DATA SHEET

Three Phase Induction Motor - Squirrel Cage

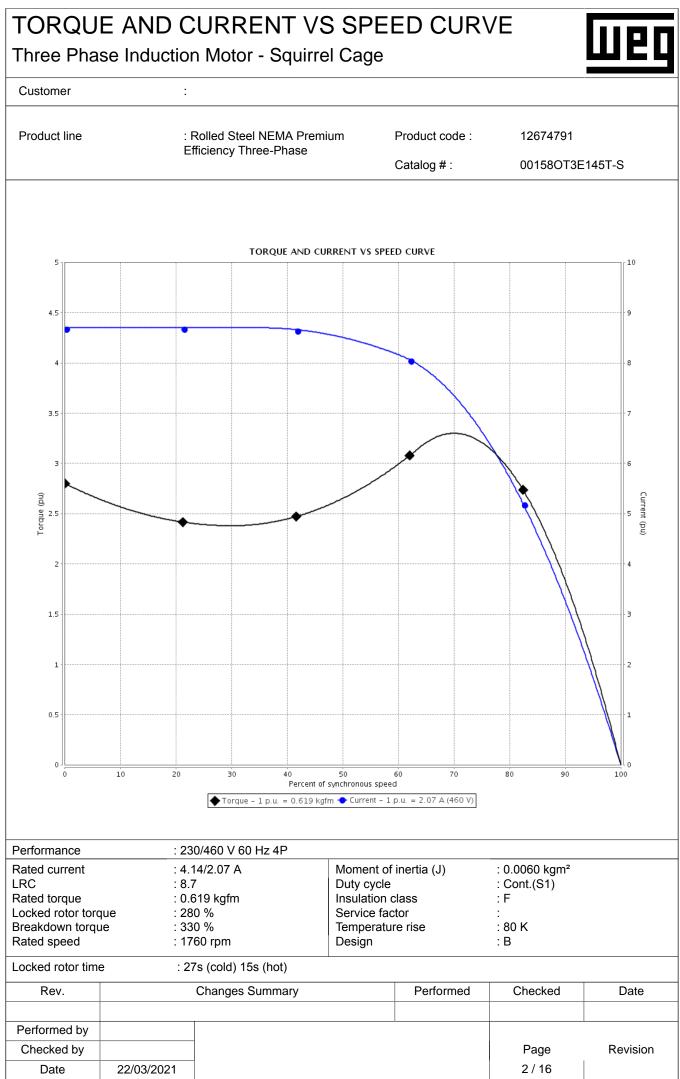
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Customer

		: Rolled Steel NEMA Premium Efficiency Three-Phase	n Product code :	12674791
		Enciency Three-Fhase	Catalog # :	00158OT3E145T-S
Frame		: 143/5T	Cooling method	: IC01 - ODP
Insulation class		: F	Mounting	: F-1
Duty cycle		: Cont.(S1)	Rotation ¹	: Both (CW and CCW)
Ambient tempera	ature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude		: 1000 m.a.s.l.	Approx. weight ³	: 19.3 kg
Design		: B	Moment of inertia (J)	: 0.0060 kgm ²
Output [HP]		1.5	1.5	1.5
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		4.14/2.07	4.84/2.42	4.41/2.34
L. R. Amperes [A]		36.0/18.0	31.0/15.5	30.9/16.4
LRC [A]		8.7x(Code L)	6.4x(Code H)	7.0x(Code J)
No load current [A		2.40/1.20	2.36/1.18	2.41/1.28
Rated speed [RPN	/I]	1760	1440	1445
Slip [%]		2.22	4.00	3.67
Rated torque [kgfr	n]	0.619	0.756	0.753
Locked rotor torqu		280	190	220
Breakdown torque		330	250	280
Service factor	r 1		1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		27s (cold) 15s (hot)	Os (cold) Os (hot)	Os (cold) Os (hot)
Noise level ²		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%	83.6	49.0 UB(A) 85.3	49.0 dB(A) 84.0
	25% 50%	84.0	84.3	83.6
Efficiency (%)	50% 75%	84.0	84.3	
,				84.8
	100%	86.5	83.2	83.9
	25%	0.32	0.38	0.35
Power Factor	50%	0.56	0.64	0.60
	75%	0.69	0.77	0.73
	100%	0.77	0.83	0.81
		Drive end Non drive end	Foundation loads	
Bearing type		: 6205 ZZ 6203 ZZ	Max. traction	: 50 kgf
Sealing		: Without Without	Max. compression	: 70 kgf
		Bearing Seal Bearing Seal		
Lubrication interv	val	:		
Lubricant amour	nt	:		
Lubricant type		: Mobil Polyrex EM		
Notes USABLE @208\/				
	4.58A SF 1.	00 SFA 4.58A		
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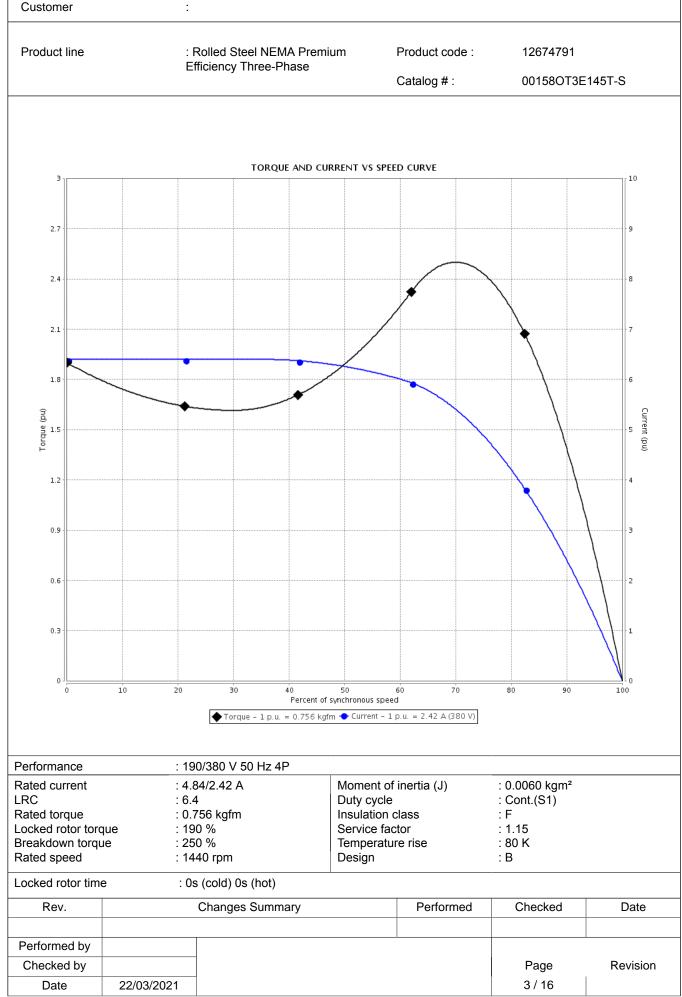
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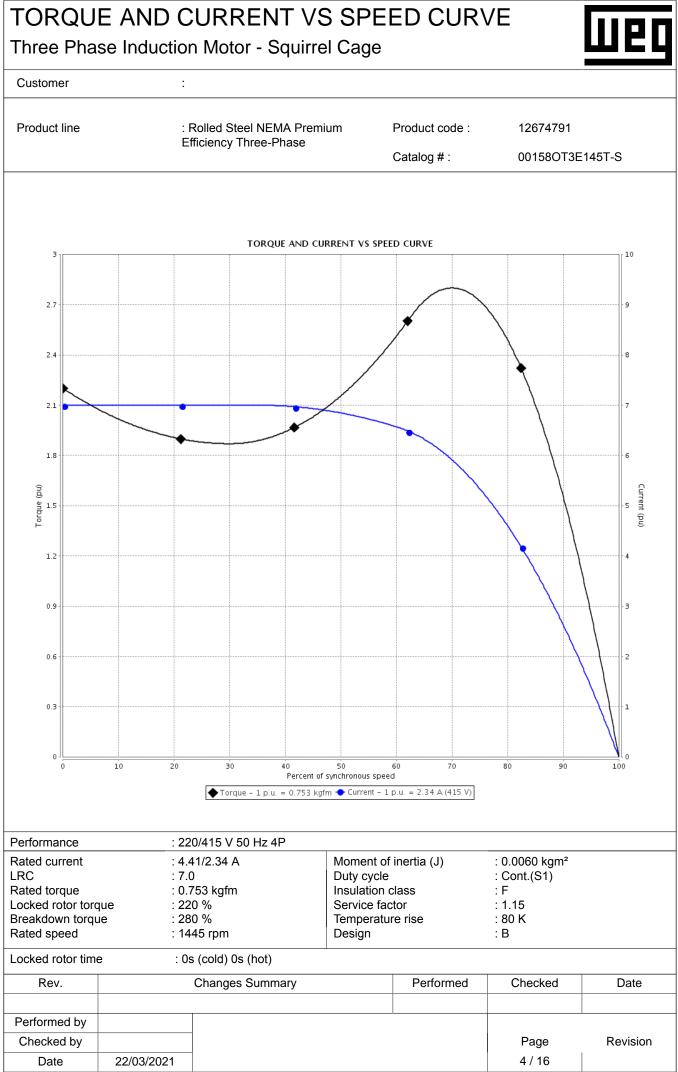
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





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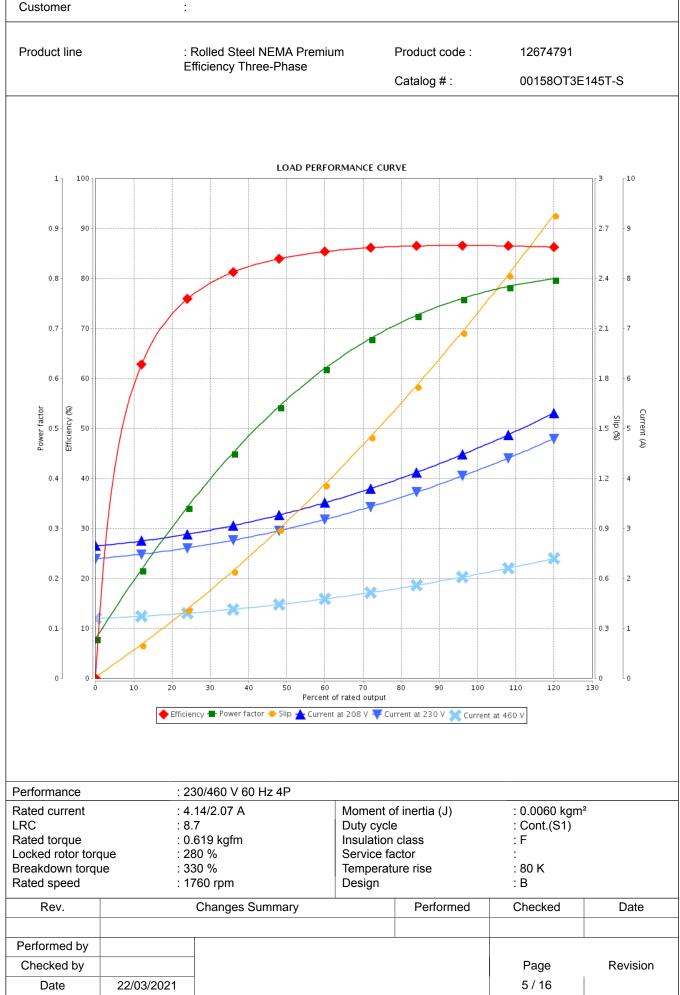


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LOAD PERFORMANCE CURVE

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Customer



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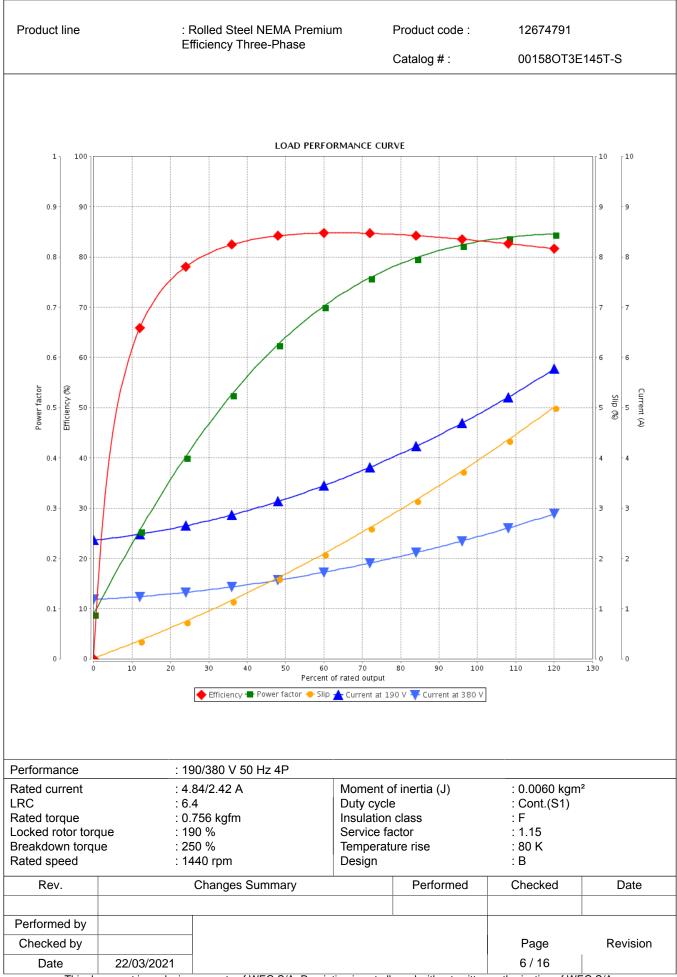
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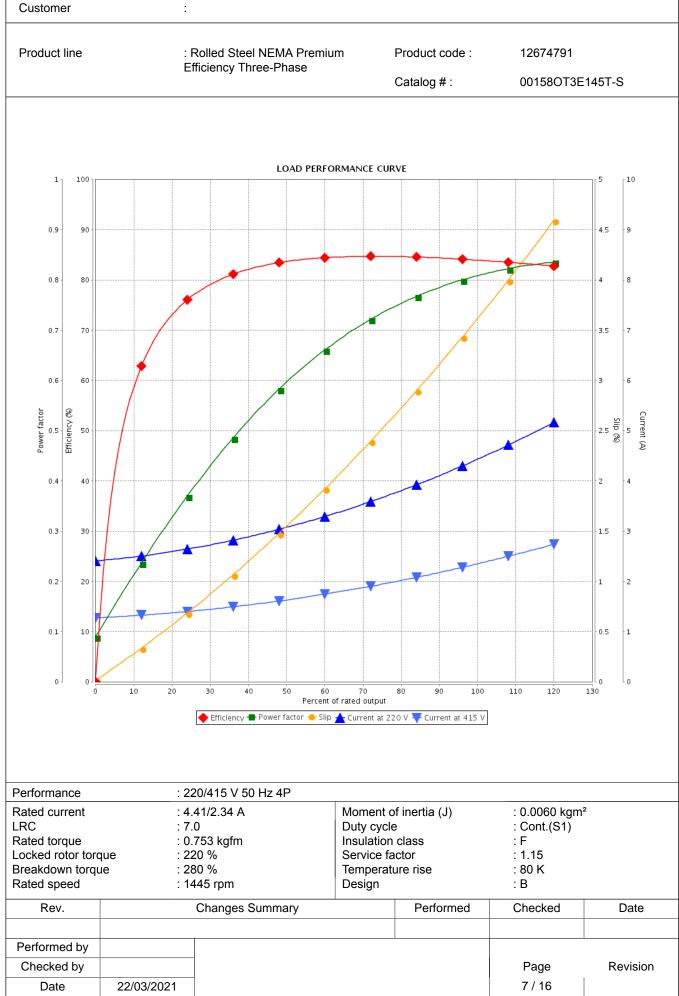
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THERMAL LIMIT CURVE

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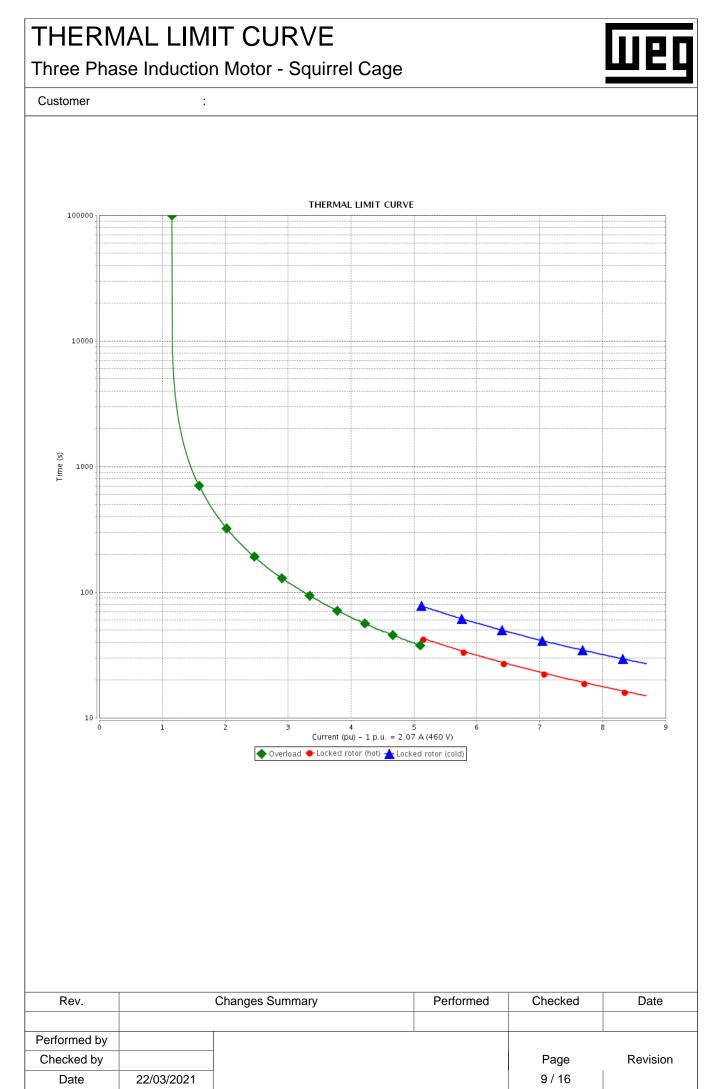
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Customer

Product line		Rolled Steel NEMA Premiur	m	Product code :	12674791	
	Et	fficiency Three-Phase		Catalog # :	00158OT3E1	45T-S
Performance	: 23	30/460 V 60 Hz 4P				
Rated current		14/2.07 A	Moment o	f inertia (J)	: 0.0060 kgm ²	
LRC	: 8.	7	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor torqu		619 kgfm 30 %	Insulation Service fa		: F	
Breakdown torque		30 %	Temperati		: 80 K	
Rated speed		760 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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Date	22/03/2021	-			8 / 16	

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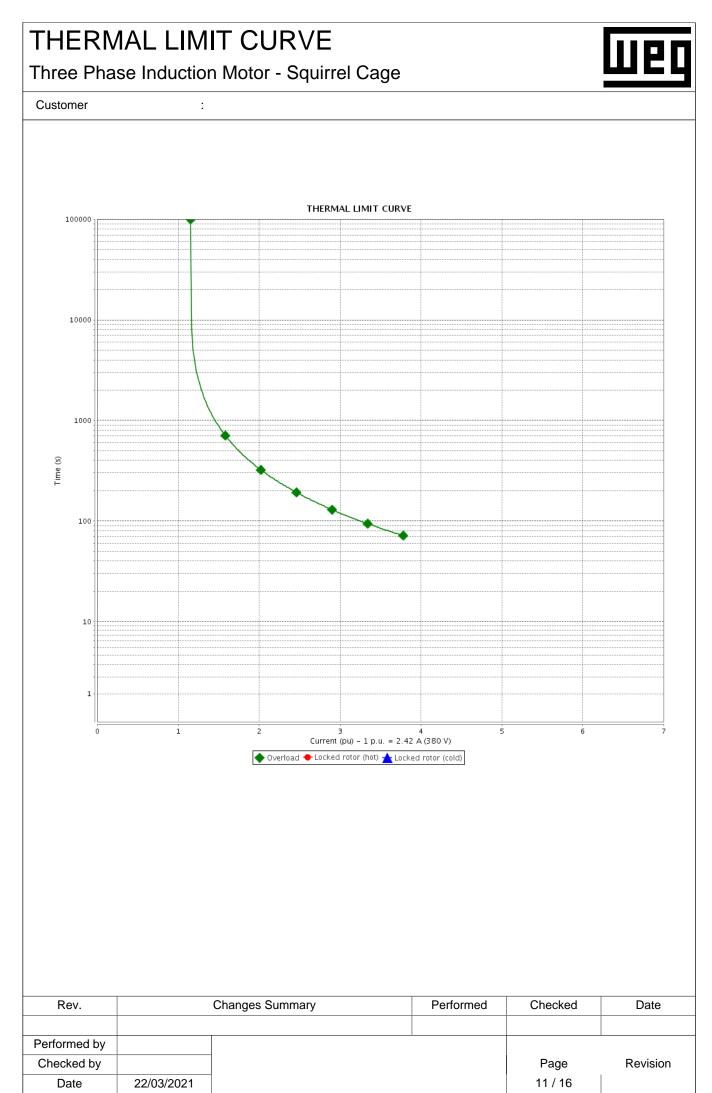


Customer

Product line		Rolled Steel NEMA Premiur	n	Product code :	12674791	
	E	fficiency Three-Phase		Catalog # :	00158OT3E14	45T-S
Performance		90/380 V 50 Hz 4P				
Rated current LRC	: 4. : 6.	84/2.42 A	Moment o Duty cycle	f inertia (J)	: 0.0060 kgm² : Cont.(S1)	
Rated torque		4 756 kgfm	Insulation		: F	
Locked rotor torg	ue : 19	90 %	Service fa	ictor	: 1.15	
Breakdown torqu		50 %	Temperatu	ure rise	: 80 K	
Rated speed		140 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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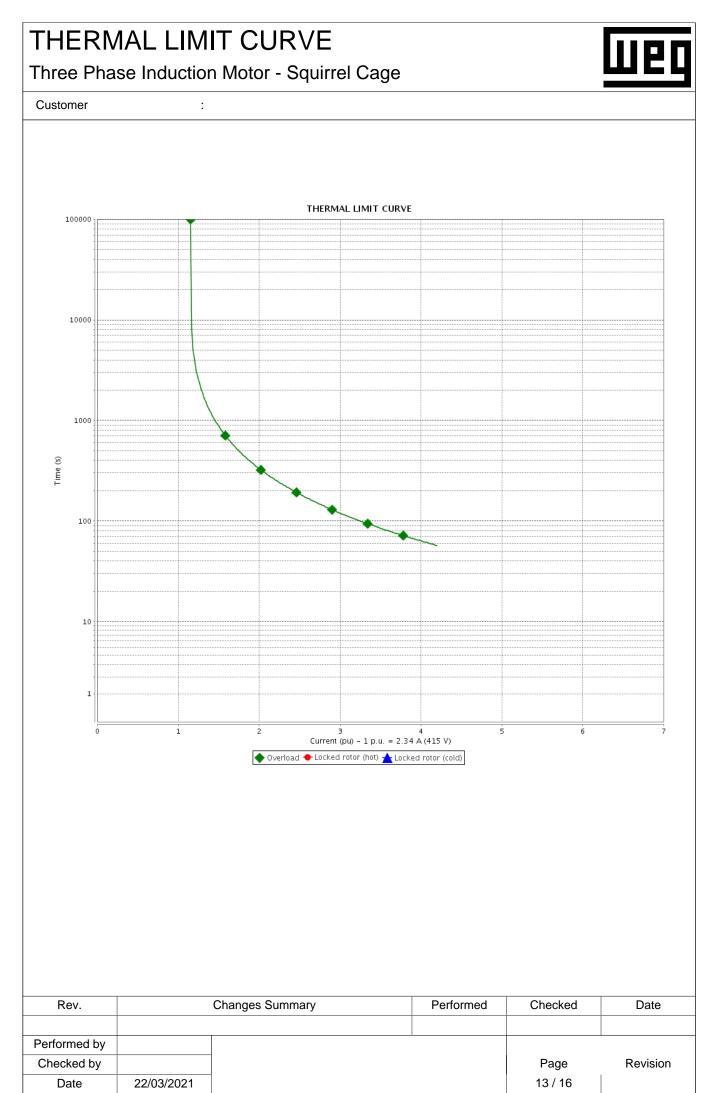


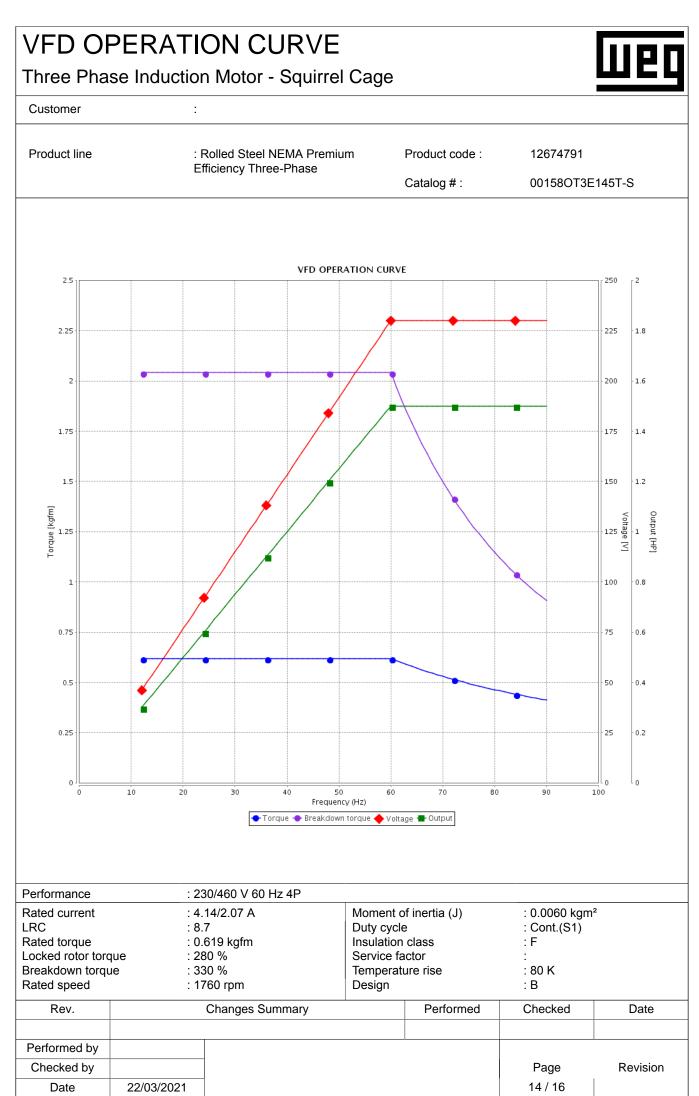
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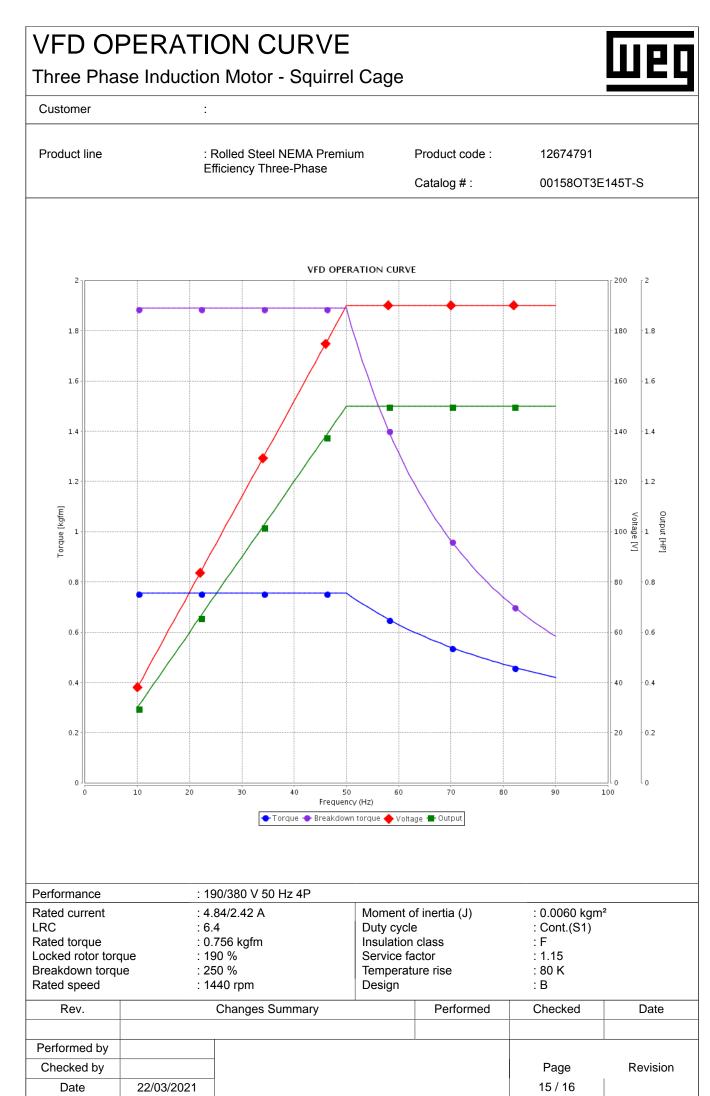
Product line	: Rolled Steel NEMA Premiu Efficiency Three-Phase		Product code : Catalog # :	12674791 00158OT3E	145T-S
Performance	: 220/415 V 50 Hz 4P				
LRC Rated torque Locked rotor torque Breakdown torque	: 4.41/2.34 A : 7.0 : 0.753 kgfm : 220 % : 280 % : 1445 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ictor	: 0.0060 kgm ² : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant					
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
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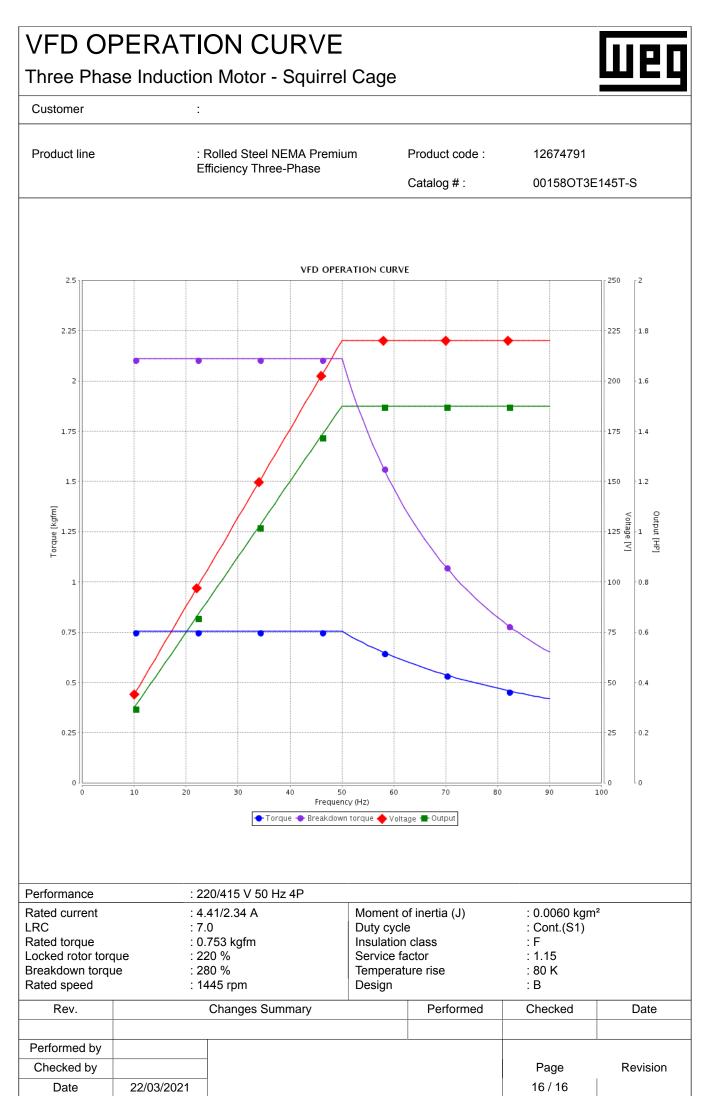
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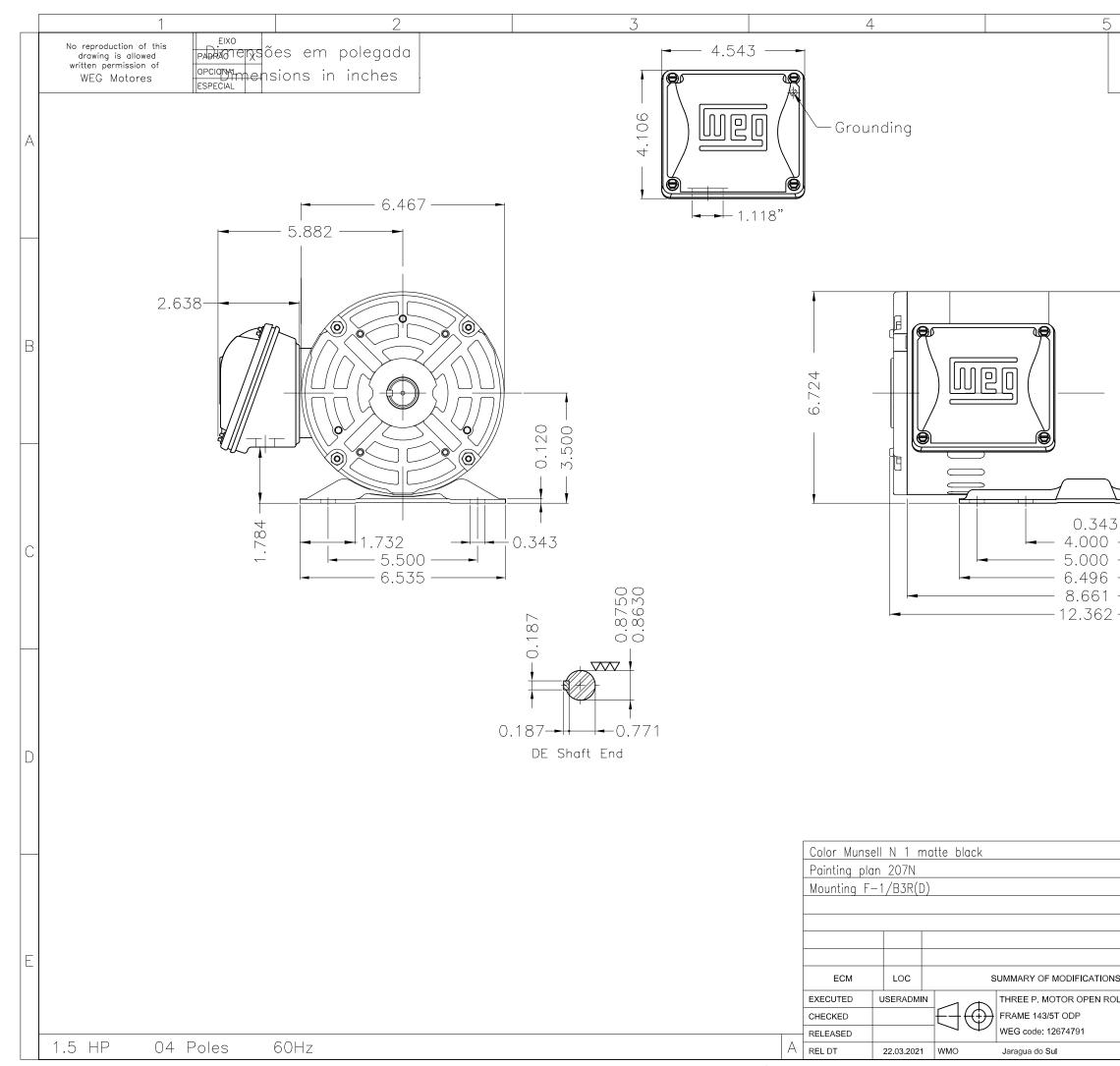
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MADE IN MÉXICO

CC029A MAT: 12674791

MODEL 001580T3E145T-S N01.TO0IC0X0N

26MAR2021 B/N:					
PH 3 Hz 60	9	HP 1.	5		
FR 143/5T		K V	-		
DUTY CONT.			230/460		
ALT 1000 m.a.s.l		-	4.14/2.07		
INS CL F AT 80K		2	4.76/2.38		
AMB 40°C [DES B		2		
ENCL ODP 0	CODE L		1.1.0		
USABLE @ 208V 4.58A SF1.00	A		1/60 F 86.5%		
ALTERNATE RATING:	1.5HP	50Hz	190-220/380-415V	415V	SF1.15
4.84-4.34/2.42-2.30A	DA DA	1440RPM	EFF 83.2%	(IE2)	IEC 60034-1
Inverter dut	/ motor Fc	or 60Hz use	Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 5:1 CT	0:1 VT, 5:'	CT
DE 6205-ZZ OD	ODE 6203-ZZ		MOBIL POLYREX EM	W	
T4 T5	_T6	T4	T5 T6		
	P (EE		T1-BLU	TZ-WHT
WAT 18	6	AI AI	LT8 T9	T3-ORG	G T4-YEL
	ļ		, ¹	T5-BLK	T6-GRY
	<u>-</u>		• 2 • 3	T7-PNK	(T8-RED
	_~	<u>-</u>		T9-BRK RED	(RED
	2	J	2		

INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION



WARNING: Motor must be grounded in accordance with local shocks. Disconnect power source before servicing unit. and 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 AVERTISSEMENT: Le moteur doit être mis à la terre ¹

