# DATA SHEET

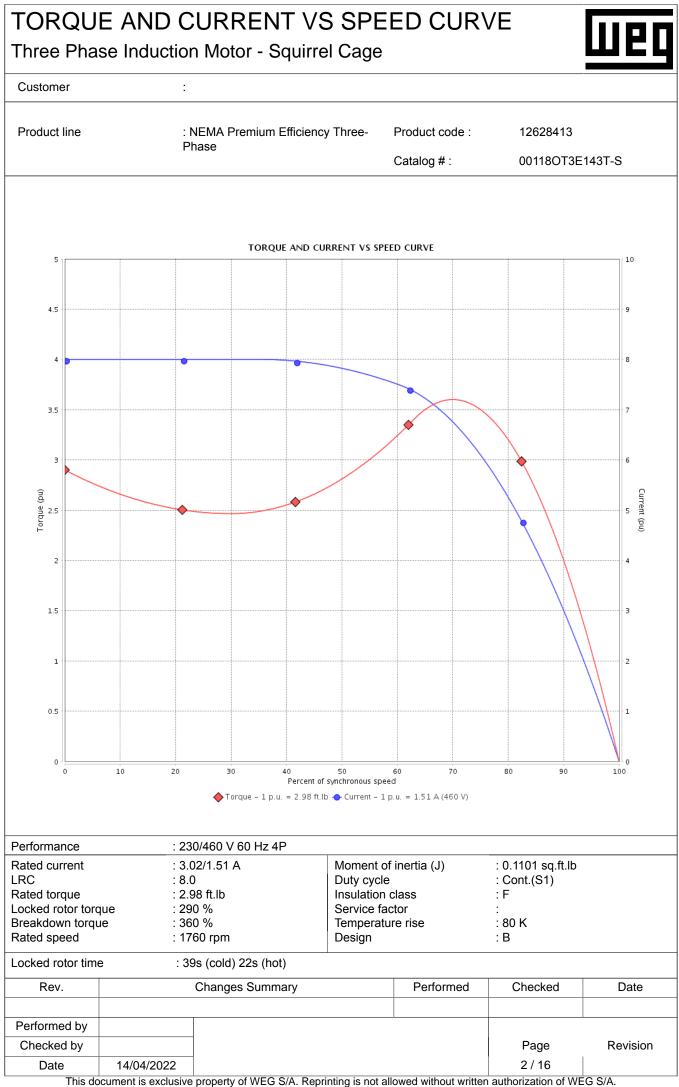
Three Phase Induction Motor - Squirrel Cage

:



#### Customer

		Phase		Product code :							
					Catalog # :	00118OT3E143T-S					
Frame		: 143/5T		Cooling	method	: IC01 - ODP					
Insulation class		: F		Mountin		: F-1					
Duty cycle						: Both (CW	and CCW)				
Ambient tempera	ature	: -20°C to +40°C		Rotation <sup>1</sup> : Both (CW and CC) Starting method : Direct On Line							
Altitude		: 1000 m.a.s.l.		Approx. weight <sup>3</sup> : 34.7 lb							
Design		: B			of inertia (J)	: 0.1101 sq.	ft.lb				
Dutput [HP] 1					1	•	1				
Poles		4			4		4				
Frequency [Hz]		60			50		50				
Rated voltage [V]		230/46	0		190/380	2	20/415				
Rated current [A]		3.02/1.			3.44/1.72		15/1.67				
L. R. Amperes [A]		24.2/12			22.4/11.2		.4/11.9				
LRC [A]		8.0x(Cod		F	5.5x(Code J)		(Code K)				
No load current [A	1	1.92/0.9			1.88/0.942		03/1.02				
Rated speed [RPN		1.92/0.9			1445		1450				
Slip [%]	vi]	2.22			3.67		3.33				
Rated torque [ft.lb	1	2.22			3.63		3.33 3.62				
Locked rotor torqu		290			200		229				
Breakdown torque	;[%]	360			270		300				
Service factor					1.15		1.15				
Temperature rise		80 K			80 K		80 K				
Locked rotor time		39s (cold) 22			(cold) 0s (hot)		ld) 0s (hot)				
Noise level <sup>2</sup>		52.0 dB	(A)		49.0 dB(A)		0 dB(A)				
	25%	79.9			82.2		80.7				
Efficiency (%)	50%	81.5			81.9		81.0				
Efficiency (%) 75%		84.0			83.4		83.2				
	100%	85.5			82.6		83.1				
	25%	0.29			0.34		0.31				
	50%	0.51			0.59		0.55				
Power Factor	75%	0.65			0.73		0.69				
	100%	0.73			0.80		0.78				
	1	Drive end N	on drive end	Foundati	on loads						
Bearing type		: 6205 ZZ	6203 ZZ	Max. trac		: 77 lb					
		: Without	Without			: 112 lb					
Sealing		Bearing Seal			npression						
Lubrication interv		. Deaning Seal	bearing Seal								
Lubricant amour		· -	-								
Lubricant type		: - Mobil Poly	rex FM								
Notes											
USABLE @208V	3.34A SF 1.	00 SFA 3.34A									
This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate	aces and car ed. notor from the 1m and with t weight subject	ncel the previous or				based on tests w e tolerances stipu					
This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate manufacturing pro (4) At 100% of ful	aces and car ed. notor from the Im and with t weight subject ocess.	ncel the previous or e shaft end. olerance of +3dB(A et to changes after	N).	power su	pply, subject to th	e tolerances stipu	lated in NEMA				
This revision repl must be eliminate (1) Looking the m (2) Measured at ( (3) Approximate v manufacturing pro-	aces and car ed. notor from the Im and with t weight subject ocess.	ncel the previous or shaft end. olerance of +3dB(A	N).	power su							
This revision repl must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate manufacturing pr (4) At 100% of ful Rev.	aces and car ed. notor from the Im and with t weight subject ocess.	ncel the previous or e shaft end. olerance of +3dB(A et to changes after	N).	power su	pply, subject to th	e tolerances stipu	lated in NEMA				
This revision repl must be eliminate (1) Looking the m (2) Measured at 7 (3) Approximate v manufacturing pro- (4) At 100% of ful Rev. Performed by	aces and car ed. notor from the Im and with t weight subject ocess.	ncel the previous or e shaft end. olerance of +3dB(A et to changes after	N).	power su	pply, subject to th	e tolerances stipu Checked	Ilated in NEMA				
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### TORQUE AND CURRENT VS SPEED CURVE

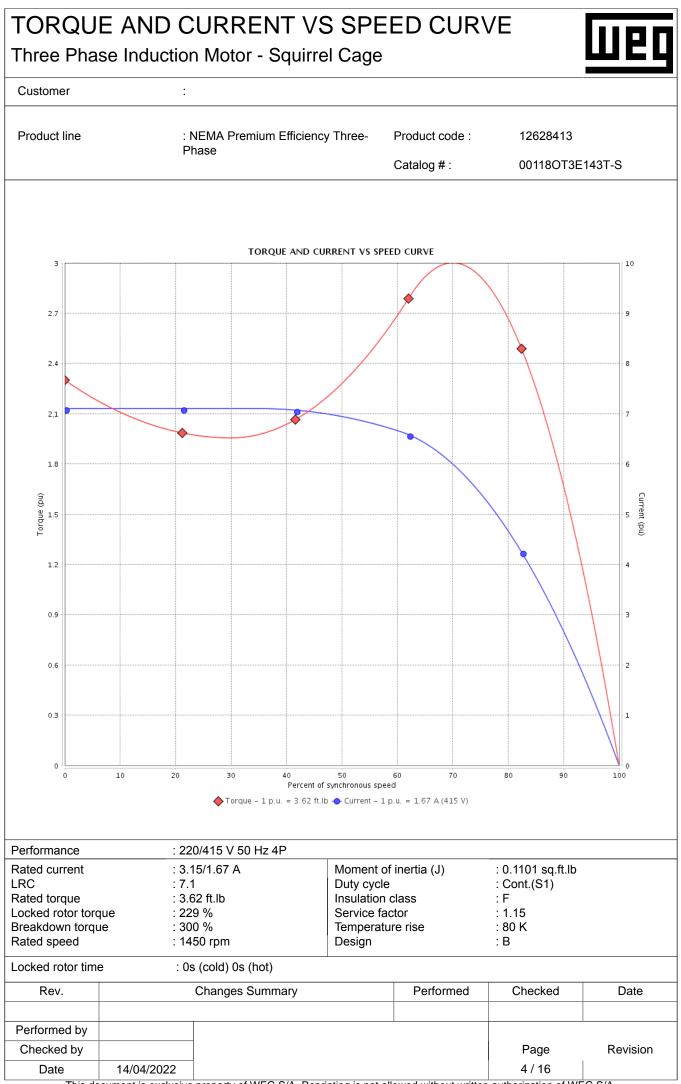
Three Phase Induction Motor - Squirrel Cage

:



Customer

Product line	: NEMA Premium Ef	fficiency Three-	Product code :	12628413		
	Phase		Catalog # :	00118OT3E1	143T-S	
	TOROUE	AND CURRENT VS SPE				
3					10	
2.7 -					9	
2.4			<b>*</b>		8	
				•		
2.1	•	•			7	
1.8					6	
nd an 1.5 Duor					5 (pu)	
1.2					4	
0.9 -					3	
0.6					2	
0.3				\	1	
0						
0 10	I	0 50 Percent of synchronous spe = 3.63 ft.lb 🔶 Current – 1		80 90	100	
erformance	: 190/380 V 50 Hz 4P		finantic (1)	.0.4404		
ated current RC ated torque ocked rotor torque reakdown torque	: 3.44/1.72 A : 6.5 : 3.63 ft.lb : 200 % : 270 %	Duty cycle Insulation Service fa Temperati	class ctor	: 0.1101 sq.ft.lb : Cont.(S1) : F : 1.15		
ated speed	: 1445 rpm	Design	110 H30	: 80 K : B		
Rev.	: 0s (cold) 0s (hot) Changes Summa	ry	Performed	Checked	Date	
)orformed by						
Performed by Checked by				Page	Revision	
Date 1	4/04/2022			3 / 16		

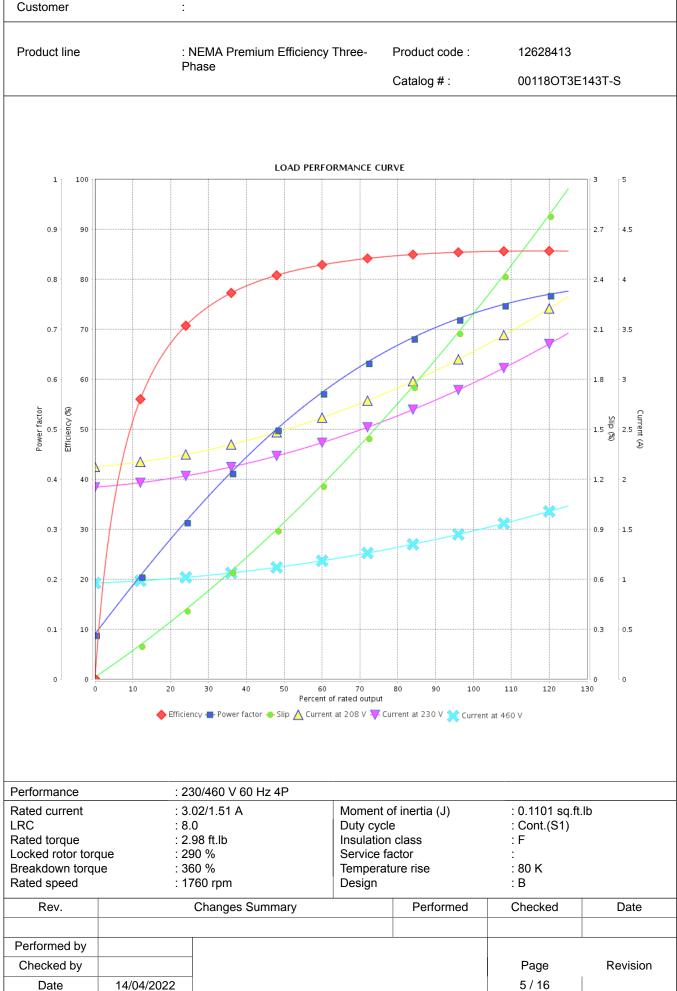


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## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

### Customer



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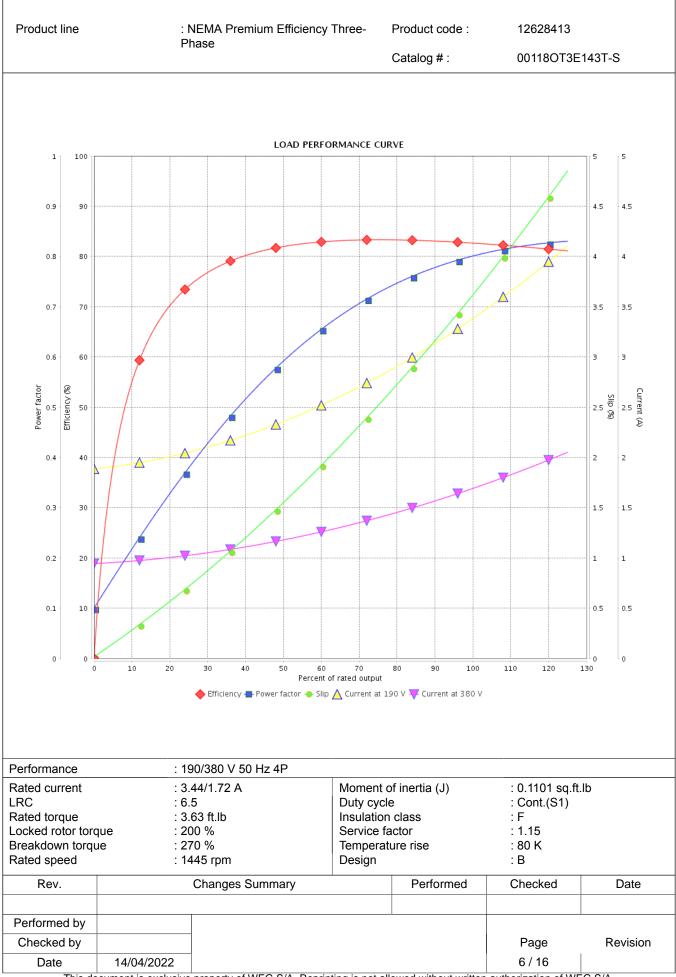
### LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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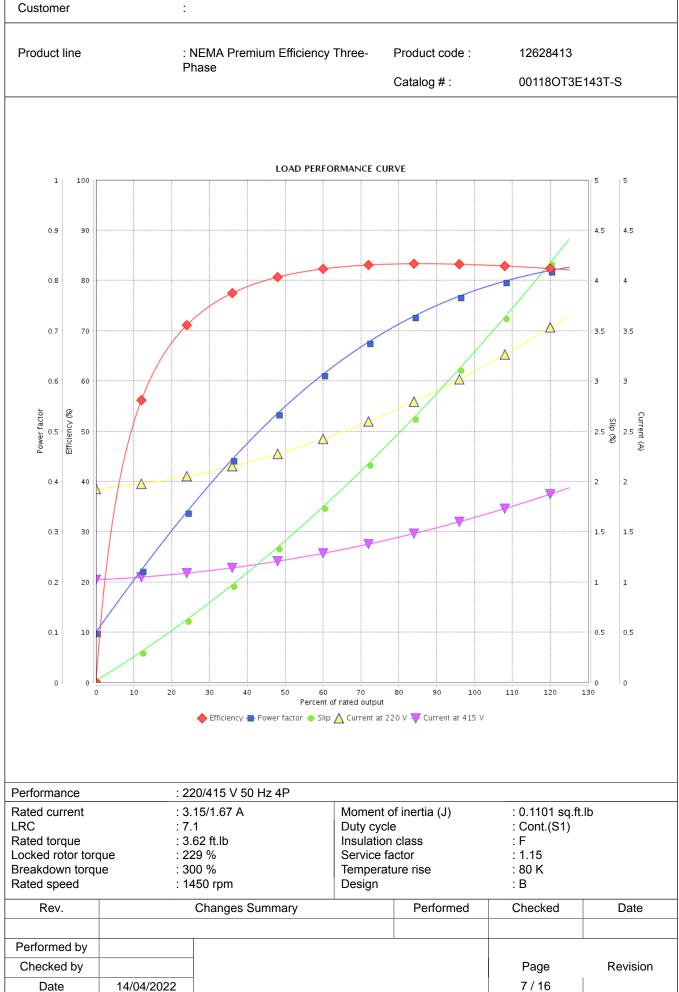
Customer



## LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

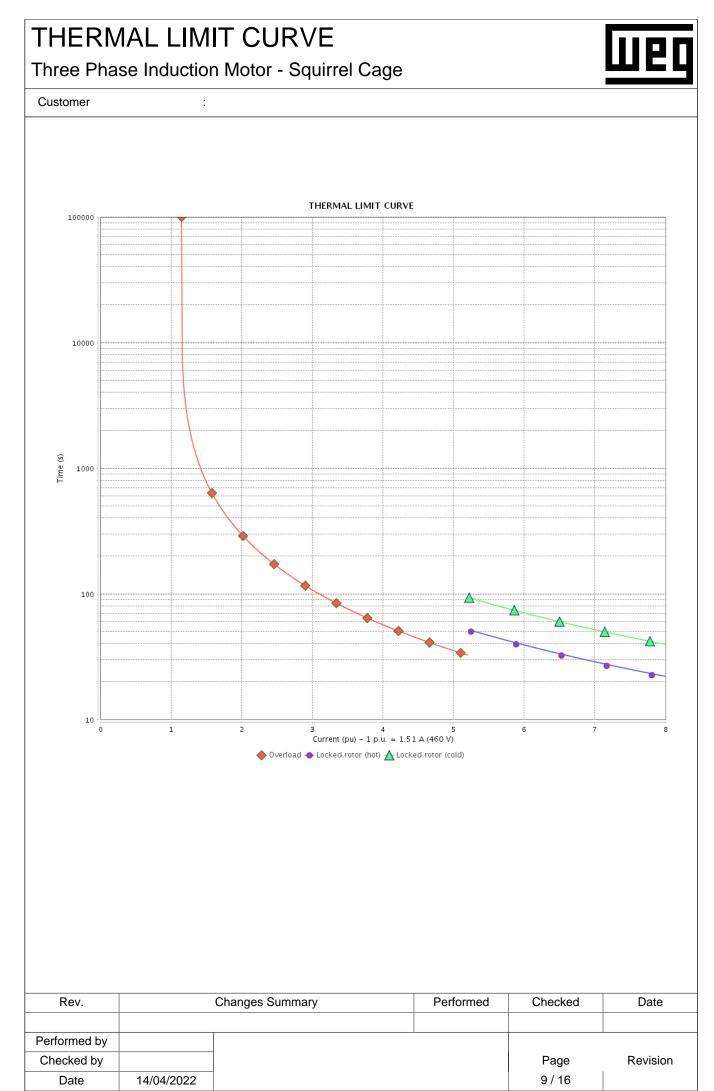
### Customer



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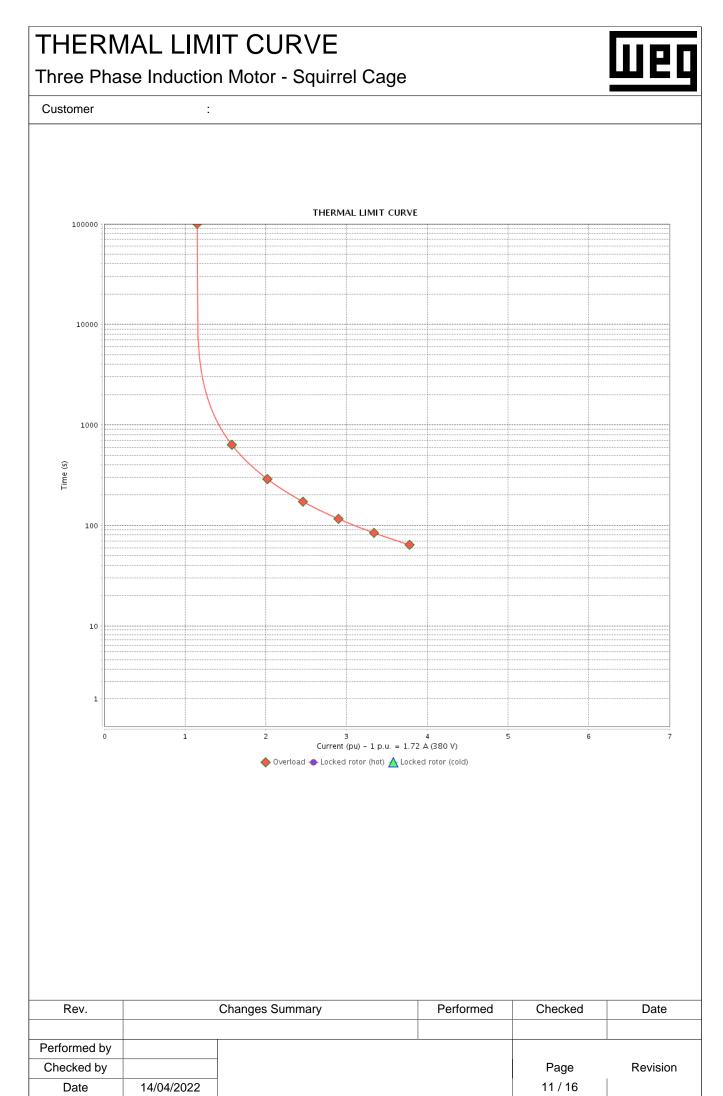
THERMAL LIMIT CURVE   Three Phase Induction Motor - Squirrel Cage										
Customer	:									
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12628413							
	1 11000	Catalog # :	00118OT3E143T-S							

Performance	: 2:	30/460 V 60 Hz 4P						
LRC Rated torque Locked rotor torque Breakdown torque		02/1.51 AMoment of iner0Duty cycle98 ft.lbInsulation class30 %Service factor50 %Temperature ris760 rpmDesign		class ctor	: 0.1101 sq.ft : Cont.(S1) : F : : 80 K : B	: F : : 80 K		
Heating constant								
Cooling constant								
Rev.		Changes Summary		Performed	Checked	Date		
Performed by								
Checked by					Page Revision			
Date	14/04/2022	1			8 / 16			



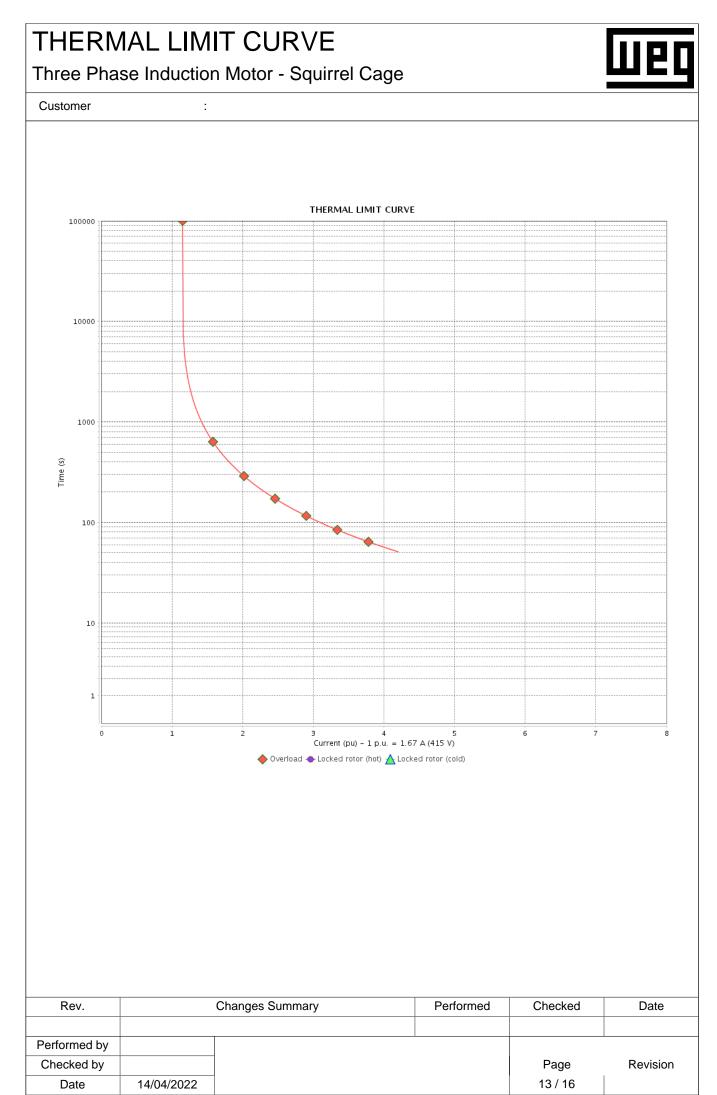
Three Phase Induction Motor - Squirrel Cage											
Customer	:										
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12628413								
		Catalog # :	00118OT3E143T-S								

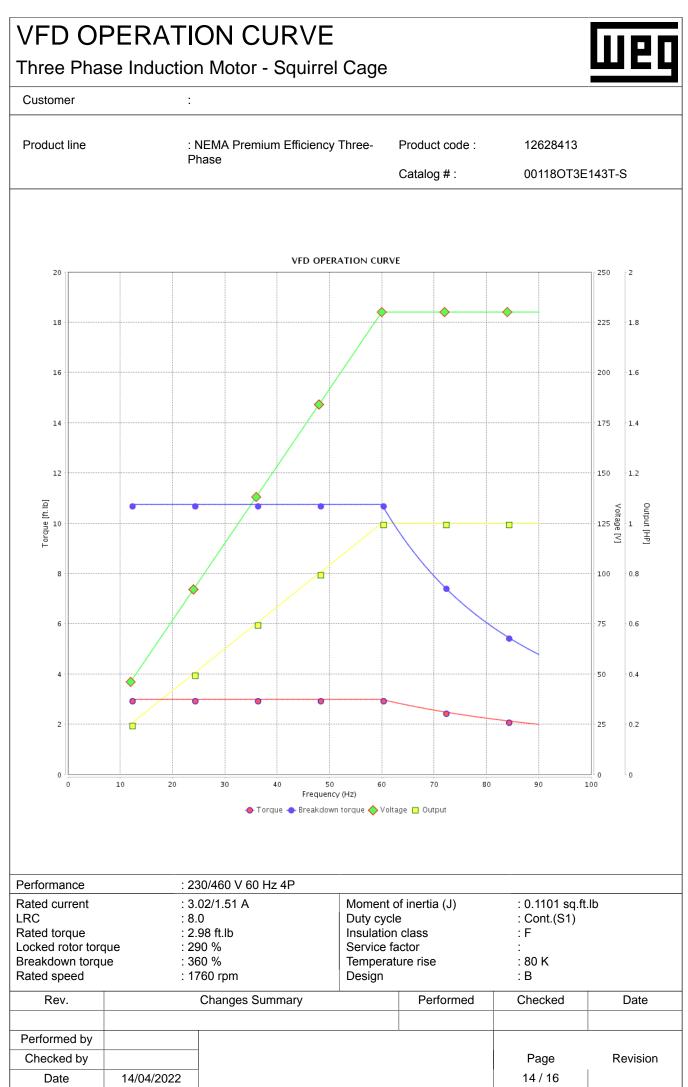
Performance	: '	190/380 V 50 Hz 4P					
Rated current	: 3	3.44/1.72 A	Moment o	f inertia (J)	: 0.1101 sq.ft.lb		
LRC	: 6	6.5	: Cont.(S1)				
Rated torque	: 3	3.63 ft.lb	Insulation	class	: F		
Locked rotor torq	ue :2	200 %	Service fa	: 1.15			
Breakdown torqu	e :2	270 %	Temperate	: 80 K			
Rated speed	: ^	1445 rpm	Design		: B		
Heating constant							
Cooling constant							
Rev.		Changes Summary		Performed	Checked	Date	
		- 1					
Performed by							
Checked by	Checked by				Page	Revision	
Date	14/04/2022			10 / 16			
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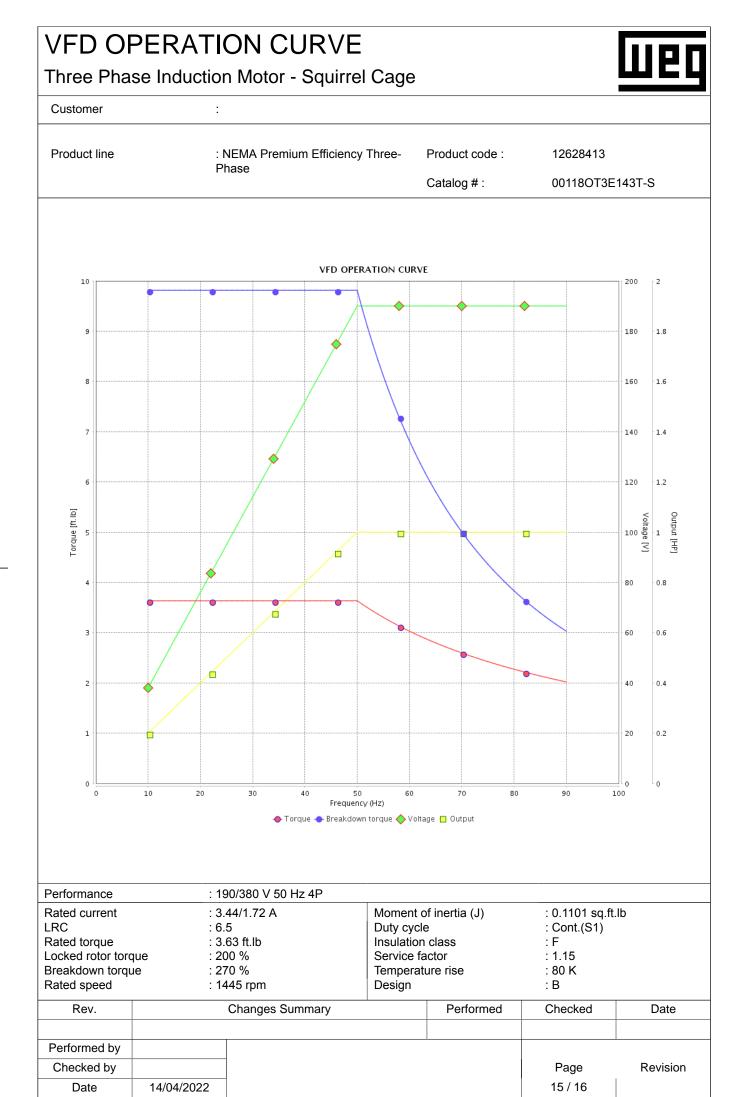
THERMAL LIMIT CURVE											
Three Phase Induc	tion Motor - Squirrel Cage		шсц								
Customer	:										
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	12628413								
	T hase	Catalog # :	00118OT3E143T-S								

Performance	: 22	20/415 V 50 Hz 4P						
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 7. : 3. jue : 22 ie : 30	15/1.67 A 1 62 ft.lb 29 % 00 % 450 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1101 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B			
Heating constant	İ.							
Cooling constant								
Rev.		Changes Summary		Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	14/04/2022	1			12 / 16	12 / 16		

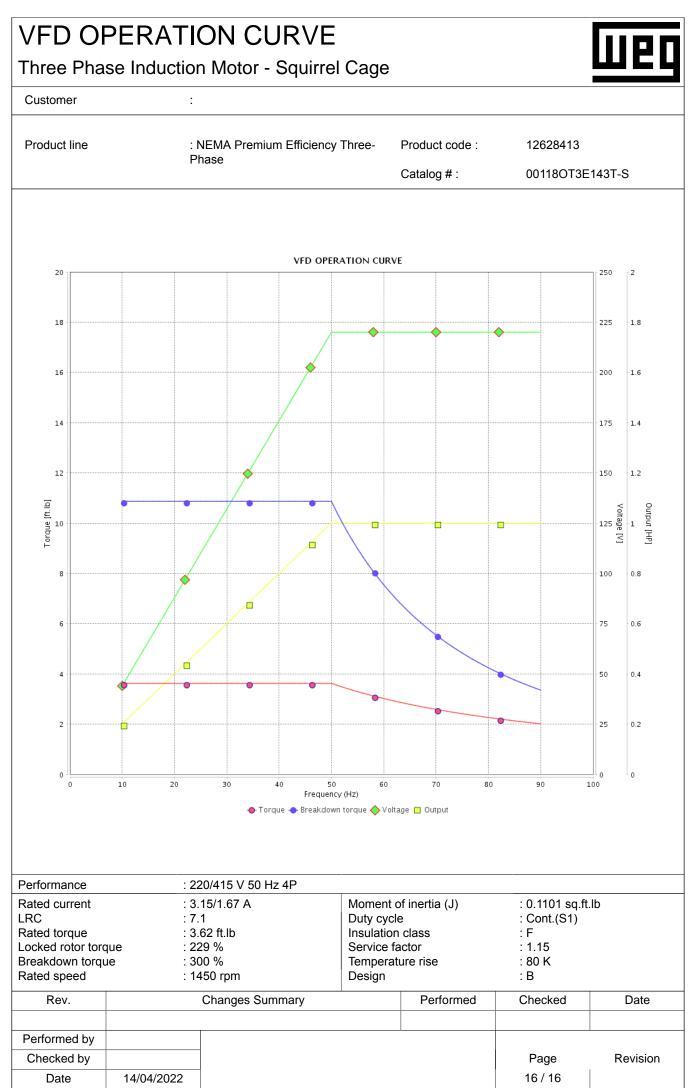


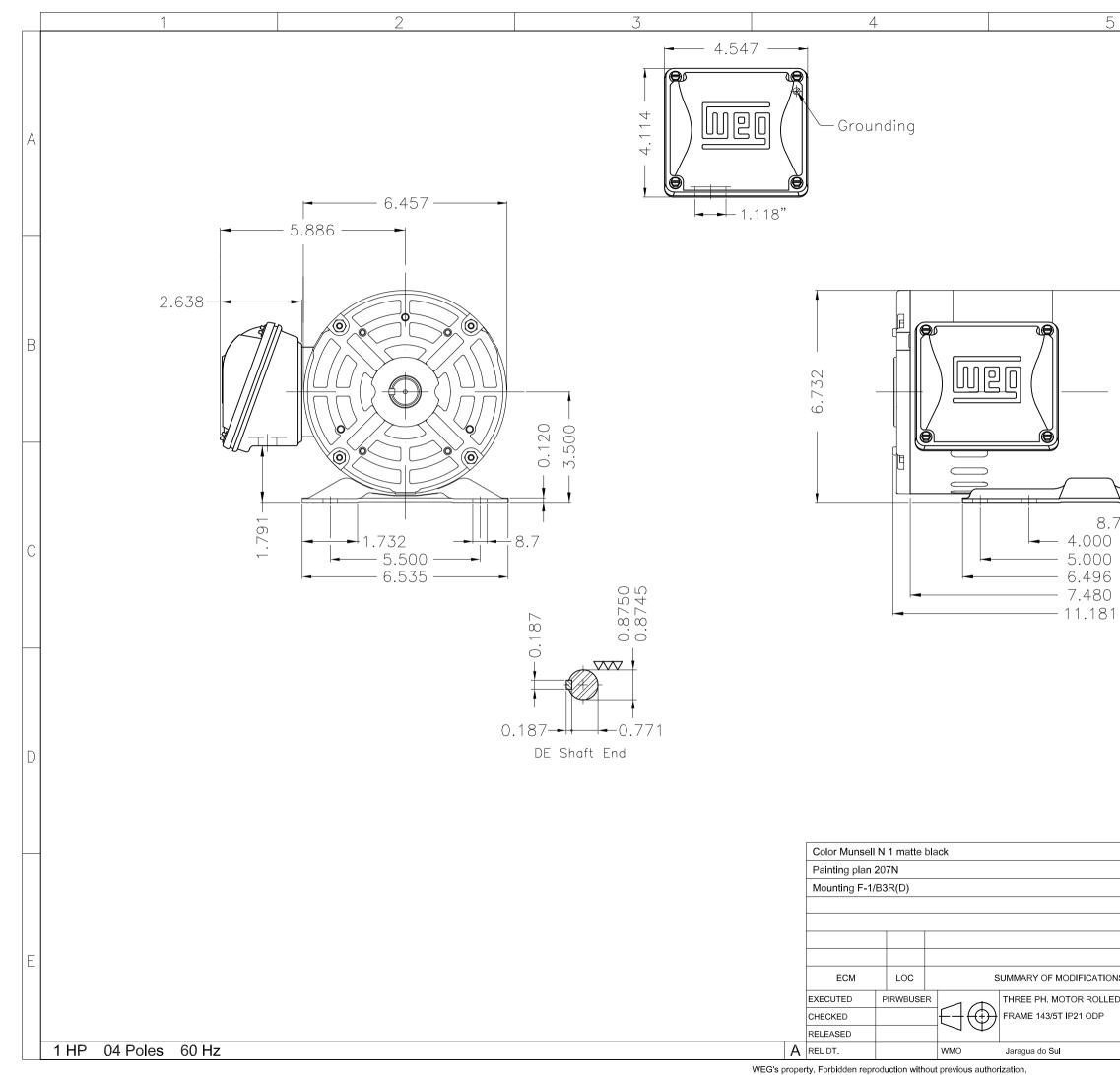


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						Dimensions in inches
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Product	t Engineering	WDD SHEET	1 / 1			XME
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COLOUS LISTED COLOUS Energy verified	C€			7 U.75			CL.I			190-220/380-415V	PM EFF 82.6% (IE3) IEC 60034-1	Inverter duty motor For 80Hz use on VPWM 1000:1 VT, 5:1 CT	MOBIL POLYREX EM	T4 T5 T6	T1-BLU	17 418 419 T3-ORG T4-YEL	T1 T2 T7-PNK T8-GRY	T T T T9-BRK RED	REVERSE THE ROTATION HOTHER V	In accordance with local the prevent serious electrical the before servicing unit.	eur doit être mis à la terre
LIED REMA®	MADE IN BRAZIL MAT: 12628413 CC029A W01.T00IC0X0N	MODEL 00118013E1431-S 13APR2022 B/N:	3 Hz 60	FR 143/5T KW	1000 m.a.s.l	INS CL F AT 80K SFA	AMB 40°C DES B SF	ENCL ODP CODE L RPM	USABLE @ 208V 3.34A NEI SF1.00	NATE RATING: 1.0HP 5	3.44-3.15/1.72-1.67A 1445RPM	Inverter duty motor For 80Hz	DE 6205-ZZ ODE 6203-ZZ	T4 T5 T6					INTERCHANGE ANY TWO LINE WIRES TO REVERSE THE ROTATION	WARNING: Motor must be grounded in accordance with local and national electrical codes to prevent serious electrical shocks. Disconnect power source before servicing unit.	AVERTISSEMENT: Le moteur doit être mis à la terre conformément aux codre éléctriques locaux et nationaux afin d'éviter tout choc électrique grave. Déconnectes l'alimentation avant l'entreflen de la machine.