DATA SHEET

Three Phase Induction Motor - Squirrel Cage

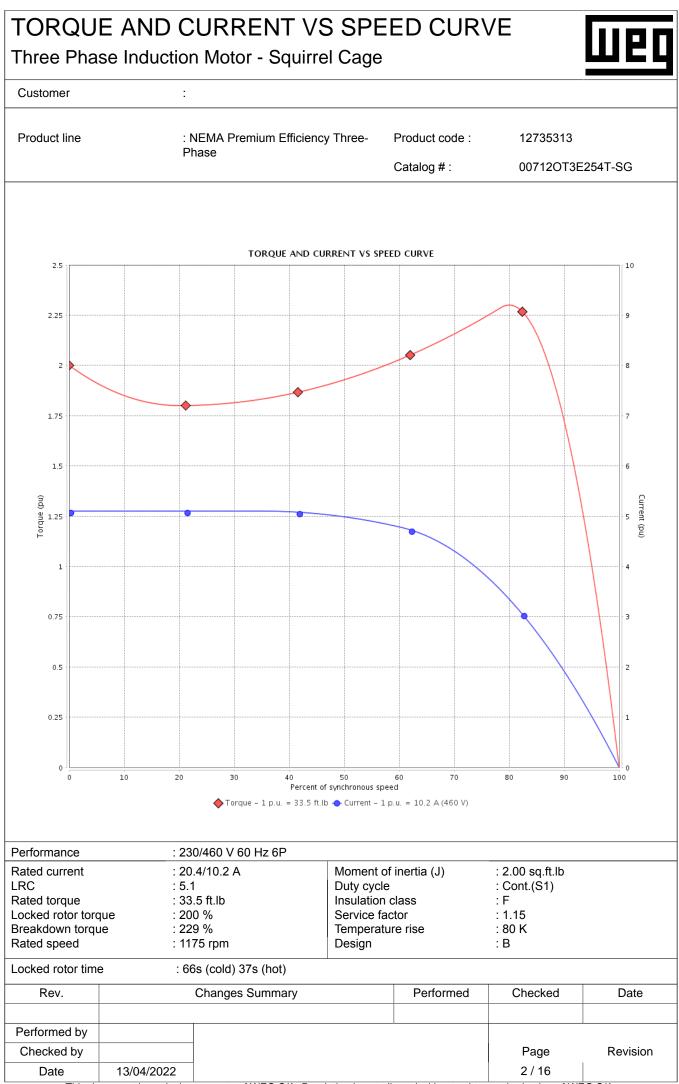
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Customer

Product line		: NEMA Premium Efficiency 1 Phase	hree- Product code :	12735313
		i nase	Catalog # :	00712OT3E254T-SG
Frame Insulation class Duty cycle Ambient temperature Altitude		: 254/6T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l.	Cooling method Mounting Rotation ¹ Starting method Approx. weight ³	: IC01 - ODP : F-1 : Both (CW and CCW) : Direct On Line : 188 lb
Design		: B	Moment of inertia (J)	: 2.00 sq.ft.lb
Dutput [HP]		7.5	7.5	7.5
Poles Frequency [Hz]		6 60	6 50	6 50
Rated voltage [V]		230/460	190/380	220/415
Rated current [A]		20.4/10.2	24.4/12.2	22.1/11.7
R. Amperes [A]		104/52.0	97.6/48.8	99.3/52.6
RC [A]		5.1x(Code F)	4.0x(Code D)	4.5x(Code E)
lo load current [A	1	10.7/5.37	10.6/5.30	10.8/5.72
Rated speed [RPN		1175	970	970
Slip [%]	1	2.08	3.00	3.00
Rated torque [ft.lb]	1	33.5	40.6	40.6
ocked rotor torqu		200	140	160
Breakdown torque		229	180	200
Service factor		1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K
ocked rotor time		66s (cold) 37s (hot)	Os (cold) Os (hot)	Os (cold) Os (hot)
Noise level ²		59.0 dB(A)	57.0 dB(A)	57.0 dB(A)
	25%	88.2	90.1	89.8
	50%	88.5	89.3	89.0
Efficiency (%)	75%	90.2	89.1	89.3
	100%	90.2	88.0	88.1
	25%	0.33	0.39	0.35
Dowor Costor	50%	0.56	0.63	0.59
Power Factor	75%	0.68	0.74	0.71
	100%	0.75	0.78	0.77
Drive end Bearing typeNon drive end 6309 Z C3Non drive end 6208 Z C3Sealing:6309 Z C36208 Z C3Sealing:Without Bearing Seal 20000 hWithout 20000 h		: 6309 Z C3 6208 Z C3 : Without Without Bearing Seal Bearing Sea : 20000 h 20000 h : 13 g 8 g	Max. traction Max. compression	: 295 lb : 483 lb
Lubricant type Notes USABLE @208V	22.6A SF 1.0	: Mobil Polyrex EM		
must be eliminate (1) Looking the m (2) Measured at 1	ed. notor from the 1m and with to weight subject ocess.	cel the previous one, which shaft end. olerance of +3dB(A). t to changes after		based on tests with sinusoidal ne tolerances stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro	ed. notor from the 1m and with to weight subject ocess.	shaft end. blerance of +3dB(A).	power supply, subject to th	
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	ed. notor from the 1m and with to weight subject ocess.	shaft end. blerance of +3dB(A). t to changes after	power supply, subject to th MG-1.	ne 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 Rev. Performed by	ed. notor from the 1m and with to weight subject ocess.	shaft end. blerance of +3dB(A). t to changes after	power supply, subject to th MG-1.	ne tolerances stipulated in NEMA Checked Date
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	ed. notor from the 1m and with to weight subject ocess.	shaft end. blerance of +3dB(A). t to changes after	power supply, subject to th MG-1.	ne tolerances stipulated in NEMA

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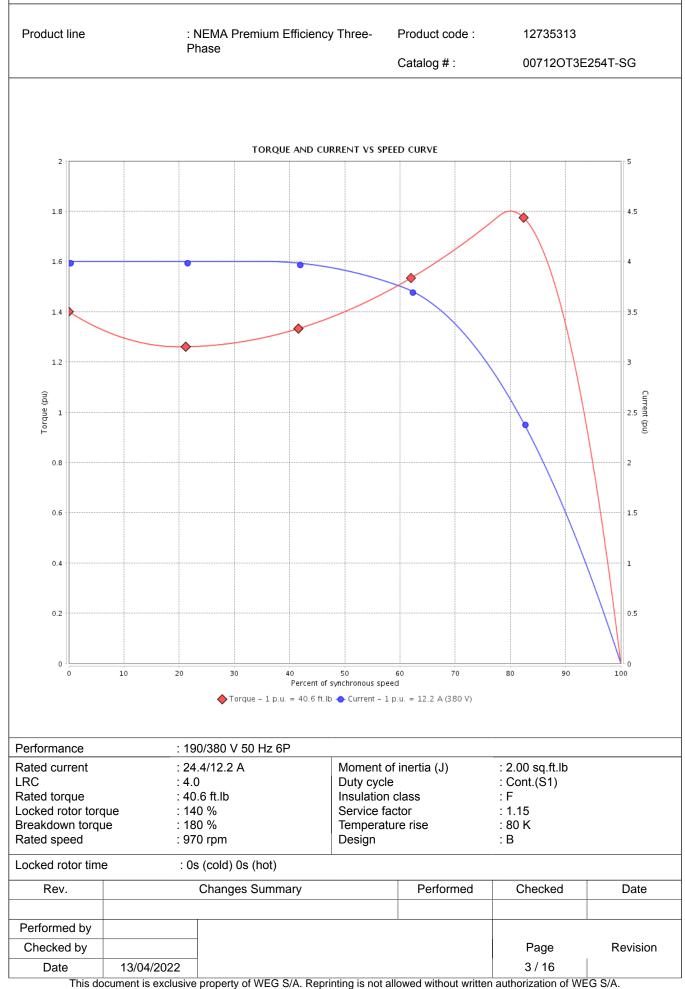
TORQUE AND CURRENT VS SPEED CURVE

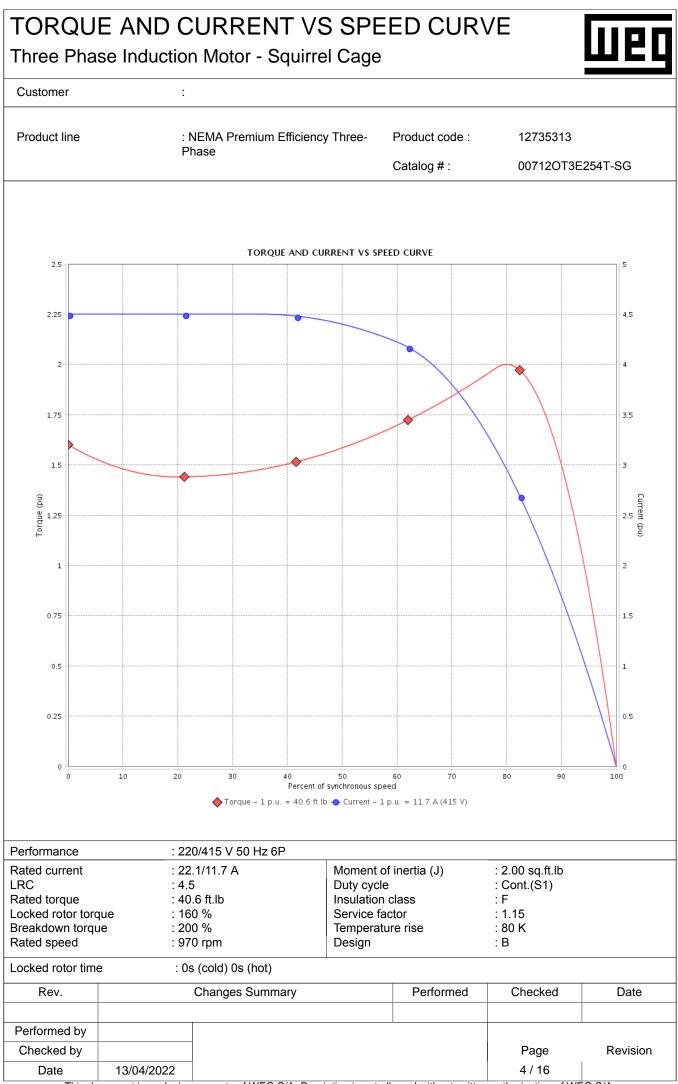
Three Phase Induction Motor - Squirrel Cage

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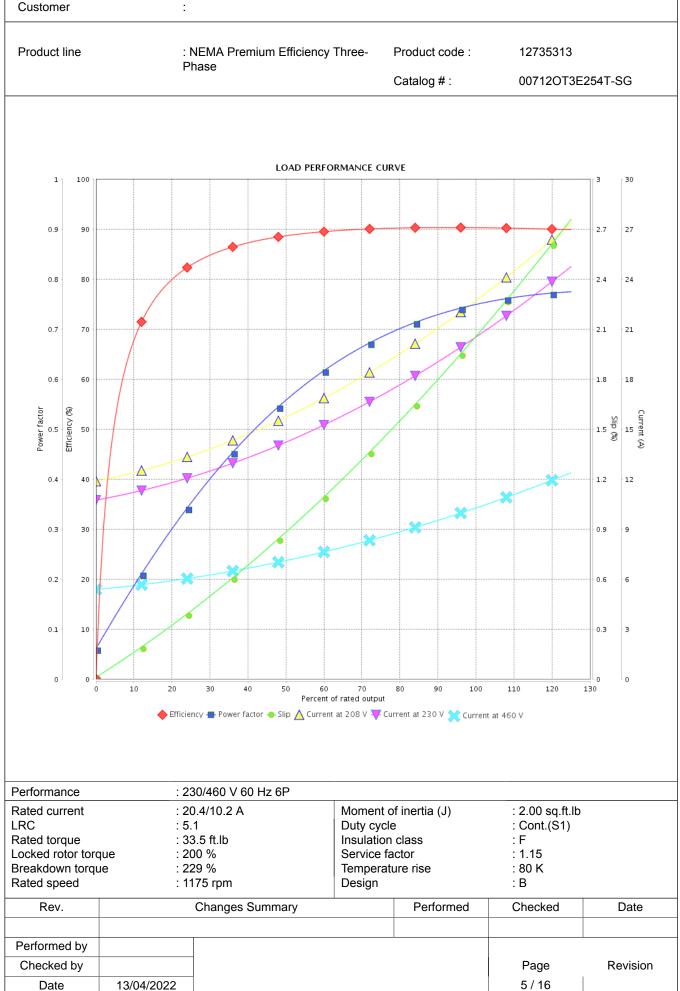




LOAD PERFORMANCE CURVE

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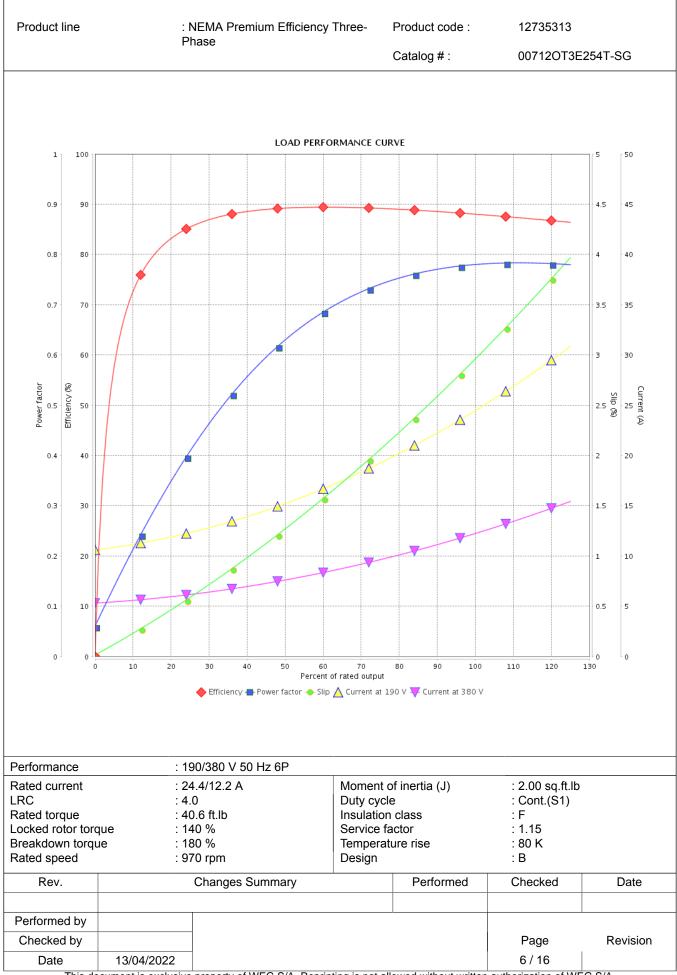
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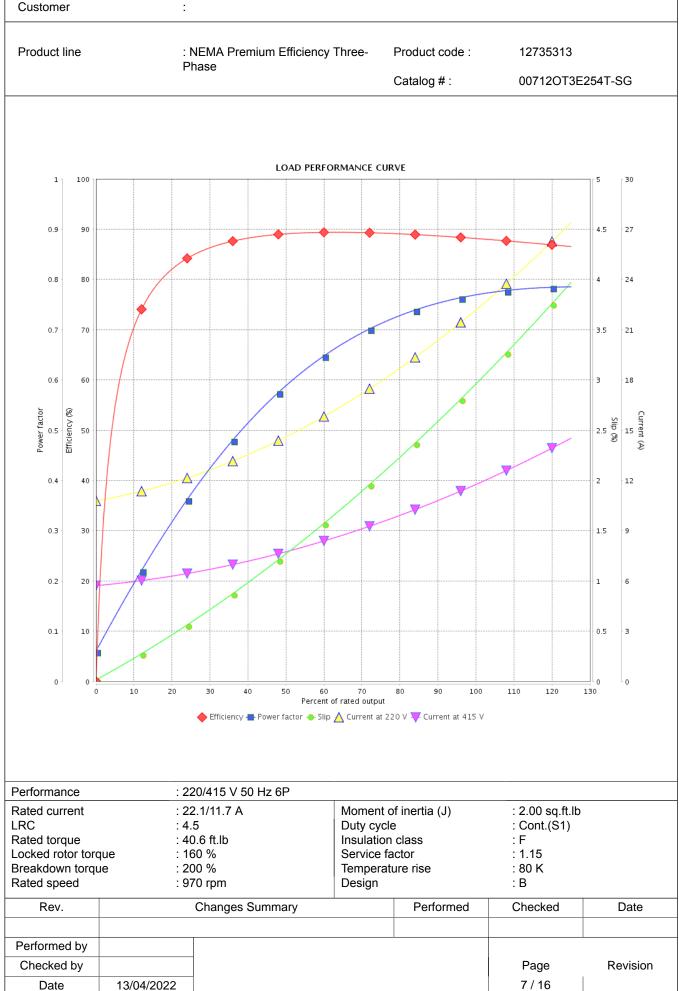
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THERMAL	LIMIT CURVE		шес
Three Phase Ind	luction Motor - Squirrel Cage	9	шеі
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12735313
	T has	Catalog # :	00712OT3E254T-SG

Heating constant Cooling constant

Locked rotor torque

Breakdown torque

Performance

Rated current

Rated torque

Rated speed

LRC

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			8 / 16	

: 230/460 V 60 Hz 6P

: 20.4/10.2 A

: 33.5 ft.lb

: 1175 rpm

: 200 %

: 229 %

: 5.1

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Moment of inertia (J)

Duty cycle Insulation class

Design

Service factor

Temperature rise

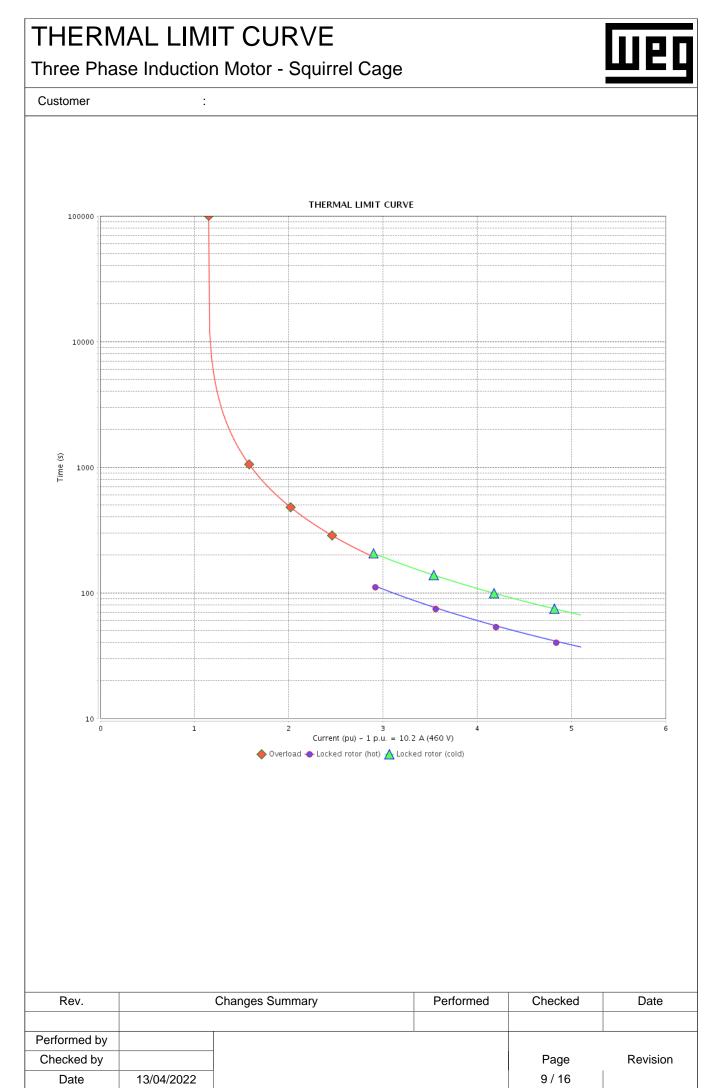
: 2.00 sq.ft.lb : Cont.(S1)

: F

: B

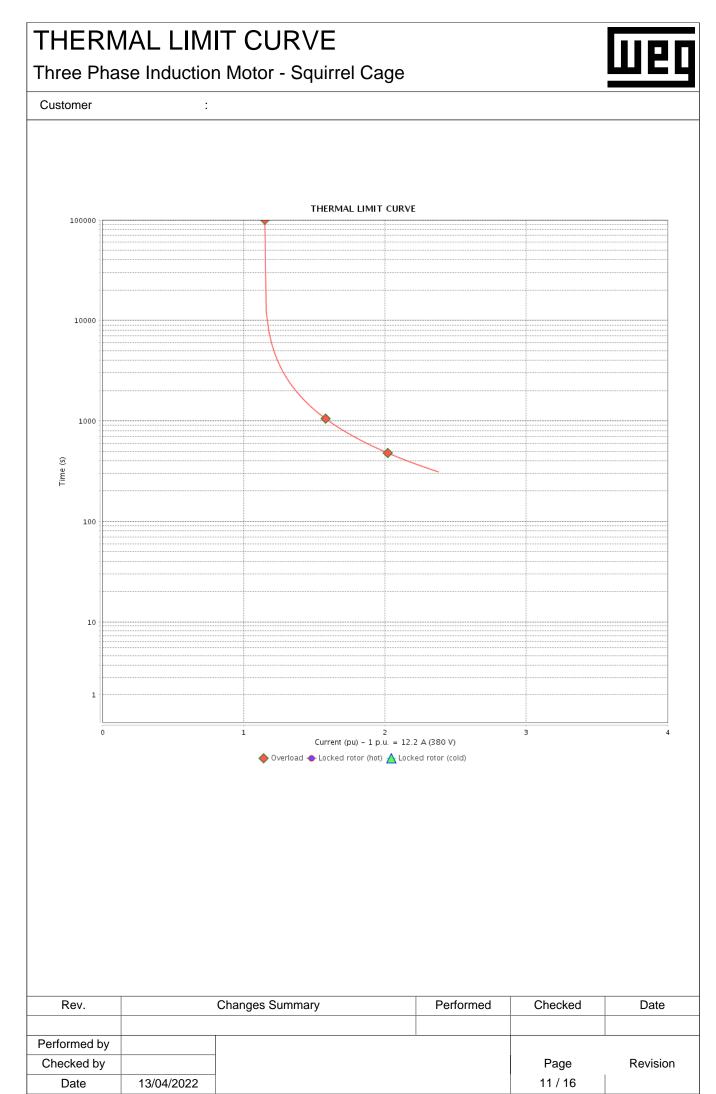
: 1.15

: 80 K



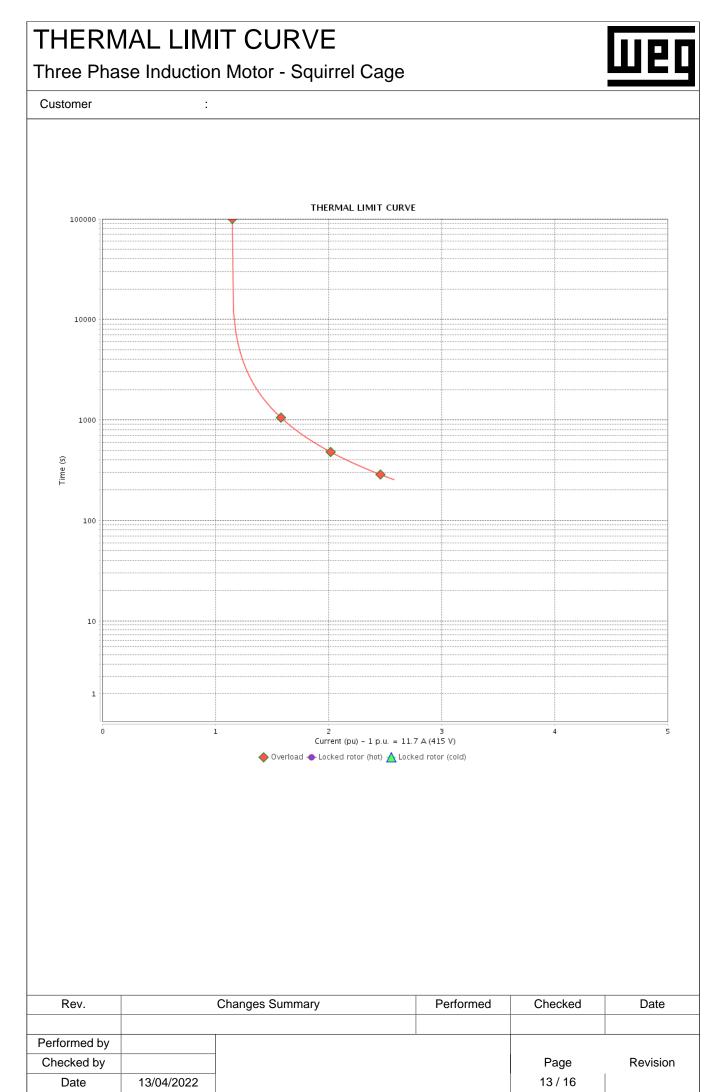
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Three Phase Indu	iction Motor - Squirrel Cage)	шеч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12735313
		Catalog # :	00712OT3E254T-SG

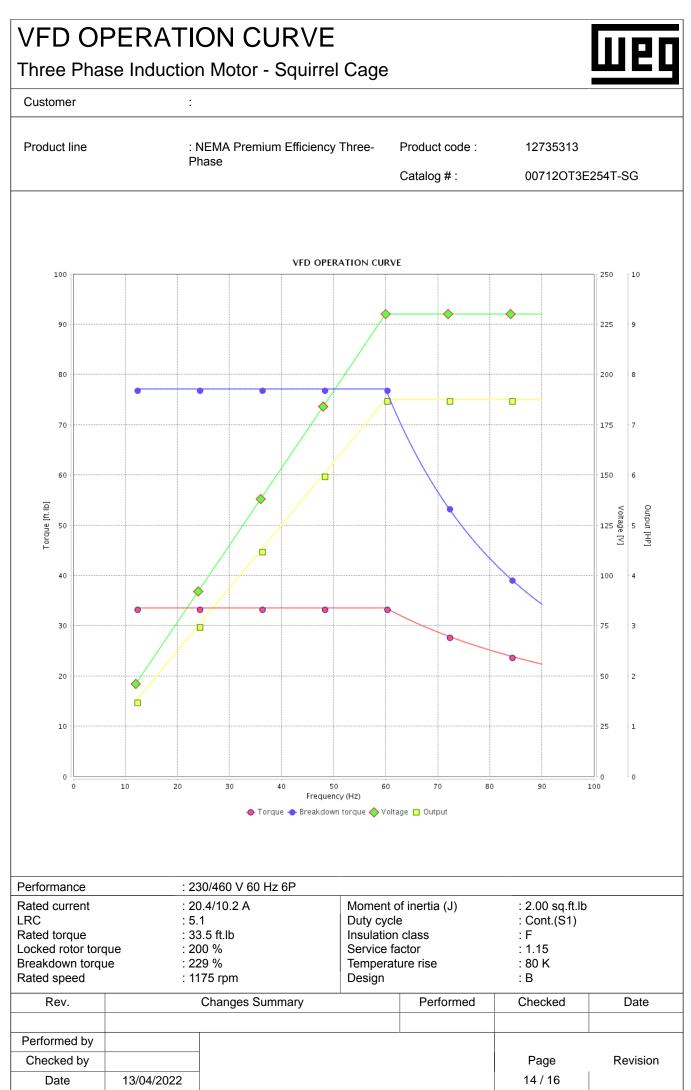
Performance	:	: 190/380 V 50 Hz 6P				
Rated current: 24.4/12.2 ALRC: 4.0Rated torque: 40.6 ft.lbLocked rotor torque: 140 %Breakdown torque: 180 %Rated speed: 970 rpm		: 4.0 : 40.6 ft.lb : 140 % : 180 %	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 2.00 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant	t					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				10 / 16	
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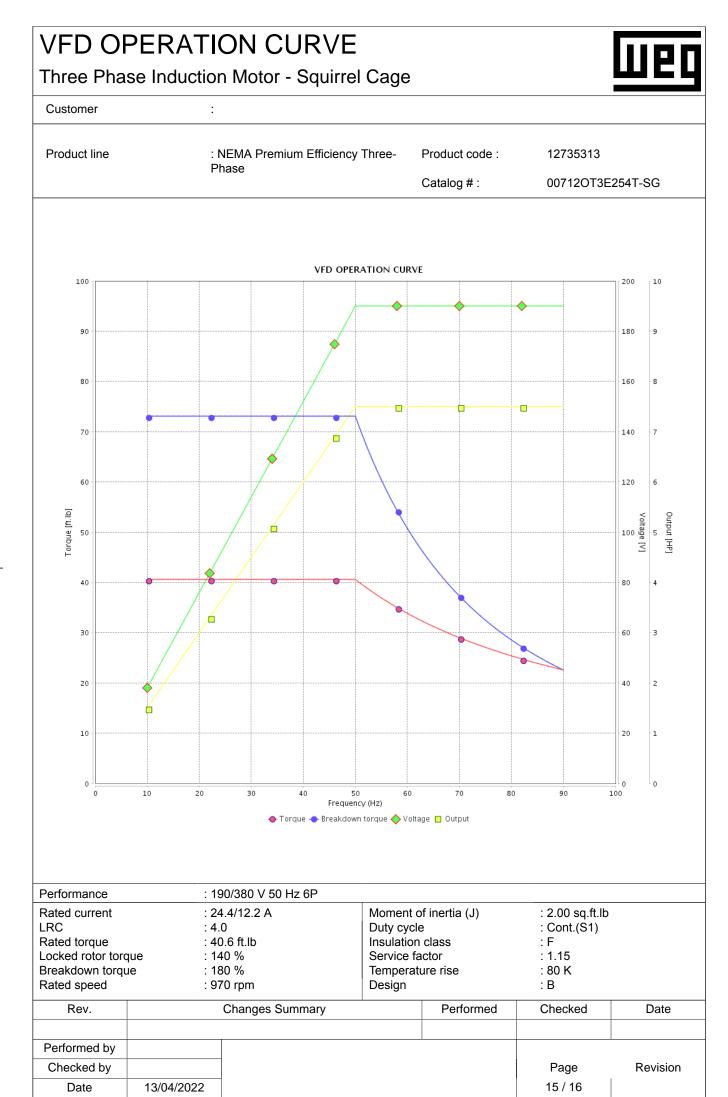
THERMAL L	IMIT CURVE		Шер
Three Phase Indu	ction Motor - Squirrel Cage)	шеч
Customer	:		
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12735313
	Filase	Catalog # :	00712OT3E254T-SG

Performance		: 220/415 V 50 Hz 6P				
Rated current: 22.1/11.7 ALRC: 4.5Rated torque: 40.6 ft.lbLocked rotor torque: 160 %Breakdown torque: 200 %Rated speed: 970 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.00 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B		
Heating constant	t					
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						*
Checked by					Page	Revision
Date	13/04/2022	2			12 / 16	
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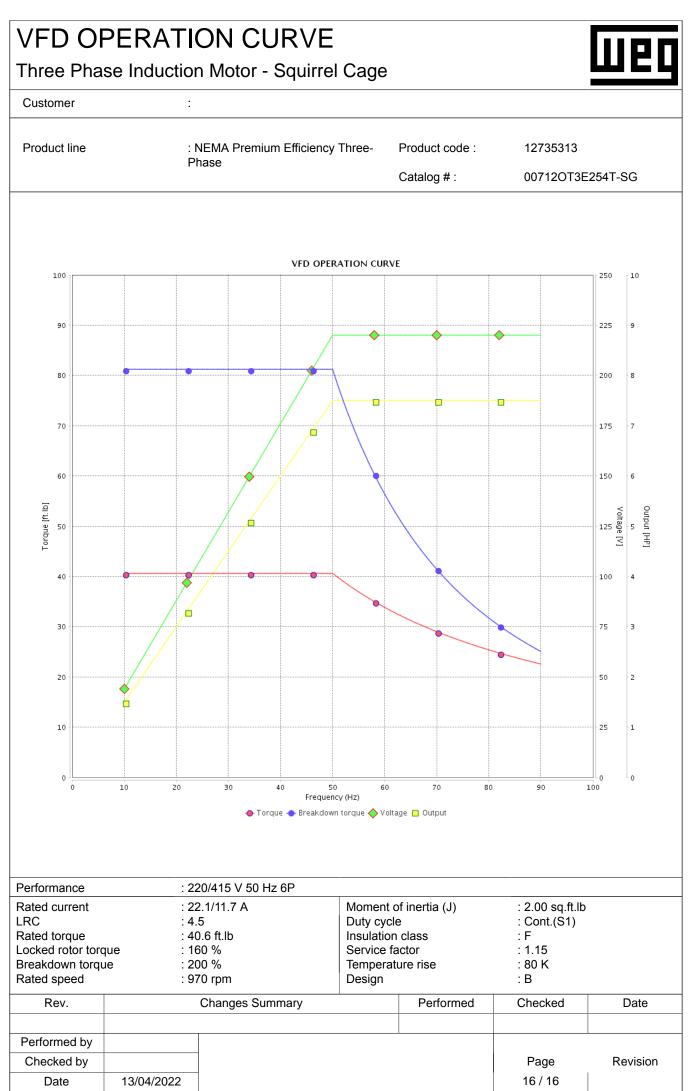




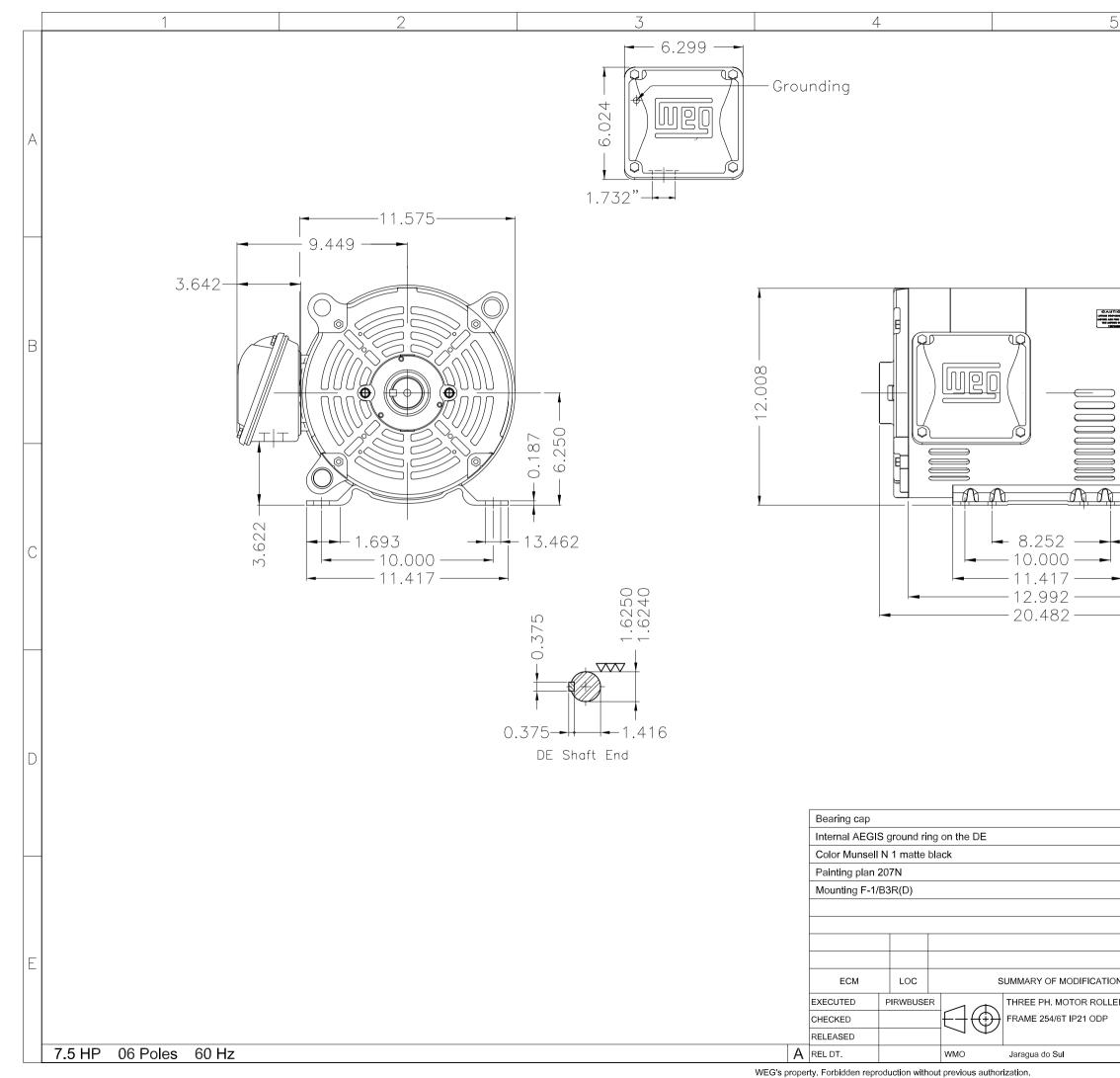
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5	6	7
	4.000	Dimensions in inches
IONS LED STEEL PREM. E		A3 ~
Product	WDD Lul C L Engineering SHEET 1 / 1	XME

