DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line		: Rolled Steel NEMA Premit Efficiency Three-Phase	um F	Product code :	12674978		
			Catalog # :		00718OT3E	213T-SG	
Frame		: 213/5T	Cooling r	nethod	: IC01 - OD	Р	
Insulation class		: F			: F-1		
Duty cycle		: Cont.(S1)	Rotation	Í	: Both (CW	and CCW)	
Ambient tempera	ature	: -20°C to +40°C	Starting r	nethod	: Direct On	Line	
Altitude		: 1000 m.a.s.l.	Approx. \		: 52.6 kg		
Design		: B		of inertia (J)	: 0.0433 kg	m²	
Output [HP]		7.5		7.5		7.5	
Poles		4		4		4	
Frequency [Hz]		60		50		50	
Rated voltage [V]		230/460		190/380	22	20/415	
Rated current [A]		18.5/9.25		22.2/11.1		20.0/10.6	
L. R. Amperes [A]		133/66.6		129/64.4		130/68.9	
LRC [A]		7.2x(Code H)	5	5.8x(Code G)		(Code H)	
No load current [A	1	8.79/4.39		8.64/4.32		38/4.71	
Rated speed [RPN	-	1770		<u> </u>		1460	
Slip [%]	ניי נ	1.67		3.00		2.67	
	ol	3.08		3.74		3.73	
Rated torque [kgfn							
Locked rotor torqu		240		170		190	
Breakdown torque	[%]	320		229		250	
Service factor		1.15		1.15		1.15	
Temperature rise		80 K		80 K		80 K	
Locked rotor time		23s (cold) 13s (hot)		cold) 0s (hot)		ld) 0s (hot)	
Noise level ²		59.0 dB(A)	Ę	56.0 dB(A)		0 dB(A)	
	25%	88.6		90.4		89.6	
Efficiency (%)	50%	89.5		88.9		88.6	
	75%	90.2		88.5		88.7	
Enciency (%)	100%	91.0		86.7		87.4	
	25%	0.39		0.46		0.42	
	50%	0.65		0.73		0.69	
Power Factor	75%	0.77		0.83		0.80	
	100%	0.82		0.87		0.86	
	1	Drive end Non drive en	d Foundatio		1		
Bearing type		: 6208 ZZ 6206 ZZ			116 kaf		
• • •			Max. tract		: 146 kgf		
Sealing		: Without Without	Max. com	pression	: 198 kgf		
Lubrication inter-	vol	Bearing Seal Bearing Se	al				
Lubrication interv							
	ı						
Lubricant type							
Notes USABLE @208V	20.5A SF 1.(00 SFA 20.5A					
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v	d. otor from the m and with to veight subjec	olerance of +3dB(A).			based on tests wi e tolerances stipu		
manufacturing pro (4) At 100% of ful							
Rev.		Changes 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 : Rolled Steel NEMA Premium Product code : 12674978 Efficiency Three-Phase Catalog # : 00718OT3E213T-SG TORQUE AND CURRENT VS SPEED CURVE 10 4.5 9 8 3.5 з 6 Current Torque (pu) 5 g 2 1.5 З 1 2 0.5 0 0 10 20 30 50 60 70 80 90 100 40 Percent of synchronous speed ◆ Torque - 1 p.u. = 3.08 kgfm ◆ Current - 1 p.u. = 9.25 A (460 V) : 230/460 V 60 Hz 4P Performance Rated current : 18.5/9.25 A Moment of inertia (J) : 0.0433 kgm² LRC : 7.2 Duty cycle : Cont.(S1) : 3.08 kgfm Insulation class : F Rated torque : 240 % Locked rotor torque Service factor : 1.15 : 320 % Breakdown torque Temperature rise : 80 K Rated speed : 1770 rpm Design : B Locked rotor time : 23s (cold) 13s (hot) Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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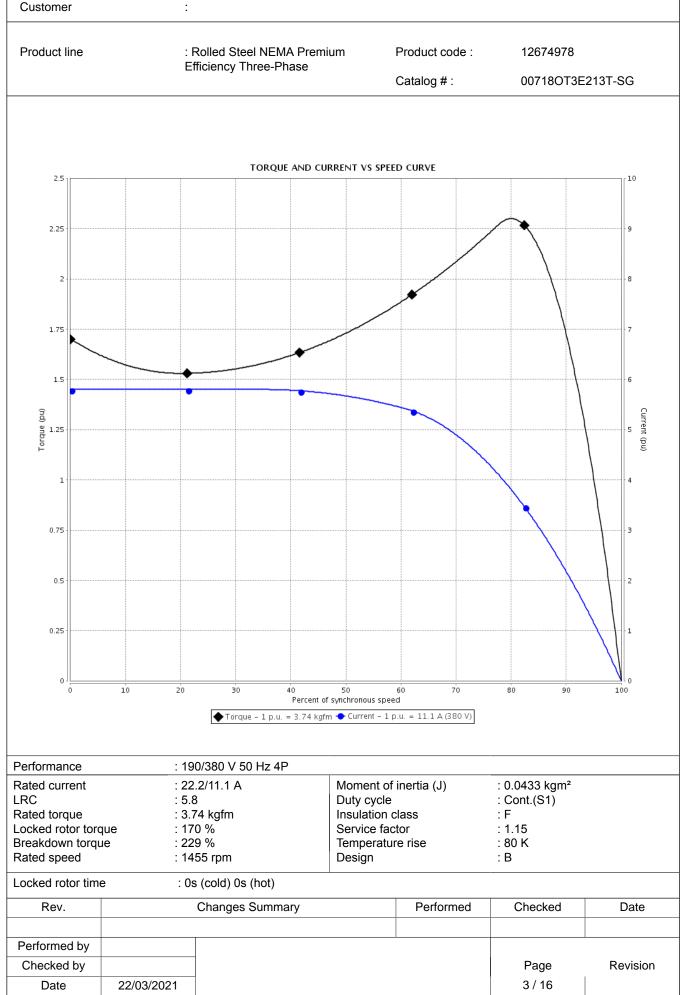
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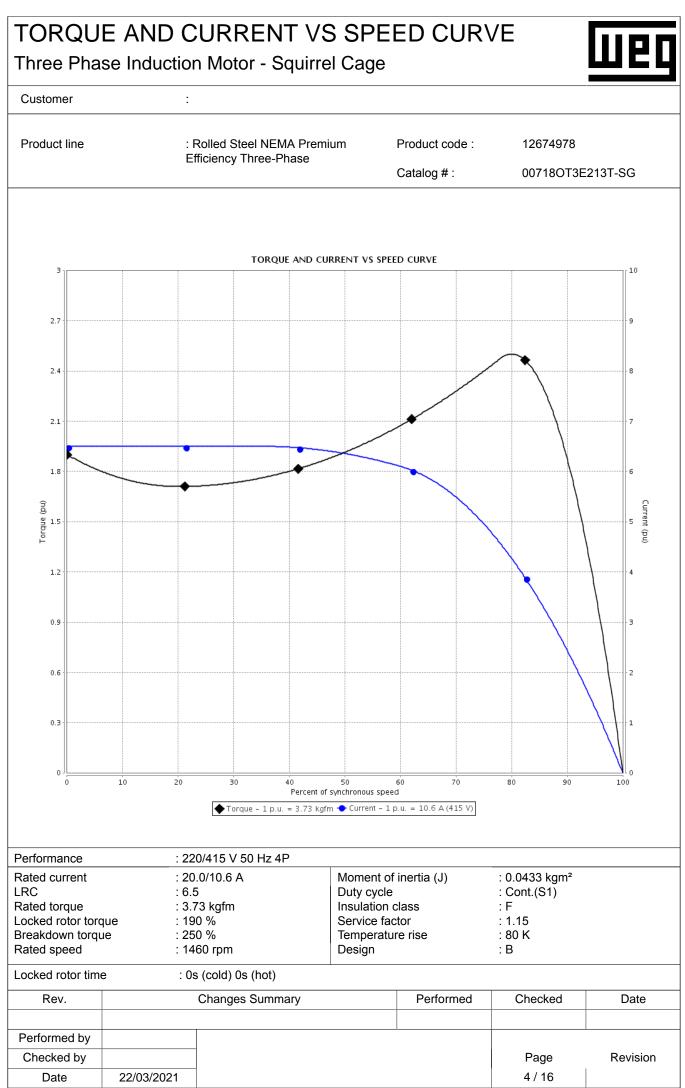
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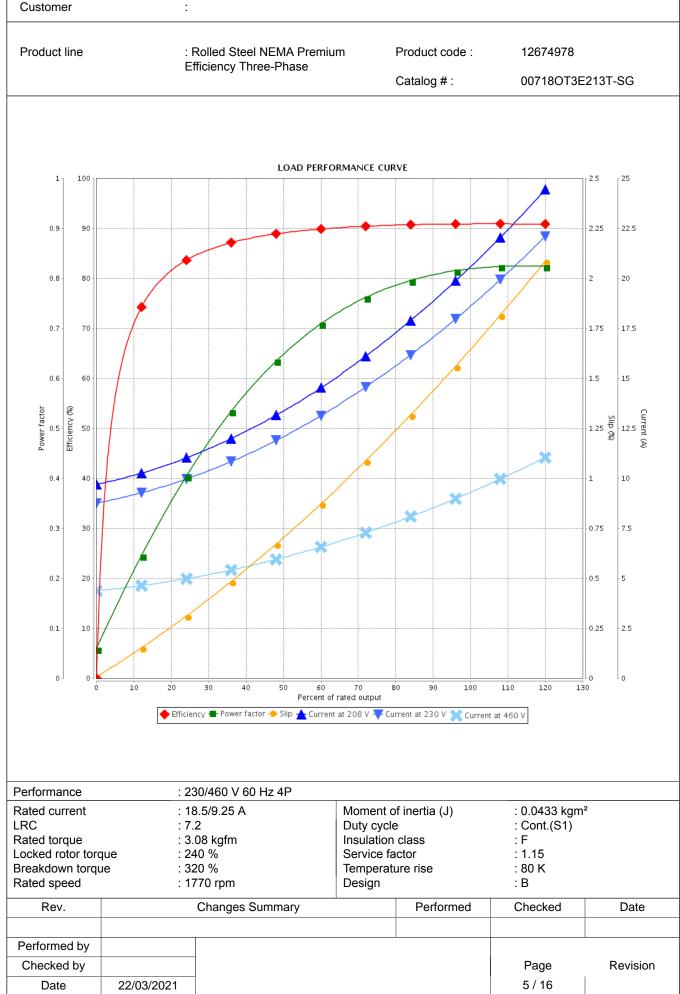


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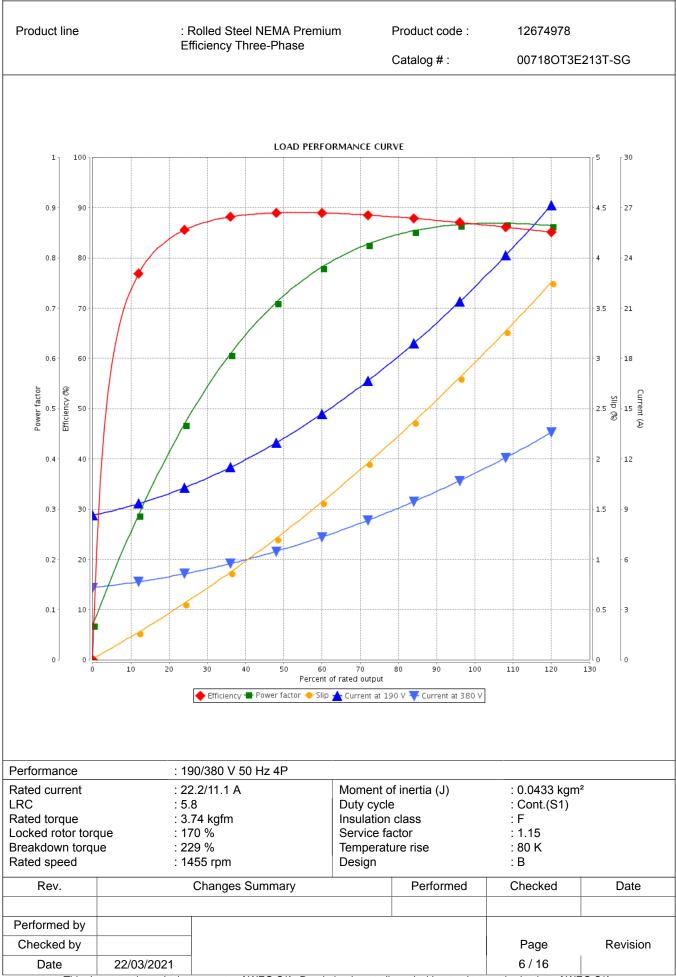
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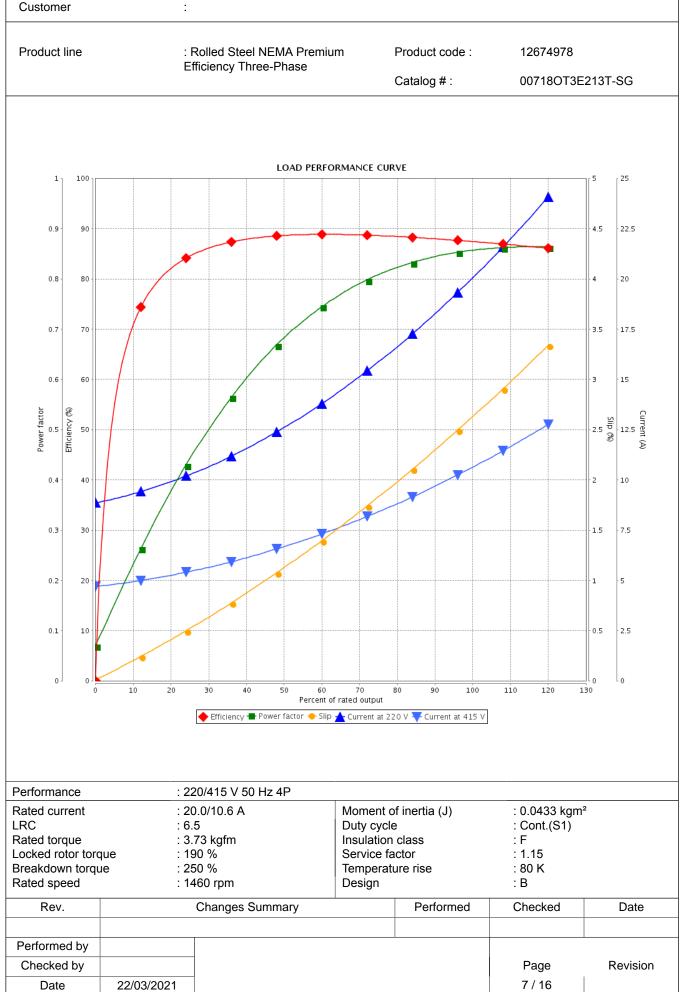
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THERMAL LIMIT CURVE

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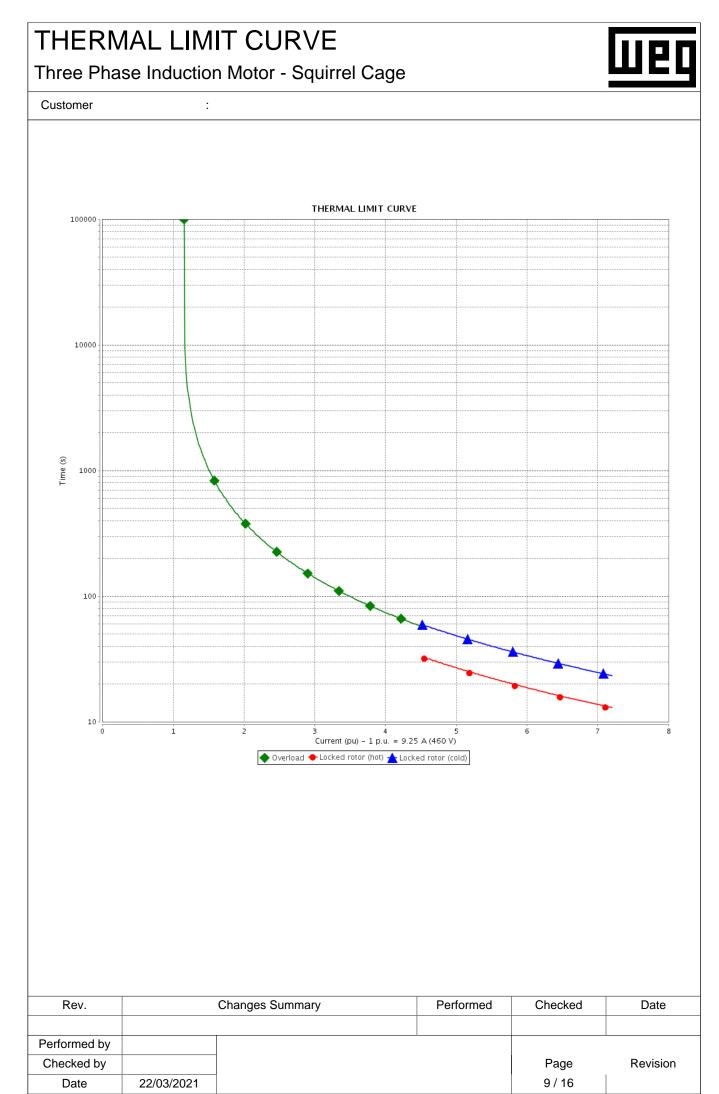


Customer

Product line		Rolled Steel NEMA Premiur fficiency Three-Phase		Product code : Catalog # :	12674978 007180T3E2	213T-SG
Defermence						
Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 7. : 3. jue : 24 ie : 32	3.5/9.25 A 2 08 kgfm 40 % 20 % 770 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0433 kgm ² : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant						
Cooling constant						
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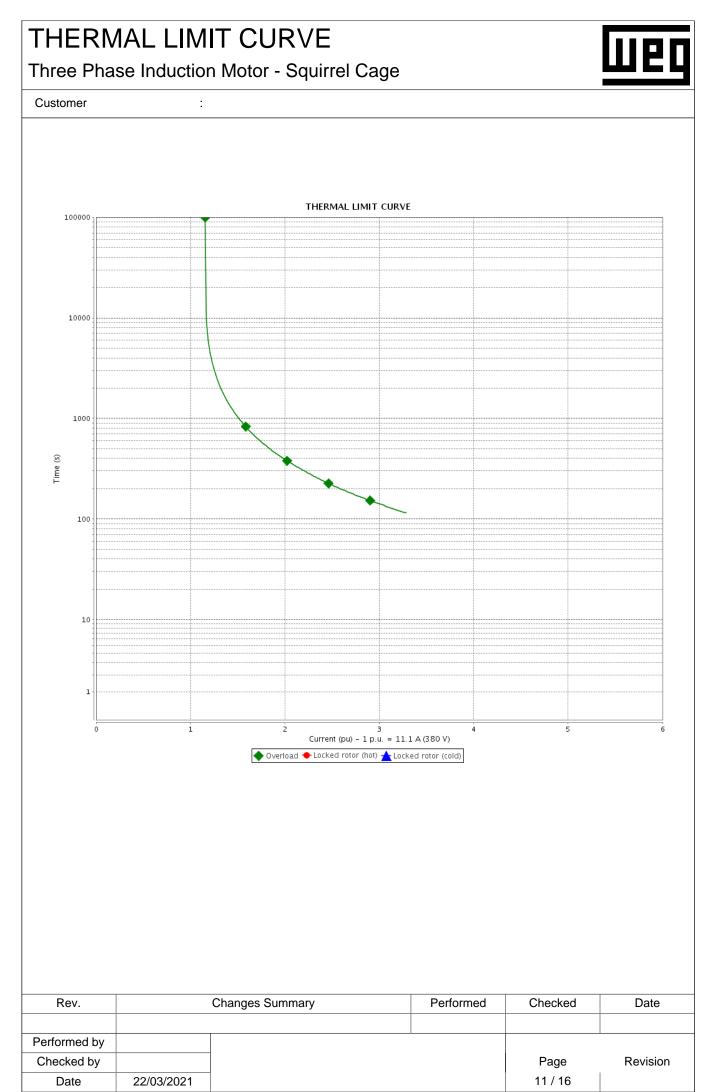


Customer

Product line		Rolled Steel NEMA Premiur fficiency Three-Phase		Product code : Catalog # :	12674978 007180T3E2	213T-SG
Performance	: 19	90/380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torc Breakdown torqu Rated speed	: 5. : 3. jue : 17 ie : 22	2.2/11.1 A 8 74 kgfm 70 % 29 % 455 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0433 kgm ² : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant						
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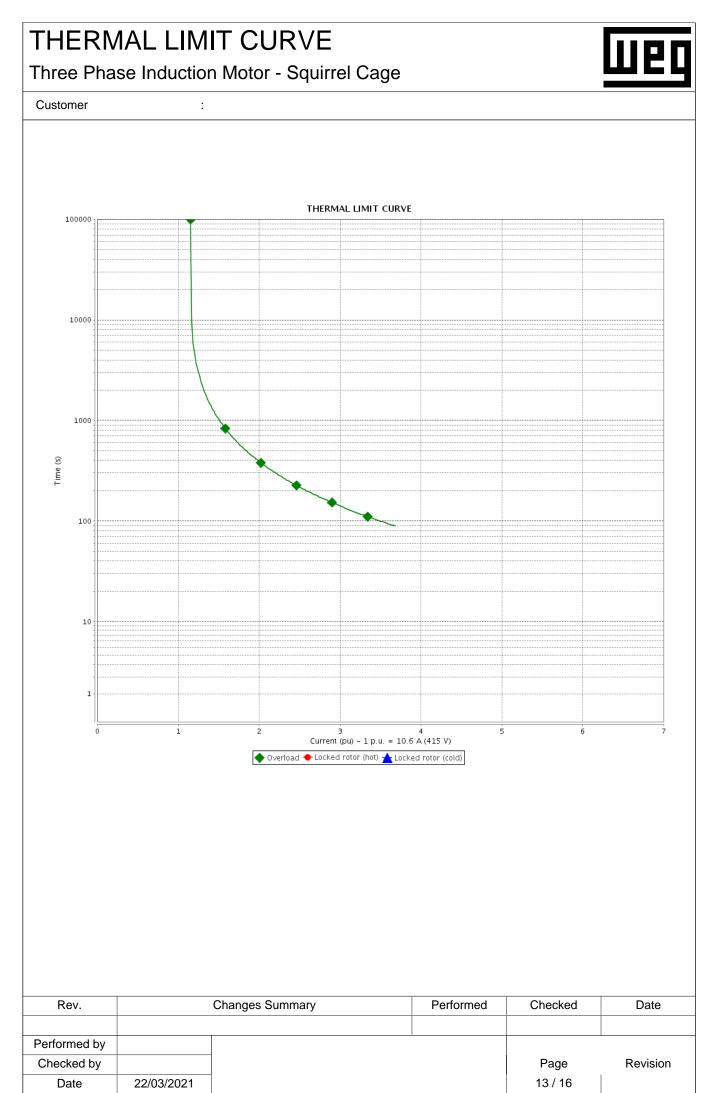


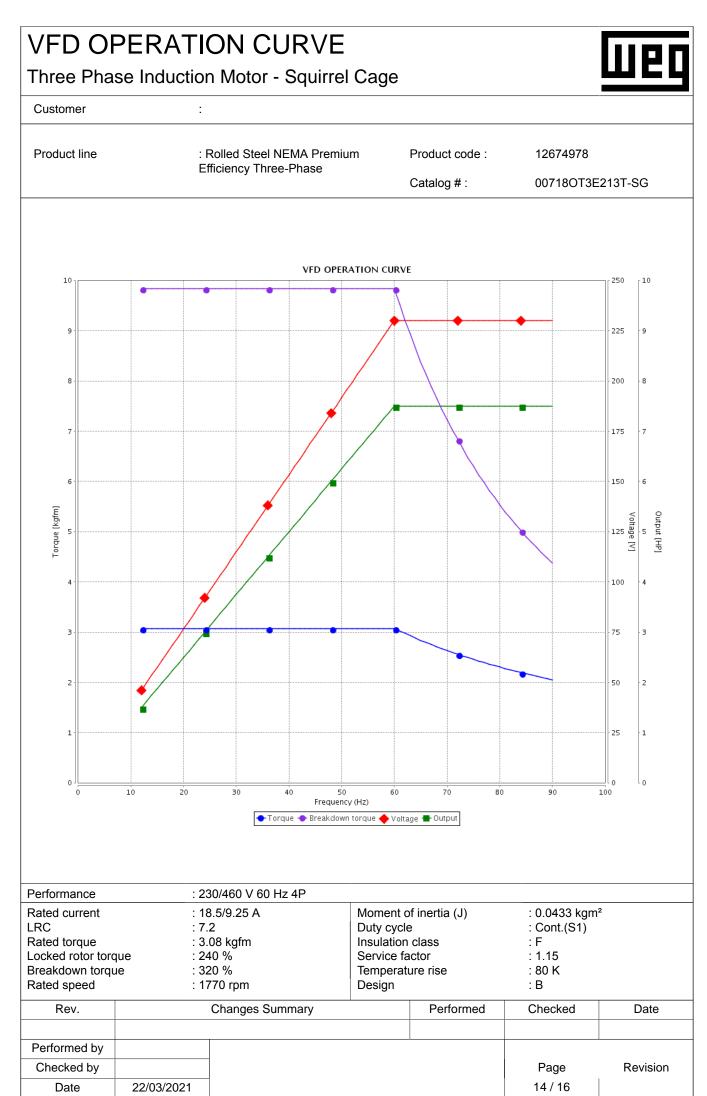
Customer

Product line		Rolled Steel NEMA Premiun	n	Product code :	12674978	
	E	Efficiency Three-Phase		Catalog # :	00718OT3E2	13T-SG
Performance		20/415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 6 : 3 ue : 19 e : 29		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.0433 kgm ² : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant		r.				
Cooling constant						
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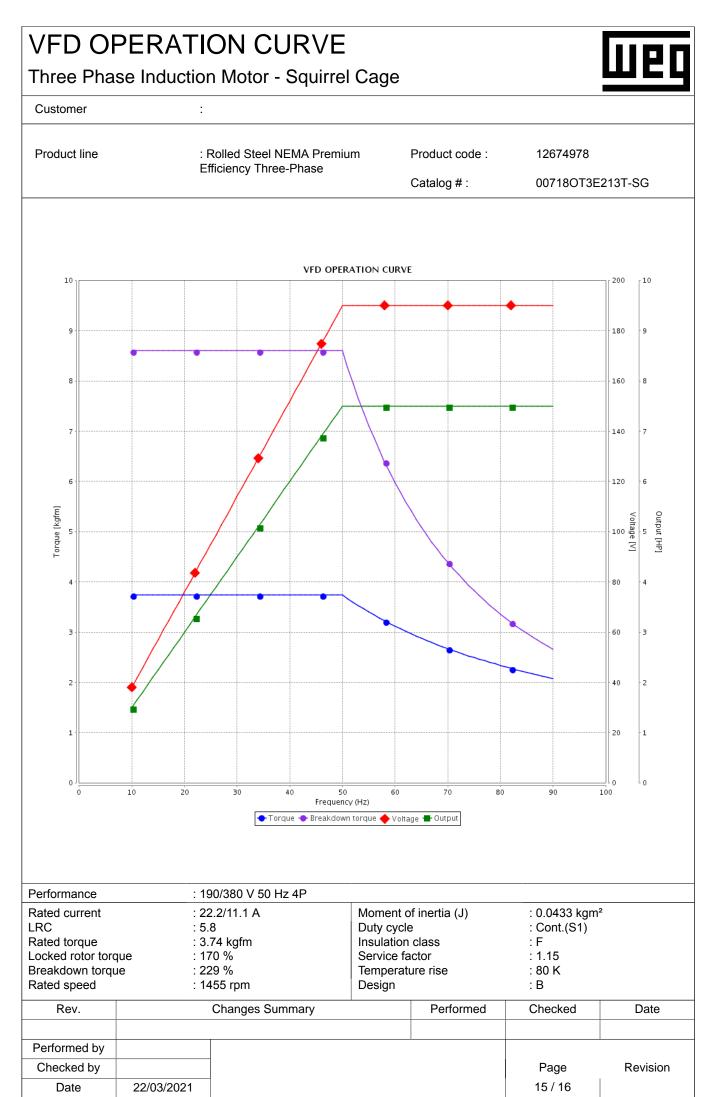
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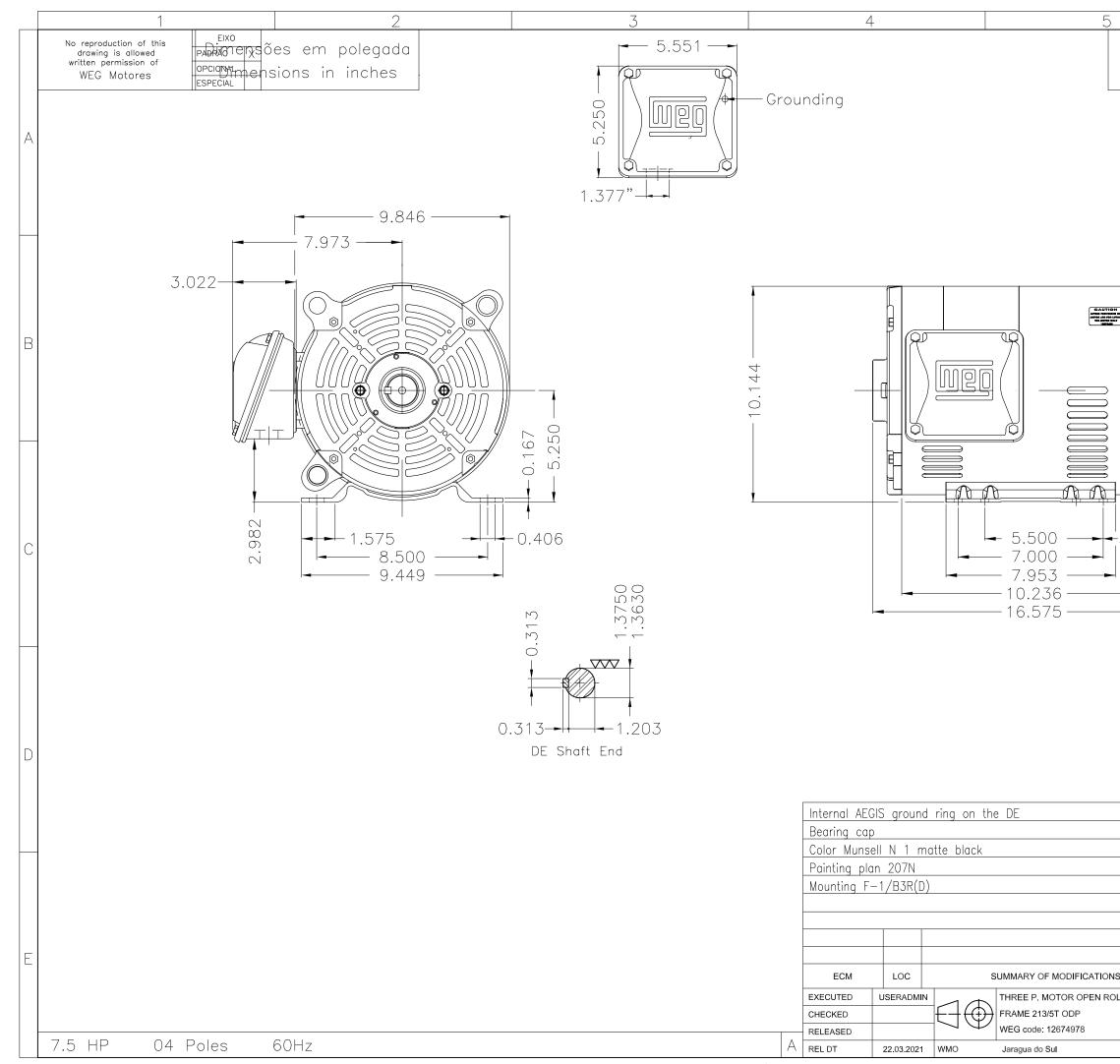
VFD OPERATION CURVE Three Phase Induction Motor - Squirrel Cage Customer : Product line : Rolled Steel NEMA Premium Product code : 12674978 Efficiency Three-Phase Catalog # : 00718OT3E213T-SG VFD OPERATION CURVE 250 _[10 10 225 9 9 8 200 8 175 7 150 6 6 Torque [kgfm] Voltage [V] Output [HP] 100 З 75 З 50 2 2 1 25 1 0 0 ò 10 20 30 40 50 60 70 80 90 100 Frequency (Hz) 🛨 Torque 🖜 Breakdown torque 🔶 Voltage 🖶 Output Performance : 220/415 V 50 Hz 4P : 0.0433 kgm² Rated current : 20.0/10.6 A Moment of inertia (J) LRC Duty cycle : Cont.(S1) : 6.5 Insulation class Rated torque : 3.73 kgfm : F Locked rotor torque : 190 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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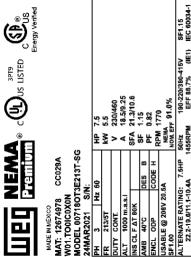
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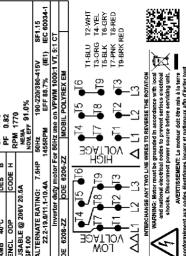
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choc électrique grave. Déconnectez l'alimentation avant l'entrefien de la machine conformément aux codes électriques locaux et nationaux afin d'éviter tout