DATA SHEET

Three Phase Induction Motor - Squirrel Cage

:

Customer

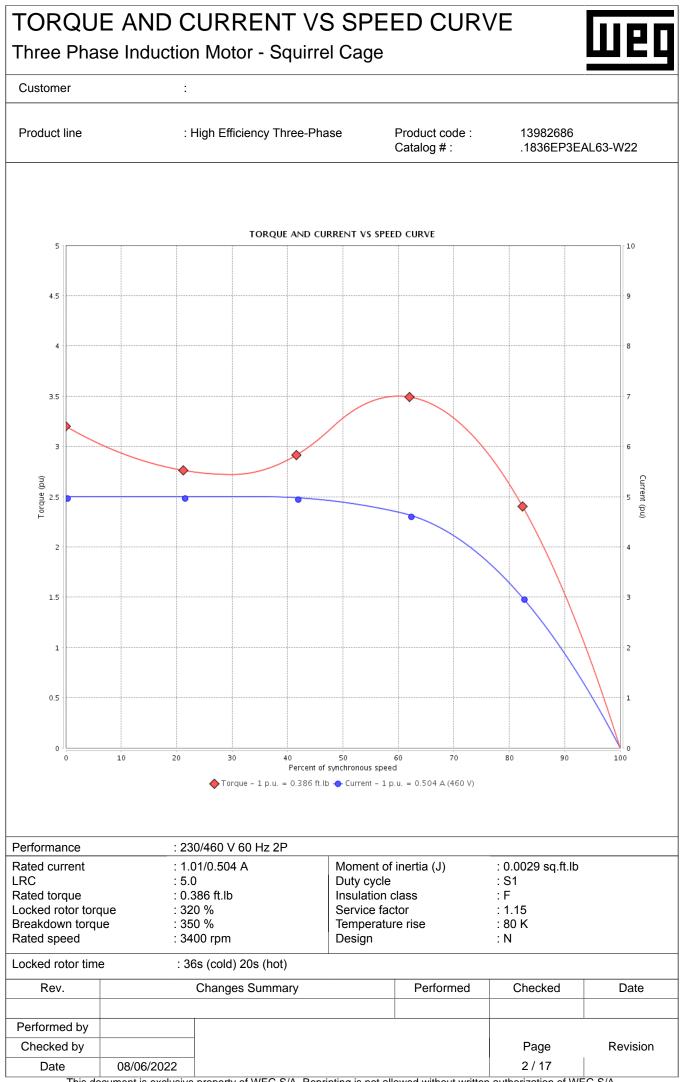
Product line		: High Efficiency Three	e-Phase		roduct code : atalog # :	13982686 .1836EP3E	AL63-W22
Frame Insulation class Duty cycle Ambient tempera Altitude Protection degre Design		: 63 : F : S1 : -20°C to +40°C : 1000 m.a.s.l. : IP55 : N		Cooling method Mounting Rotation ¹ Starting method Approx. weight ³ Moment of inertia (J)		: IC411 - TEFC : B3L(E) : Both (CW and CCW) : Direct On Line : 13.8 lb : 0.0029 sq.ft.lb	
Output [HP]		0.25	[0.25	0	25	0.25
Poles		2		2		2	2
Frequency [Hz]		60		50		50	50
Rated voltage [V]		230/460		380		00	415
Rated current [A]		1.01/0.504		0.518		533	0.550
. R. Amperes [A]		5.04/2.52		2.28		35	2.42
_RC [A]		5.0		4.4		.4	4.4
No load current [A	1	0.900/0.450		0.430		500	0.540
Rated speed [RPI		3400		2735		65	2780
Slip [%]	-	5.56		8.83		83	7.33
Rated torque [ft.lb	1	0.386		0.480		475	0.472
Locked rotor torqu		320		220		50	270
Breakdown torque		350		229		54	280
Service factor		1.15				00	1.00
Temperature rise		80 K		1.00 80 K) K	80 K
ocked rotor time		36s (cold) 20s (hot)	36s (c	old) 20s (h			(cold) 20s (hot)
Noise level ²		56.0 dB(A)		2.0 dB(A)		dB(A)	52.0 dB(A)
	25%	53.1		58.0		3.7	54.1
Efficiency (%)	50%	55.0		60.0).0	58.0
	75%	62.0		64.0		4.0	60.0
	100%	64.0		66.0		5.0	65.0
	25%	0.26		0.31		27	0.25
/	50%	0.48		0.58		53	0.48
Power Factor	75%	0.60		0.70		65	0.60
	100%	0.70		0.80		75	0.70
Bearing type Sealing Lubrication inter Lubricant amour Lubricant type		: 6201 ZZ 620	ive end 01 ZZ Seal - -	Foundatio Max. tract Max. com	ion	: 9 lb : 23 lb	
		ncel the previous one, wh	nich			based on tests w	
(3) Approximate with a second second	notor from the 1m and with t weight subjec ocess.	olerance of +3dB(A). It to changes after		power sup MG-1.		e tolerances stip	1
Rev. Performed by		Changes Summary			Performed	Checked	Date

Шeq

 Checked by
 Page
 Revision

 Date
 08/06/2022
 1 / 17
 1 / 17

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



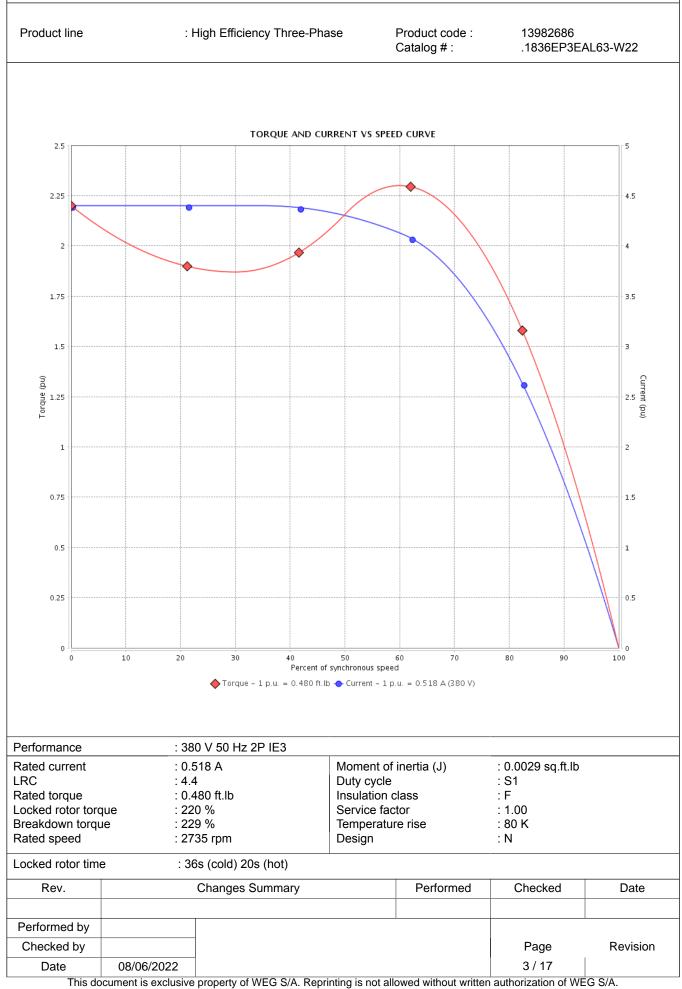
TORQUE AND CURRENT VS SPEED CURVE

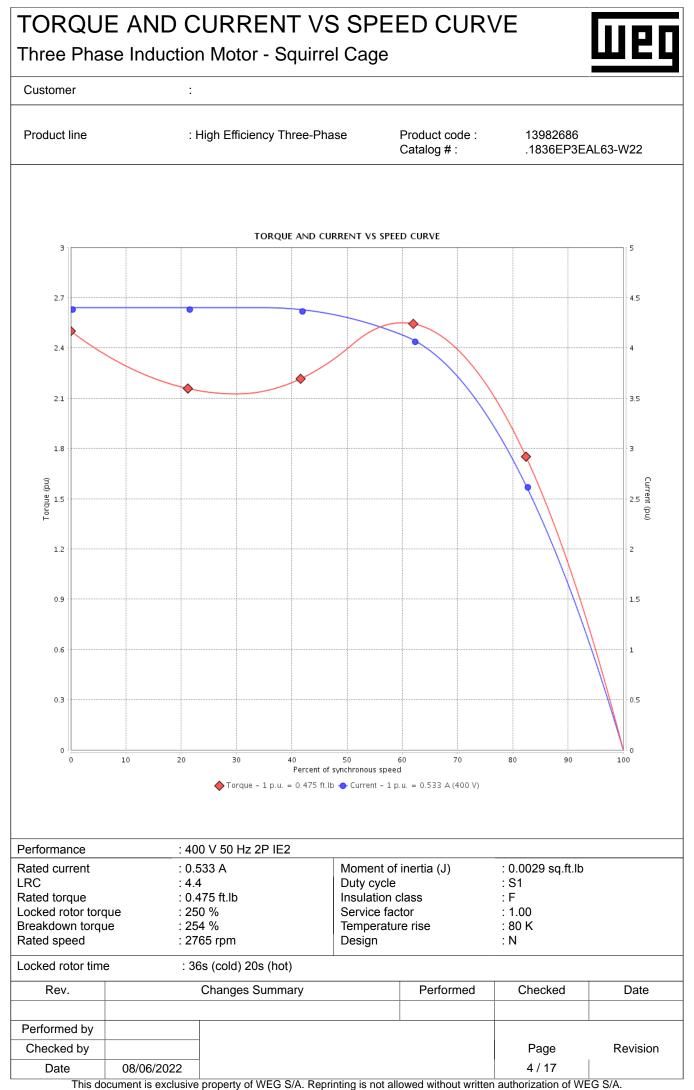
Three Phase Induction Motor - Squirrel Cage

:



Customer





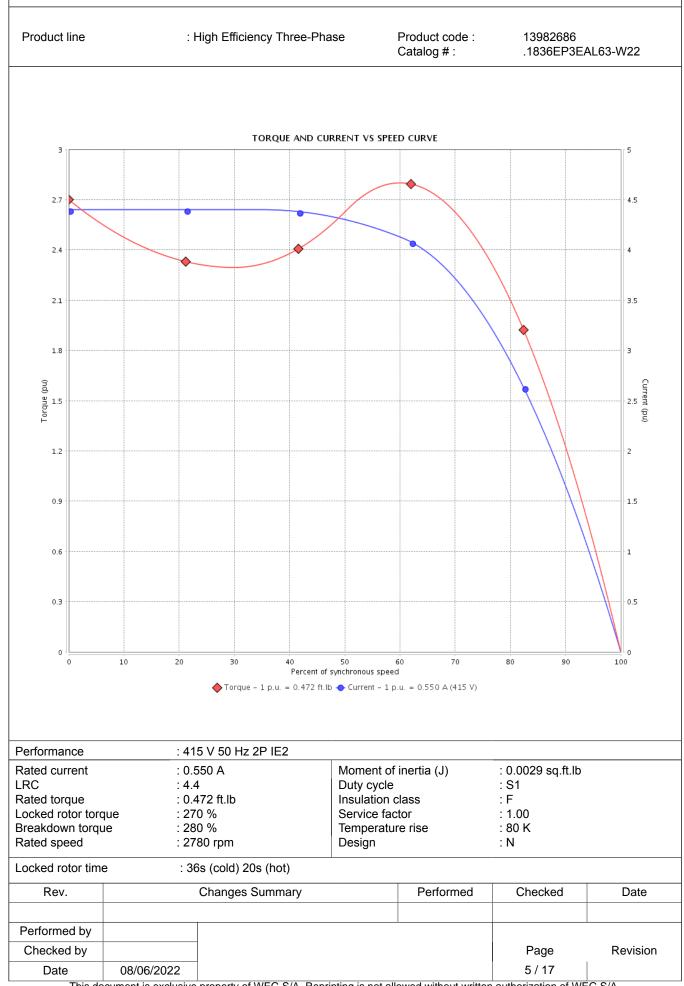
TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

:



Customer

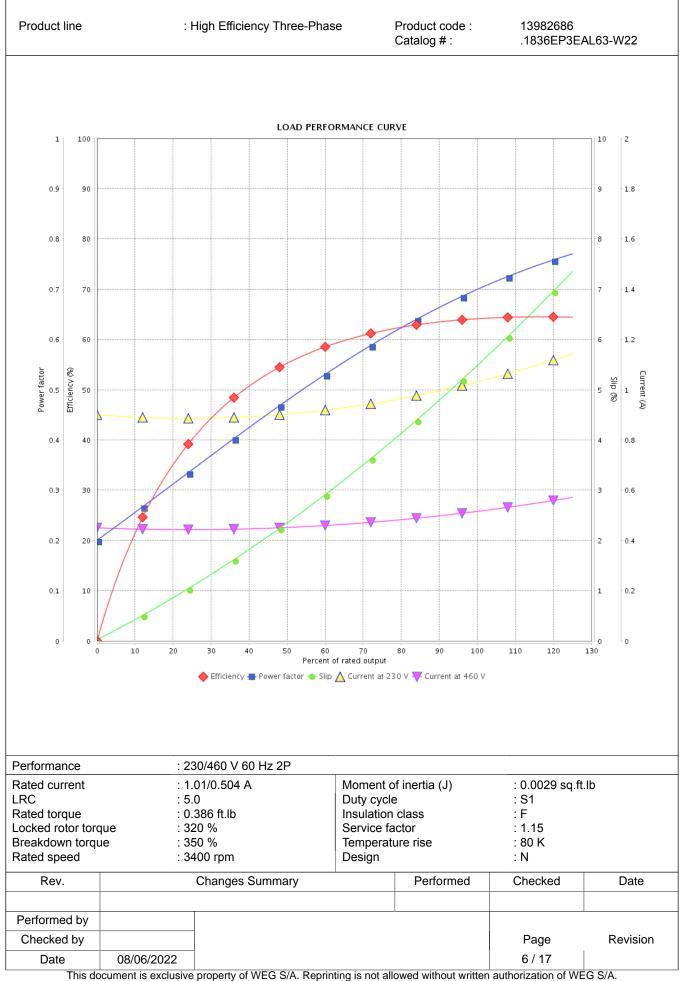


Three Phase Induction Motor - Squirrel Cage



Customer

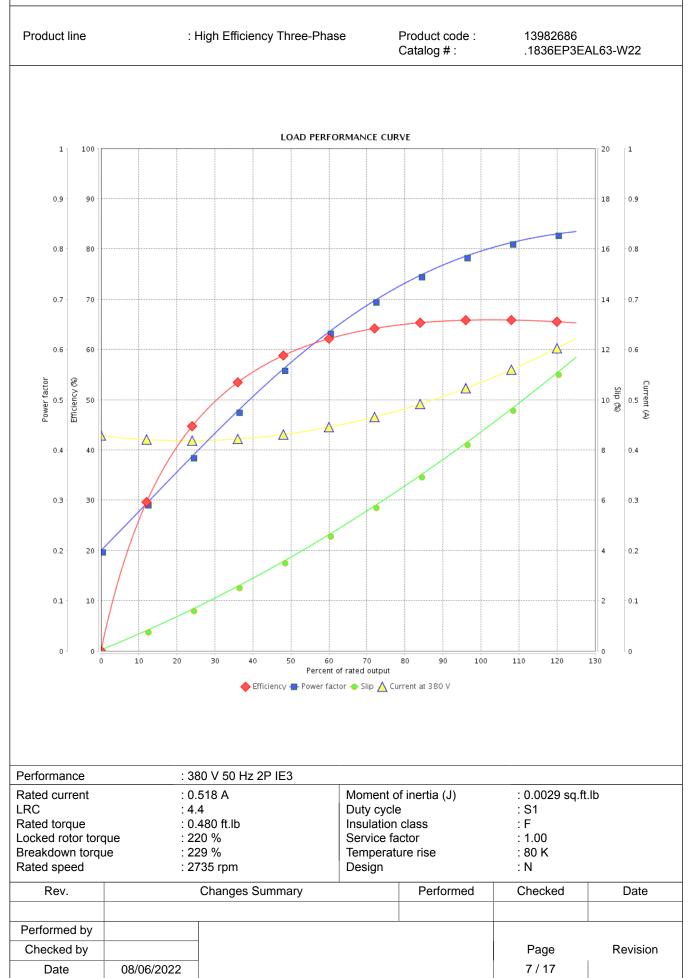
:



Three Phase Induction Motor - Squirrel Cage

:

Customer



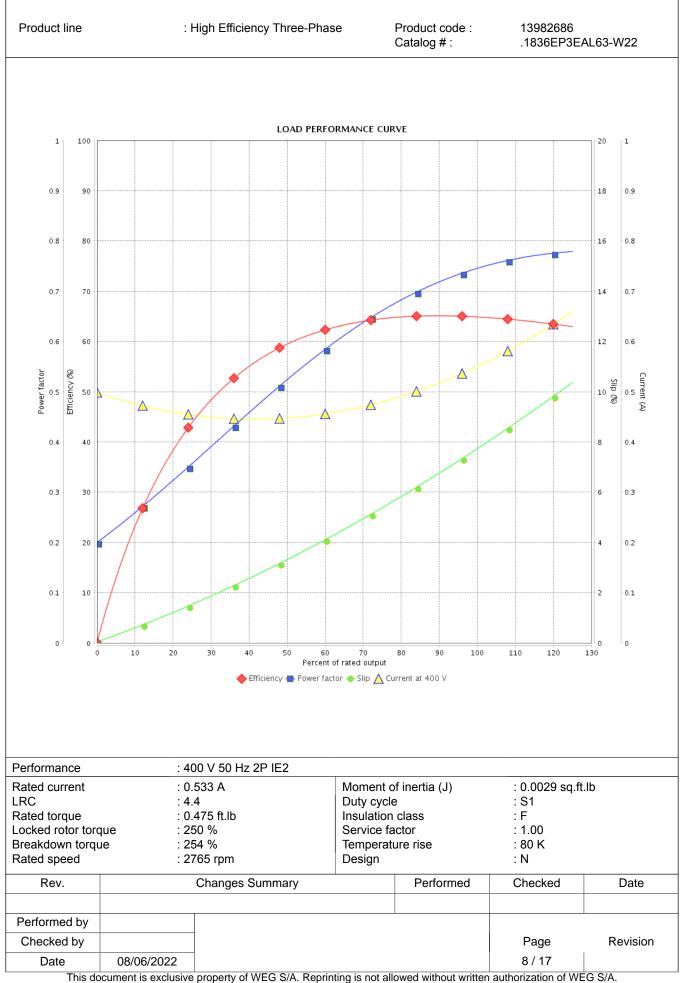
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Three Phase Induction Motor - Squirrel Cage



Customer

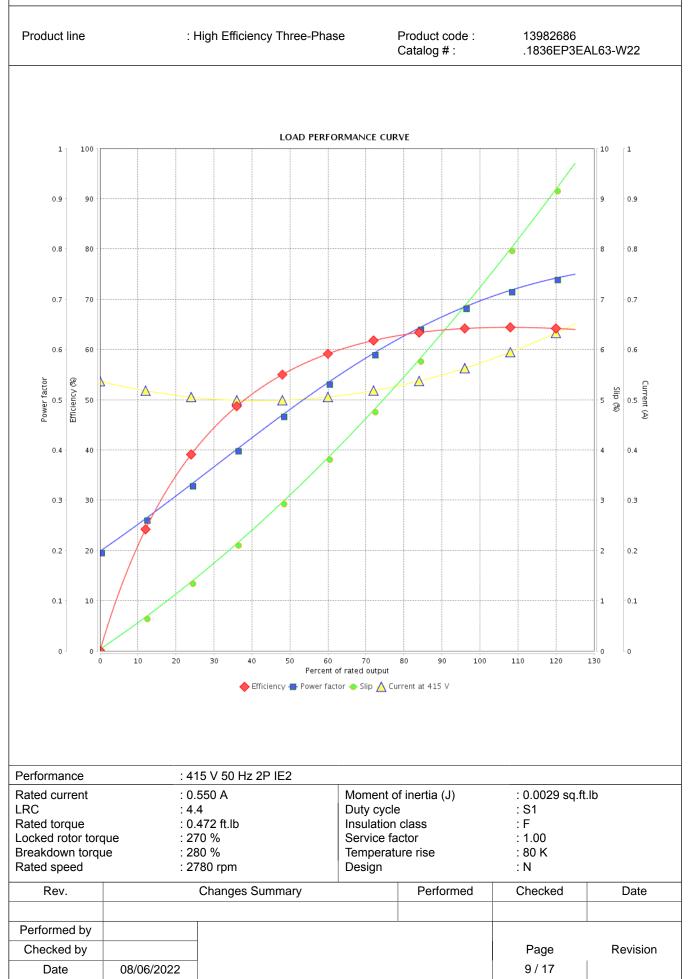
:



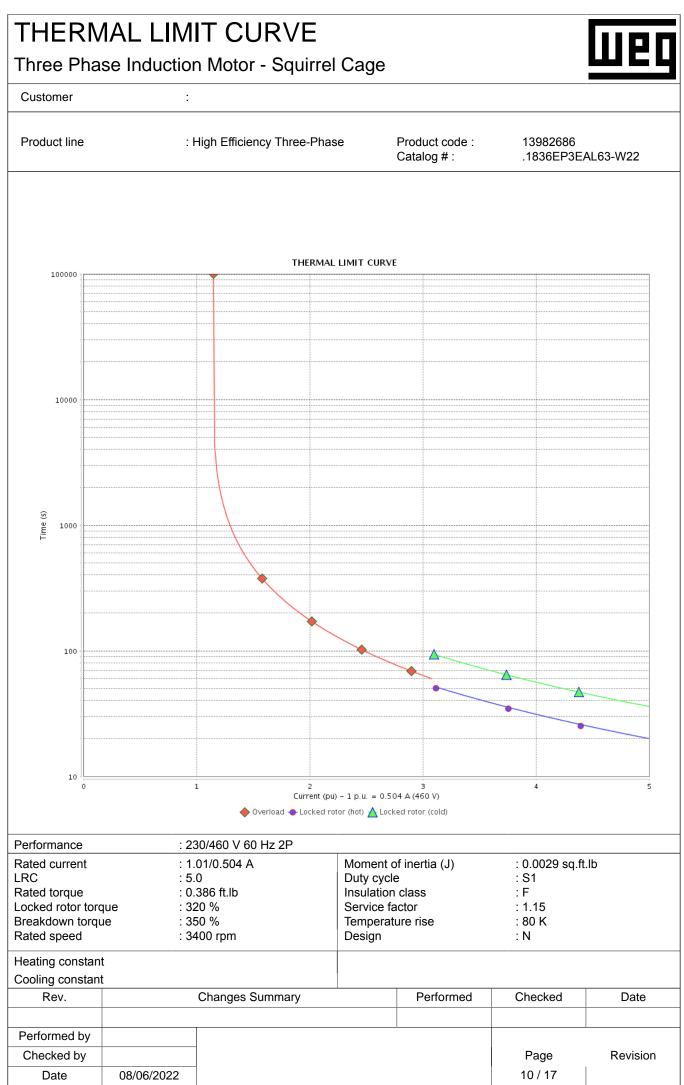
Three Phase Induction Motor - Squirrel Cage

:

Customer

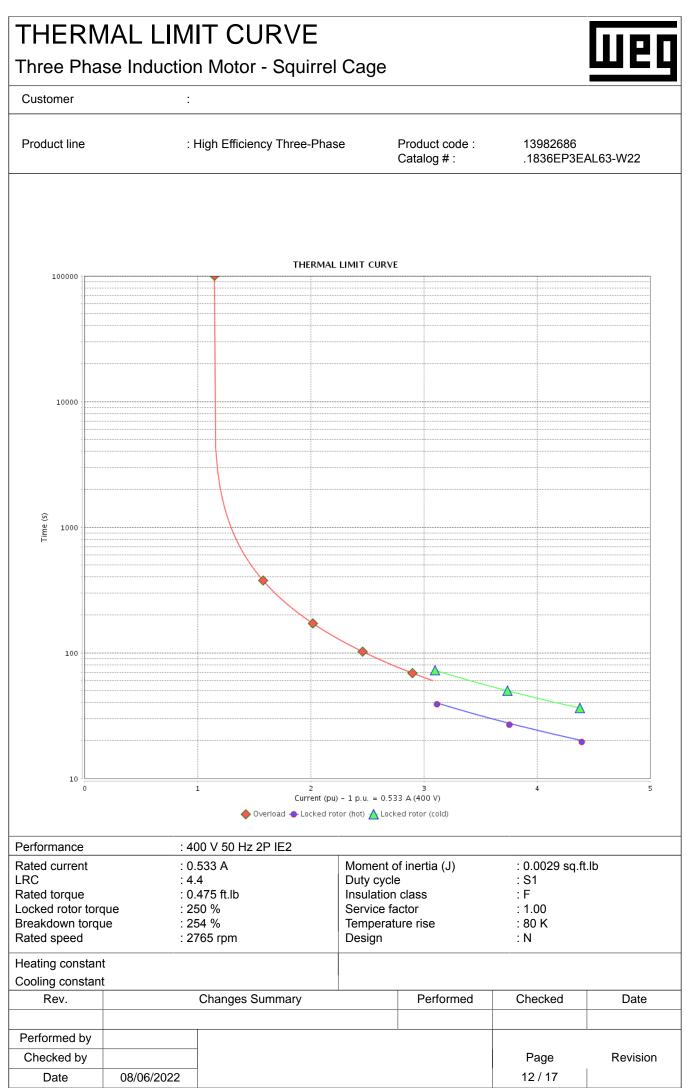


This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.



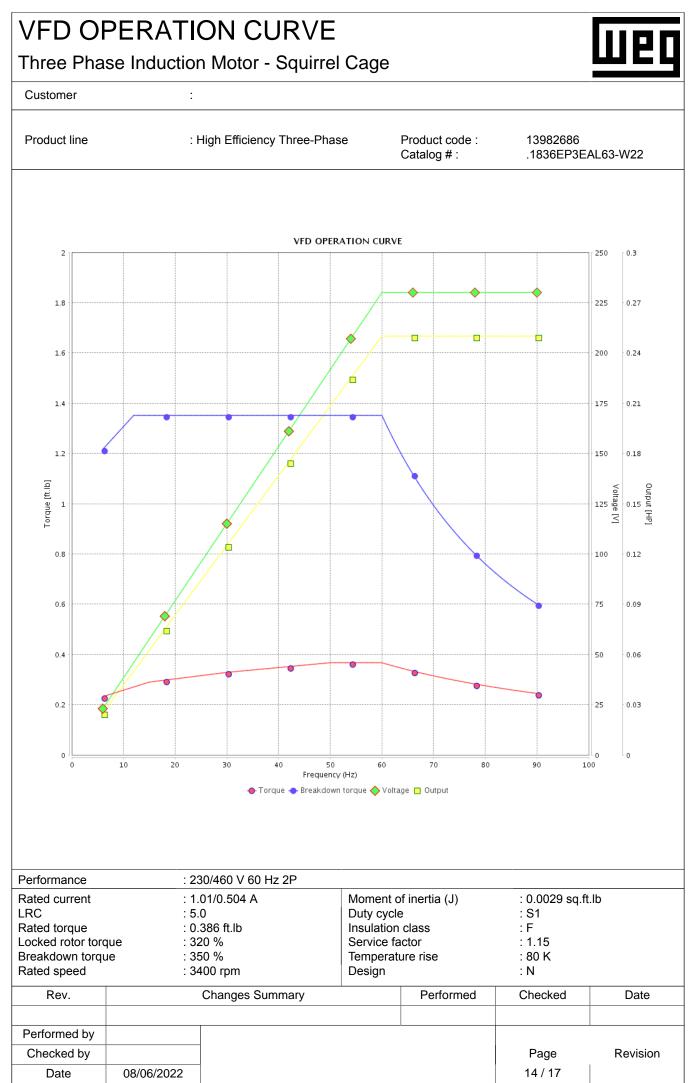
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

Customer	:								
Product line	:1	: High Efficiency Three-Phas				uct code : og # :	13982686 .1836EP3EAL63-W22		
		ті	HERMAL	LIMIT CURVE					
100000									
10000									
S 1000									
F									
100						<u> </u>			
							-		
								Ū	
10		1							
0		1 Cu		– 1 p.u. = 0.51 or (hot) <u> Lock</u> e		0 V)		1	5
rformance	: 38	30 V 50 Hz 2P IE3							
ted current		518 A		Moment o		tia (J))029 sq.ft.	lb
C Ited torque	: 4. : 0.	4 480 ft.lb		Duty cycle Insulation			: S1 : F		
cked rotor tor	que : 22	20 %		Service fa		_	: 1.0		
eakdown torq ited speed		29 % 735 rpm		Temperatu Design	ure ris	e	: 80 : N	ĸ	
ating constar				-					
oling constar									
Rev.		Changes Summary		Performed		Checked D		Date	
erformed by									
Checked by								age	Revisior



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

THERMAL LIMIT CURVE THERMAL LIMIT CURVE THERMAL LIMIT CURVE THERMAL LIMIT CURVE TOTOM THERMAL LIMIT CURVE TOTOM TO	Customer	:								
10000 100000 100000 100000 10000 10000 10000 10000 10000 10000 100	Product line	:1	: High Efficiency Three-Phas					13982686 .1836EP3EAL63-W22		
10000 100000 100000 100000 10000 10000 10000 10000 10000 10000 100										
Provided rotor torque reakdown torque			тн	ERMAL	LIMIT CURVE					
efformance : 415 V 50 Hz 2P IE2 tated current : 0.550 A CC : 4.4 tated current : 0.550 A CC : 2780 rpm tated speed : 2780 rpm tated speed : 2780 rpm	100000									
eakdown torque : 270 % tacked rotror torque : 270 % eakdown torque :										
eakdown torque : 270 % cited speed : 2780 rpm										
eakdown torque : 270 % cited speed : 2780 rpm										
rformance : 415 V 50 Hz 2P IE2 ted current : 0.550 A CC : 4.4 ted current : 0.550 A CC : 4.4 CC : 4										
rformance : 415 V 50 Hz 2P IE2 ted current : 0.550 A C : 4.4 ted torque : 0.472 ft.lb cked rotor torque : 280 % ted speed : 2780 rpm ating constant oblig constant	10000									
rformance : 415 V 50 Hz 2P IE2 ted current : 0.550 A C : 4.4 ted torque : 0.472 ft.lb ceked rotor torque : 280 % ted speed : 2780 rpm ating constant oling constant	-									
rformance : 415 V 50 Hz 2P IE2 ted current : 0.550 A C : 4.4 ted torque : 0.472 ft.lb ceked rotor torque : 280 % ted speed : 2780 rpm ating constant oling constant										
rformance : 415 V 50 Hz 2P IE2 ted current : 0.550 A C : 4.4 ted torque : 0.472 ft.lb cked rotor torque : 280 % ted speed : 2780 rpm ating constant oblig constant										
rformance : 415 V 50 Hz 2P IE2 ted current : 0.550 A C : 4.4 ted torque : 0.472 ft.lb cked rotor torque : 280 % ted speed : 2780 rpm ating constant oblig constant										
rformance : 415 V 50 Hz 2P IE2 ted current : 0.550 A C : 4.4 ted torque : 0.472 ft.lb cked rotor torque : 280 % ted speed : 2780 rpm ating constant oblig constant	(S)									
Image: state of the system Image: state of the system <td< td=""><td>≝ ¹⁰⁰⁰</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	≝ ¹⁰⁰⁰									
Image: state of the system Image: state of the system <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
Image: state of the system Image: state of the system <td< td=""><td></td><td></td><td>×</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>			×							
Image: state of the system Image: state of the system <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
Image: state of the system Image: state of the system <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
0 1 2 3 4 Current (pu) - 1 p.u. = 0.550 A (415 V) Incked rotor (cold) Incked rotor (cold) erformance : 415 V 50 Hz 2P IE2 Incked rotor (cold) ted current : 0.550 A Moment of inertia (J) : 0.0029 sq.ft.lb ted current : 0.472 ft.lb Duty cycle : S1 ted torque : 0.472 ft.lb Insulation class : F cked rotor torque : 270 % Service factor : 1.00 eakdown torque : 280 % Temperature rise : 80 K besign : N Design : N	100									
0 1 2 3 4 Current (pu) - 1 p.u. = 0.550 Å (415 V) Incked rotor (cold) Incked rotor (cold) rformance : 415 V 50 Hz 2P IE2 Incked rotor (cold) tted current : 0.550 Å Duty cycle : S1 tted torque : 0.472 ft.lb Insulation class : F cked rotor torque : 270 % Service factor : 1.00 eakdown torque : 280 % Temperature rise : 80 K besign : N Design : N										
0 1 2 3 4 Current (pu) - 1 p.u. = 0.550 Å (415 V) Incked rotor (cold) Incked rotor (cold) rformance : 415 V 50 Hz 2P IE2 Incked rotor (cold) tted current : 0.550 Å Duty cycle : S1 tted torque : 0.472 ft.lb Insulation class : F cked rotor torque : 270 % Service factor : 1.00 eakdown torque : 280 % Temperature rise : 80 K besign : N Design : N							•			
0 1 2 3 4 Current (pu) - 1 p.u. = 0.550 Å (415 V) Incked rotor (cold) Incked rotor (cold) rformance : 415 V 50 Hz 2P IE2 Incked rotor (cold) tted current : 0.550 Å Duty cycle : S1 tted torque : 0.472 ft.lb Insulation class : F cked rotor torque : 270 % Service factor : 1.00 eakdown torque : 280 % Temperature rise : 80 K besign : N Design : N										
0 1 2 3 4 Current (pu) - 1 p.u. = 0.550 Å (415 V) Incked rotor (cold) Incked rotor (cold) rformance : 415 V 50 Hz 2P IE2 Incked rotor (cold) tted current : 0.550 Å Duty cycle : S1 tted torque : 0.472 ft.lb Insulation class : F cked rotor torque : 270 % Service factor : 1.00 eakdown torque : 280 % Temperature rise : 80 K besign : N Design : N									•	
Current (pu) - 1 p.u. = 0.550 A (415 V) • Overload										
tted current: 0.550 AMoment of inertia (J): 0.0029 sq.ft.lbC: 4.4Duty cycle: S1tted torque: 0.472 ft.lbInsulation class: Fcked rotor torque: 270 %Service factor: 1.00eakdown torque: 280 %Temperature rise: 80 Ktted speed: 2780 rpmDesign: N	U		Cu	rrent (pu)		0 A (415			ł	5
RC : 4.4 Duty cycle : S1 ited torque : 0.472 ft.lb Insulation class : F cked rotor torque : 270 % Service factor : 1.00 eakdown torque : 280 % Temperature rise : 80 K ited speed : 2780 rpm Design : N	rformance	: 47	15 V 50 Hz 2P IE2							
tred torque : 0.472 ft.lb Insulation class : F cked rotor torque : 270 % Service factor : 1.00 eakdown torque : 280 % Temperature rise : 80 K ted speed : 2780 rpm Design : N eating constant							a (J)			lb
eakdown torque : 280 % Temperature rise : 80 K ted speed : 2780 rpm Design : N eating constant poling constant	ated torque	: 0.	472 ft.lb		Insulation	class		: F		
ated speed : 2780 rpm Design : N eating constant poling constant										
poling constant										
Rev. Changes Summary Performed Checked Dat	-	t				-	-f		-1	
	Rev.		Changes Summary			Pei	rtormed	Che	cked	Date
								Pa	age	Revisio
Performed by Page Revis	Jnecked by									



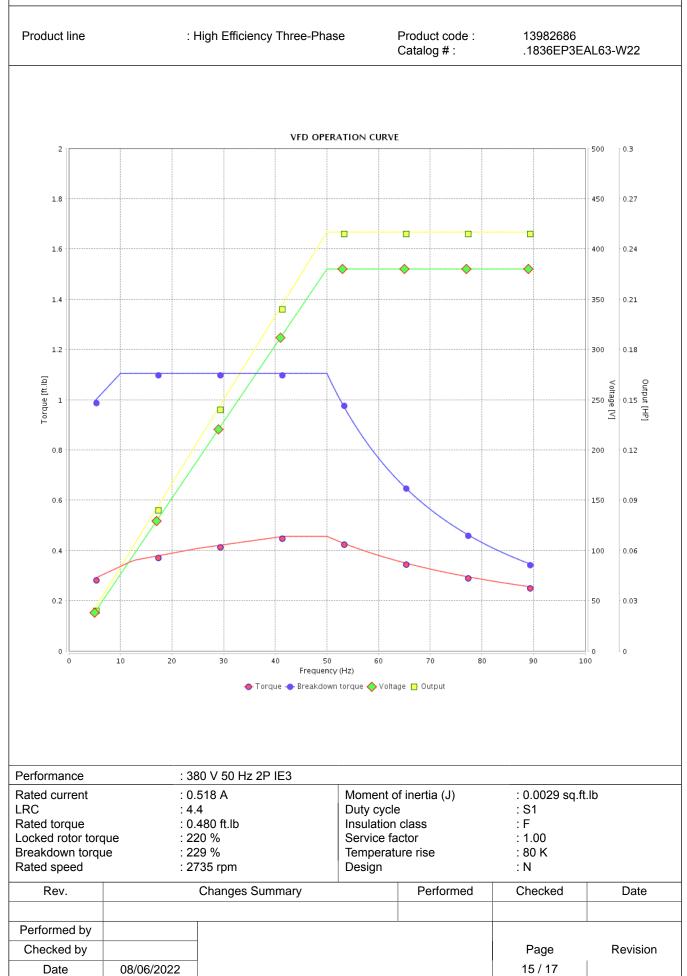
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A.

VFD OPERATION CURVE

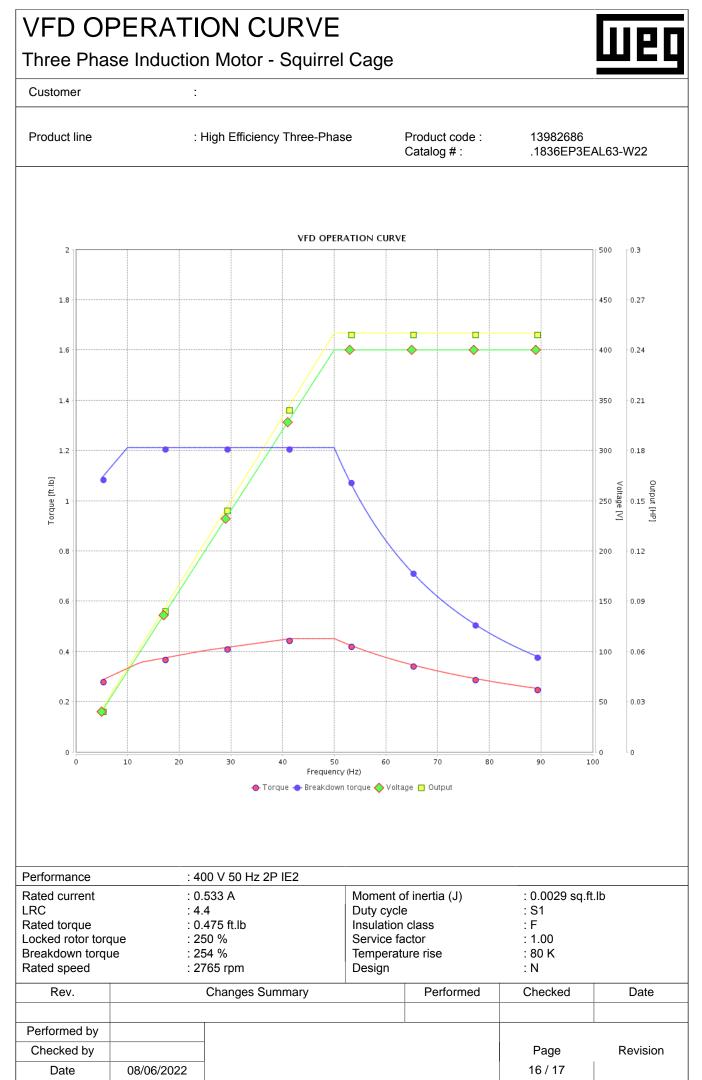
:

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.



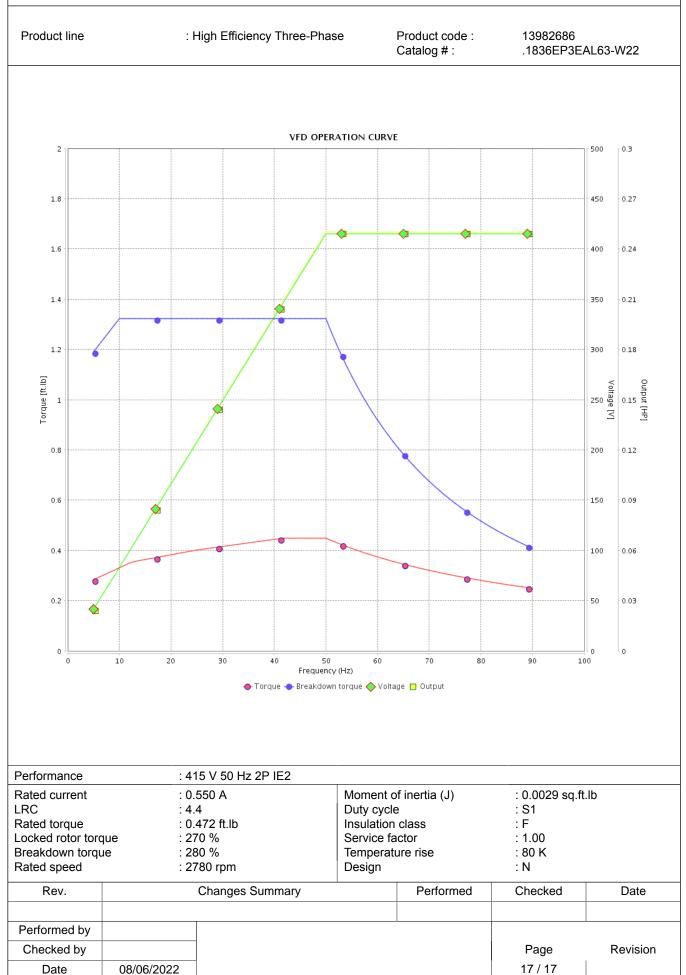
This document is exclusive property of WEG S/A. Reprinting is not allowed without written authorization of WEG S/A. Subject to change without notice

VFD OPERATION CURVE

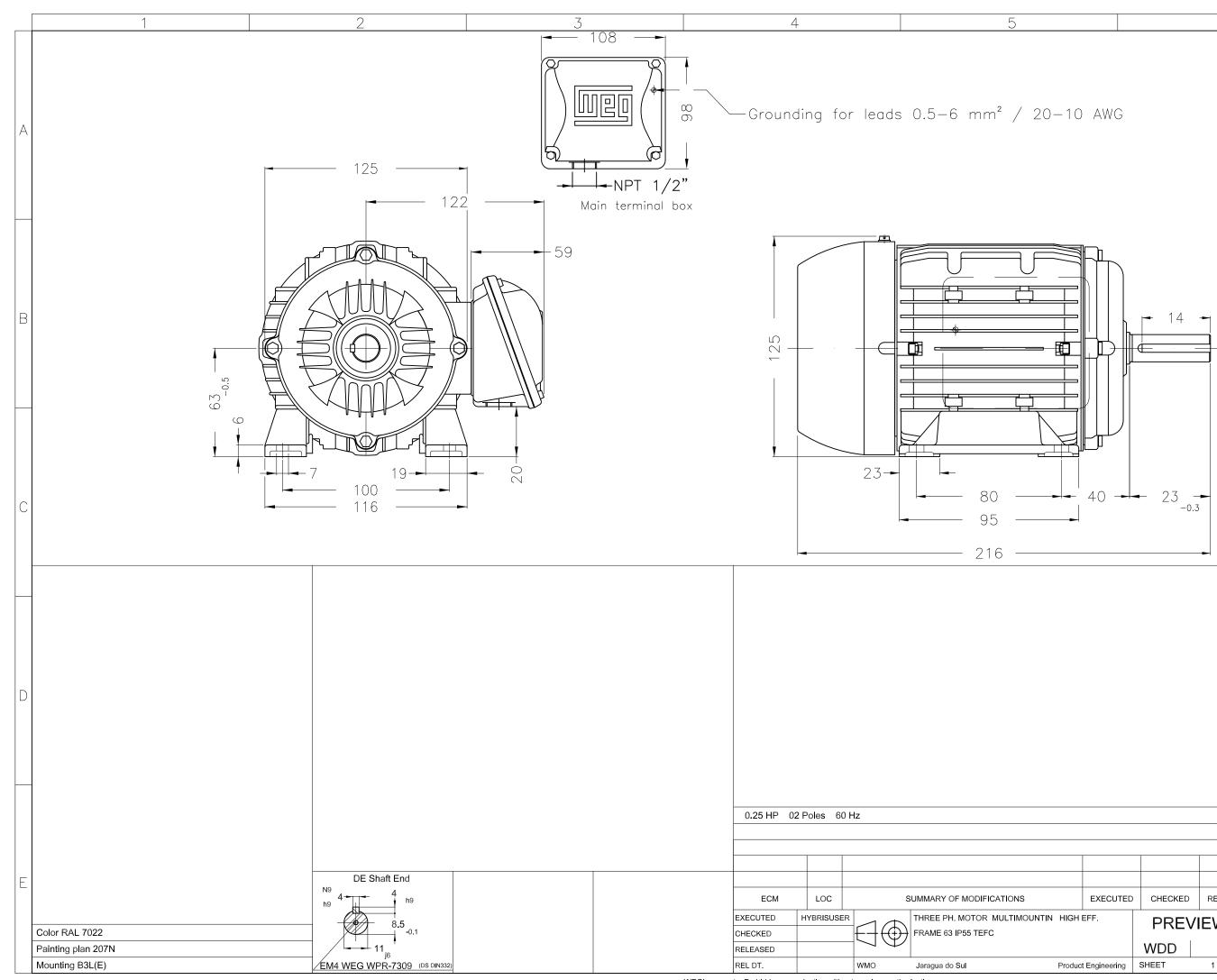
:

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.



WEG's property. Forbidden reproduction without previous authorization.

						Dimensions in mm	
					A		
NS	EXECUTED	CHECKED	RELEASED	DATE	VER		
MOUNTIN HIGH	EFF.	PREVIEW					
		WDD	ШВ		A3		
Produc	t Engineering	SHEET	1 / 1			XME	

