DATA SHEET

Three Phase Induction Motor - Squirrel Cage

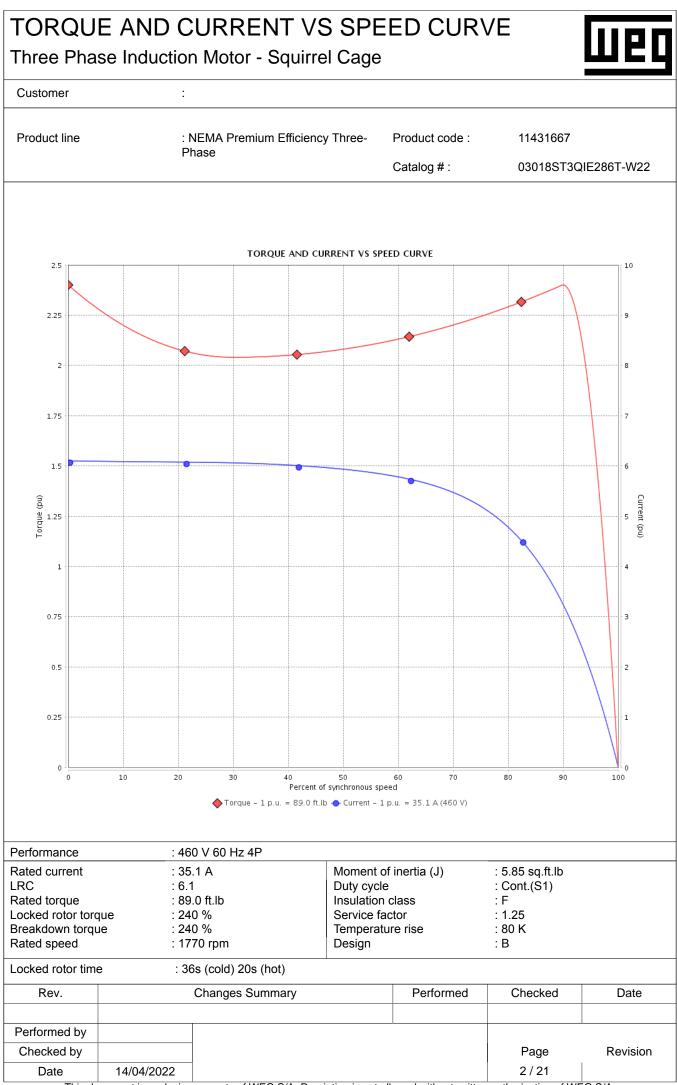
:



Customer

Product line		: NEMA Premium Efficiency Three- Phase			duct code :	11431	667
		FildSe		Cat	alog # :	03018	ST3QIE286T-W22
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 284/6T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 469 lb : 5.85 sq.ft.lb	
Output [HP]		30		30	30	<u>ו</u> ר	30
Poles		4		4	4		4
Frequency [Hz]		60		50	50		50
Rated voltage [V]		460		380	40		415
Rated current [A]		35.1		43.1	41		39.7
. R. Amperes [A]		214		228	24		238
RC [A]		6.1x(Code G)	5.3	Bx(Code F)	6.0x(Co	I	6.0x(Code G)
No load current [A	1	12.3		12.2	13	· · · · · ·	13.8
Rated speed [RPN		1770		1455	146		1465
Slip [%]	1	1.67		3.00	2.6		2.33
Rated torque [ft.lb]		89.0		108	10		108
ocked rotor torque [%]		240		170	10		220
Breakdown torque [%]		240			22		250
Service factor	.[,0]	1.25		200 1.00	1.0	I	1.00
Temperature rise		80 K		105 K	105		105 K
Locked rotor time		36s (cold) 20s (hot)					21s (cold) 12s (hot)
Noise level ²		63.0 dB(A)		cold) 13s (hot) 1.0 dB(A)	61.0 c		61.0 dB(A)
	25%		0				
	50%	93.0		90.0	90	5	91.2
Efficiency (%)	75%	93.0		90.2	91		91.7
	100%	93.6		90.2	91		91.7
	25%	30.0		30.Z	91		31.1
-	50%	0.70		0.76	0.7	·3	0.70
Power Factor	75%	0.80		0.70	0.7		0.80
	100%	0.80		0.85	0.0		0.80
Bearing type Sealing	1	Drive end Non dr : 6311 C3 62 : Inpro/Seal Inpr	Drive end 6311 C3Non drive end 6211 C3Foundation loads Max. tractionInpro/SealInpro/SealMax. compression			: 938 lb : 1407)
Lubrication interv Lubricant amoun Lubricant type			000 h 11 g EM				
Notes							
		icel the previous one, w	hich		•		sts with sinusoidal
must be eliminate (1) Looking the m (2) Measured at 1	ed. notor from the 1m and with to weight subject ocess.	•	hich		•		sts with sinusoidal s 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. olerance of +3dB(A).		power suppl MG-1.	•		stipulated in NEMA
must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	ed. notor from the 1m and with to weight subject ocess.	shaft end. olerance of +3dB(A). t to changes after		power suppl MG-1.	y, subject to the	e 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.	ed. notor from the 1m and with to weight subject ocess.	shaft end. olerance of +3dB(A). t to changes after		power suppl MG-1.	y, subject to the	e tolerances Checke	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.	ed. notor from the 1m and with to weight subject ocess.	changes Summary		power suppl MG-1.	y, subject to the	e tolerances	stipulated in NEMA

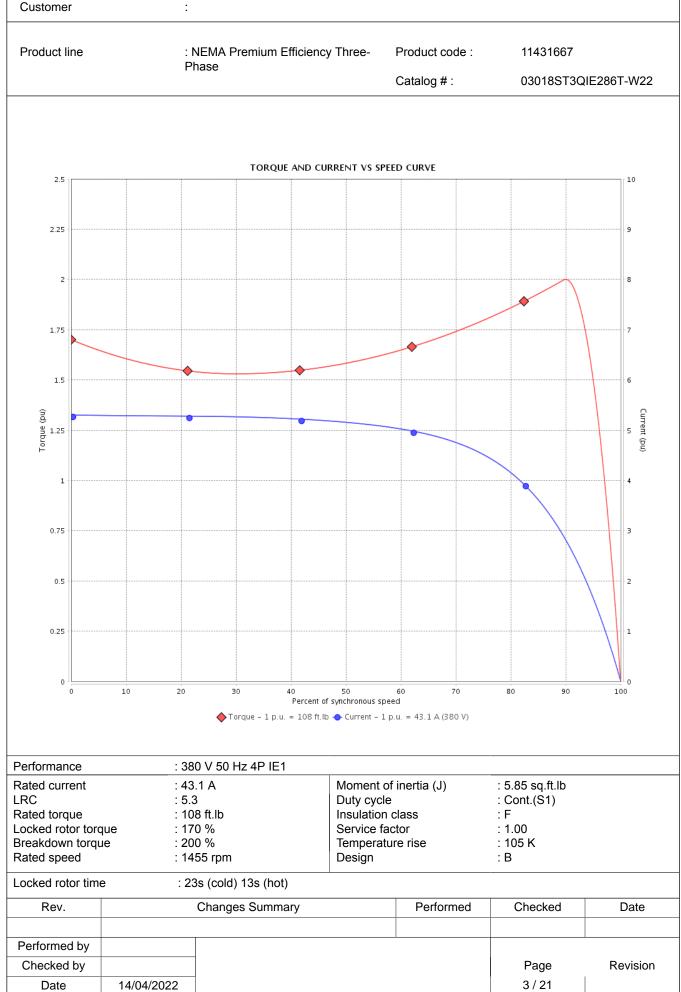
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



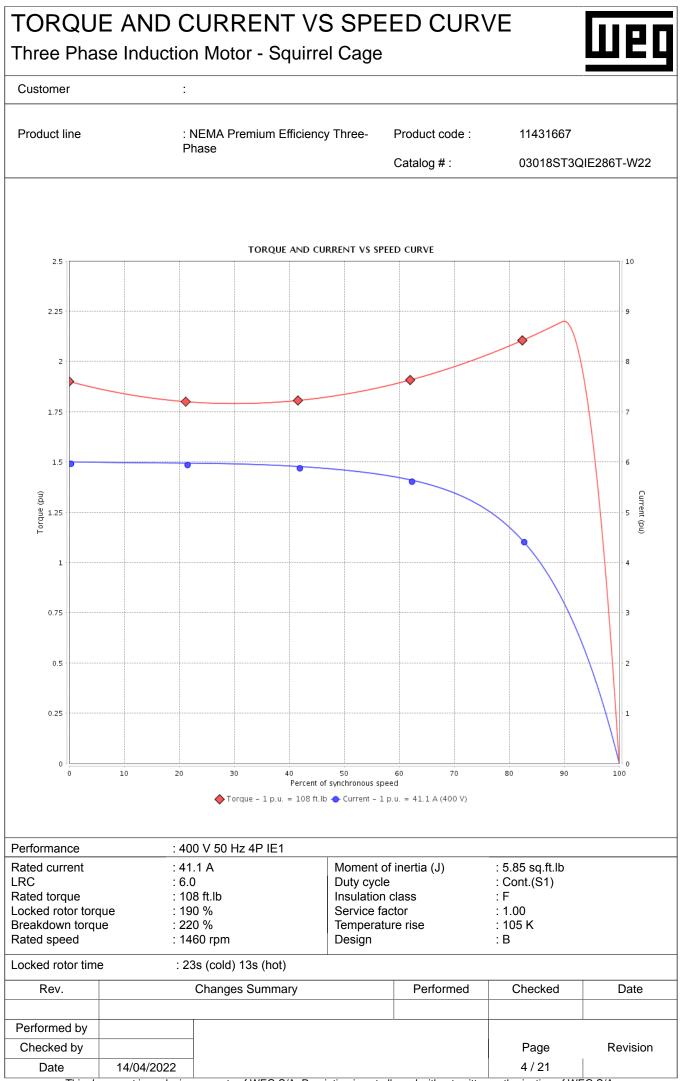
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage





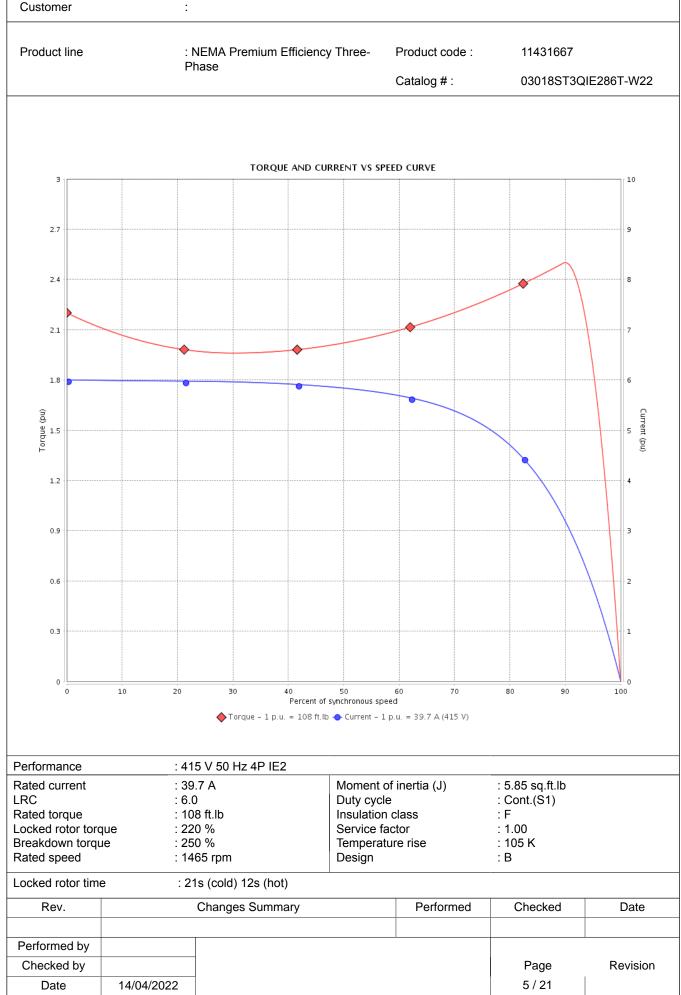
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

Customer



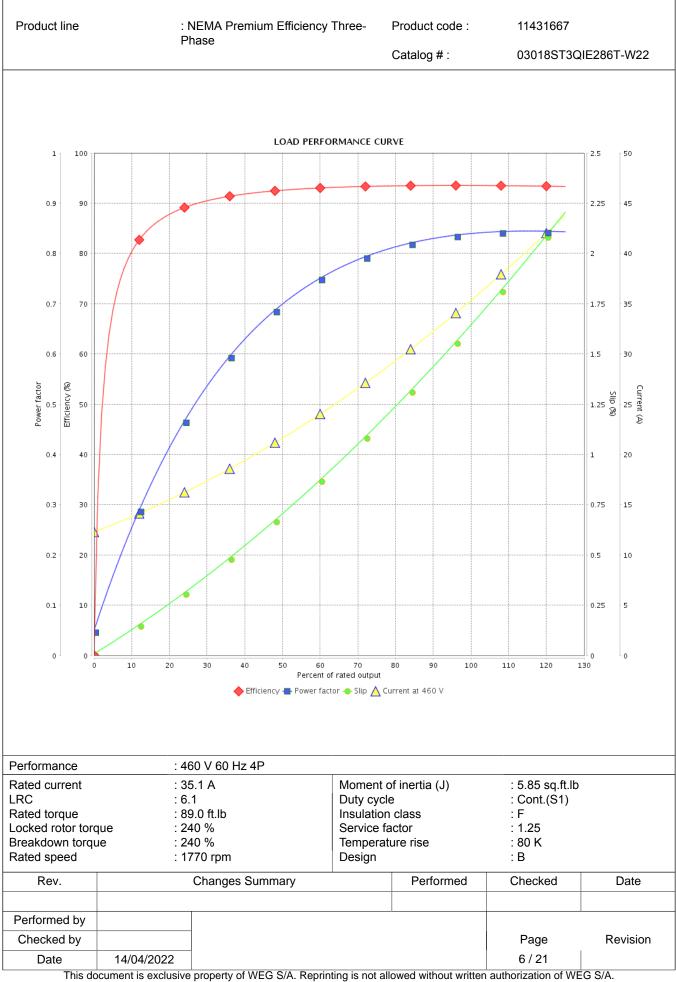
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:

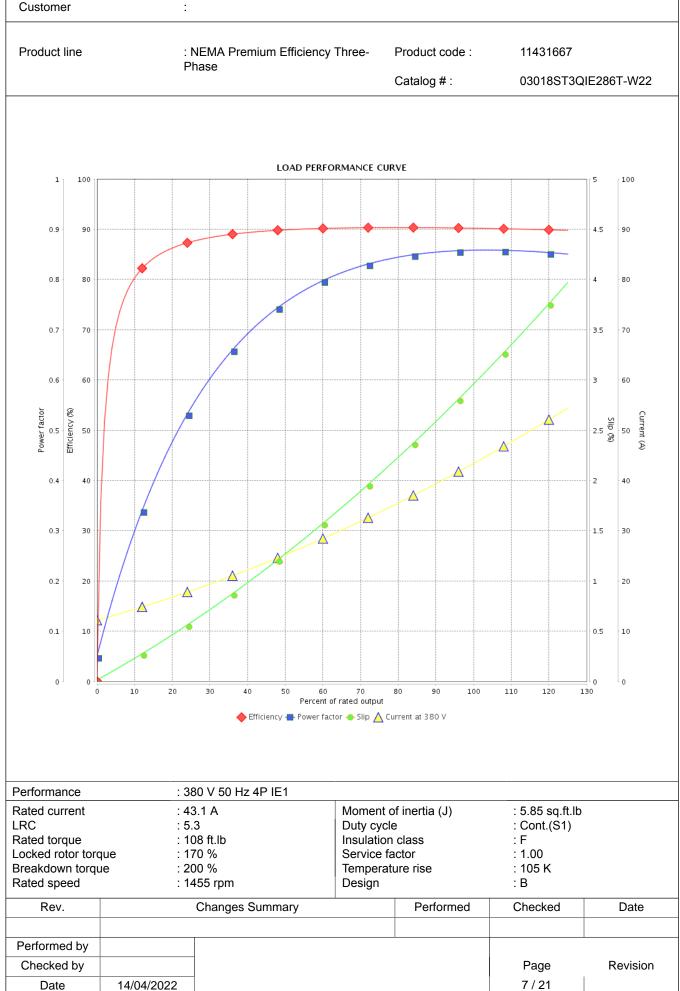


Customer



Three Phase Induction Motor - Squirrel Cage

Customer



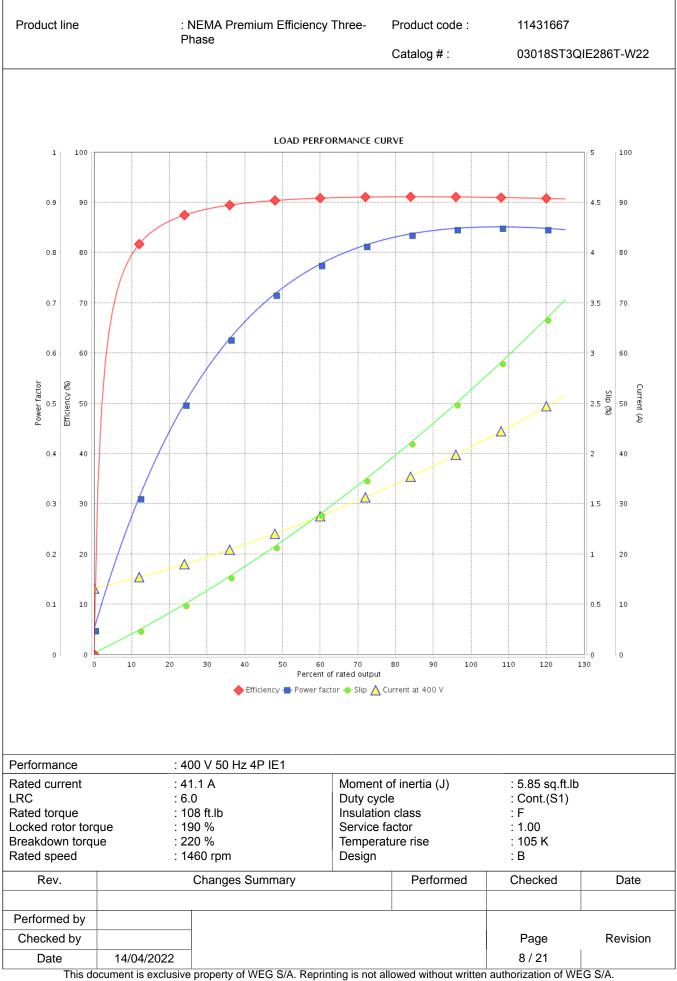
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:



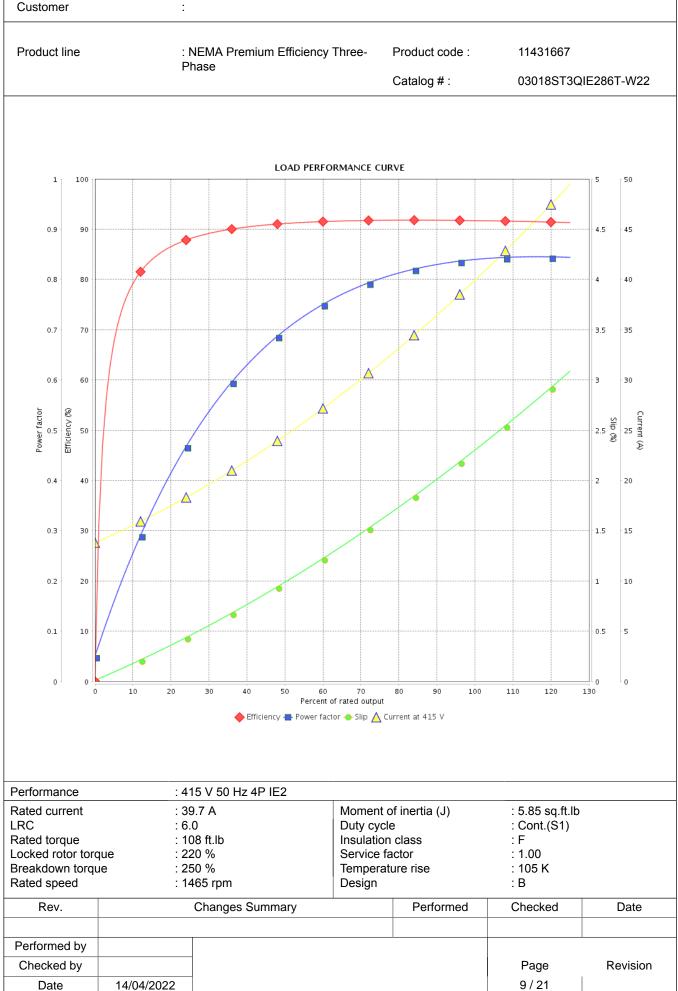
Customer



operty of WEG S/A. Reprinting is not allowed without written authorization or Subject to change without notice

Three Phase Induction Motor - Squirrel Cage

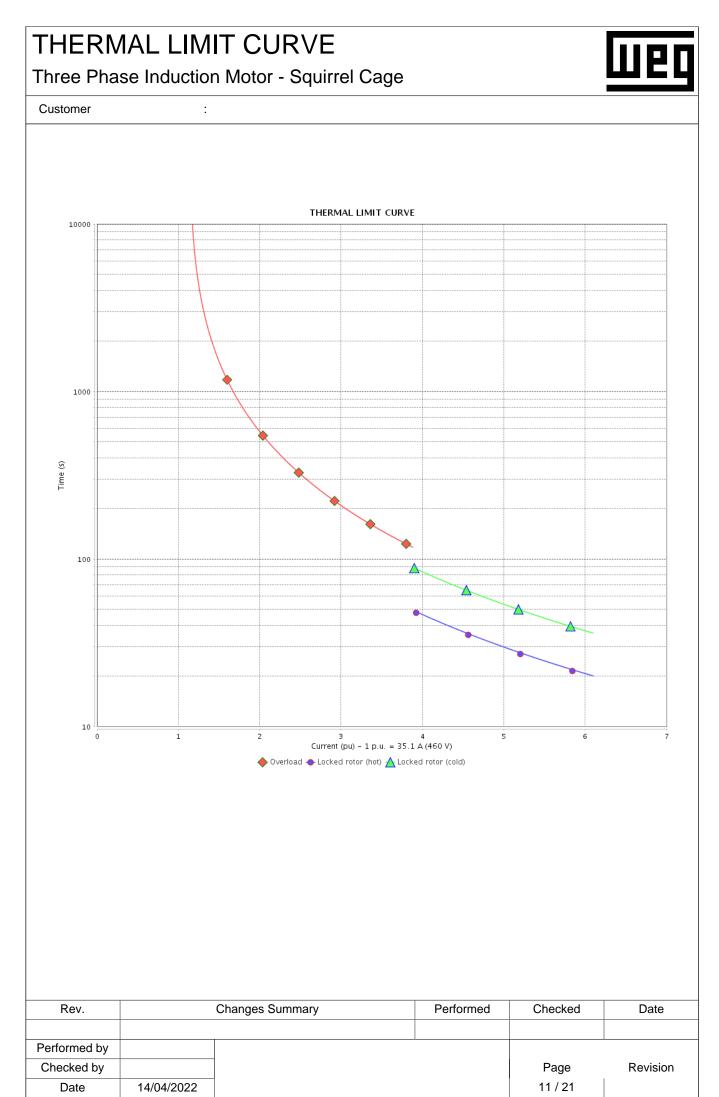
Customer



This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

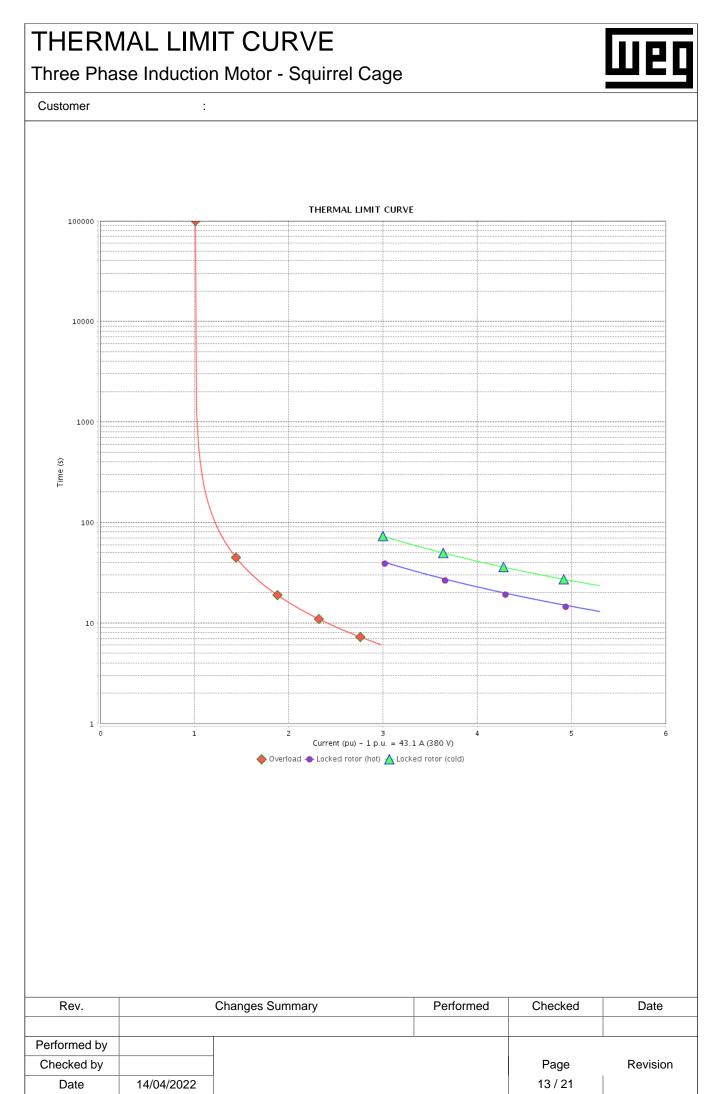
	LIMIT CURVE	e	ШЕ
Customer	:		
roduct line	: NEMA Premium Efficiency Three- Phase	Product code :	11431667
	Phase	Catalog # :	03018ST3QIE286T-W22

Performance	: 46	60 V 60 Hz 4P				
Rated current: 35.1 ALRC: 6.1Rated torque: 89.0 ft.lbLocked rotor torque: 240 %Breakdown torque: 240 %Rated speed: 1770 rpm		Moment of inertia (J): 5.85 sq.ft.lbDuty cycle: Cont.(S1)Insulation class: FService factor: 1.25Temperature rise: 80 KDesign: B				
	. 17	Design		. D		
Heating constant						
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				10 / 21	



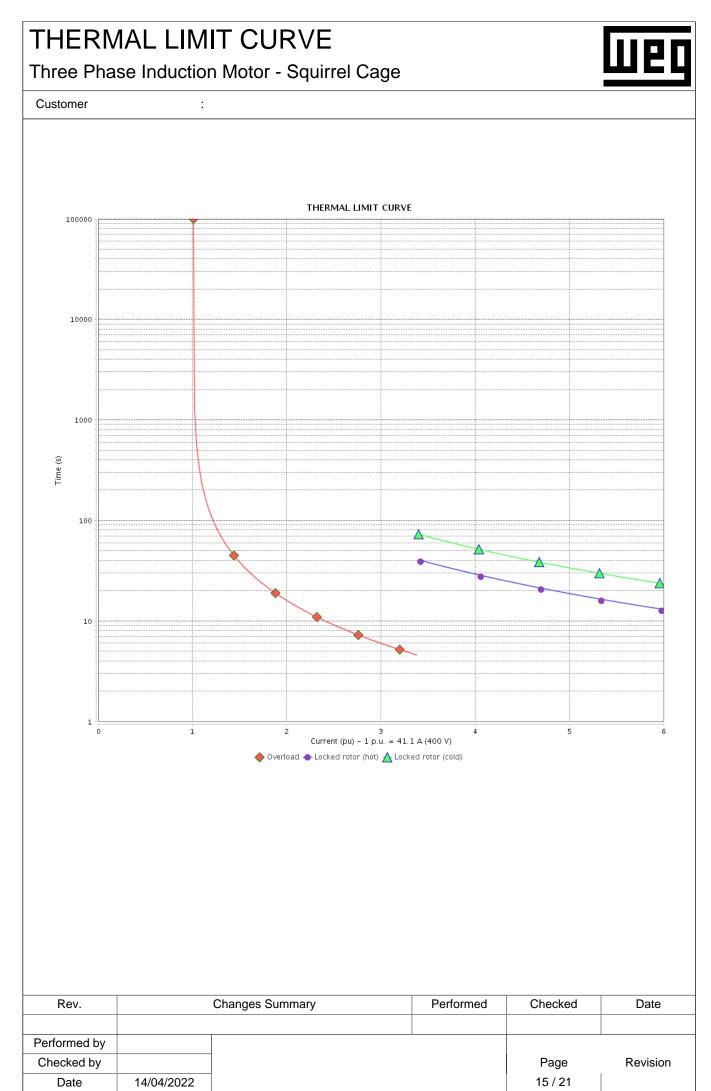
THERMAI	LIMIT CURVE		Шеі
Three Phase I	nduction Motor - Squirrel Cag	e	
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11431667 03018ST3QIE286T-W22
Performance Rated current	: 380 V 50 Hz 4P IE1 : 43.1 A Mome : 5.3 Duty	ent of inertia (J)	: 5.85 sq.ft.lb : Cont (S1)

Rated current: 43.1 ALRC: 5.3Rated torque: 108 ft.lbLocked rotor torque: 170 %Breakdown torque: 200 %Rated speed: 1455 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
Heating constant	t				·	
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				12/21	



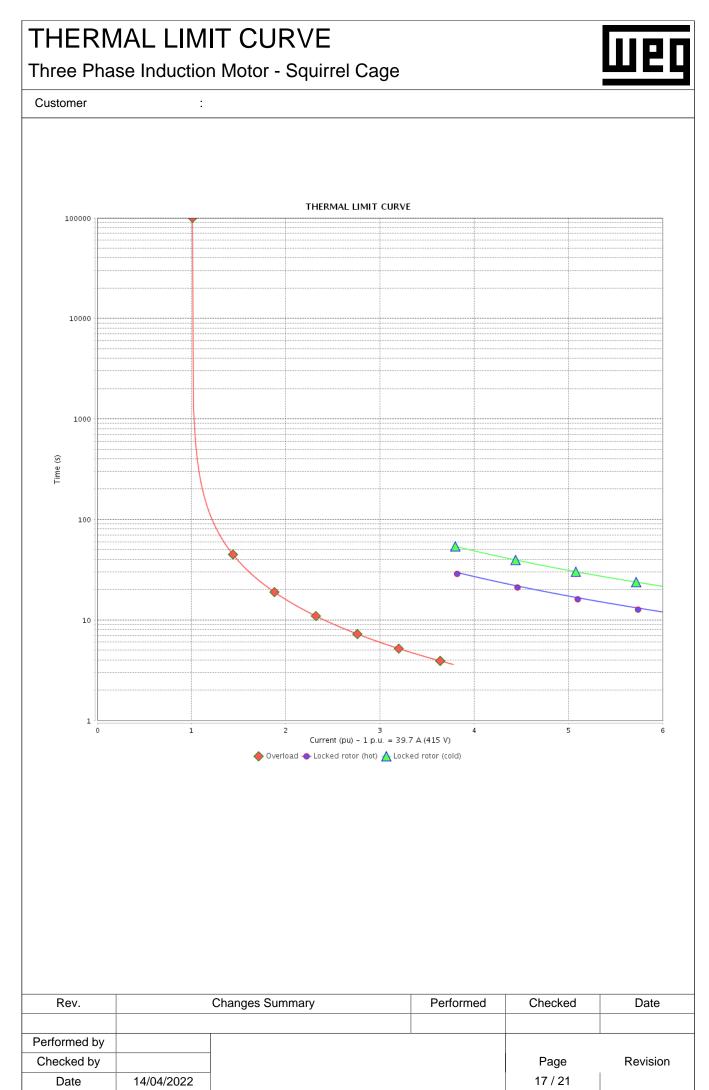
ustomer	:		
roduct line	: NEMA Premium Efficiency Three- Phase	Product code :	11431667
	Flidse	Catalog # :	03018ST3QIE286T-W2

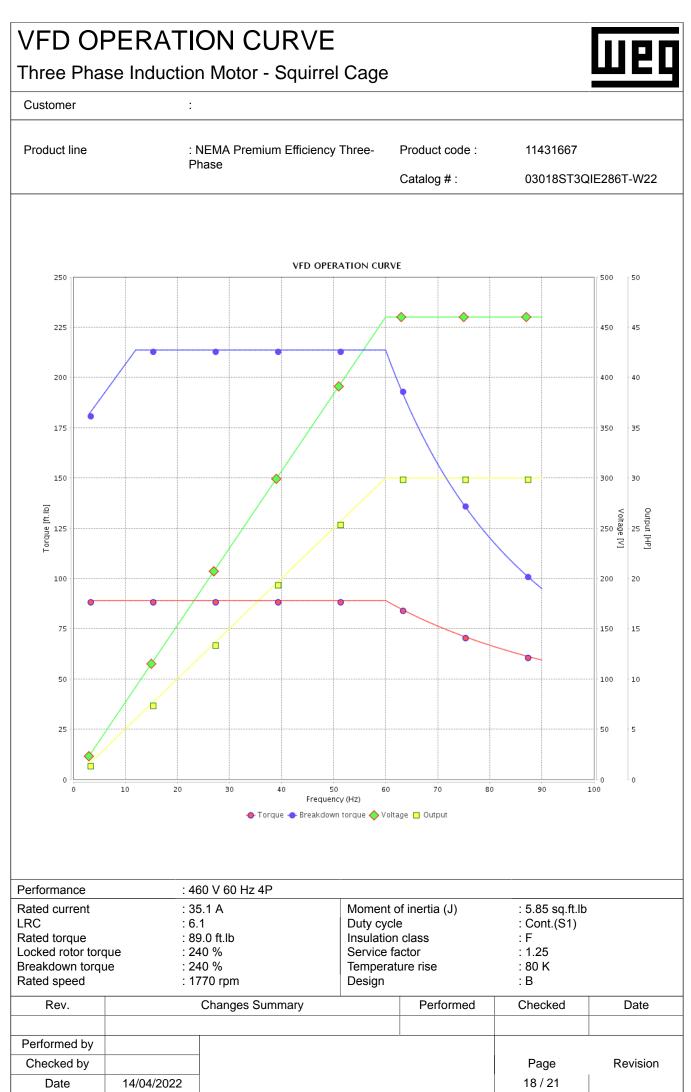
Dorformanaa						
Performance		400 V 50 Hz 4P IE1				
Rated current	:	41.1 A	1 A Moment of in		: 5.85 sq.ft.lb	
LRC	:	6.0	Duty cycl	е	: Cont.(S1)	
Rated torque	:	108 ft.lb	Insulation	i class	: F	
Locked rotor torg	ue :	190 %	% Service factor		: 1.00	
Breakdown torque	e :	220 %	Temperature rise		: 105 K	
Rated speed	:	1460 rpm	Design		: B	
Heating constant						
Cooling constant						
Rev.		Changes Summary	·	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				14/21	

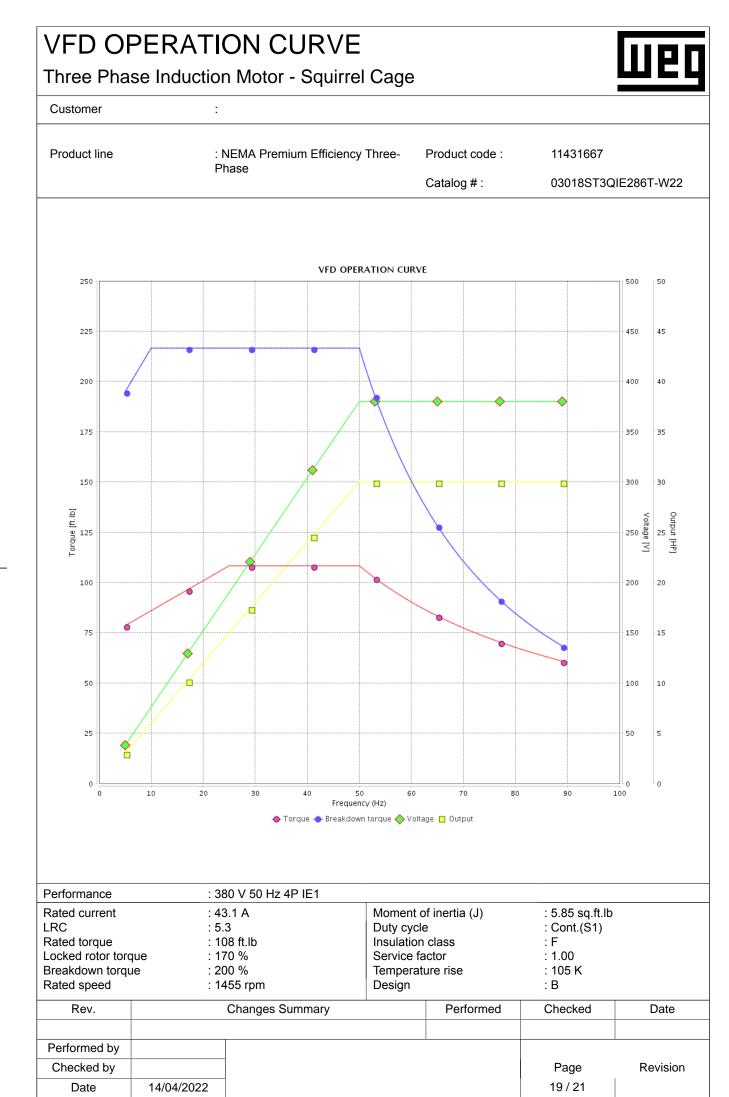


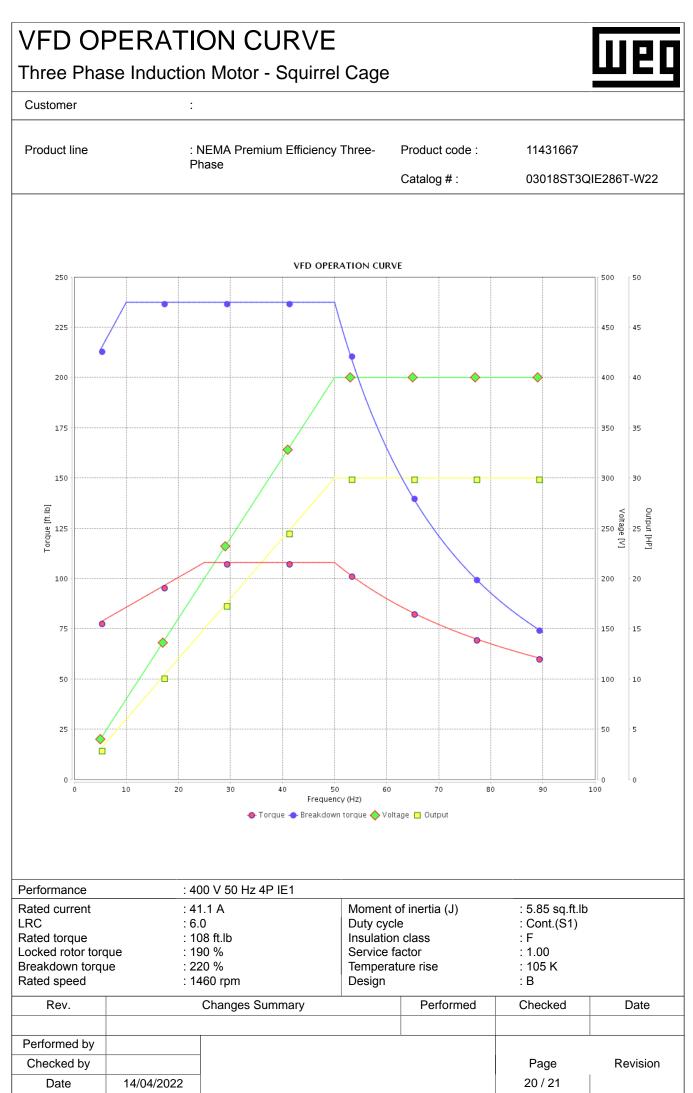
	LIMIT CURVE		Шер
Customer	duction Motor - Squirrel Cage	9	
Product line	: NEMA Premium Efficiency Three- Phase	Product code : Catalog # :	11431667 03018ST3QIE286T-W22
Performance	: 415 V 50 Hz 4P IE2	at of inartia (1)	· 5 95 og ft lb

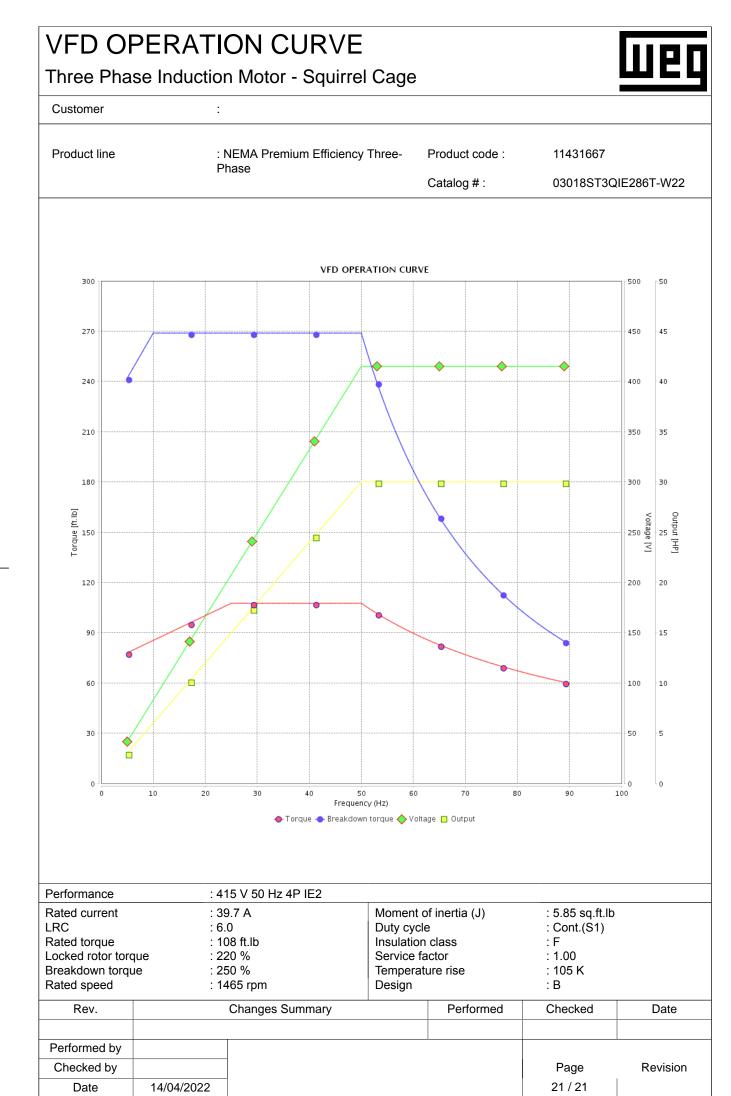
Performance	: 4	415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed	: 6 : 10 que : 23 ue : 29	: 39.7 AMoment of inertia (J): 6.0Duty cycle: 108 ft.lbInsulation class: 220 %Service factor: 250 %Temperature rise: 1465 rpmDesign		: 5.85 sq.ft.lb : Cont.(S1) : F : 1.00 : 105 K : B		
Heating constant						
Cooling constant	t					
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	14/04/2022	1			16 / 21	

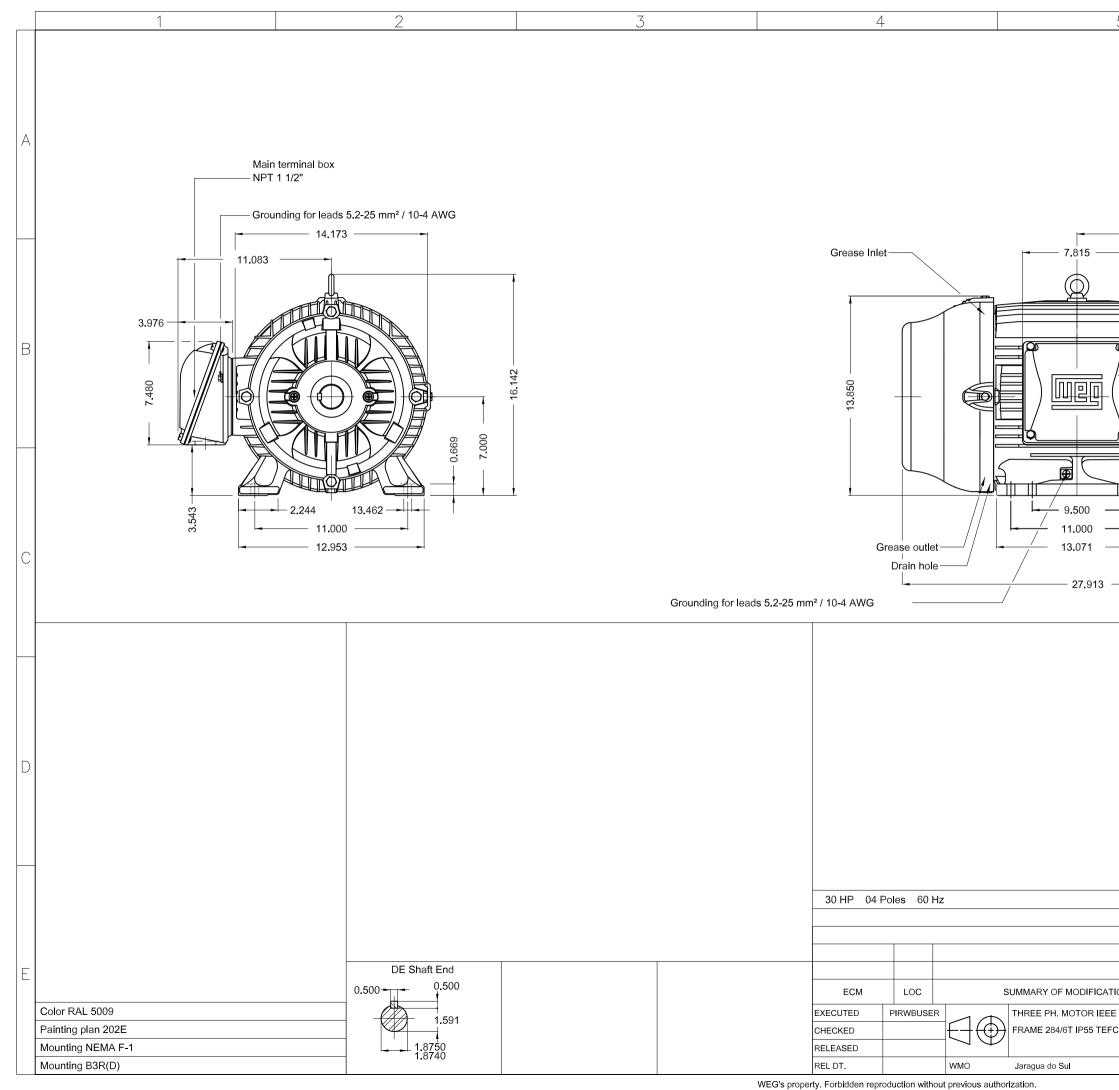












					,
5		(<u> </u>		
5	Grease Inlet	e outlet	<u>5</u>		
				A	Dimensions in inches
IONS EX	ECUTED CHE	CKED RELE	ASED DA	ATE VER	
E 841 W22 PREM. EFF.					
C		REVIEW			A3
	WD	D		120	
Product Engi	neering SHEET	1 /	1		XME

