DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line	Product line : NEMA Premium Effic Phase		ciency T	hree- Pr	oduct code :	124089	86
		i nuoc		Ca	atalog # :	07518X	T3E365TC
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degree Design	lation class: FMountingcycle: Cont.(S1)Rotation1ient temperature: -20°C to +40°CStarting methodude: 1000 m.a.s.l.Approx. weight3ection degree: IP55Moment of inertia (J)		nethod reight ³	: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 1043 lb : 23.3 sq.ft.lb			
Output [HP]		75		60	6	0	60
Poles		4	1	4		¥	4
Frequency [Hz]		60		50	5		50
Rated voltage [V]		230/460		380	40		415
Rated current [A]		166/83.2		83.2	79		78.5
L. R. Amperes [A]		1281/641		599	62		667
LRC [A]		7.7x(Code H)	7.2	2x(Code H)	7.8x(C		8.5x(Code J)
No load current [A		56.0/28.0		30.0	30		32.0
Rated speed [RPN	/]	1780		1480		80	1483
Slip [%]		1.11		1.33	1.:		1.13
Rated torque [ft.lb]		221		213	21		212
Locked rotor torqu		240		220	25		270
Breakdown torque	[%]	290		280	31		340
Service factor		1.15		1.00	1.0		1.00
Temperature rise		80 K		80 K	80		80 K
Locked rotor time		28s (cold) 16s (hot)		cold) 15s (hc			27s (cold) 15s (hot)
Noise level ²		75.0 dB(A)	7	'0.0 dB(A)	70.0 0		70.0 dB(A)
Efficiency (%)	25%	94.0		94.0 94.1	94		93.0
	50%	94.5			94		93.6
	75%	95.0	94.5		94		94.5
	100%	95.4	94.5		94		95.0
	25%	0.49		0.48	0.4		0.42
Power Factor	50%	0.74		0.74	0.		0.67
	75%	0.83		0.83	0.0		0.79
	100%	0.87	rive end	0.87 Ecundation	0.8	50	0.84
Bearing type			14 C3			4054	
Sealing		: Oil Seal Lip		Max. tracti		: 1954 lt : 2997 lt	
Lubrication interv	/al		789 h	Max. comp	06221011	. 2997 1	J
Lubricant amoun			27 g				
Lubricant type		: Mobil Polyrex E					
Notes USABLE @208V	184A SF 1.0	00 SFA 184A		1			
must be eliminate (1) Looking the m (2) Measured at 1	ed. lotor from the Im and with t weight subjec ocess.	ncel the previous one, where the previous one, where shaft end. olerance of +3dB(A). Set to changes after	hich				ts with sinusoidal stipulated in NEMA
Rev.		Changes Summary	,		Performed	Checked	Date
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Date	13/04/202	2				1/22	
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ID	Application	Туре	Quantity	Sensing ⁻	Temperature
1	Winding	Thermostat - 2 wires	1 x Phase		55 °C
I .	winding	memostat - 2 wires	I X FIIdSe	K	55 C
Devi			Dorforme a -l	Chaskad	Dete
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TORQUE AND CURRENT VS SPEED CURVE

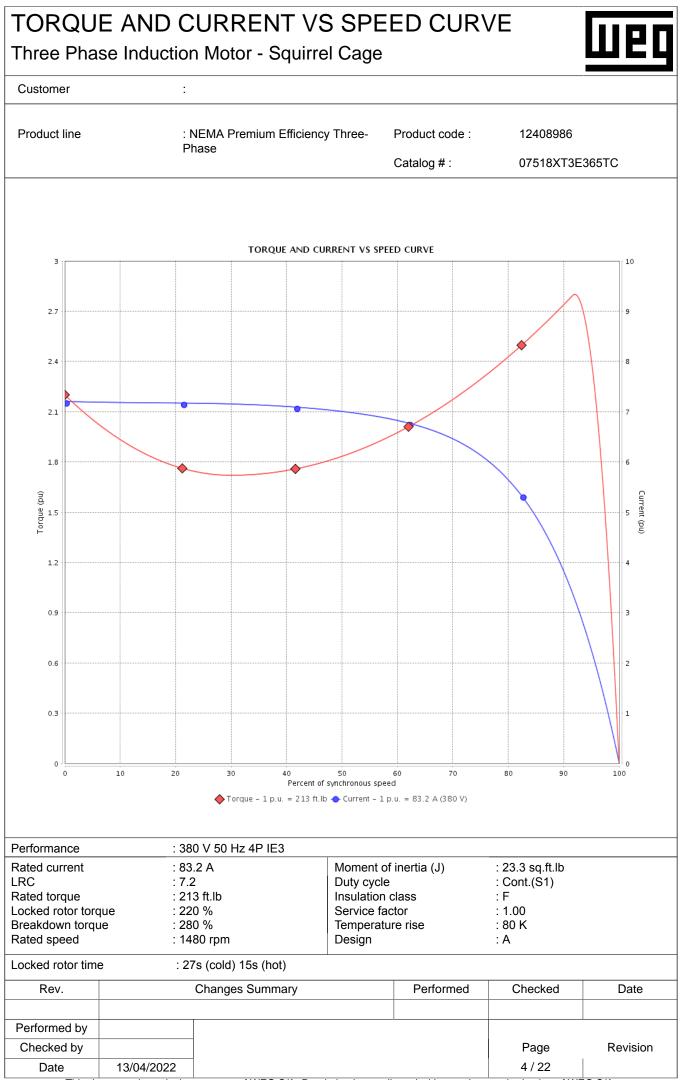
Three Phase Induction Motor - Squirrel Cage

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Customer

Product line	: NEMA Premium Effici	iency Three- Product	code : 12408986	
	Phase	Catalog	#: 07518XT3E	E365TC
	TORQUE AN	D CURRENT VS SPEED CURVE		
3				10
2.7				
2.4				8
	• •			
2.1				7
1.8	•			6
în dj an 1.5 H				Current (pu)
1.2				4
0.9			\	3
0.6				2
0.3				1
0				
0 1		50 60 ent of synchronous speed	70 80 90	100
	✓ Forque – 1 p.u. = 22	21 ft.lb 🔶 Current – 1 p.u. = 83.2 A	(460 V)	
erformance	: 230/460 V 60 Hz 4P			
ated current RC ated torque ocked rotor torque reakdown torque	: 166/83.2 A : 7.7 : 221 ft.lb : 240 % : 290 %	Moment of inertia (Duty cycle Insulation class Service factor Temperature rise	J) : 23.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K	
ated speed	: 1780 rpm	Design	: A	
Rev.	: 28s (cold) 16s (hot) Changes Summary	Perf	ormed Checked	Date
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TORQUE AND CURRENT VS SPEED CURVE

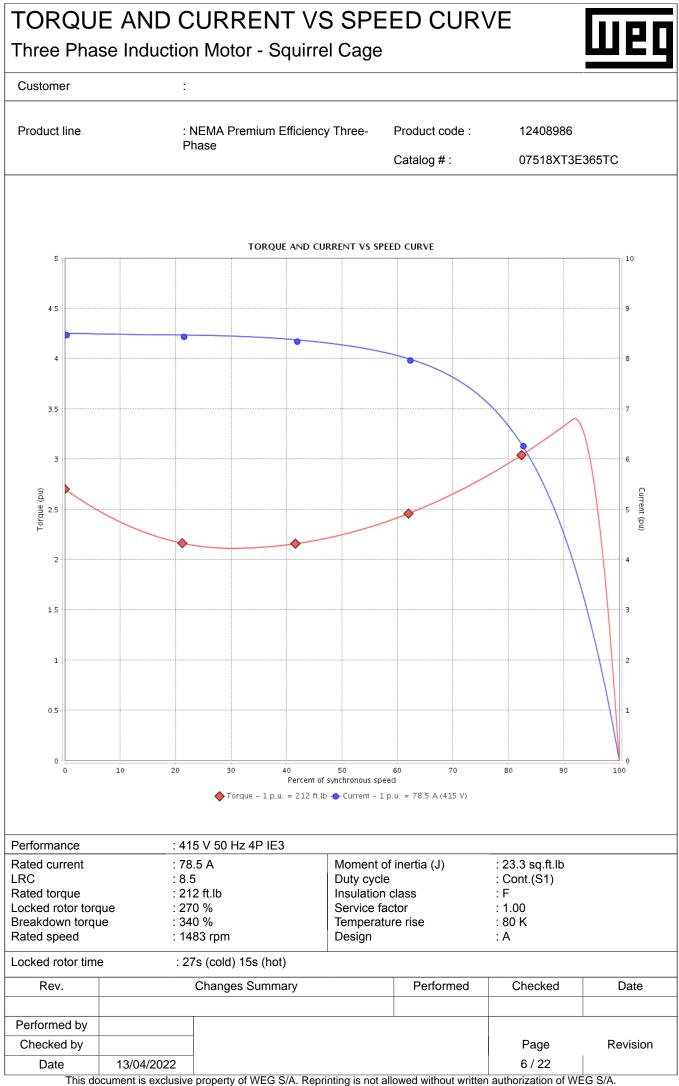
Three Phase Induction Motor - Squirrel Cage

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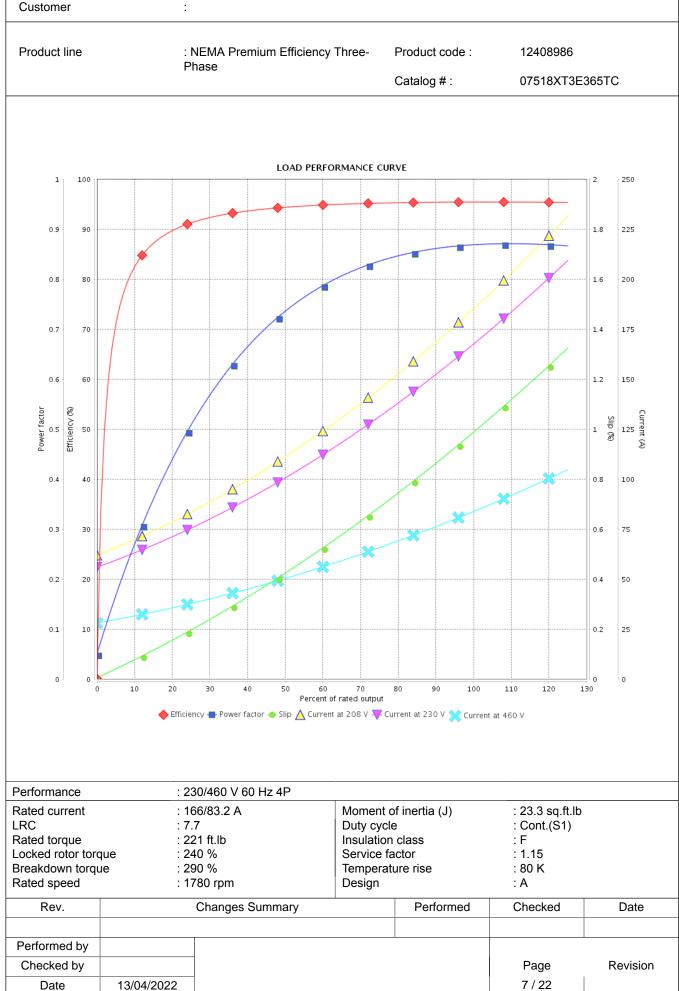


Product line		: NEMA Premium Efficiency Three- Phase		Product code :	12408986	
		FlidSe		Catalog # :	07518XT3E3	365TC
		TORQUE AND CU	RENT VS SPE	ED CURVE		
5						10
4.5						9
4		•				8
3.5						7
2.2						
3						6
_						
(nd) 2.5						Current (pu)
Tor						(nd)
2		◆ ◆				4
1.5						
1						2
0.5						1
0						
0	10 20		50 Synchronous spee	60 70 d	80 90	100
		♦ Torque - 1 p.u. = 213 ft.lb	🔶 Current – 1 p	.u. = 79.9 A (400 V)		
Performance Rated current		400 V 50 Hz 4P IE3 79.9 A	Moment of	inertia (J)	: 23.3 sq.ft.lb	
.RC Rated torque		7.8 213 ft.lb	Duty cycle		: Cont.(S1) : F	
ocked rotor toro Breakdown torqu	que :	250 % 310 %	Service fac Temperatu	tor	: 1.00 : 80 K	
Rated speed		1480 rpm	Design		: A	
ocked rotor time	e	27s (cold) 15s (hot)				
Rev.		Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage

Customer



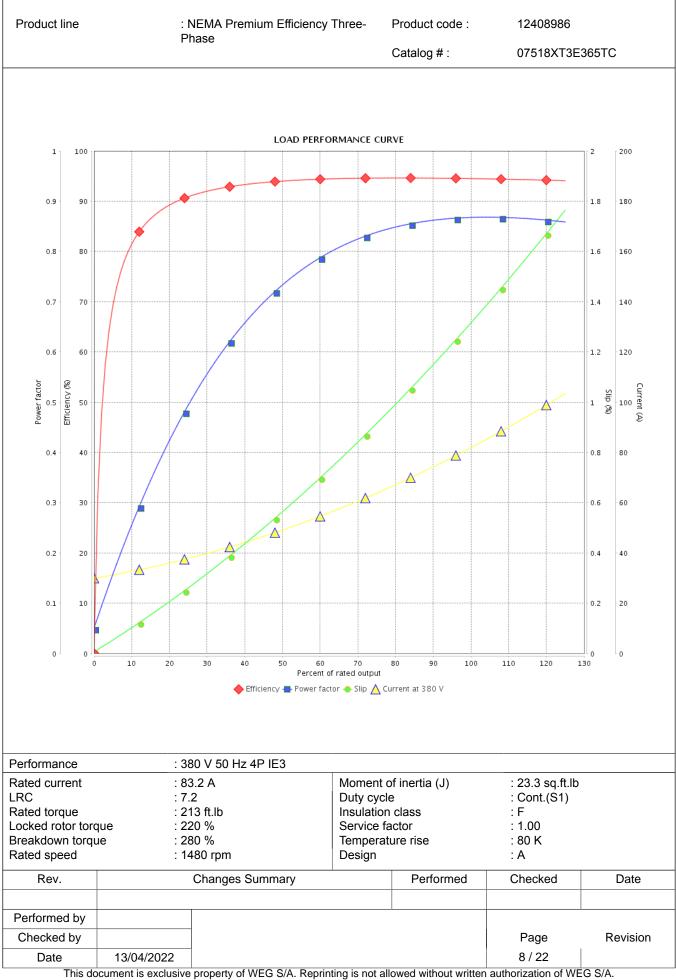
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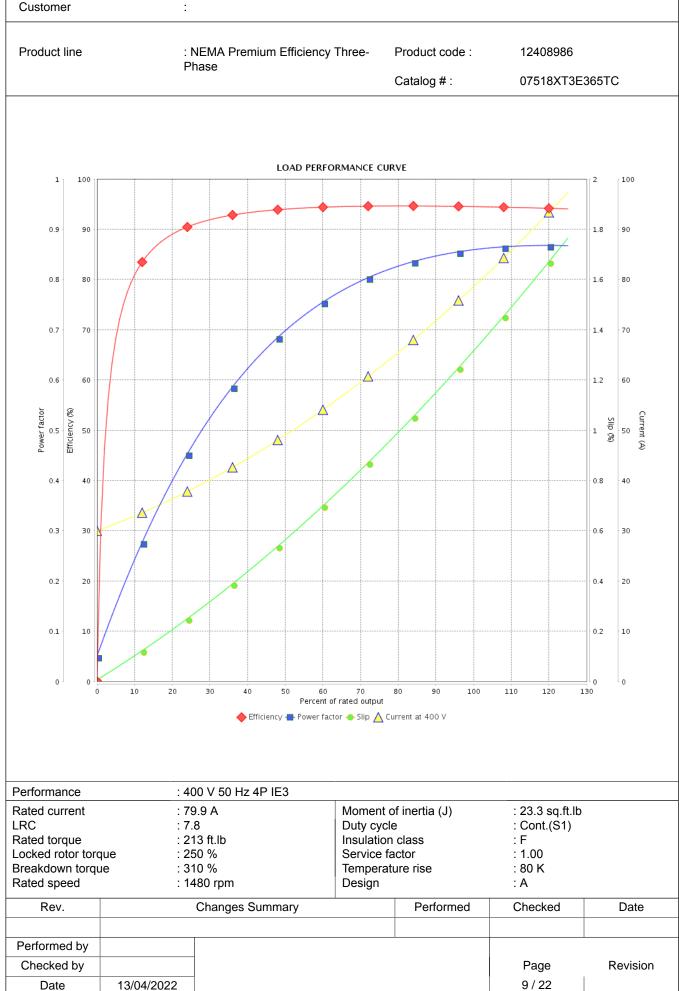


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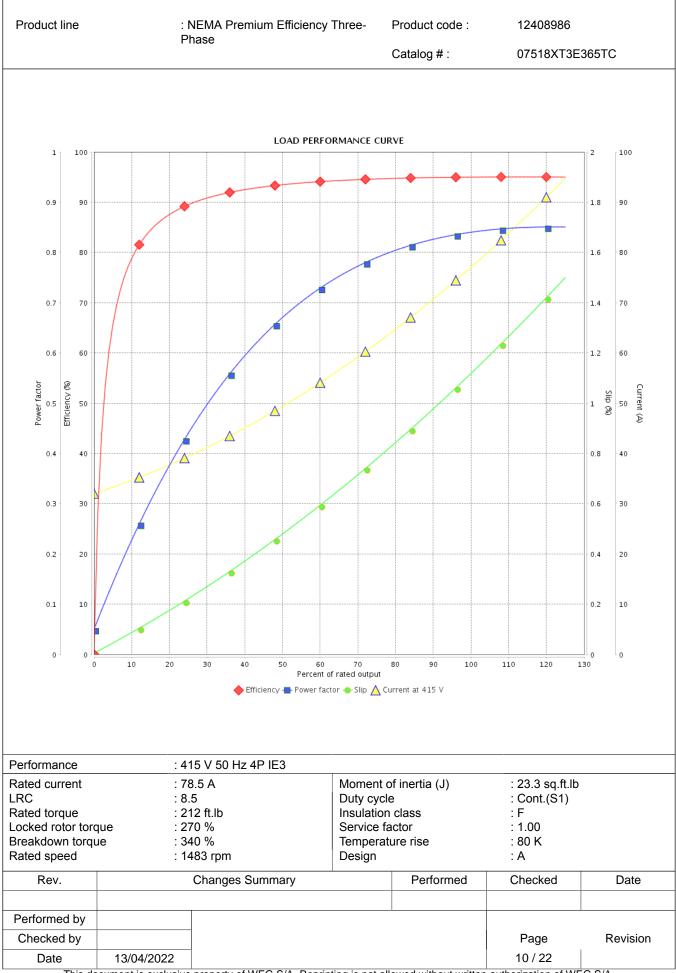
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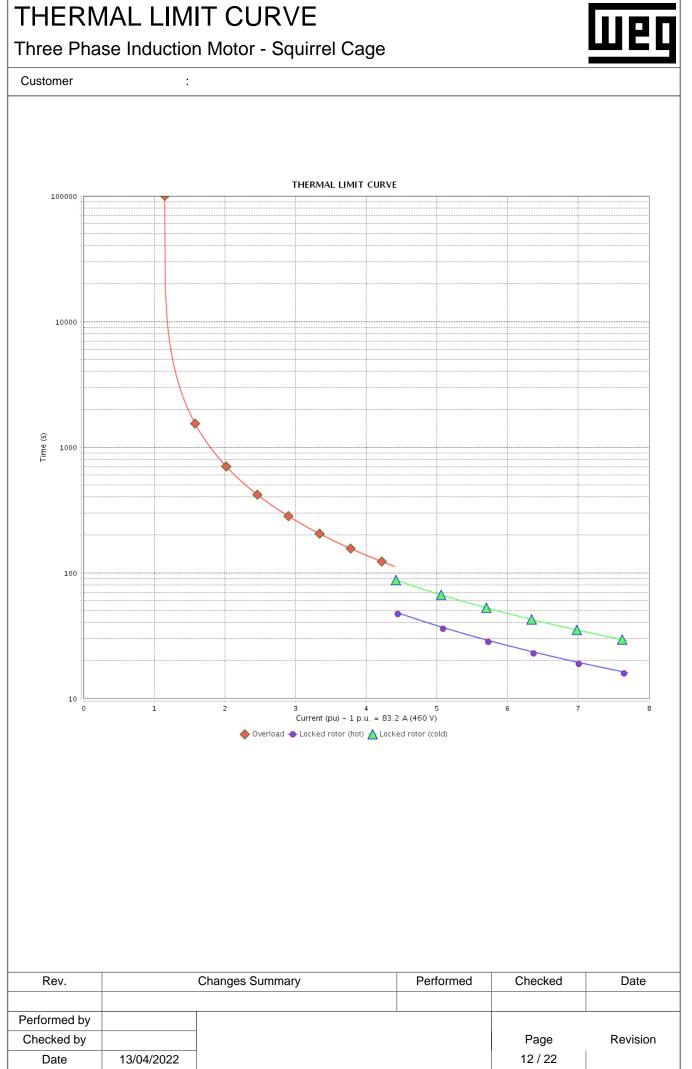
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	12408986
	Phase	Catalog # :	07518XT3E365TC

Шед

Performance	: 2	30/460 V 60 Hz 4P				
Rated current: 166/83.2 ALRC: 7.7Rated torque: 221 ft.lbLocked rotor torque: 240 %Breakdown torque: 290 %Rated speed: 1780 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : A		
Heating constant	I					
Cooling constant						
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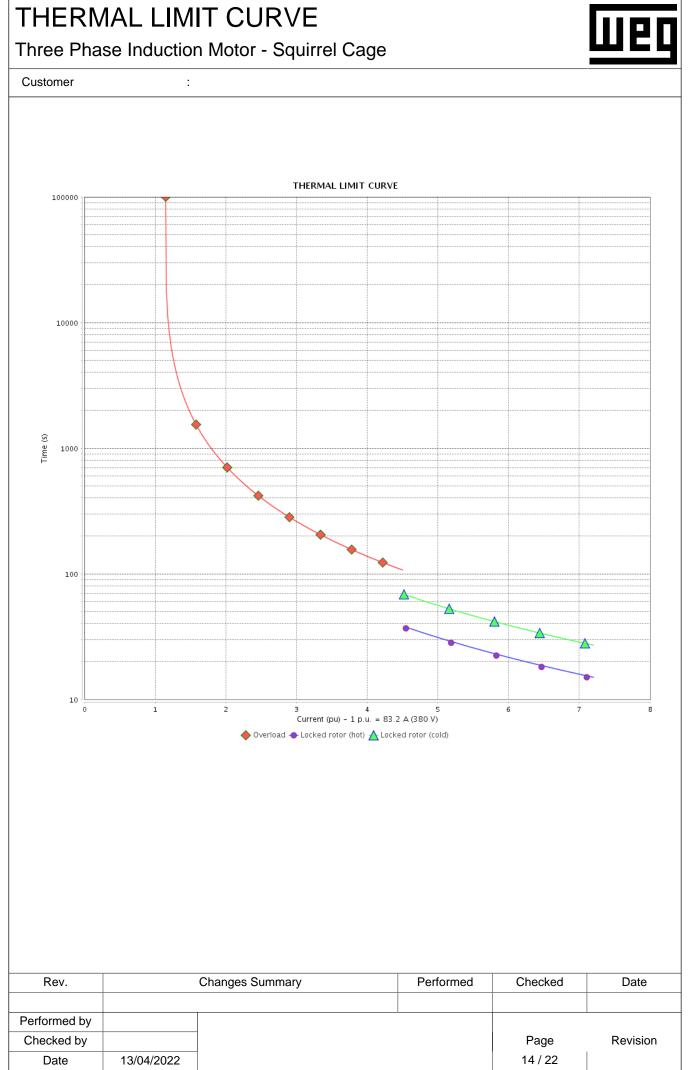
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	12408986
	Phase	Catalog # :	07518XT3E365TC

Шед

Performance	: 38	80 V 50 Hz 4P IE3	0 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	iue : 22	3.2 AMoment of iner2Duty cycle13 ft.lbInsulation class20 %Service factor30 %Temperature ris480 rpmDesign		class	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : A		
Heating constant	[
Cooling constant							
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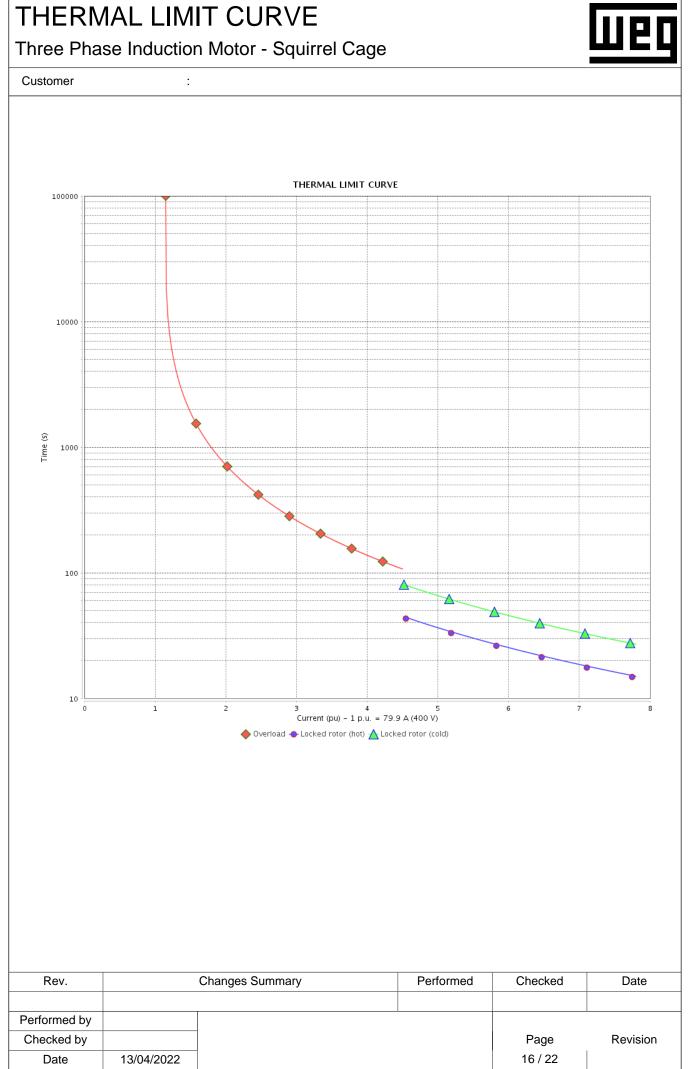
Three Phase Induction Motor - Squirrel Cage

Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	12408986
	Phase	Catalog # :	07518XT3E365TC

Шед

Performance	: 4	00 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torqu Rated speed	: 7 : 2 jue : 2 ie : 3	9.9 AMoment of i.8Duty cycle13 ft.lbInsulation cl50 %Service fact10 %Temperature480 rpmDesign		class ctor	: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : A	
Heating constant						
Cooling constant						
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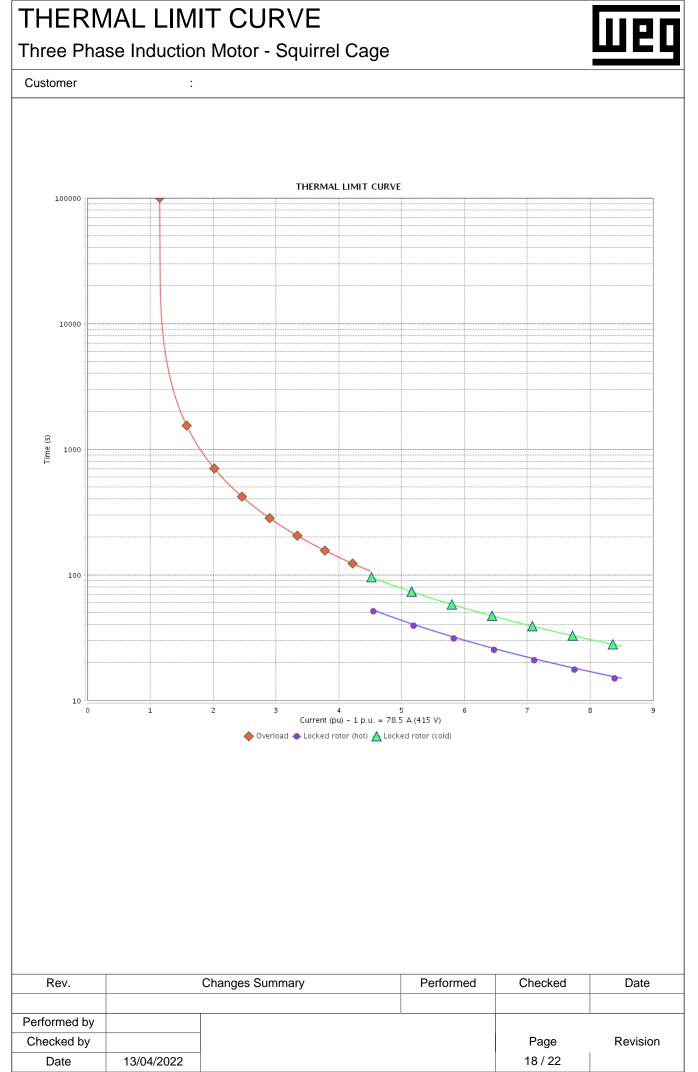
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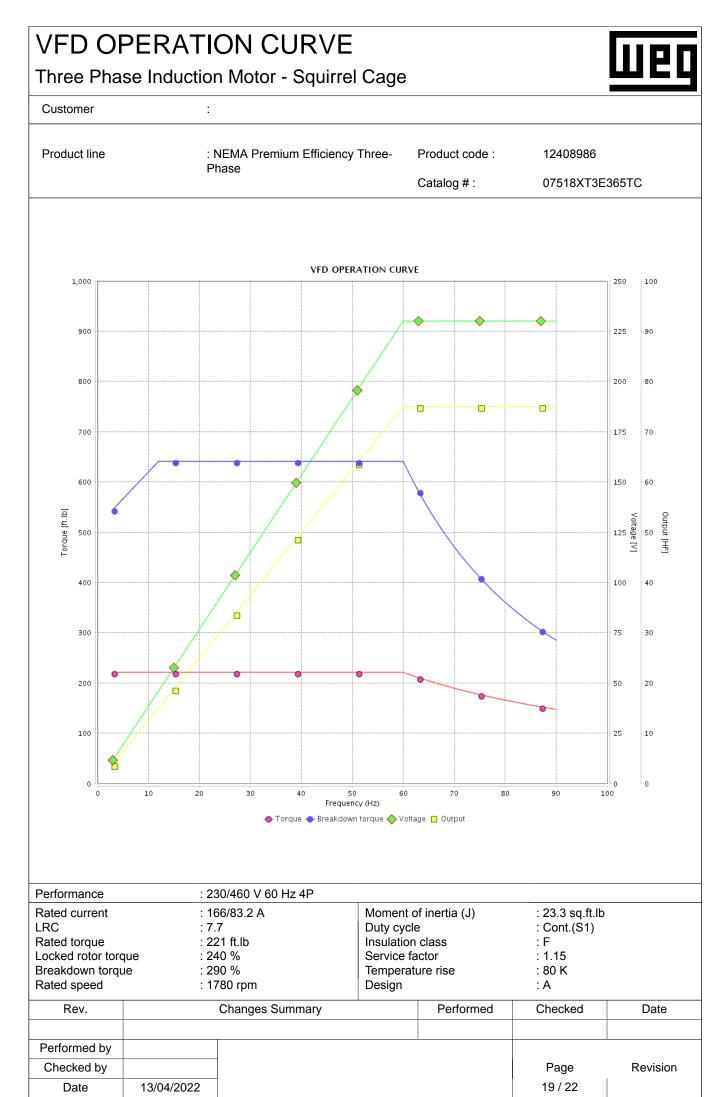
Catalog # : 07518XT3E365TC	Product line	: NEMA Premium Efficiency Three-	Product code :	12408986
		Phase	Catalog # :	07518XT3E365TC

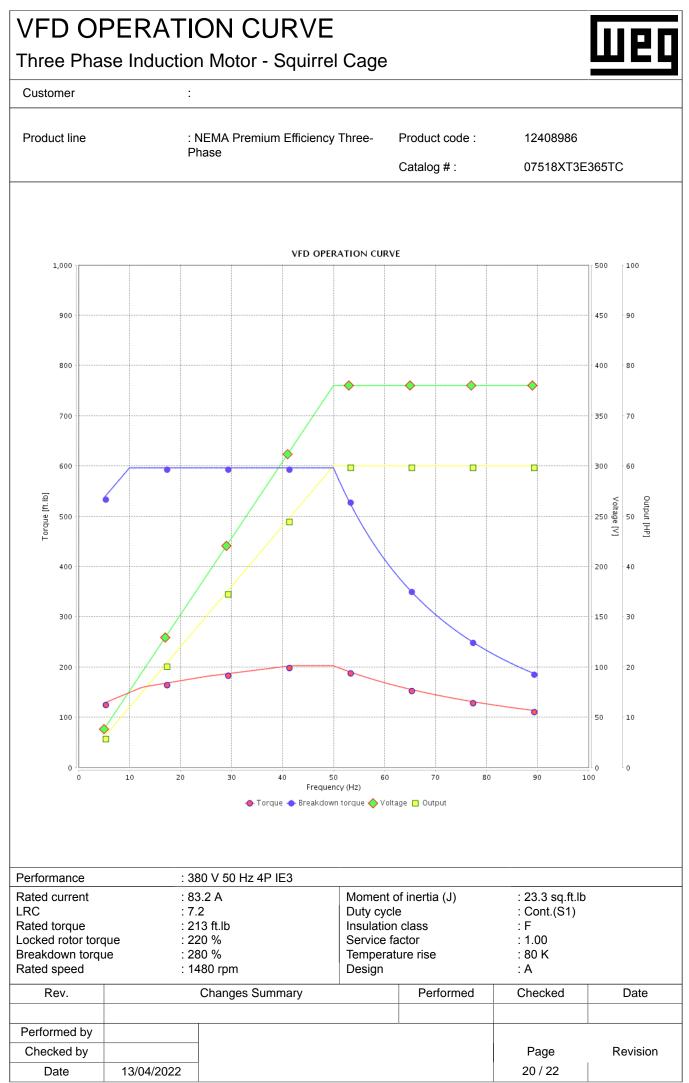
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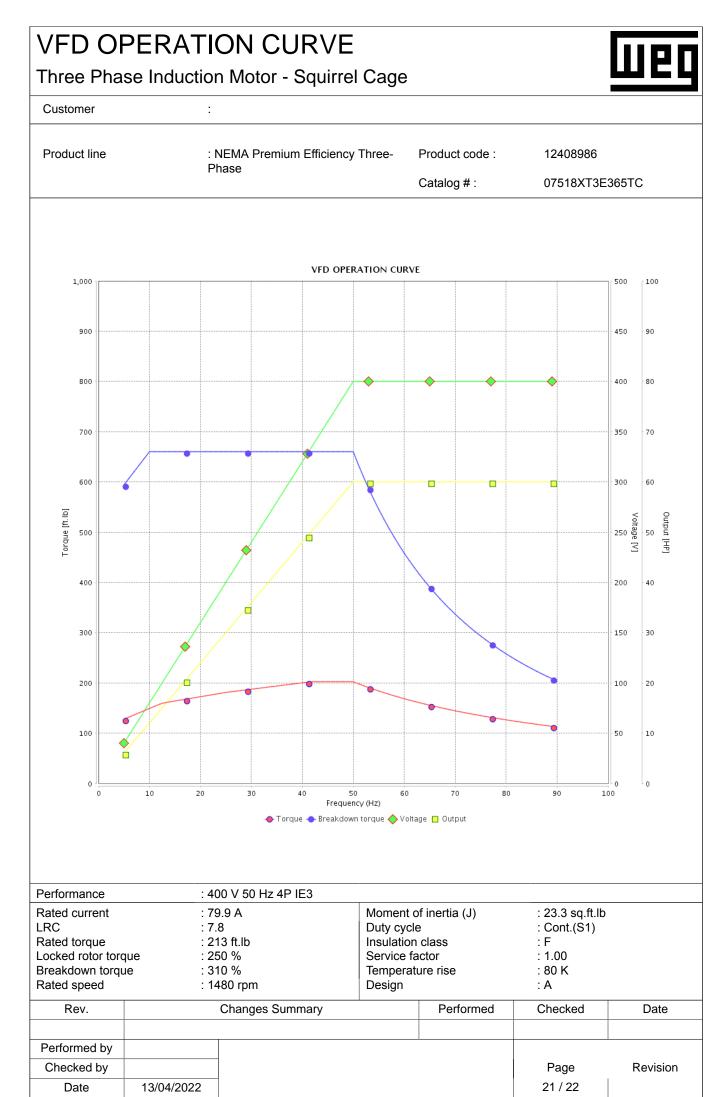
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue e	: 78.5 A : 8.5 : 212 ft.lb : 270 % : 340 % : 1483 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 23.3 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : A	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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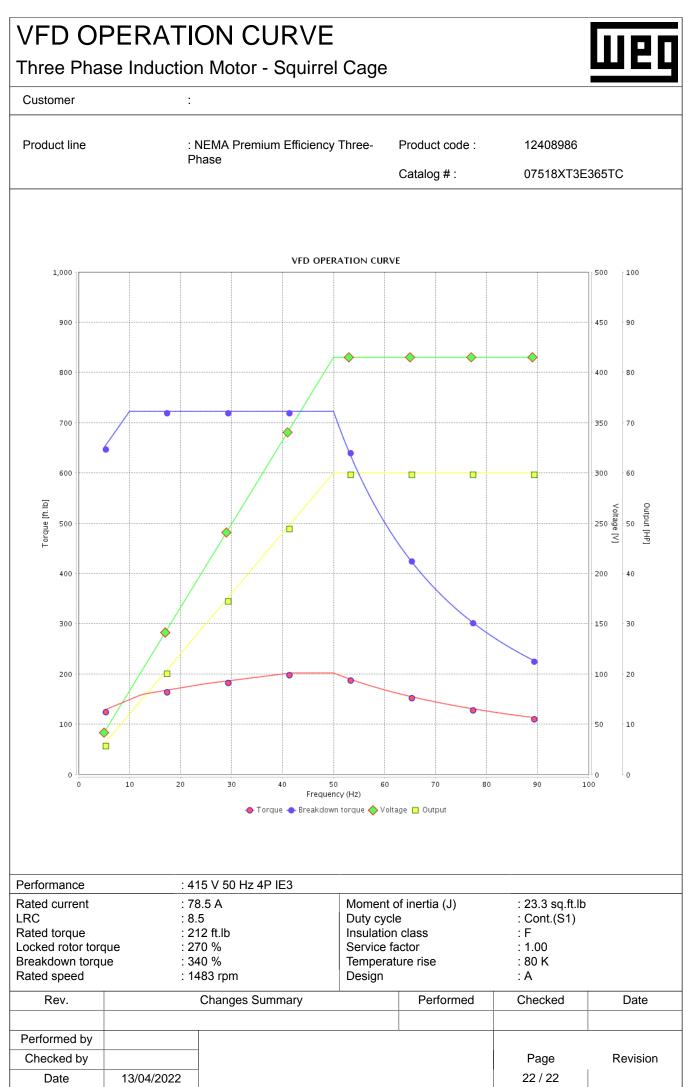


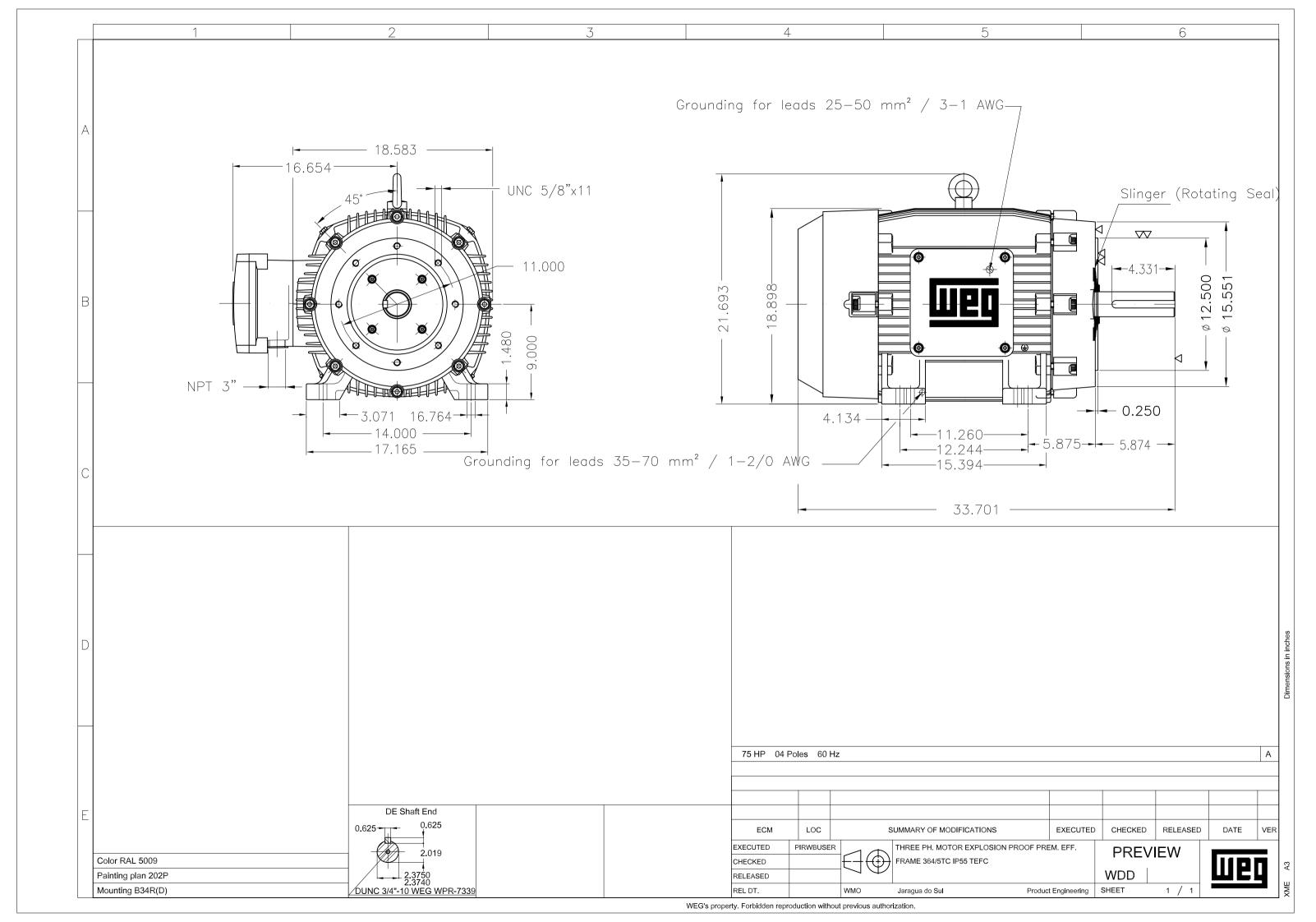
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	CCO29A			TED C C US Energy Verified	TEMP CODE T3C CSA/UL: Class I - Div. 1 - Groups C and D CSA: Class II - Div. 1 - Groups F and G CSA: Class I - Zone 1 - IIB EXPLOSION PROOF MOTOR FOR USE ON VEWM VFD 1000:117, 2:ICT, 1.0SF, T3C, AMB 40°C.
MODEL 07518XT3E365TC MADE IN BRAZIL 12408986	PH 3 FR 364/5TC HP(kW) 75.0 V 230/460 A 166/	· ·	RPM 17	Hz 60	0111 0112 0110 0111 0112 0110 015 016 014 015 016 014
	V 230/460 A 166/83.2 NEMA NOM. EFF. 95.4% INS				- φ18 φ19 φ17 φ18 φ19 φ17 φ12 φ13 φ11 φ12 φ13 φ11 ΔΛ L2 L3 L1 Δ L2 L3 L1
	PF 0.87 DUTY CONT.			CODE H	208-230V 460//380V
	ENCL. TEFC SF 1.15 SFA 191		1/95.7		dial → 6314-C3(27g) MOBIL POLYREX EM
	AMB 40°C DES A USABI	E @208V 18-	4 A SF	1.00	-6314-C3(27g) 9789 h
	AMB 55°C SF1.0 —bearings lub interval reduced by		' a factor	of 50%	ALT 1000 m.a.s.l 1032 Lbs
	60HP 45kW 50Hz 380V 83.2A 1480RPM SF1.00 EFF 94.5% (IE3)				