# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



#### Customer

Product line		: NEMA Premium Effic	ciency T	hree- Pr	oduct code :	142759	06
		Phase		Ca	atalog # :	00218X	T3E145TC
Frame : 143/5TC Cooling method   Insulation class : F Mounting   Duty cycle : Cont.(S1) Rotation <sup>1</sup> Ambient temperature : -20°C to +40°C Starting method   Altitude : 1000 m.a.s.l. Approx. weight <sup>3</sup>			CW and CCW) On Line				
Output [HP]		2	1	2		2	2
Poles		4		4		<u>-</u> 1	4
Frequency [Hz]		60		50	5	-	50
Rated voltage [V]		230/460		380	40		415
Rated current [A]		5.58/2.79		3.29	3.		3.18
. R. Amperes [A]		49.7/24.8		25.0	24		24.8
		49.7/24.8 8.9x(Code L)	7 /	25.0 6x(Code K)			7.8x(Code K)
RC [A]	1	3.20/1.60	1.6		7.8x(C		
No load current [A				1.60	1.8		2.00
Rated speed [RPN	/I]	1750		1425		35	1445
Slip [%]		2.78		5.00	4.3		3.67
Rated torque [ft.lb]		6.00		7.37	7.3		7.27
ocked rotor torqu		270		190	22		240
Breakdown torque	[%]	320		220	25		270
Service factor		1.15	1.00		1.0		1.00
Temperature rise		80 K	80 K			K	80 K
ocked rotor time		19s (cold) 11s (hot)	21s (cold) 12s (ho				21s (cold) 12s (hot)
Noise level <sup>2</sup>		51.0 dB(A)	49.0 dB(A)		49.0 0		49.0 dB(A)
	25%	82.9	85.0		82	2.1	82.1
Efficiency (%)	50%	84.0		84.0	82	2.5	82.5
	75%	85.5		84.0	84	l.0	84.0
	100%	86.5	1	82.5	84		84.0
	25%	0.32		0.38	0.3		0.31
	50%	0.56		0.64	0.		0.55
Power Factor	75%	0.70		0.77	0.		0.69
	100%	0.78		0.84	0.8		0.78
Bearing type Sealing	<u> </u>	Drive end Non dr	r <u>ive end</u> 04 2RS o Seal		n loads on	: 133 lb : 208 lb	
Lubrication interv	val	: -	-			. 200 10	
Lubricant amoun		-	-				
Lubricant type		: Mobil Polyrex E	ΞM				
Notes USABLE @208V	6.02A SF 1.	15 SFA 6.92A		1			
must be eliminate (1) Looking the m (2) Measured at 1	d. otor from the m and with t veight subjec ocess.	ncel the previous one, when the previous one, when the shaft end. olerance of +3dB(A). It to changes after	hich				ts with sinusoidal stipulated in NEMA
Rev.		Changes Summary	,		Performed	Checked	Date
Performed by							
Checked by						Page	Revision
Date	14/04/202	2				1/22	

## DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

ID	Application	Thermal protection Type	Quantity	Sonaina	Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	15	55 °C
_	Chang	ges Summary	Performed	Checked	Date
Rev.					
Rev.					

## TORQUE AND CURRENT VS SPEED CURVE

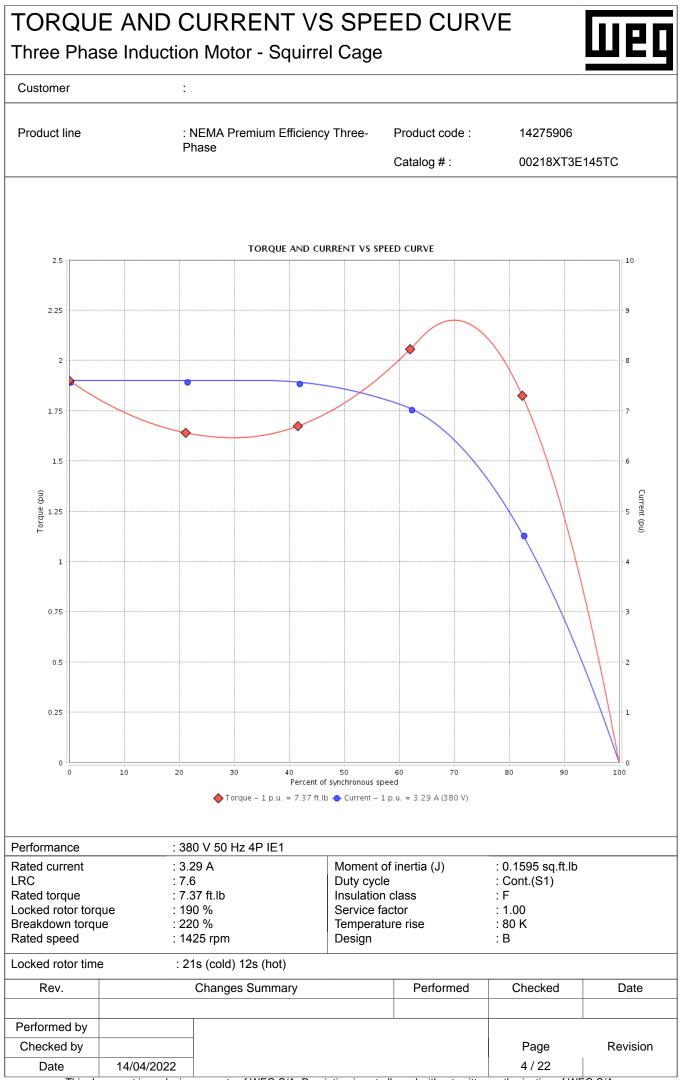
Three Phase Induction Motor - Squirrel Cage

:



### Customer

Product line	: NEMA Premium Efficien	cy Three- Product	code : 14275906	
	Phase	Catalog	#: 00218XT3E	145TC
	TORQUE AND (	CURRENT VS SPEED CURVE		
5				10
4.5	• •			9
4				8
3.5				7
3				6
3				Ę
(nd) 2.5 L				Current (pu)
Ĕ				Ĕ
2				4
1.5				3
			N	
1				2
0.5				
o				
0 10		50 60 of synchronous speed	70 80 90	100
	◆ Torque - 1 p.u. = 6.00 f	it.lb 🔶 Current – 1 p.u. = 2.79 A	(460 V)	
erformance	: 230/460 V 60 Hz 4P			
ated current	: 5.58/2.79 A	Moment of inertia (		
RC Rated torque	: 8.9 : 6.00 ft.lb	Duty cycle Insulation class	: Cont.(S1) : F	
ocked rotor torque Breakdown torque	: 270 % : 320 %	Service factor Temperature rise	: 1.15 : 80 K	
Rated speed	: 1750 rpm	Design	: B	
ocked rotor time	: 19s (cold) 11s (hot)			1
Rev.	Changes Summary	Perfo	ormed Checked	Date
Performed by				
Checked by			Page	Revision
Date 14	4/04/2022		3/22	



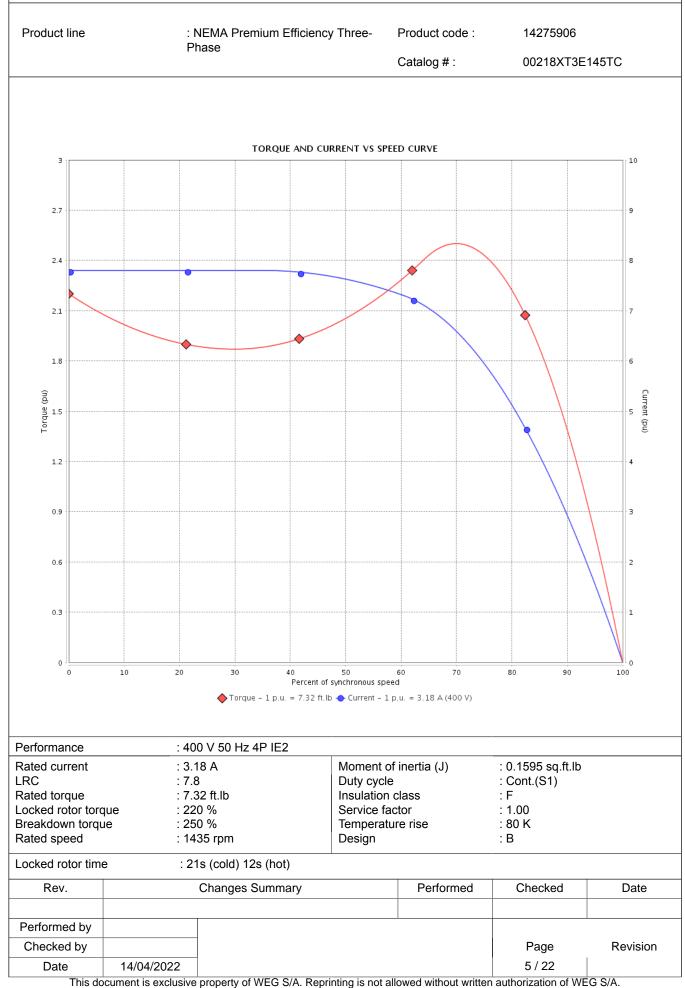
### TORQUE AND CURRENT VS SPEED CURVE

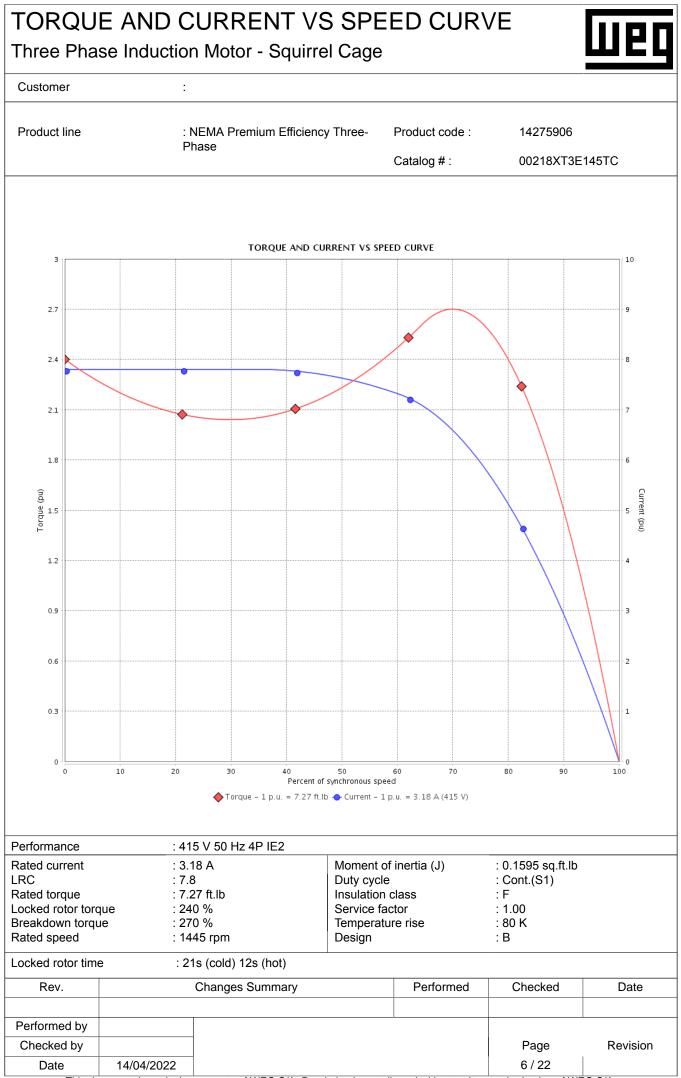
Three Phase Induction Motor - Squirrel Cage

:



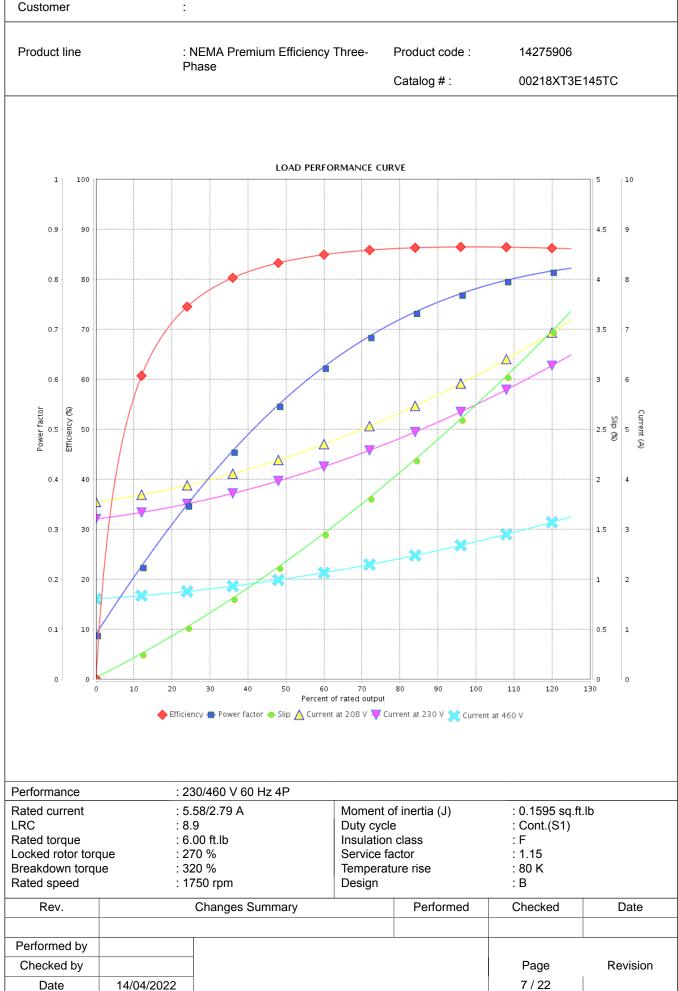
Customer





Three Phase Induction Motor - Squirrel Cage

### Customer



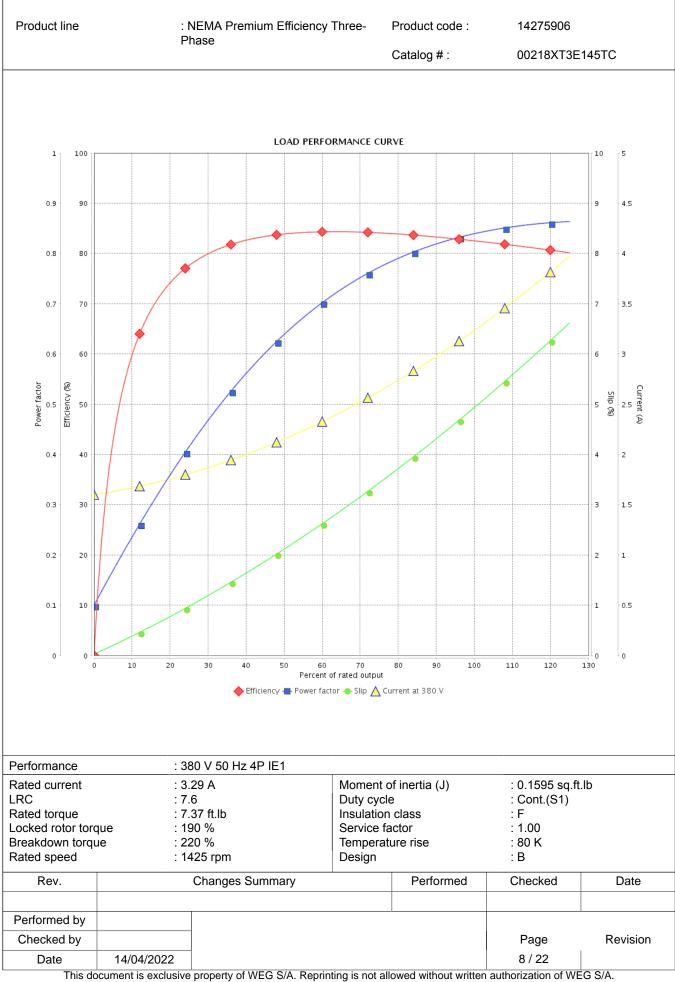
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:

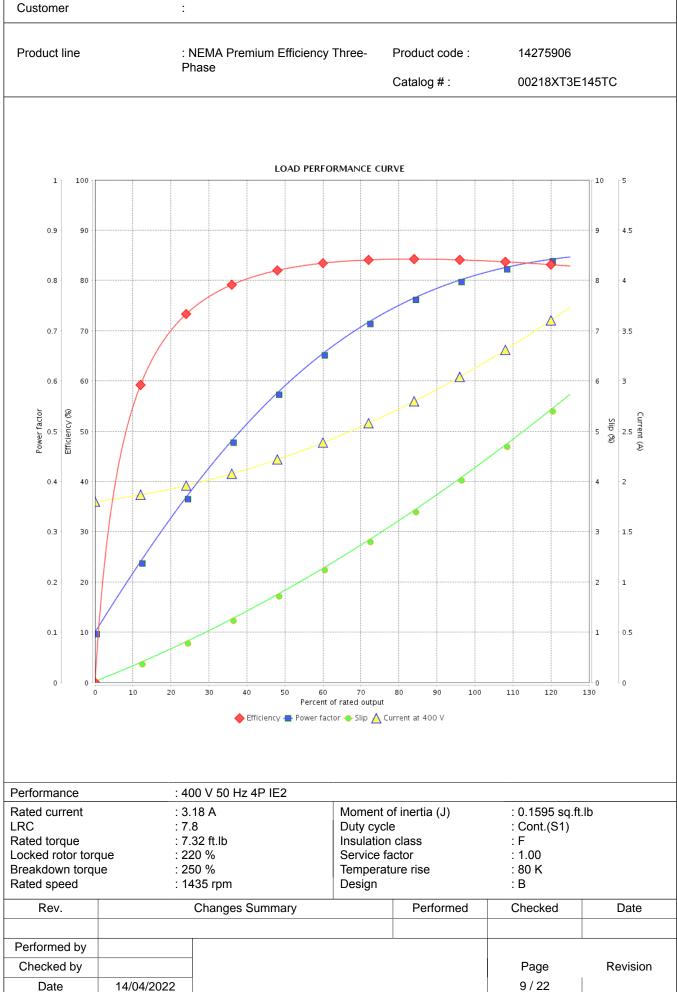


Customer



Three Phase Induction Motor - Squirrel Cage

### Customer



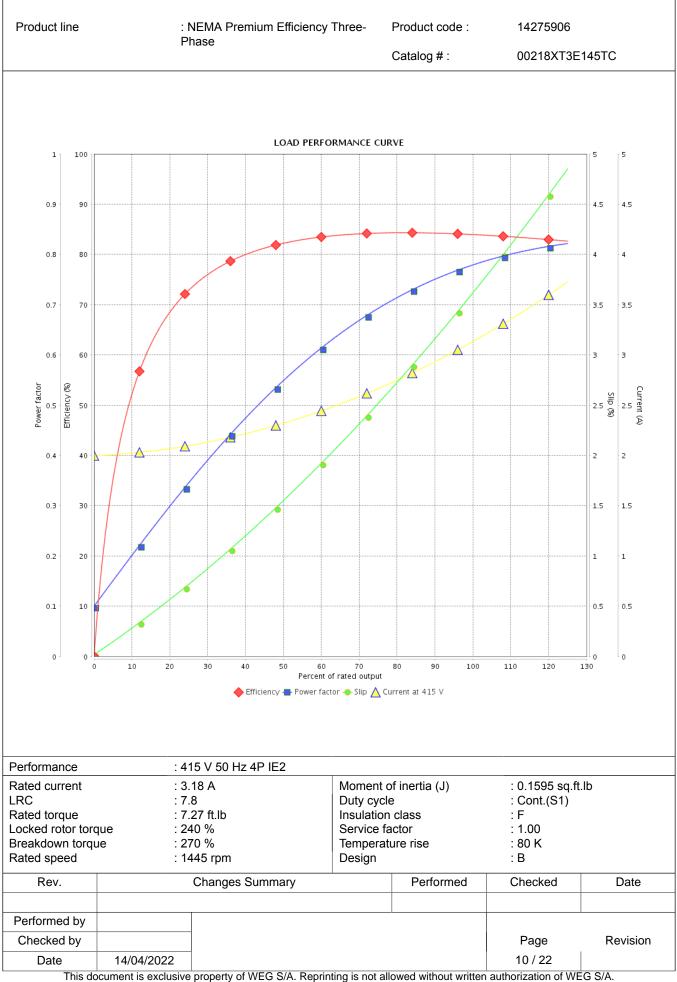
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:



Customer



# THERMAL LIMIT CURVE

:

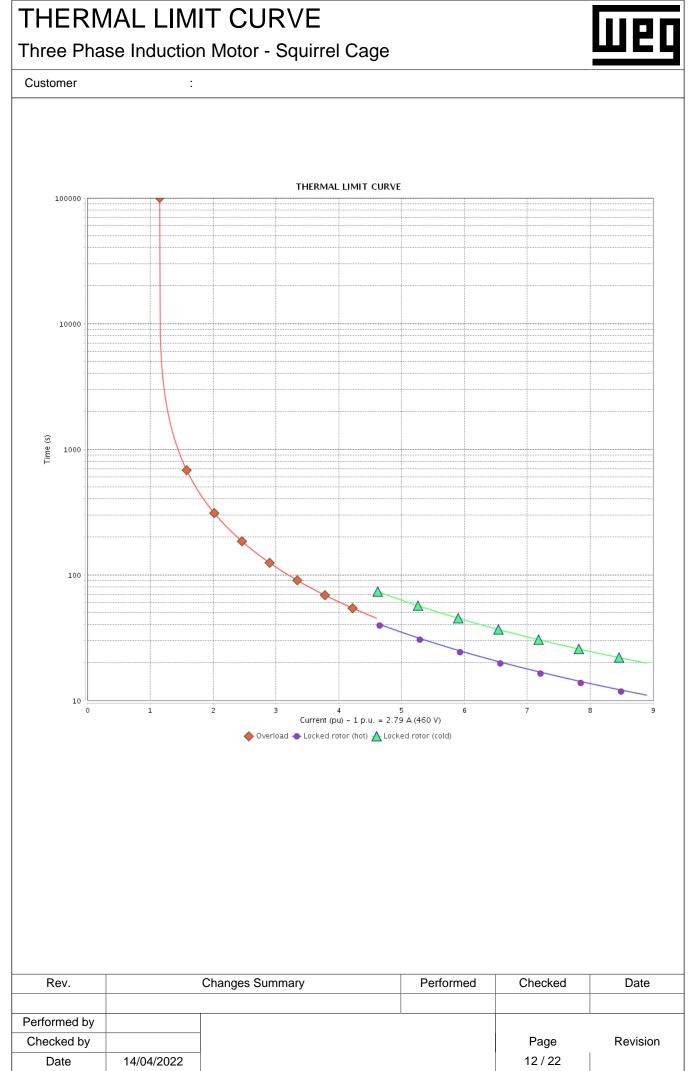
Three Phase Induction Motor - Squirrel Cage

### Customer

Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14275906
		Catalog # :	00218XT3E145TC

Шед

Performance	: 2	230/460 V 60 Hz 4P				
Rated current: 5.58/2.79 ALRC: 8.9Rated torque: 6.00 ft.lbLocked rotor torque: 270 %Breakdown torque: 320 %Rated speed: 1750 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1595 sq.ft : Cont.(S1) : F : 1.15 : 80 K : B	lb	
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
1.69.		Changes Cummary		renomed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				11 / 22	
This do	cument is exclusiv	e property of WEG S/A. Reprin	ting is not allo	wed without written	authorization of WE	G S/A.



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

# THERMAL LIMIT CURVE

:

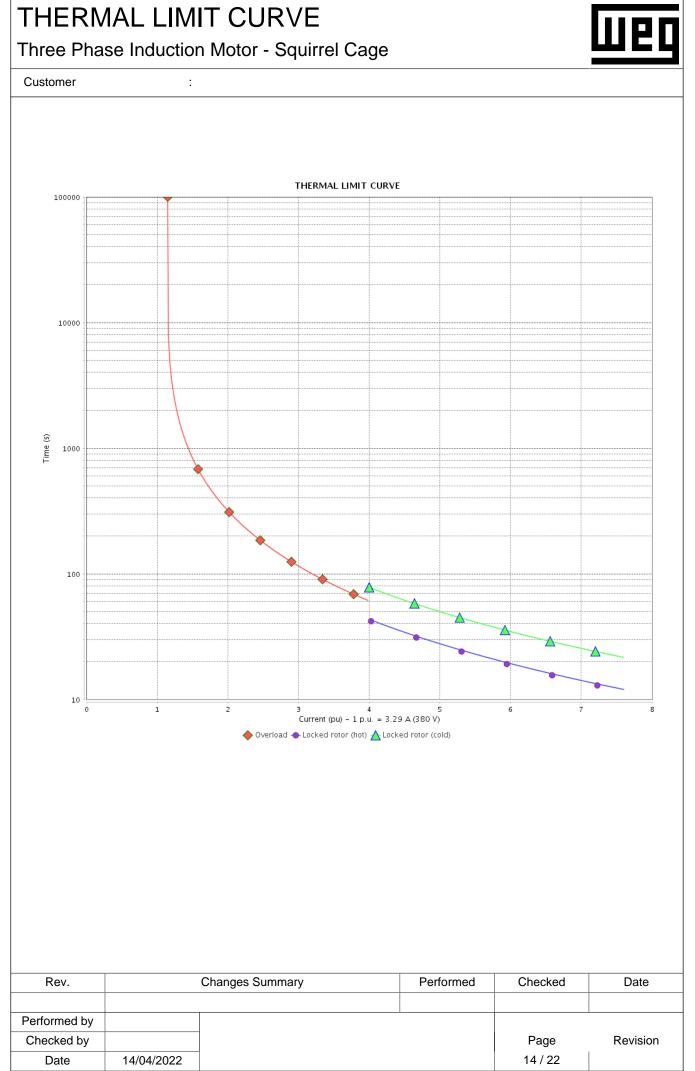
Three Phase Induction Motor - Squirrel Cage

### Customer

Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14275906
		Catalog # :	00218XT3E145TC

Шед

Performance	: 3	: 380 V 50 Hz 4P IE1				
LRC: 7Rated torque: 7Locked rotor torque: 1Breakdown torque: 2		.29 A .6 .37 ft.lb 90 % 20 % 425 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1595 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				13 / 22	



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

# THERMAL LIMIT CURVE

:

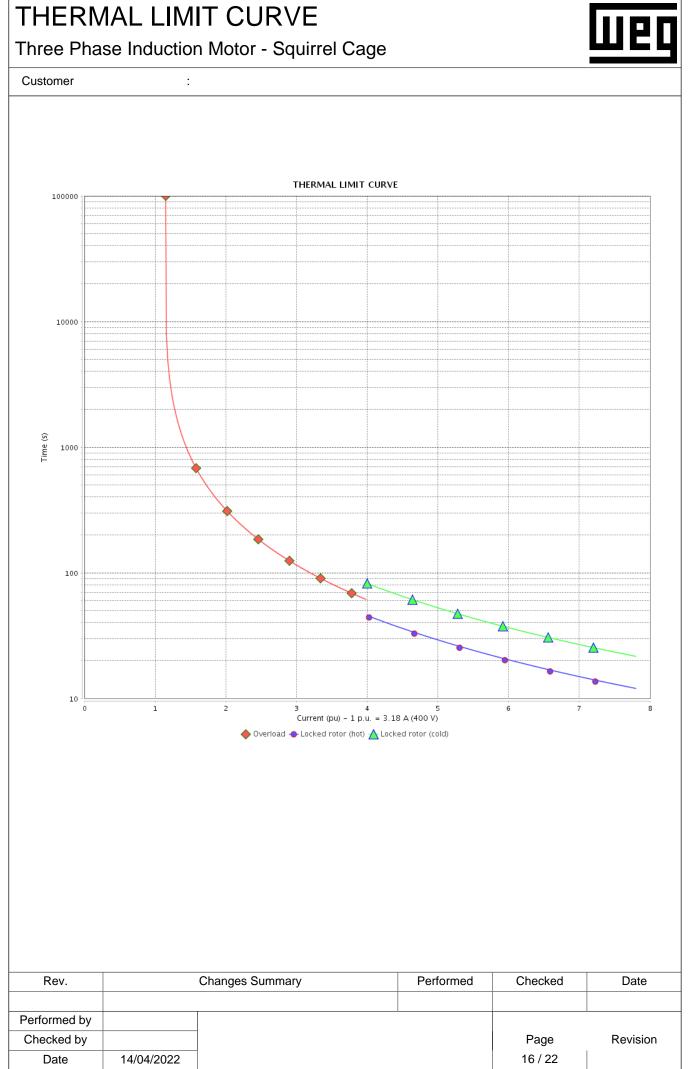
Three Phase Induction Motor - Squirrel Cage

### Customer

Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14275906
		Catalog # :	00218XT3E145TC

Шеq

Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	lue le	: 3.18 A : 7.8 : 7.32 ft.lb : 220 % : 250 % : 1435 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1595 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant						
Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				15 / 22	
		sive property of WEG S/A. F	Reprinting is not al			G S/A.



# THERMAL LIMIT CURVE

:

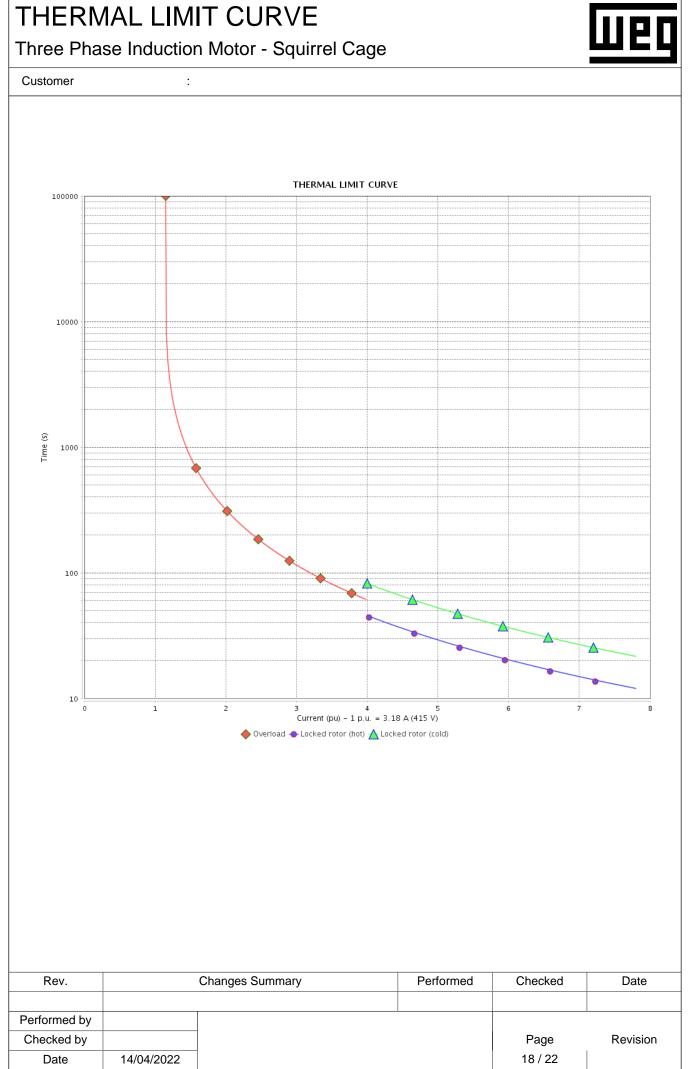
Three Phase Induction Motor - Squirrel Cage

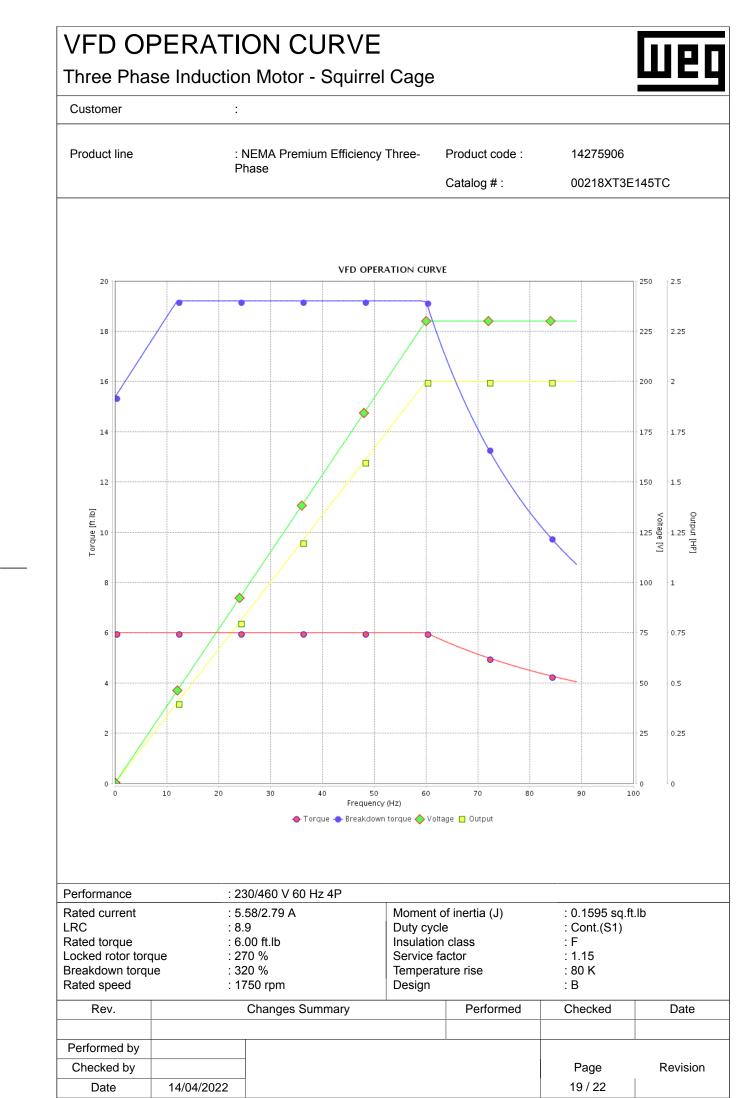
### Customer

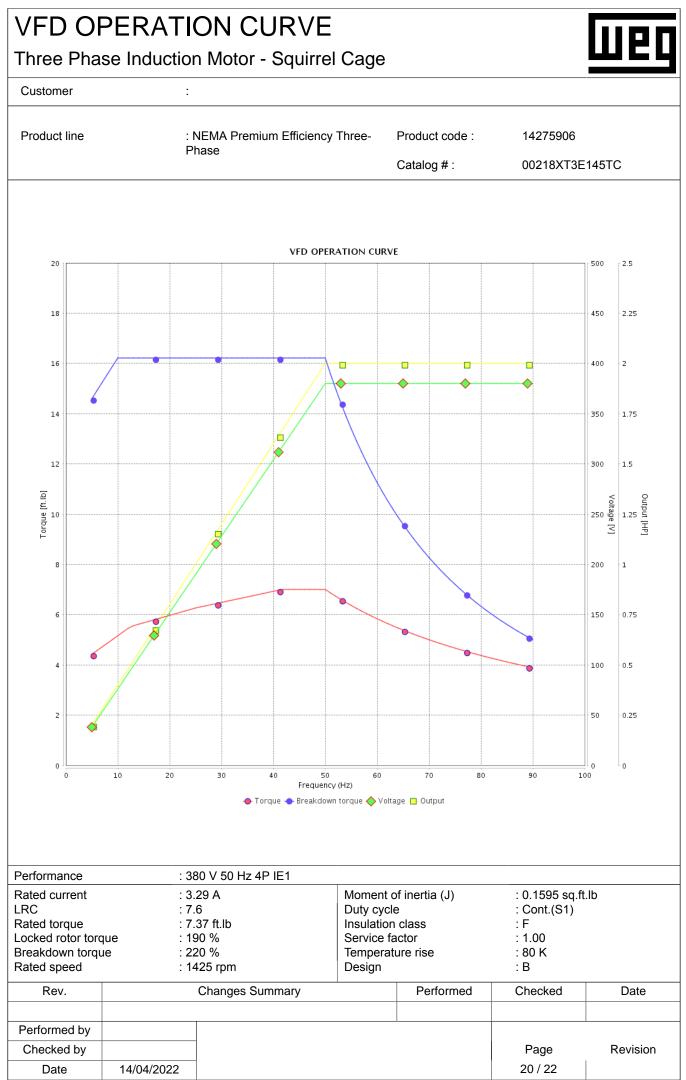
Product line	: NEMA Premium Efficiency Three- Phase	Product code :	14275906
		Catalog # :	00218XT3E145TC

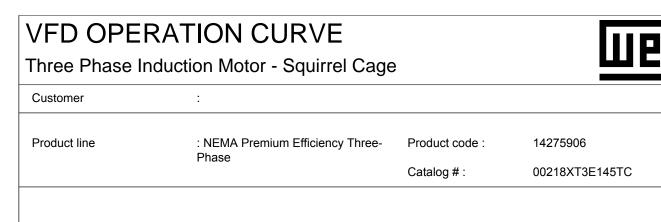
Шед

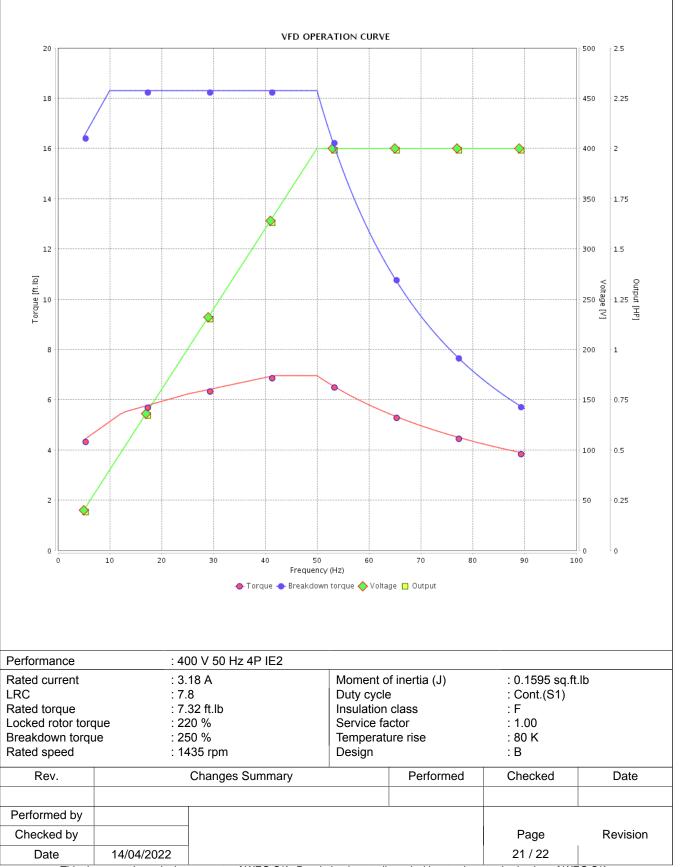
Performance		: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue e	: 3.18 A : 7.8 : 7.27 ft.lb : 240 % : 270 % : 1445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1595 sq.ft. : Cont.(S1) : F : 1.00 : 80 K : B	lb
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/04/2022				17 / 22	
This do	cument is exclus	sive property of WEG S/A. Repr	inting is not all	owed without written	authorization of WE	G S/A.

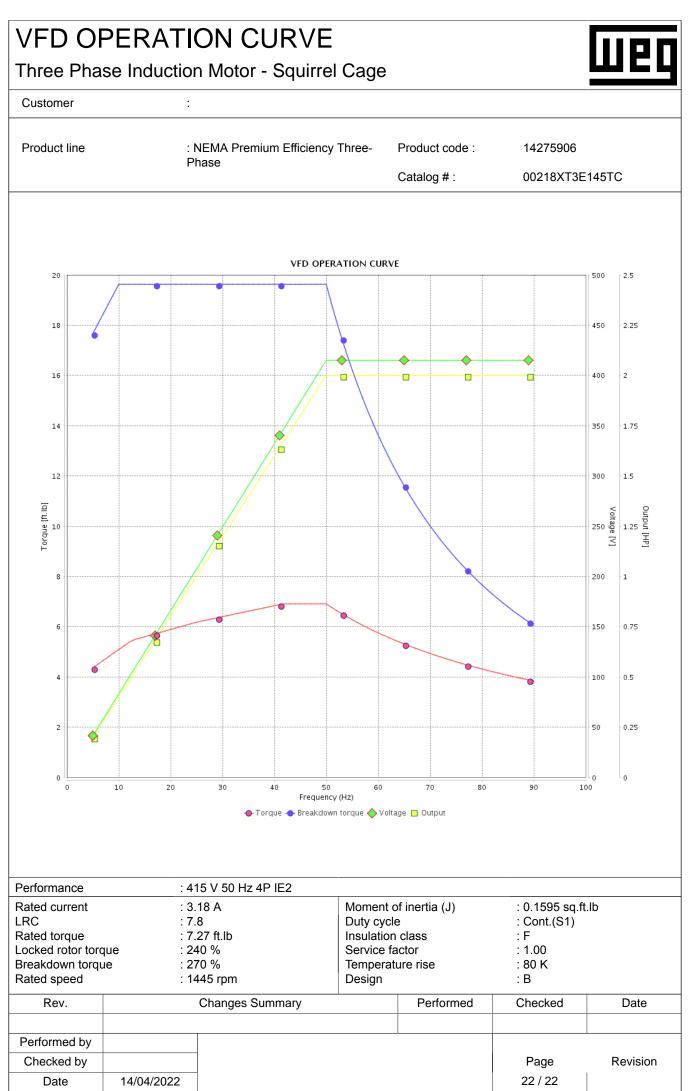


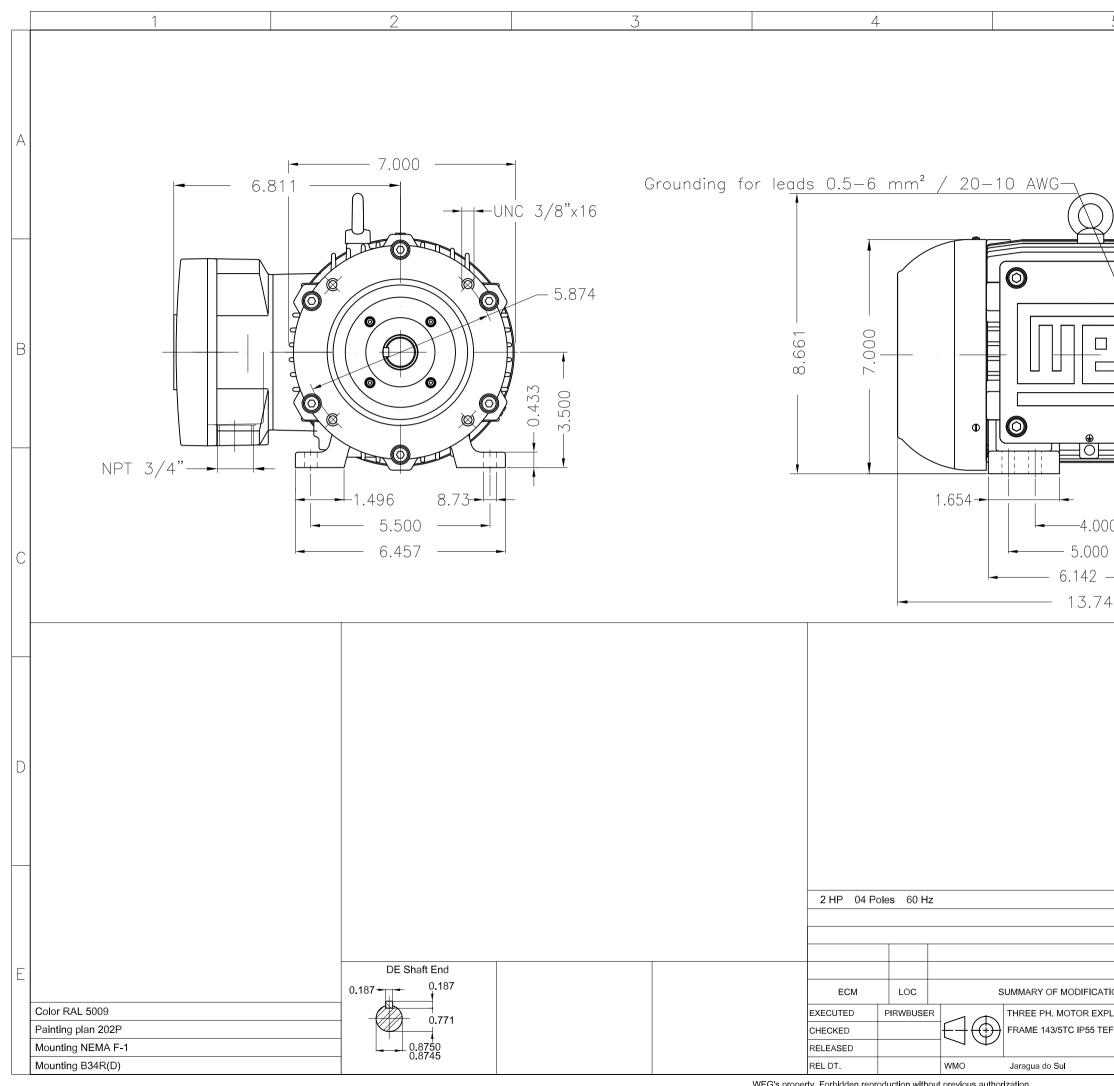












WEG's property. Forbidden reproduction without previous authorization.

5			6		
			1 - 1 <sup>°</sup>		
)	Sin	<u>ger (</u> Ro	otating	Seal)	
		1	<b>_</b>		
		-1.575		- 0(	
				6.500	
				Ø	
			Y	Ļ	
		←0.157			
0.571 <del>-   -</del> 0	2.250-	—2.125 - — 2.250 -			
10					
					inches
					Dimensions in inches
					Ĩ
					A
IONS	EXECUTED	CHECKED	RELEASED	DATE	VER
LOSION PROOF PRE FC	EM. EFF.	PREVI	EW	ШР	A3
Product	t Engineering	SHEET	1 / 1		XME

