DATA SHEET

Three Phase Induction Motor - Squirrel Cage

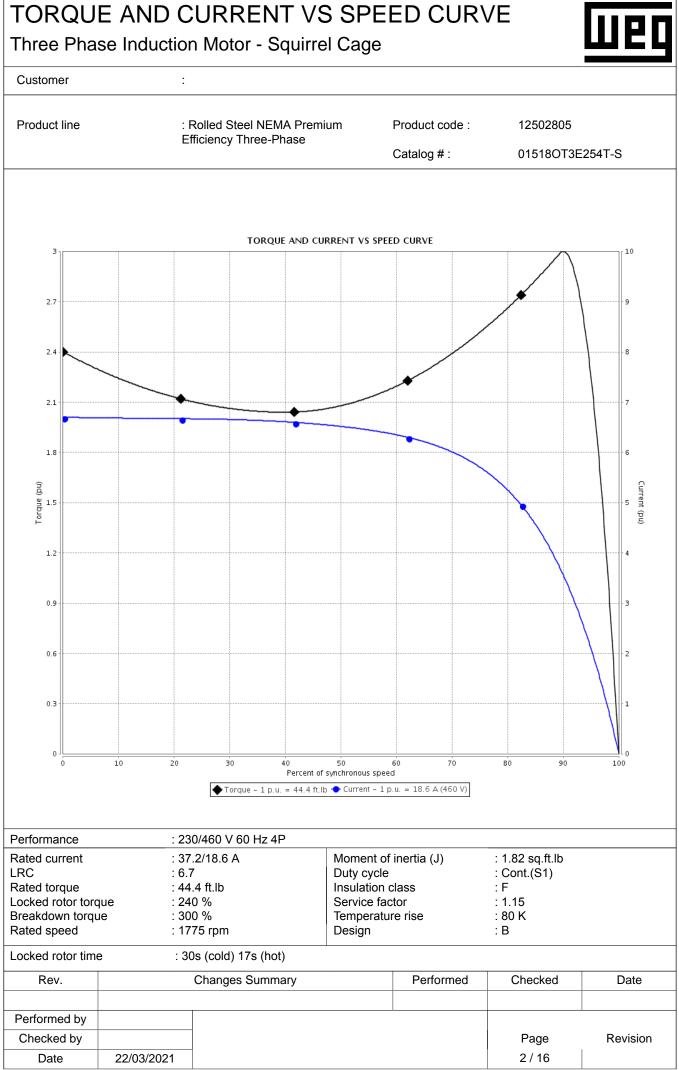
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Customer

Product line		: Rolled Steel NEMA Premium Efficiency Three-Phase	Product code :	12502805
			Catalog # :	01518OT3E254T-S
Frame Insulation class Duty cycle Ambient tempera Altitude Design	ature	: 254/6T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : B	Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)	: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 189 lb : 1.82 sq.ft.lb
C C				
Output [HP] Poles Frequency [Hz]		15 4 60	15 4 50	15 4 50
Rated voltage [V] Rated current [A]		230/460 37.2/18.6	190/380 43.8/21.9	220/415 40.0/21.2
L. R. Amperes [A]		249/125	237/118	236/125
LRC [A]		6.7x(Code H)	5.4x(Code F)	5.9x(Code G)
No load current [A]	1	19.0/9.50	17.3/8.67	18.3/9.68
Rated speed [RPN		1775	1465	1470
Slip [%]		1.39	2.33	2.00
Rated torque [ft.lb]		44.4	53.8	53.6
Locked rotor torqu		240	170	200
Breakdown torque		300	220	250
Service factor	L'*J	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		30s (cold) 17s (hot)	Os (cold) Os (hot)	Os (cold) Os (hot)
Noise level ²		64.0 dB(A)	62.0 dB(A)	62.0 dB(A)
	25%	91.0	92.3	91.4
	50%	91.7	91.3	90.8
Efficiency (%)	75%	92.4	91.0	91.1
	100%	93.0	89.7	90.2
	25%	0.36	0.45	0.40
	50%	0.62	0.71	0.66
Power Factor	75%	0.73	0.81	0.78
	100%	0.80	0.85	0.83
Bearing type Sealing Lubrication interv Lubricant amoun Lubricant type		Drive end 6309 Z C3Non drive end 6208 Z C3WithoutWithoutBearing SealBearing Seal20000 h20000 h13 g8 gMobil Polyrex EM	Foundation loads Max. traction Max. compression	: 548 lb : 737 lb
Notes USABLE @208V	41.1A SF 1.0	00 SFA 41.1A		
	d. otor from the			s based on tests with sinusoidal he tolerances stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	veight subjec ocess.			
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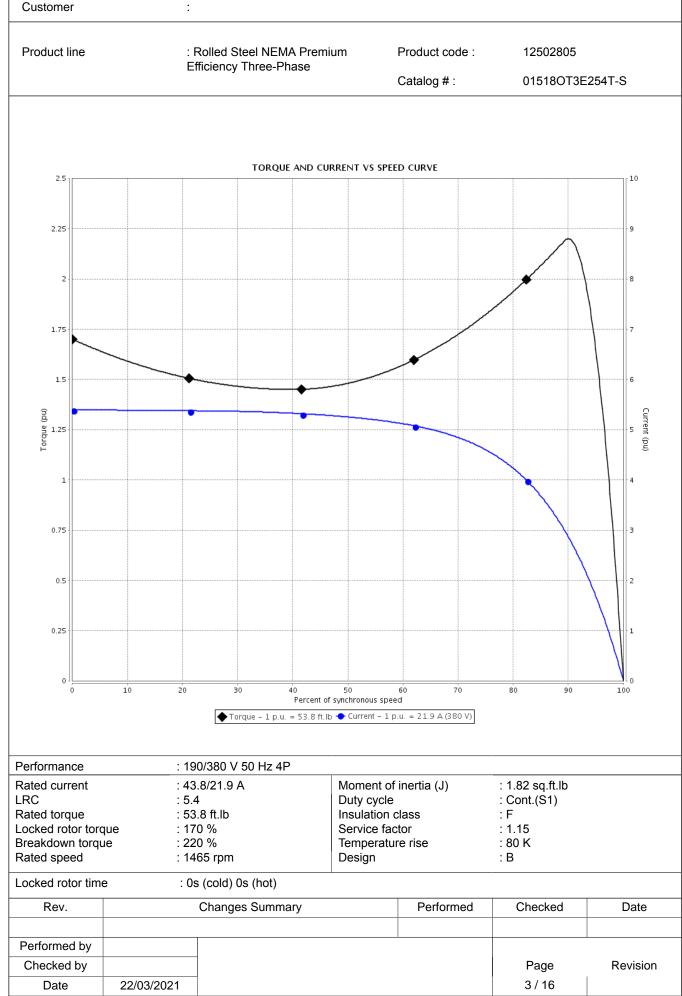
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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

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Customer

Date



Product line : Rolled Steel NEMA Premium Product code : 12502805 Efficiency Three-Phase Catalog # : 01518OT3E254T-S TORQUE AND CURRENT VS SPEED CURVE 10 2.7 9 2.4 8 2.1 1.8 6 Torque (pu) Current (pu) 5 1.5 1.2 0.9 З 0.6 0.3 0 0 10 20 30 50 60 70 80 90 100 40 Percent of synchronous speed ◆ Torque – 1 p.u. = 53.6 ft.lb ◆ Current – 1 p.u. = 21.2 A (415 V) Performance : 220/415 V 50 Hz 4P Rated current : 40.0/21.2 A Moment of inertia (J) : 1.82 sq.ft.lb LRC : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.6 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Locked rotor time : 0s (cold) 0s (hot) Checked Rev. **Changes Summary** Performed Date Performed by Checked by Revision Page

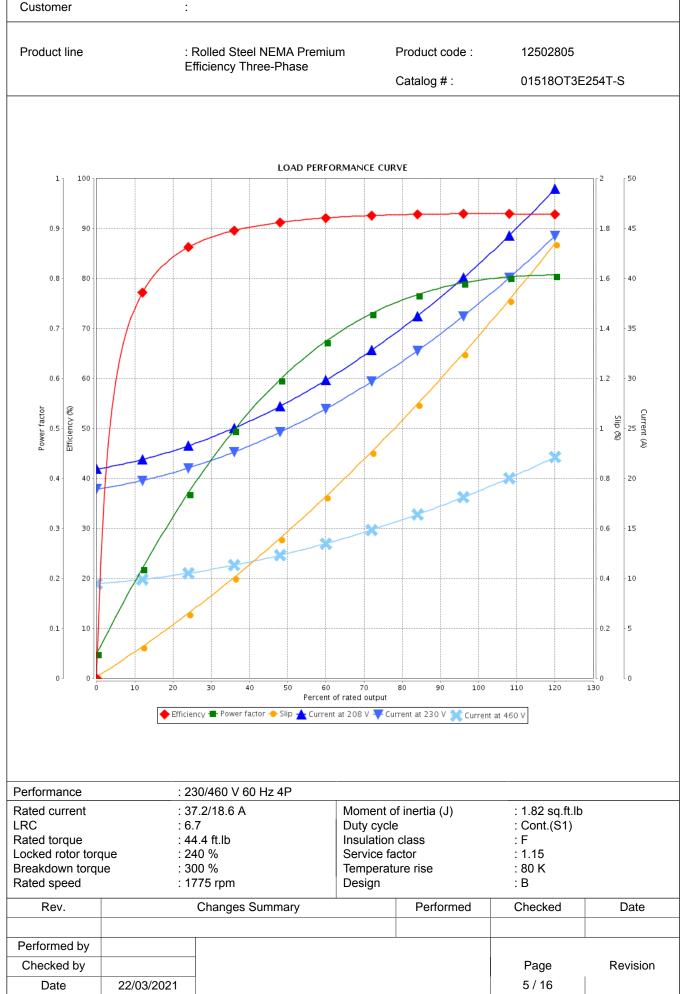
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LOAD PERFORMANCE CURVE

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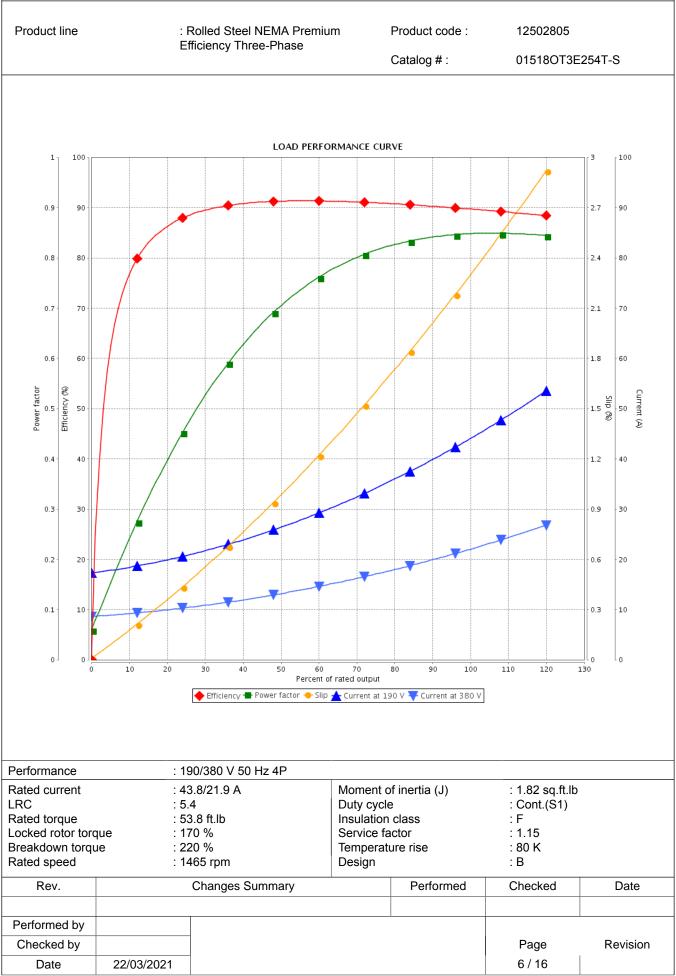
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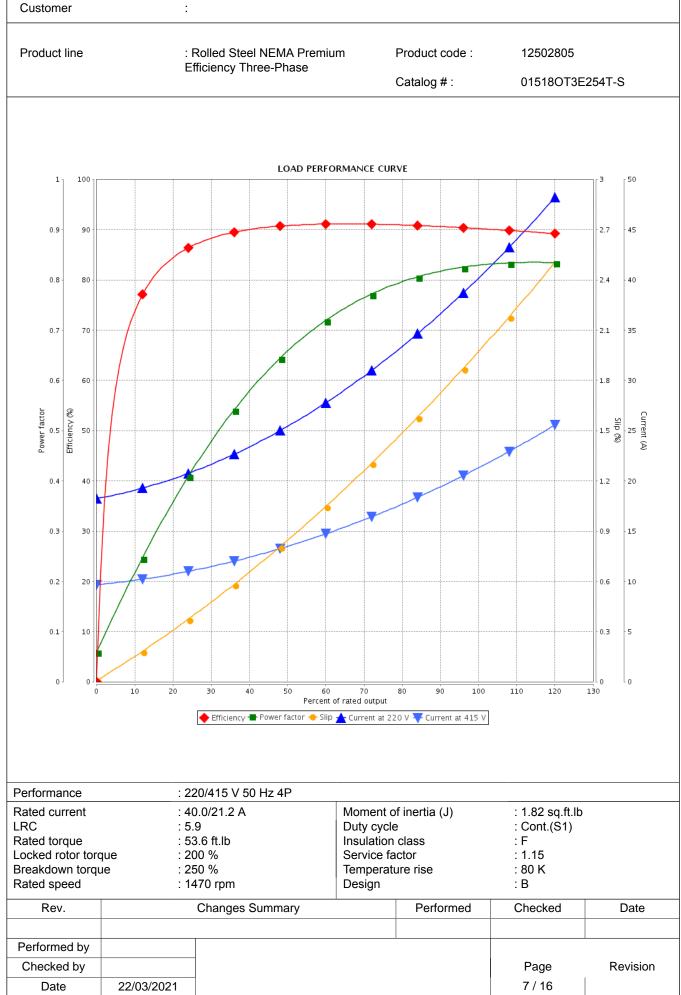


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THERMAL LIMIT CURVE

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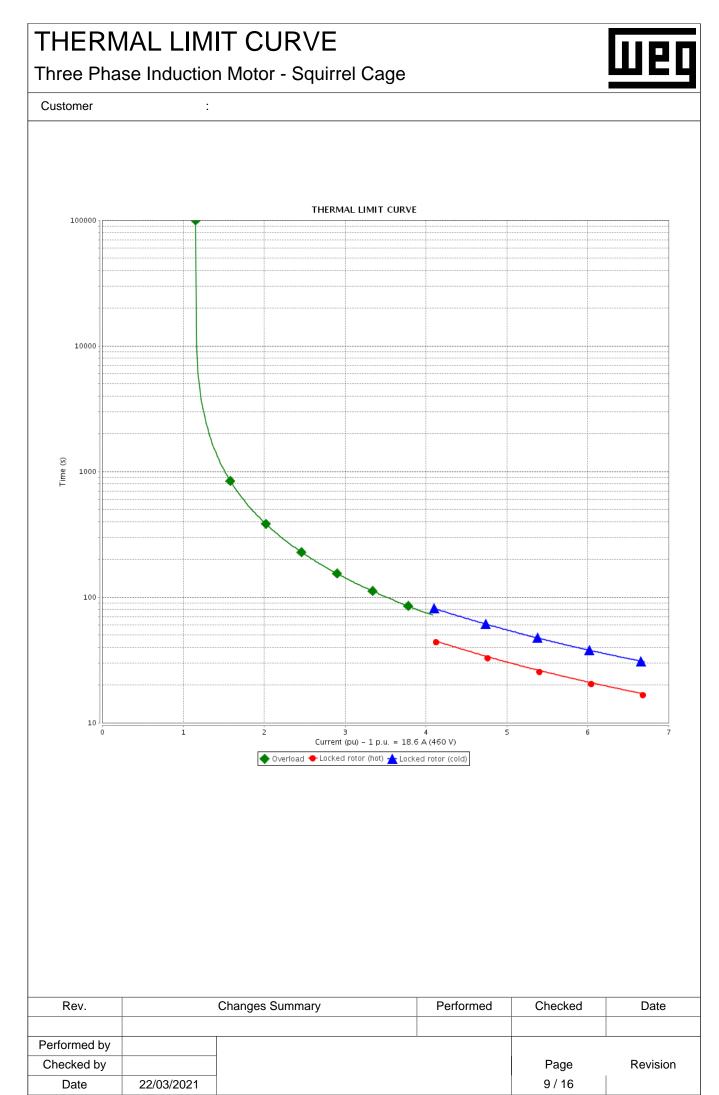


Customer

Product line	: F	Rolled Steel NEMA Premiun	n	Product code :	12502805	
		fficiency Three-Phase				
				Catalog # :	01518OT3E2	2541-5
Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC	: 37 : 6.	7.2/18.6 A 7	Moment o Duty cycle	f inertia (J)	: 1.82 sq.ft.lb : Cont.(S1)	
Rated torque		4.4 ft.lb	Insulation	class	: F	
Locked rotor toro Breakdown torqu		40 % 00 %	Service fa Temperatu		: 1.15 : 80 K	
Rated speed		775 rpm	Design	liense	: B	
Heating constant						
Cooling constant	t					
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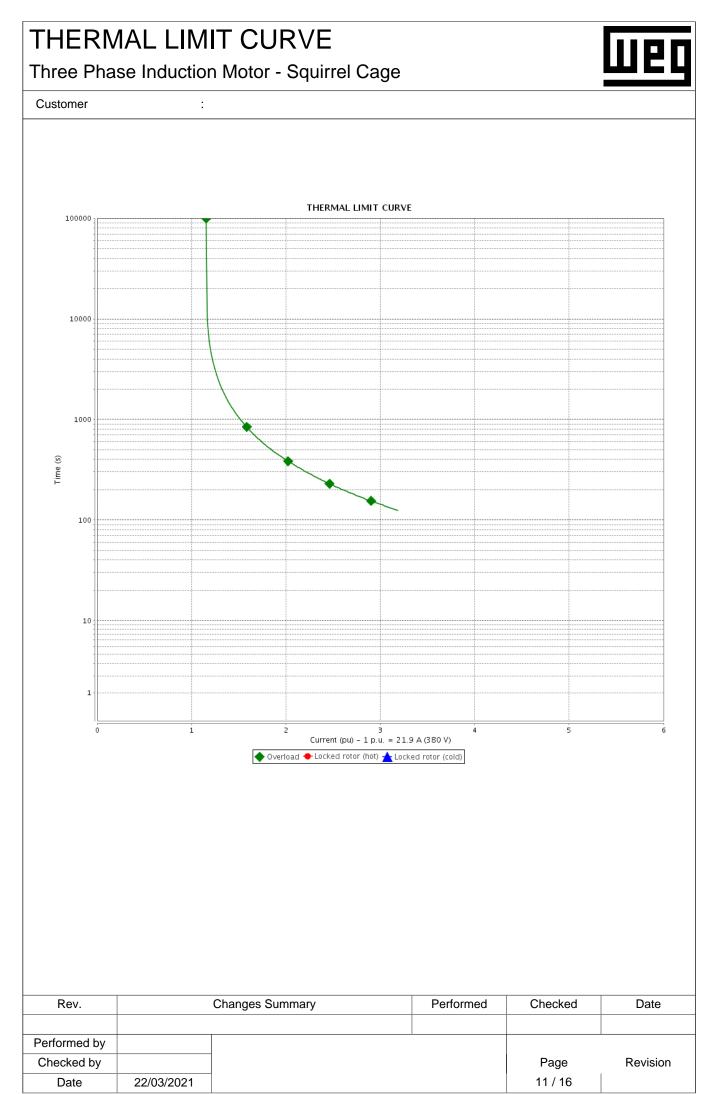


Customer

Product line		Rolled Steel NEMA Premiur	n	Product code :	12502805	
	Ef	fficiency Three-Phase		Catalog # :	01518OT3E2	54T-S
Performance		90/380 V 50 Hz 4P				
Rated current LRC	: 43 : 5.	3.8/21.9 A	Moment c Duty cycle	of inertia (J)	: 1.82 sq.ft.lb : Cont.(S1)	
Rated torque		4 3.8 ft.lb	Insulation	- class	: F	
Locked rotor torq	ue : 17	70 %	Service fa	actor	: 1.15	
Breakdown torqu		20 %	Temperat	ure rise	: 80 K	
Rated speed	: 14	465 rpm	Design		: B	
Heating constant						
Cooling constant						
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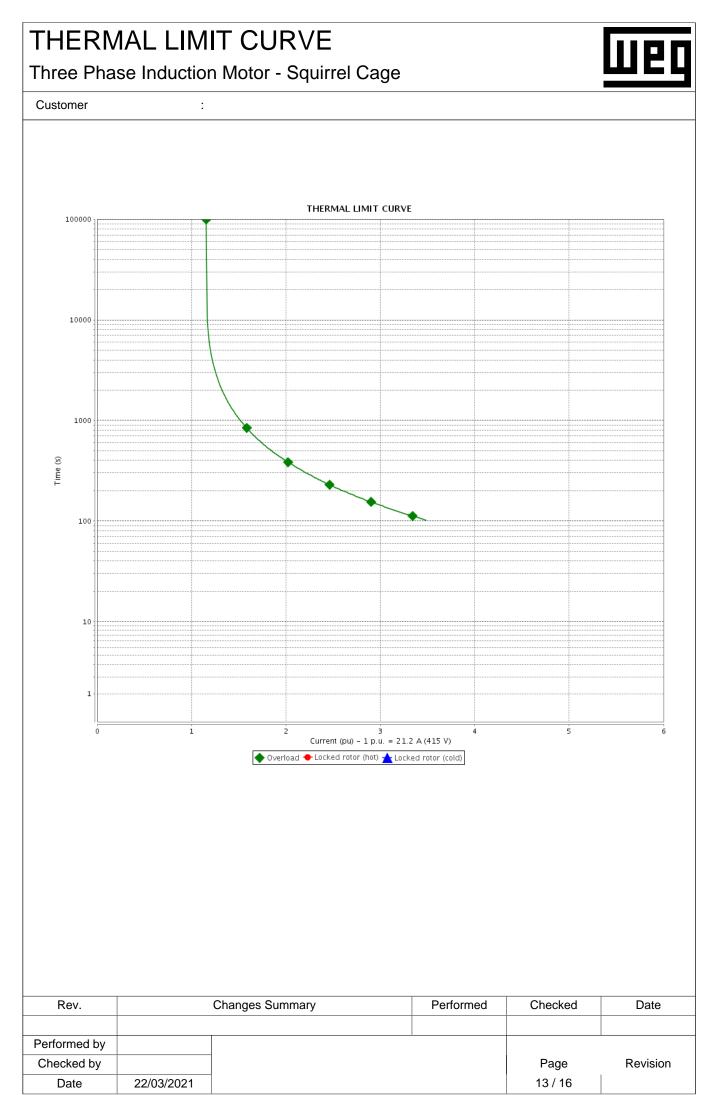


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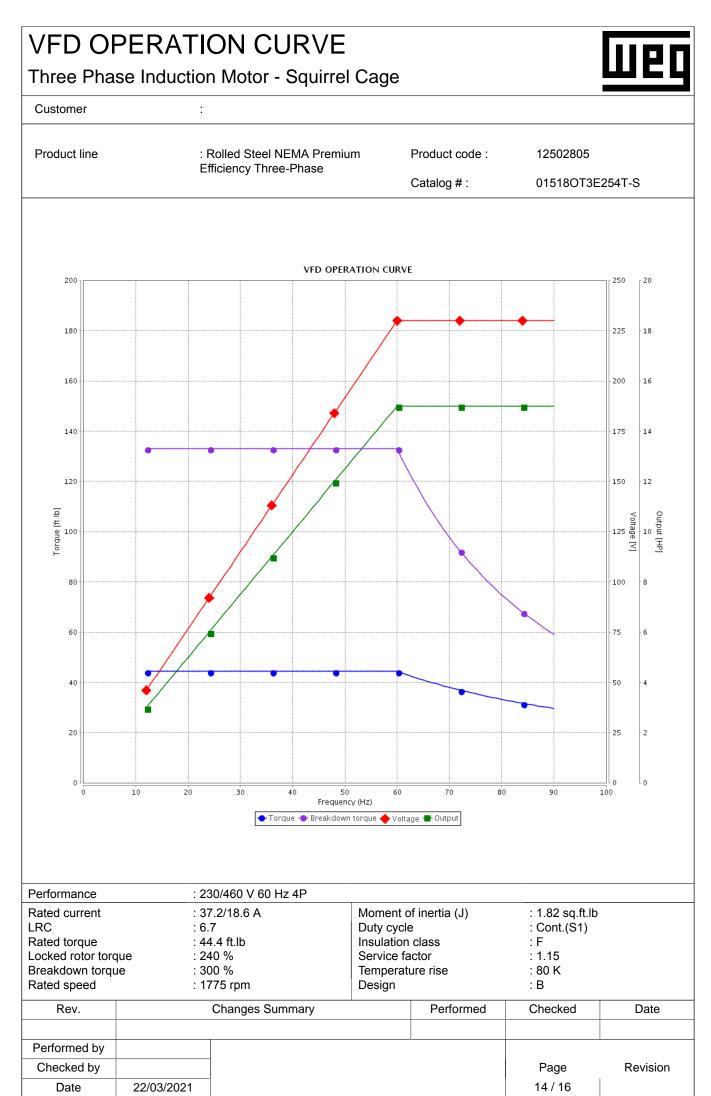
Product line		Rolled Steel NEMA Premiur fficiency Three-Phase	n	Product code :	12502805	
		inclency Three-Filase		Catalog # :	01518OT3E2	54T-S
Performance	: 22	20/415 V 50 Hz 4P				
Rated current		0.0/21.2 A	Moment o	f inertia (J)	: 1.82 sq.ft.lb	
LRC	: 5.		Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor toro		3.6 ft.lb 00 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		50 %	Temperati		: 80 K	
Rated speed		470 rpm	Design		: B	
Heating constan	t					
Cooling constant						
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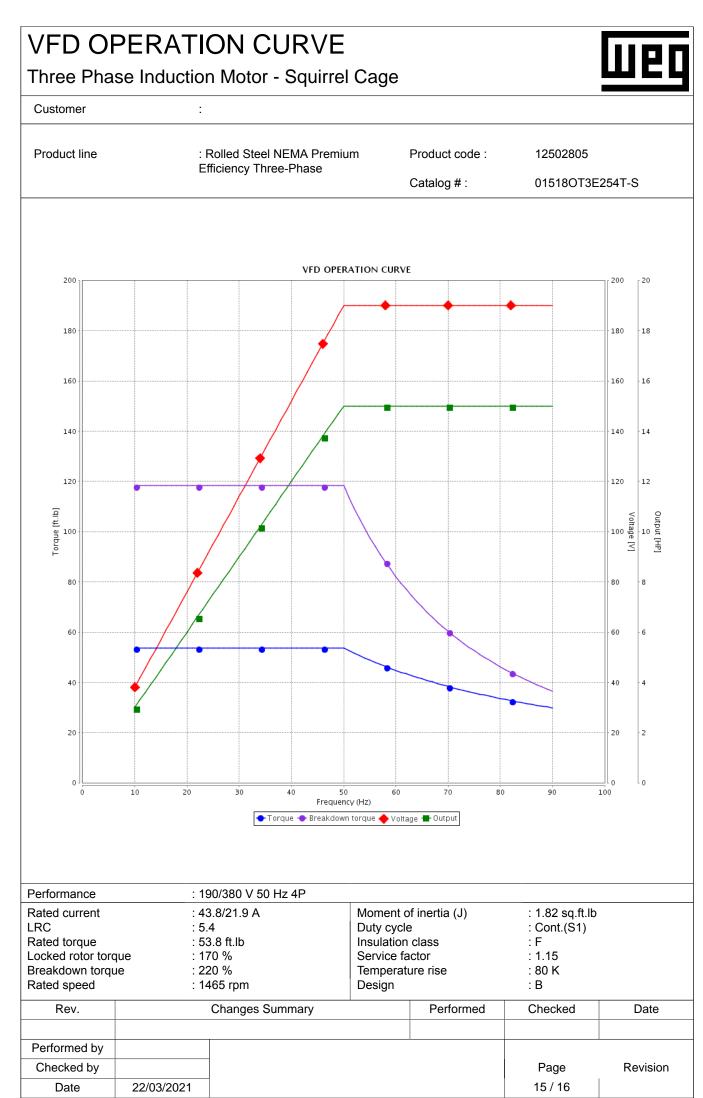
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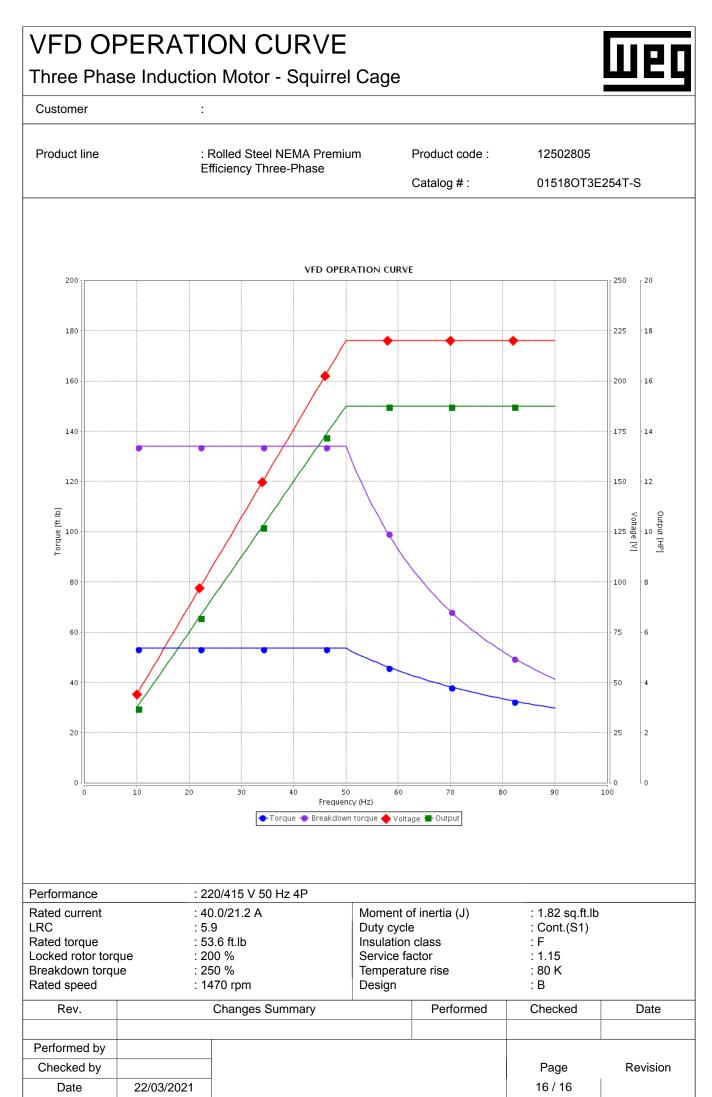
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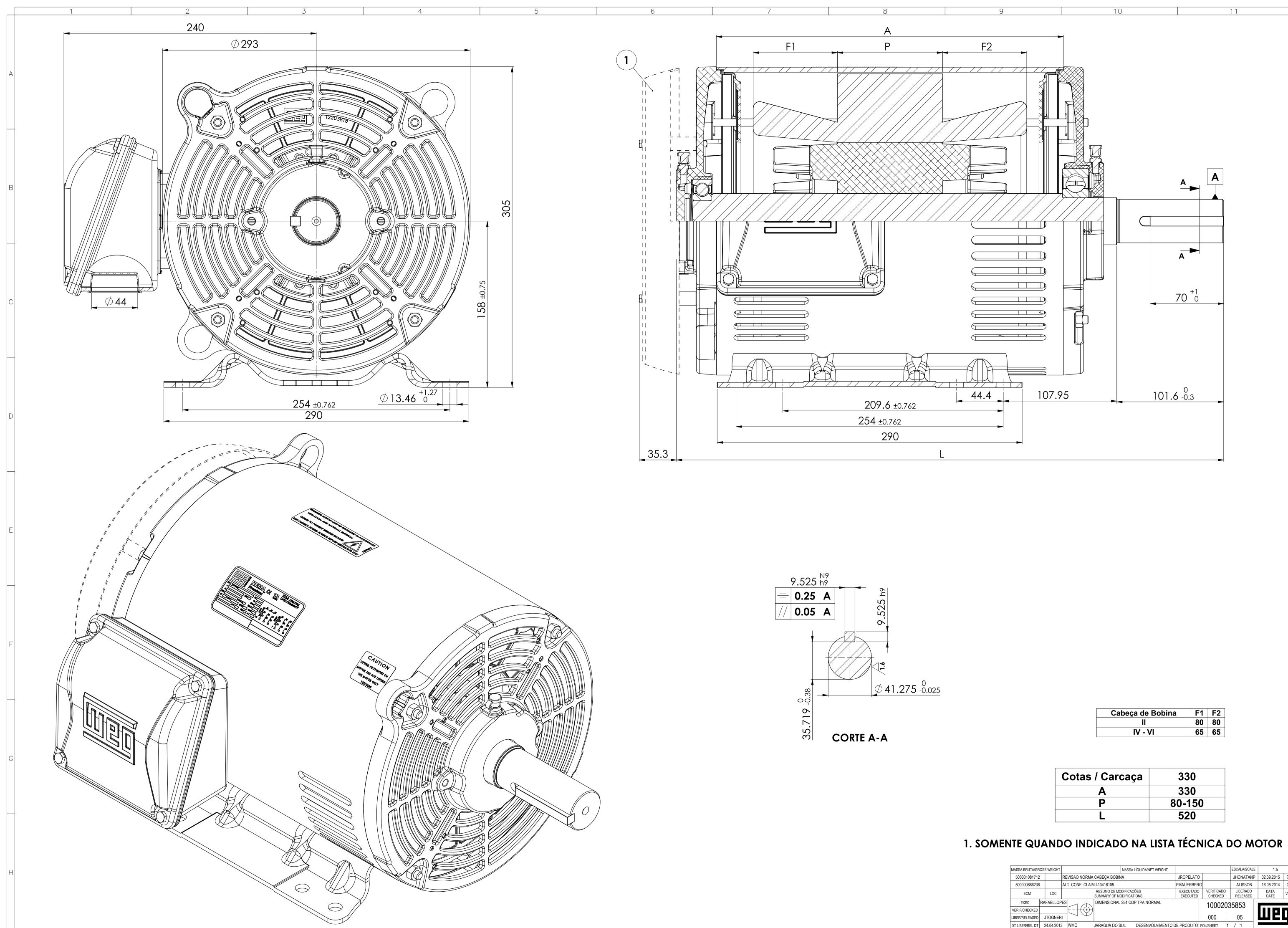


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MADE IN MÉXICO

CC029A 12502805 MAT

MODEL 015180T3E254T-S N01.TO0IC0X0N

24MAR2021 S/N:		
PH 3 Hz 60	20	HP 15
FR 254/6T		kw 11
DUTY CONT.		V 230/460
ALT 1000 m.a.s.l		•••
INS CL F AT 80K		
AMB 40°C E	DES B	ST 1.15
ENCL ODP 0	CODE H	
USABLE @ 208V 41.1A SF1.00	A	NEW 1//5 NOM. EFF 93.0%
ALTERNATE RATING:	15HP	50Hz 190-220/380-415V SF1.15
43.8-39.4/21.9-20.9A	9A	1465RPM EFF 89.7% (IE1) IEC 60034-1
Inverter dut	y motor F	Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 5:1 CT
DE 6309-Z-C3 OD	ODE 6208-Z-C3	C3 MOBIL POLYREX EM 20000h
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7 ⊕ T1 ⊕ T2 (●13	2 11 11 12 1 13 TIO-CURRY
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WARNING: Motor must be grounded in accordance with local NTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION

Σ

shocks. Disconnect power source before servicing unit. AVERTISSEMENT: Le moteur doit être mis à la terre ¹ ind national electrical codes to prevent serious electrical

choc électrique grave. Déconnectez l'alimentation avant l'entretien de la machine conformément aux codes électriques locaux et nationaux afin d'éviter tout



T11-GRN T12-VLT