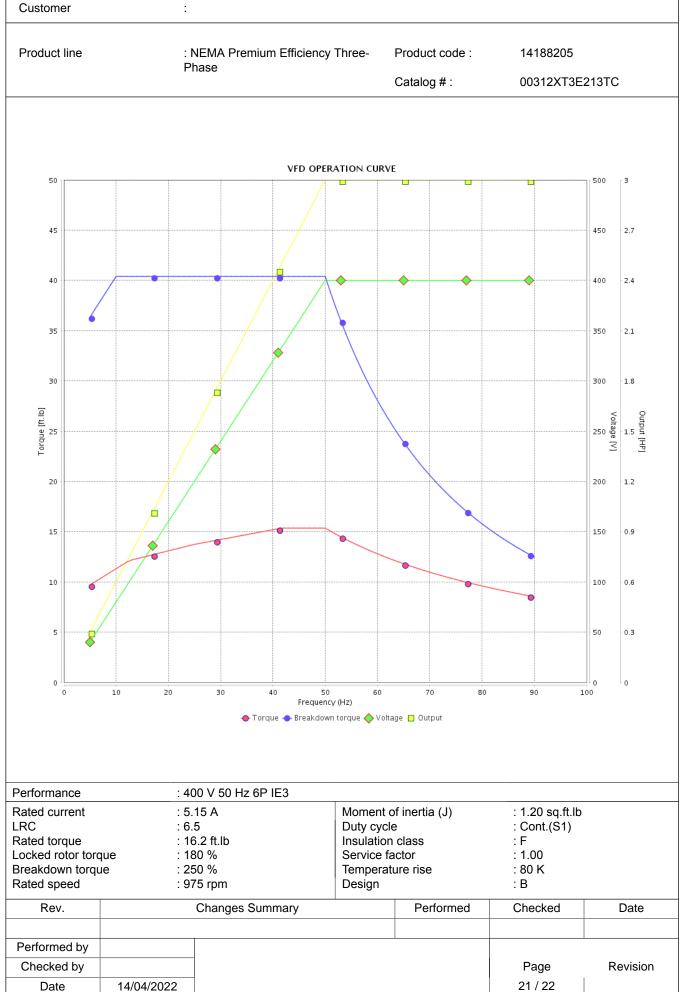




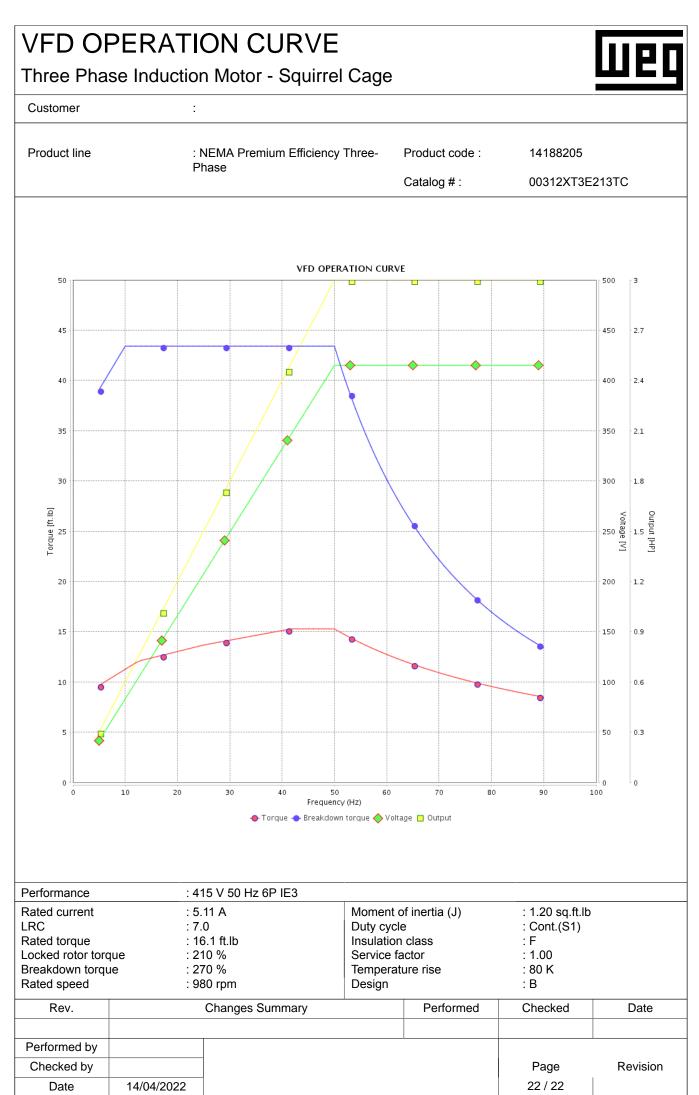
VFD OPERATION CURVE

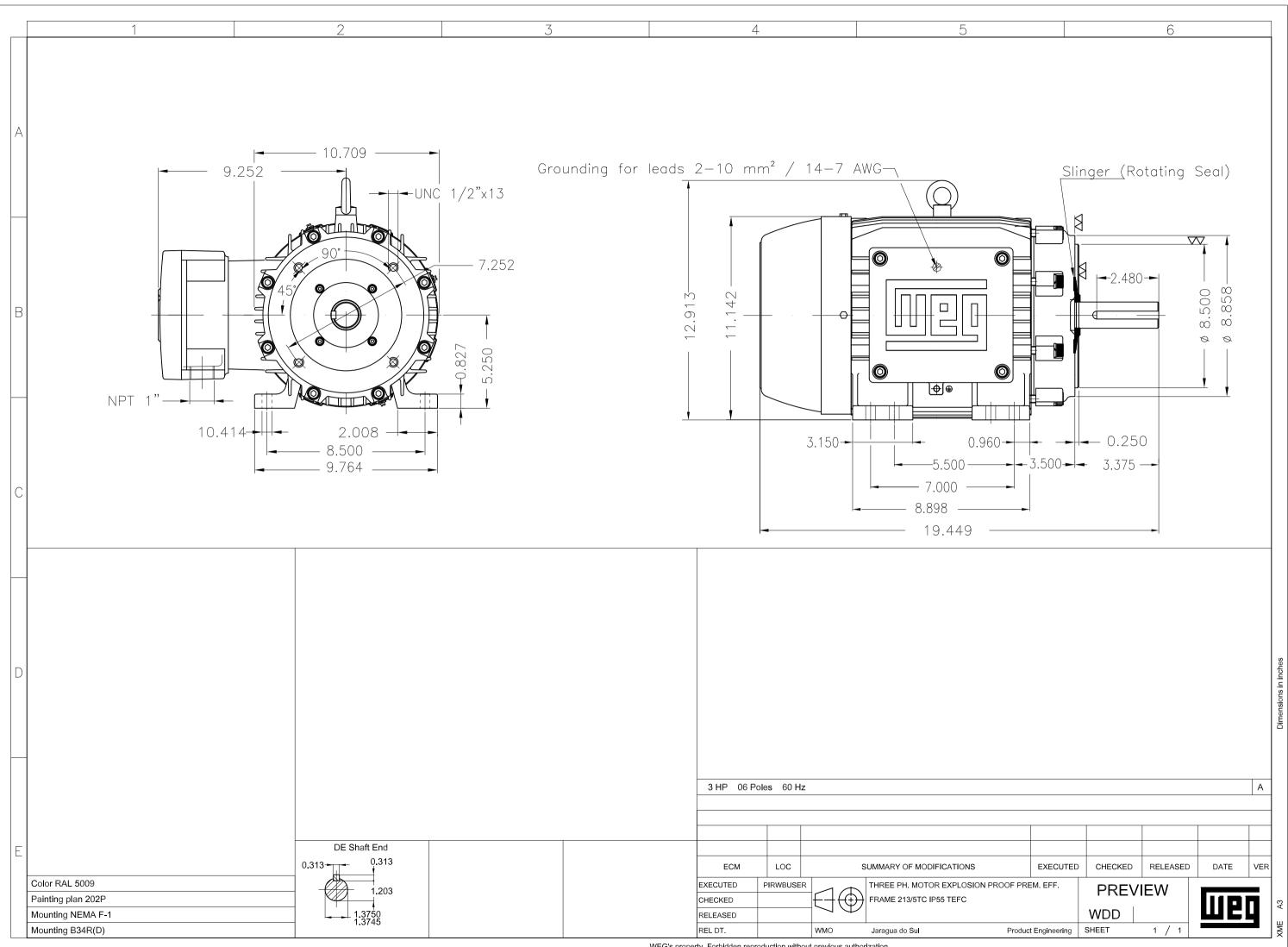
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