# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



#### Customer

Product line		: NEMA Premium Effic	ciency T	hree- Pr	oduct code :	143192	266	
		Phase		Ca	atalog # :	00158X	(T3E145T	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 143/5T : F : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : B		Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup> Moment of inertia (J)		: IC411 - TEFC : F-1 : Both (CW and CCW) : Direct On Line : 73.4 lb : 0.1303 sq.ft.lb		
Output [HP]		1.5		1.5	1.	5	1.5	
Poles		4		4	4		4	
Frequency [Hz]		60		50	5		50	
Rated voltage [V]		230/460		380	40		415	
Rated current [A]		4.10/2.05		2.40	2.3		2.27	
. R. Amperes [A]		36.5/18.2		15.8	16		17.5	
_RC [A]		8.9x(Code L)	64	6x(Code H)	7.2x(C		7.7x(Code K)	
	1	2.40/1.20	0.0	. ,	7.2X(C 1.3			
No load current [A				1.20			1.40	
Rated speed [RPN	/I]	1755		1440	14		1450	
Slip [%]	1	2.50		4.00	3.0		3.33	
Rated torque [ft.lb]		4.49		5.47	5.4		5.43	
_ocked rotor torqu		270		200	22		250	
Breakdown torque	[%]	350		260	29		320	
Service factor		1.15	1.00		1.(		1.00	
Temperature rise		80 K	80 K		80		80 K	
Locked rotor time		25s (cold) 14s (hot)	27s (cold) 15s (hot		t) 27s (cold)	15s (hot)	27s (cold) 15s (hot)	
Noise level <sup>2</sup>		51.0 dB(A)	49.0 dB(A)		49.0 0		49.0 dB(A)	
	25%	80.2		83.7	83		80.9	
Efficiency (%)	50%	81.5		84.0	84	.0	82.5	
	75%	85.5	84.0		84		84.0	
	100%	86.5		84.0	84		85.5	
	25%	0.34		0.39	0.3		0.33	
	50%	0.58		0.66	0.0		0.58	
Power Factor	75%	0.38		0.00	0.0		0.58	
	100%	0.70		0.77	0.1		0.71	
Bearing type	100 /0	<u>Drive end</u> <u>Non dr</u> : 6205 2RS 620	<u>ive end</u> 4 2RS	Foundation Max. traction	n loads on	: 114 lb	0.19	
Sealing		: Oil Seal Lip	Seal	Max. comp	ression	: 188 lb		
Lubrication interv		: -	-					
Lubricant amoun	t		-					
Lubricant type		: Mobil Polyrex E	EM					
Notes USABLE @208V	4.53A SF 1.	15 SFA 5.21A						
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 shaft end. tolerance of +3dB(A). tot to changes after	hich				ts with sinusoidal stipulated in NEMA	
Rev.		Changes Summary	,		Performed	Checked	I Date	
Performed by								
Checked by						Page	Revision	
	10/04/000	2				-		
Date	12/04/202	2				1 / 22		

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

### DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:



Customer

Thermal protection							
ID	Application	Туре	Quantity		emperature		
1	Winding	Thermostat - 2 wires	1 x Phase	15	5 °C		
Rev.	Chan	ges Summary	Performed	Checked	Date		
rformed by							

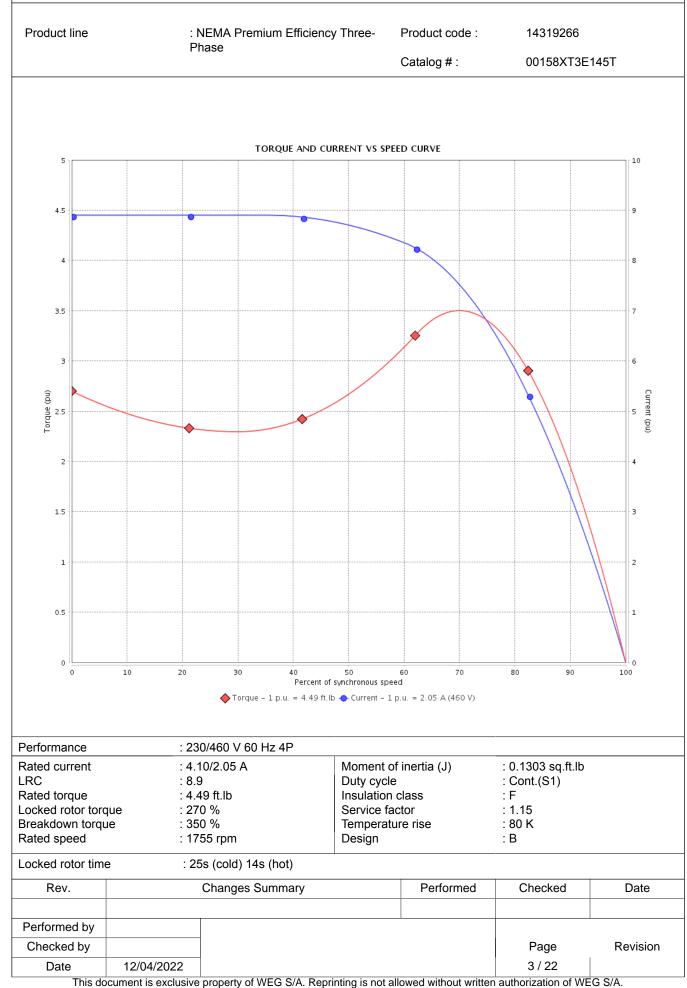
### TORQUE AND CURRENT VS SPEED CURVE

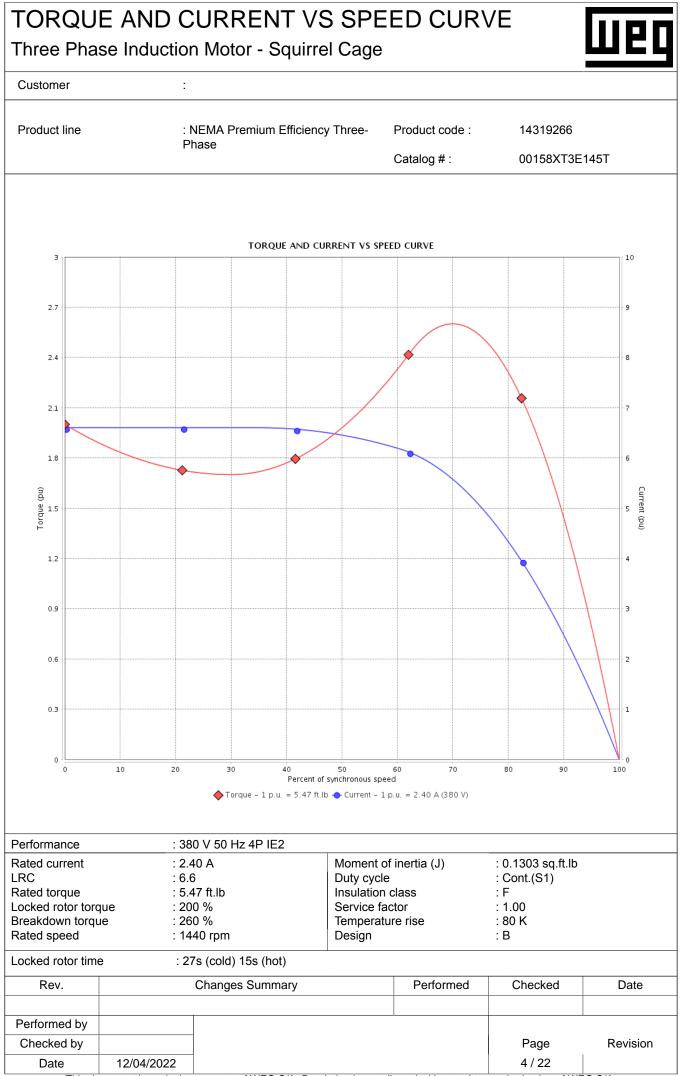
Three Phase Induction Motor - Squirrel Cage

:



#### Customer





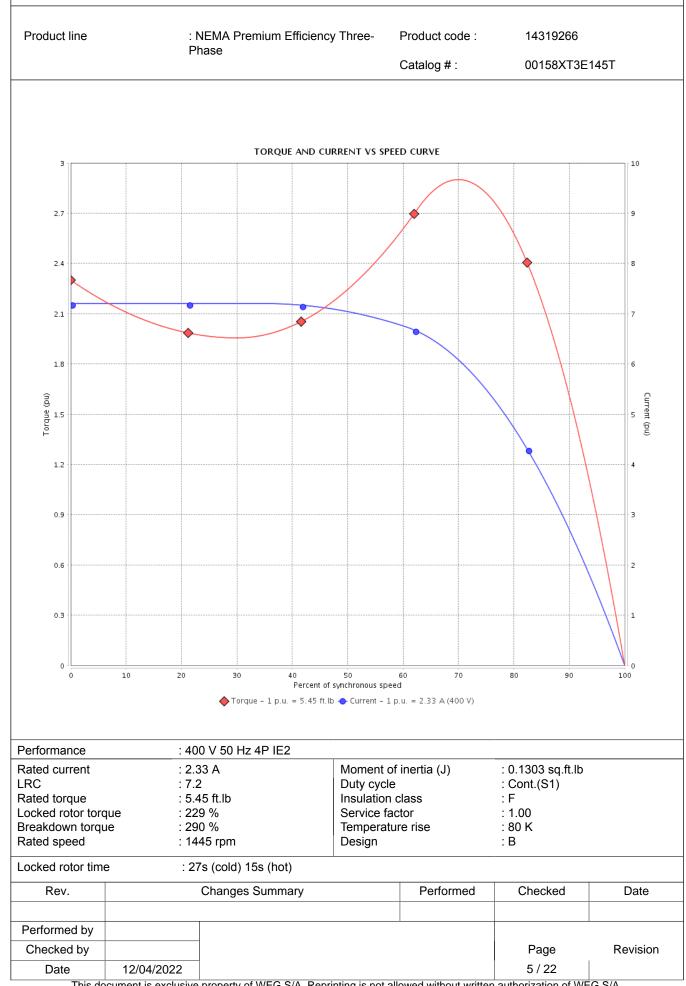
### TORQUE AND CURRENT VS SPEED CURVE

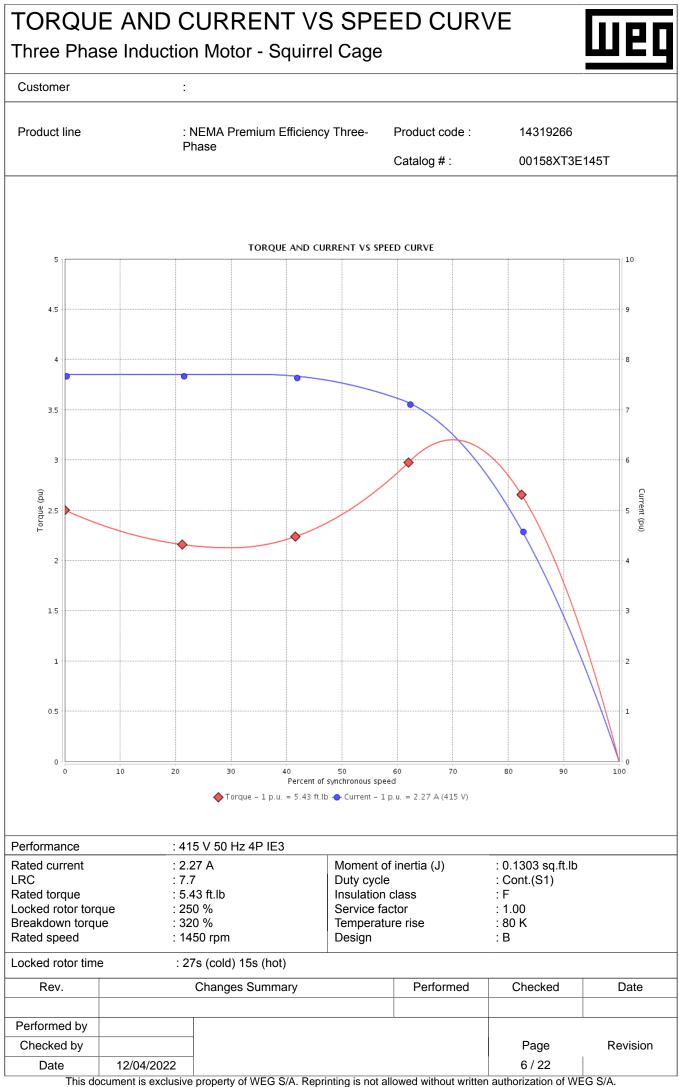
Three Phase Induction Motor - Squirrel Cage

:



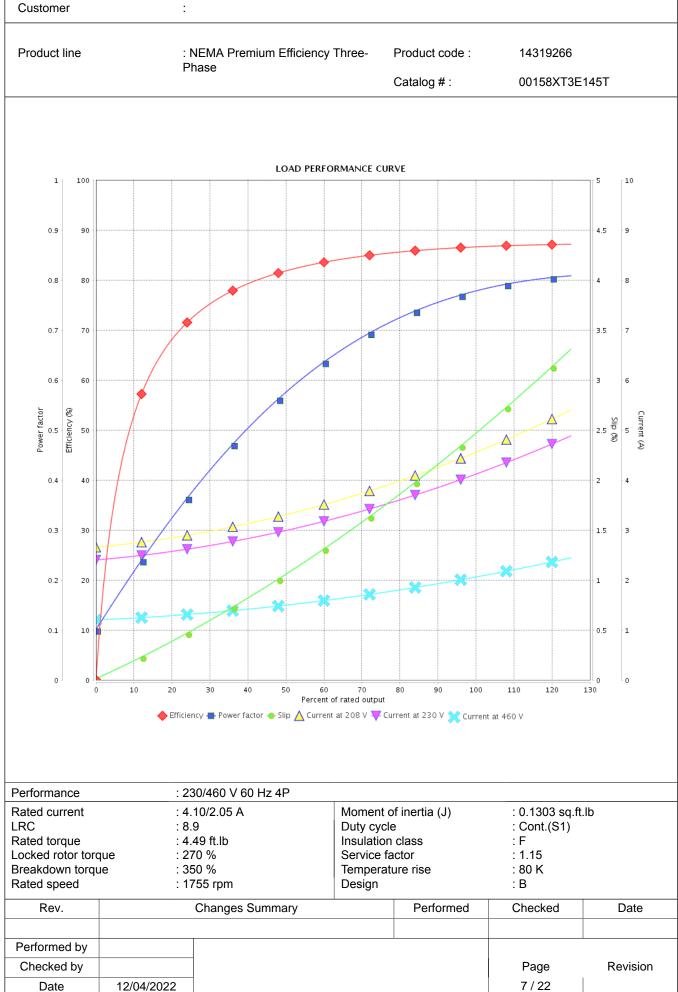
Customer





Three Phase Induction Motor - Squirrel Cage

### Customer



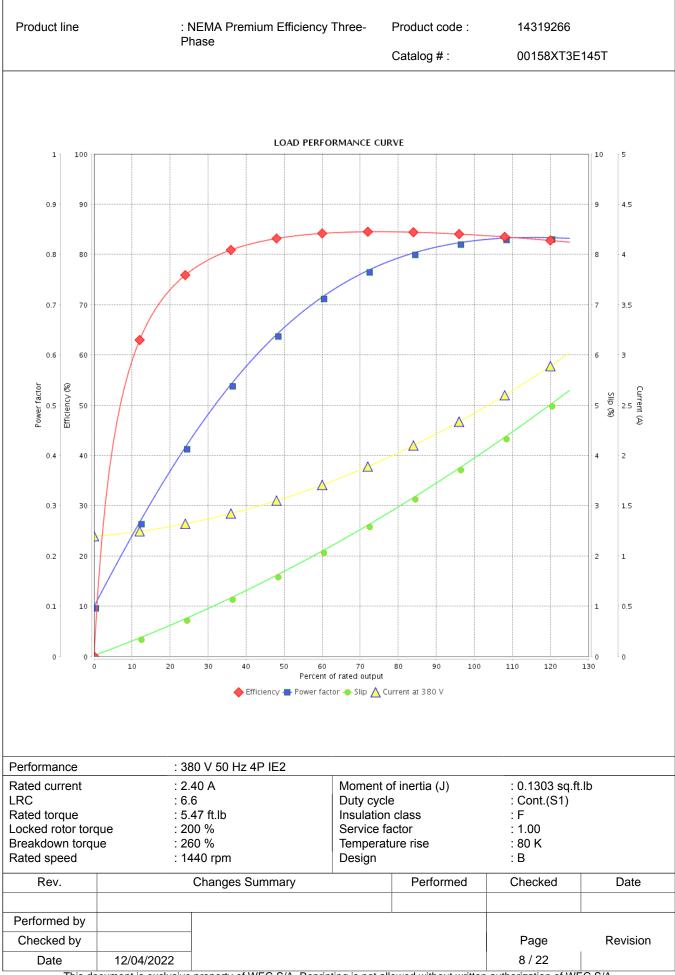
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:



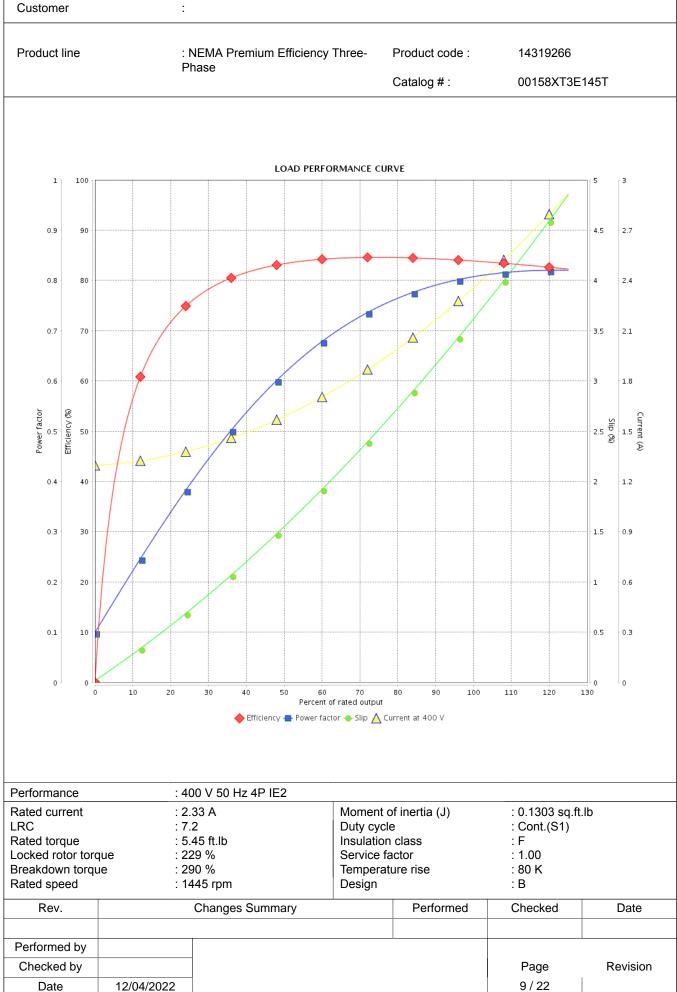
Customer



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



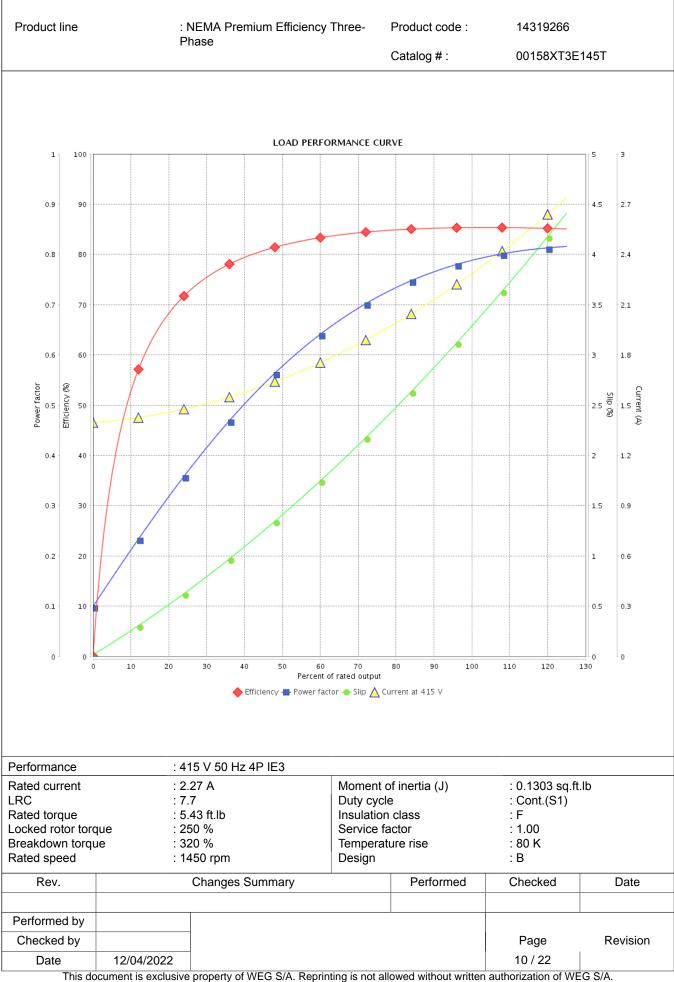
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage

:



Customer



:

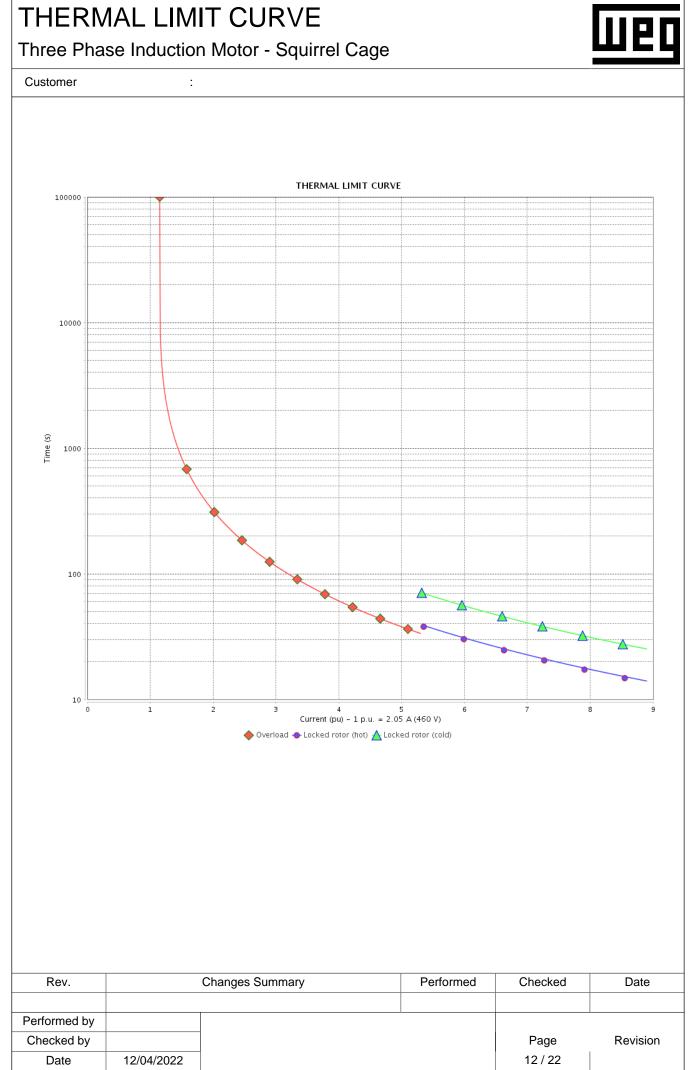
Three Phase Induction Motor - Squirrel Cage

#### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14319266
	Phase	Catalog # :	00158XT3E145T

Шед

Performance	: 2	30/460 V 60 Hz 4P				
Rated current: 4.10/2.05 AMoment of inLRC: 8.9Duty cycleRated torque: 4.49 ft.lbInsulation claLocked rotor torque: 270 %Service factorBreakdown torque: 350 %TemperatureRated speed: 1755 rpmDesign		class ctor	: 0.1303 sq.ft. : Cont.(S1) : F : 1.15 : 80 K : B	lb		
Heating constant						
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				11 / 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

:

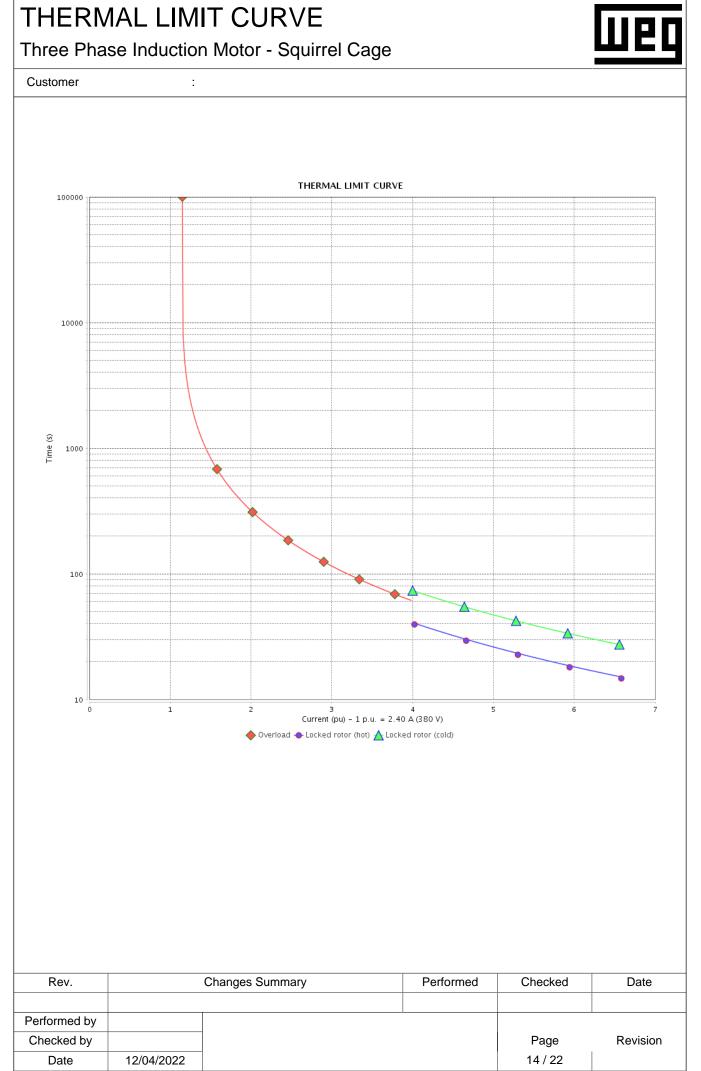
Three Phase Induction Motor - Squirrel Cage

#### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14319266
	Phase	Catalog # :	00158XT3E145T

Шед

Performance		: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue e	: 2.40 A : 6.6 : 5.47 ft.lb : 200 % : 260 % : 1440 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1303 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	12/04/2022				13 / 22	
This do	cument is exclus	sive property of WEG S/A. Rep	rinting is not all	owed 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. Subject to change without notice

:

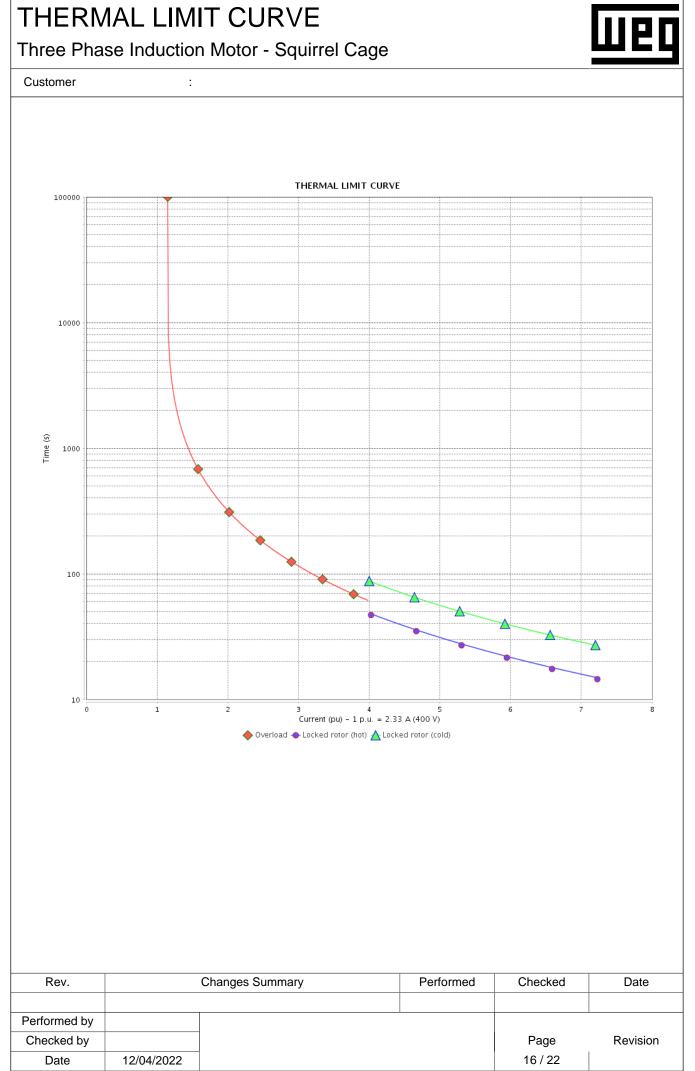
Three Phase Induction Motor - Squirrel Cage

#### Customer

Product line	: NEMA Premium Efficiency Three-	Product code :	14319266
	Phase	Catalog # :	00158XT3E145T

Шед

Performance		: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	ue e	: 2.33 A : 7.2 : 5.45 ft.lb : 229 % : 290 % : 1445 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1303 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	12/04/2022				15 / 22	
This do	cument is exclus	sive property of WEG S/A. Rep	rinting is not allo	owed 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. Subject to change without notice

:

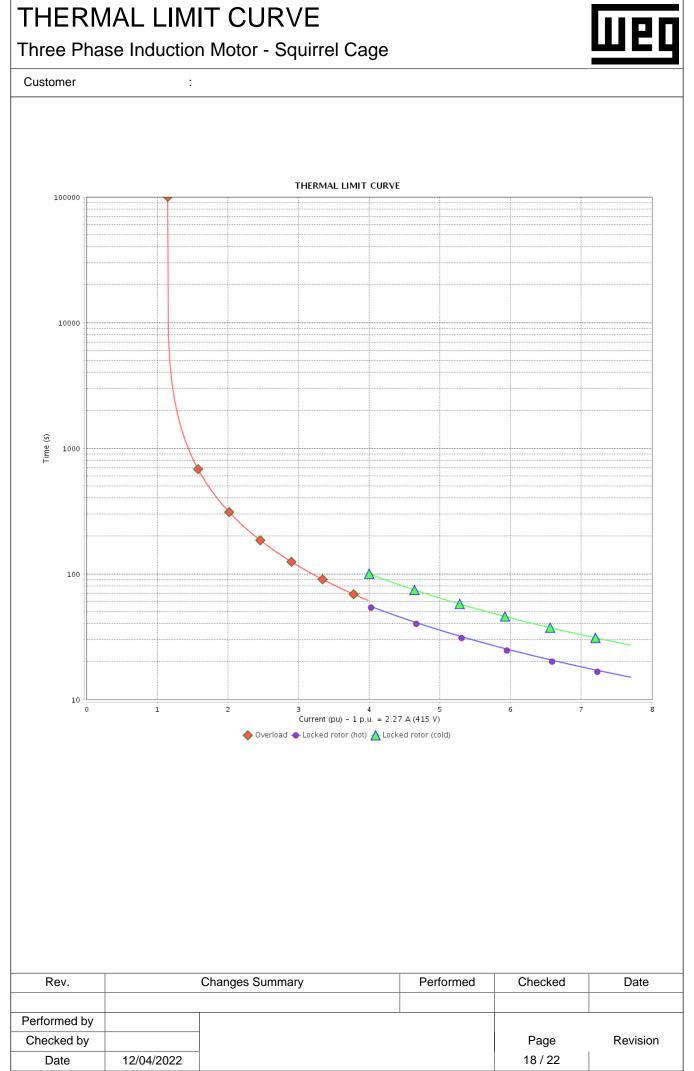
Three Phase Induction Motor - Squirrel Cage

#### Customer

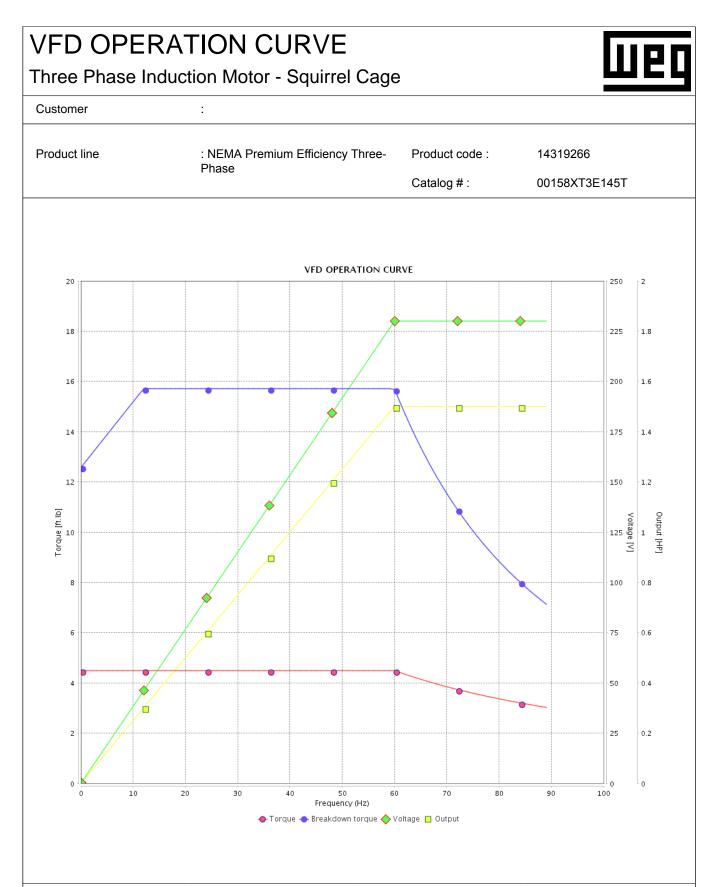
Product line	: NEMA Premium Efficiency Three-	Product code :	14319266
	Phase	Catalog # :	00158XT3E145T

Шед

Performance	: 4	15 V 50 Hz 4P IE3				
Rated current: 2.27 ALRC: 7.7Rated torque: 5.43 ft.lbLocked rotor torque: 250 %Breakdown torque: 320 %Rated speed: 1450 rpmHeating constant		.7 .43 ft.lb 50 % 20 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1303 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant	I					
Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				17 / 22	

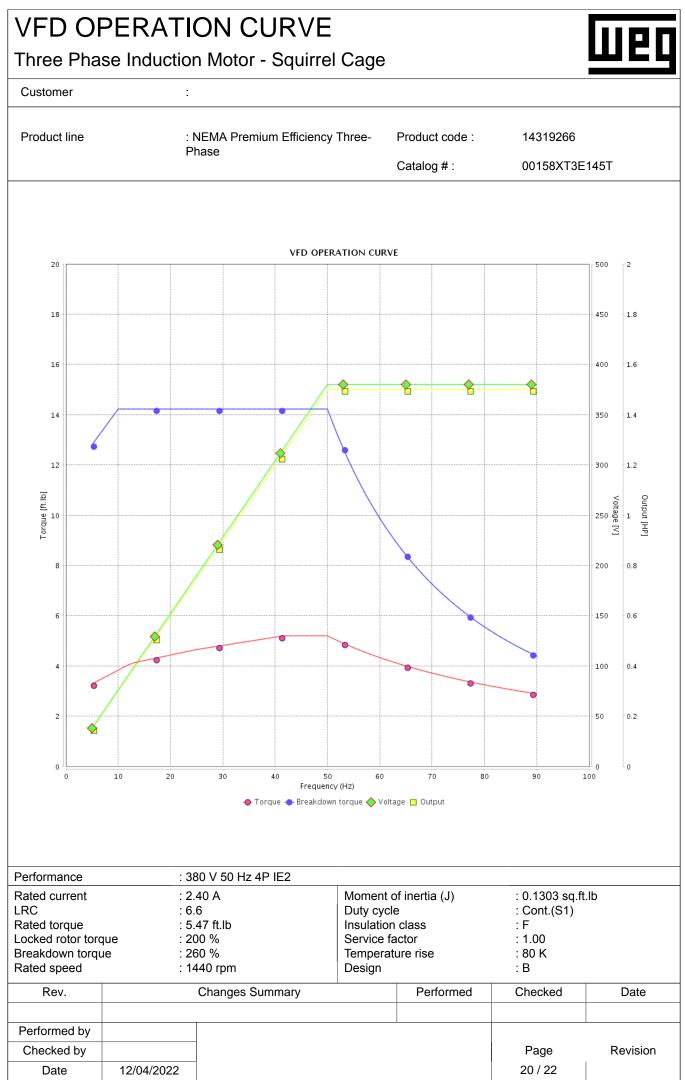


This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A. Subject to change without notice



Performance	:	230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		4.10/2.05 A 8.9 4.49 ft.lb 270 % 350 % 1755 rpm	Duty cycle Insulation Service fac	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		lb
Rev.	Changes Summary		у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	12/04/2022				19 / 22	

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

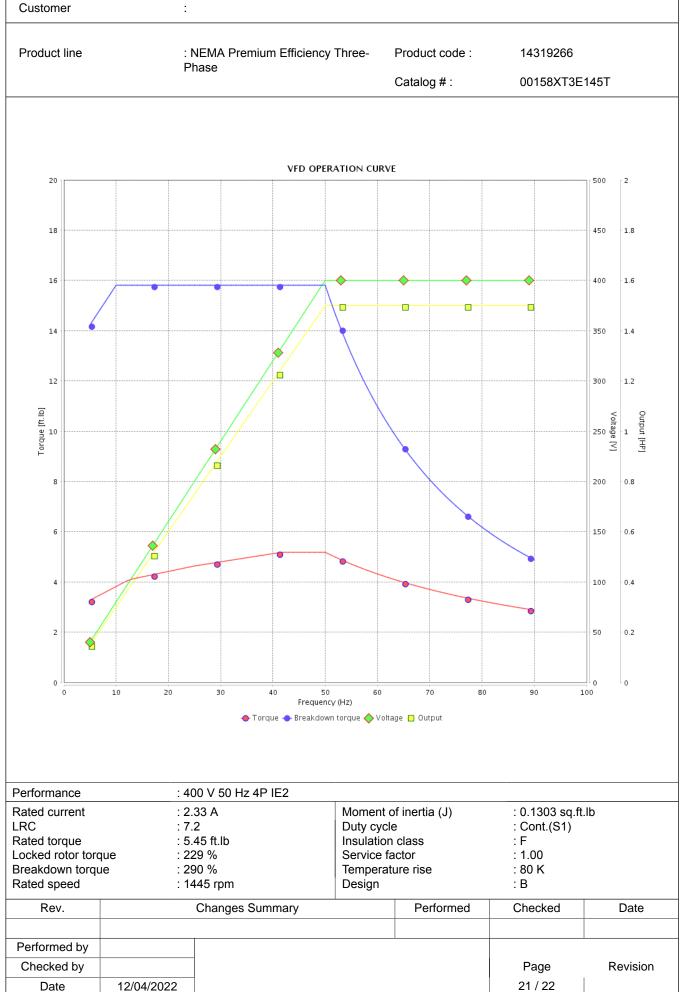


This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

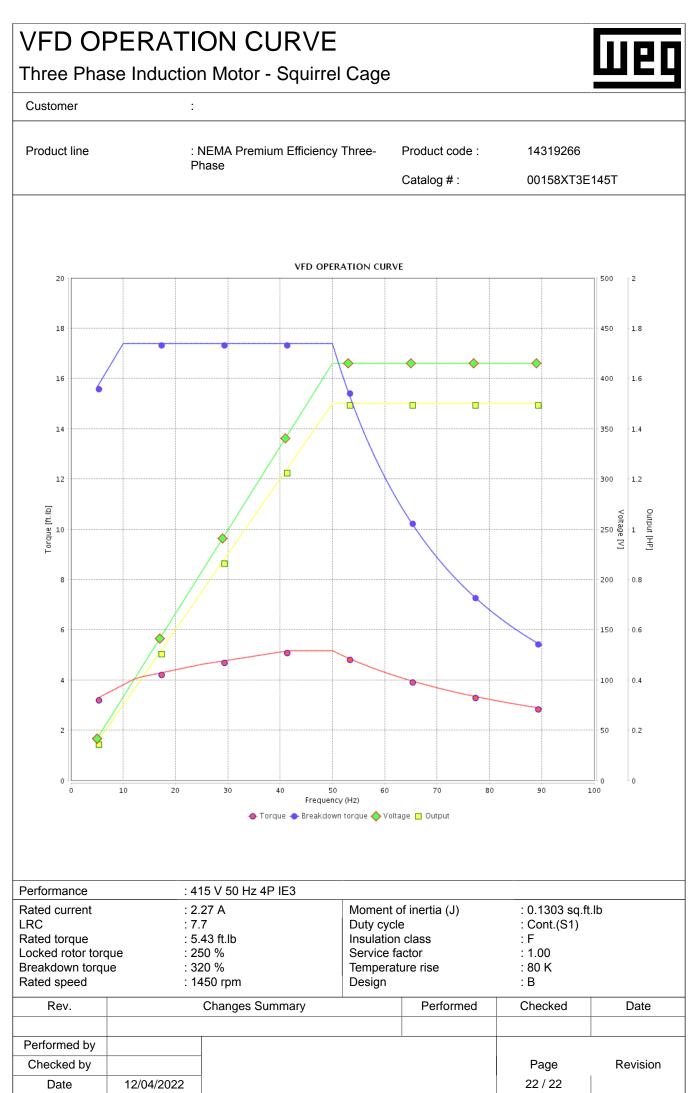
# **VFD OPERATION CURVE**

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.



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

