# DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : Astraprom d.o.o.

Product line	: IE3 T	hree-Phas	е		P	roduct cod	e: 1	2862535	5	
Frame Insulation class Duty cycle Ambient temperature Altitude Protection degree Design		: 180M : F : S1 : -20°C to +40°C : 1000 m.a.s.l. : IP55 : N			Cooling method Mounting Rotation <sup>1</sup> Starting method Approx. weight <sup>3</sup> Moment of inertia (J)		:	: IC411 - TEFC : B5T : Both (CW and CCW) : Direct On Line : 176 kg : 0.1740 kgm²		
Output [kW]			18.5		18.5		18.5		18.5	
Poles			4		4		4		4	
Frequency [Hz]		50			50		50		60	
Rated voltage [V]		380/660		400/690			415		460	
Rated current [A]		36.1/20.8		35.2/20.4			34.7		30.6	
. R. Amperes [A]		253/145		264/153			278		260	
_RC [A]		7.0		7.5			8.0		8.5	
No load current [A]		14.2/8.18		16.0/9.28			17.7		14.5	
Rated speed [RPM Slip [%]	IJ	1473		1476			1477		1780 1.11	
Slip [%] Rated torque [kgfm	1	1.80 12.2		1.60 12.2			1.53 12.2		10.1	
Locked rotor torque		260		300			320		340	
Breakdown torque		260			300		320		380	
Service factor		1.00		<u> </u>	1.00		1.00		1.00	
Temperature rise		80 K			80 K		80 K		80 K	
_ocked rotor time		14s (cold) 8s (hot)		14s (	14s (cold) 8s (hot)		14s (cold) 8s (hot)		9s (cold) 11s (hot)	
Noise level <sup>2</sup>			D dB(A)		61.0 dB(A)		61.0 dB(A)		63.0 dB(A)	
	25%				. ,					
Efficiency (%)	50%		92.2		91.8		91.8		92.0	
	75%		92.6		92.6		92.6		93.0	
	100%	ę	92.6		92.6		92.6		93.6	
	25%								0.00	
Power Factor	50%		0.69		0.64		0.61		0.62	
	75%		0.79		0.76		0.73 0.80		0.74	
	100%		).84		0.82				0.81	
Losses at normativ		• • •		n percer	•				-	
		,9;1,0)	7.8		7.8		7.8		6.7	
		,5;1,0) 6.7			6.7		6.7		5.8	
		,25;1,0) 6.2			6.2		6.2		5.3	
Losses (%)		0,9;0,5) 3.6		3.6			3.6		3.1	
		,5;0,5) 5;0,25)	2.6		2.6		<u>2.6</u> 1.7		2.2	
		5,0,25) (5;0,25)	1.7		1.2		1.7		1.4	
	17 (0,2			ive and			1.4		1.0	
Bearing type		: <u>Drive end</u> <u>Non drive end</u> : 6311 ZZ C3 6211 ZZ C3			Foundation loads			: 163 kaf		
Sealing		: Oil Seal Lip Seal			Max. tract Max. com			: 463 kgf : 639 kgf		
Lubrication interv	al	: -		-		000000		JJJ KYI		
Lubricant amount		: -		-						
Lubricant type		: Mobil Polyrex EM								
			-							
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end.				These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in IEC 60034-1.						
<ul><li>(2) Measured at 11</li><li>(3) Approximate w</li></ul>	m and with to reight subjec cess.	olerance o	f +3dB(A).							
manufacturing pro	Changes Summary				Performed Checke		necked	Date		
		Chang	ges Summary			i enomi	<b>.</b>		Date	
(4) At 100% of full		Chang	ges Summary			T enom				
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Customer

: Astraprom d.o.o.

Notes

Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision 16/12/2022 2/19 Date



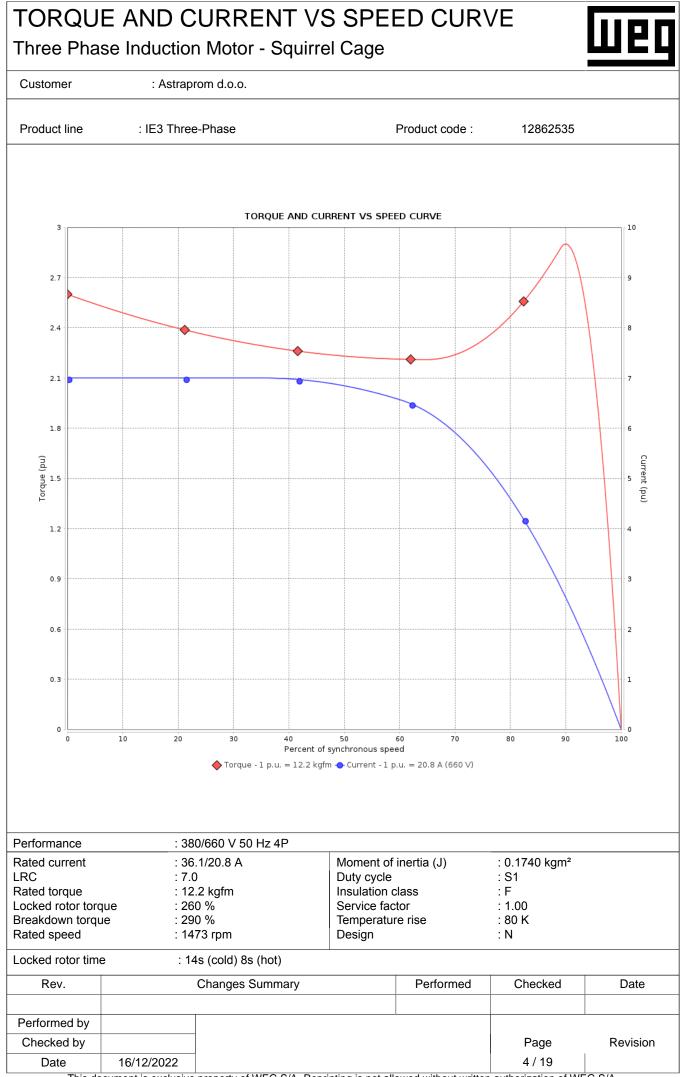
## DATA SHEET

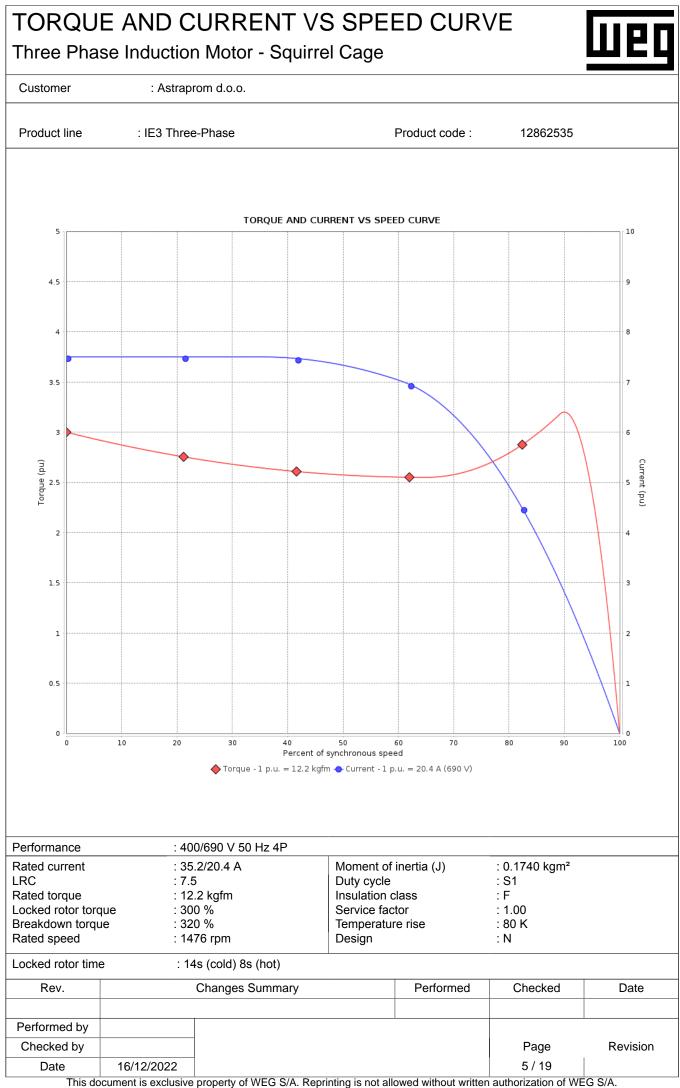
Three Phase Induction Motor - Squirrel Cage

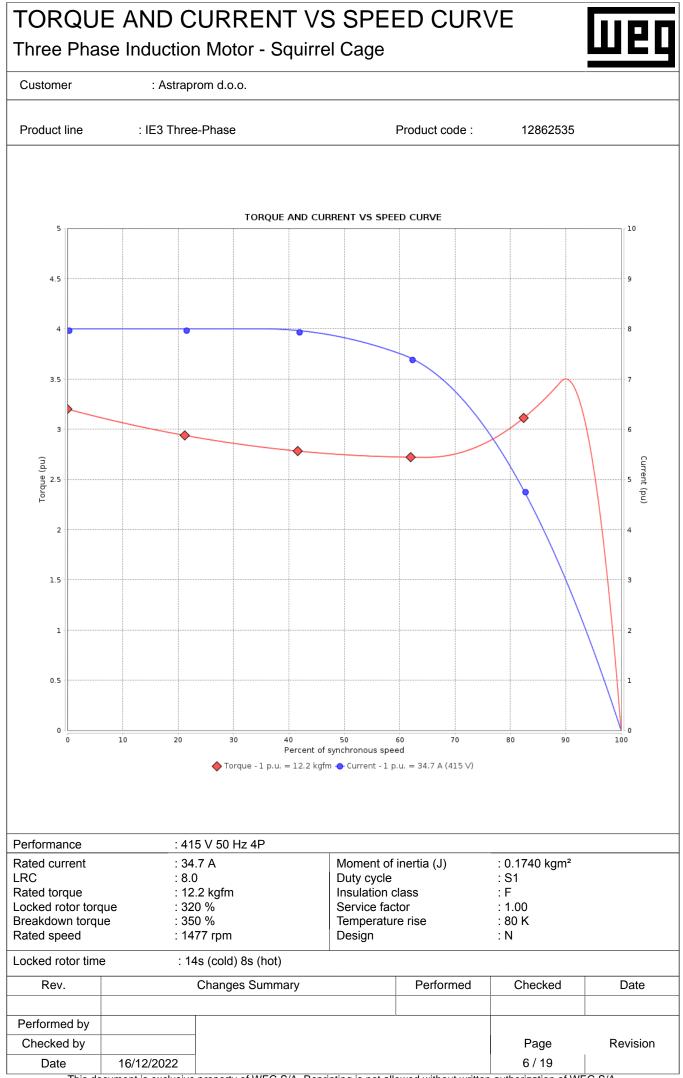


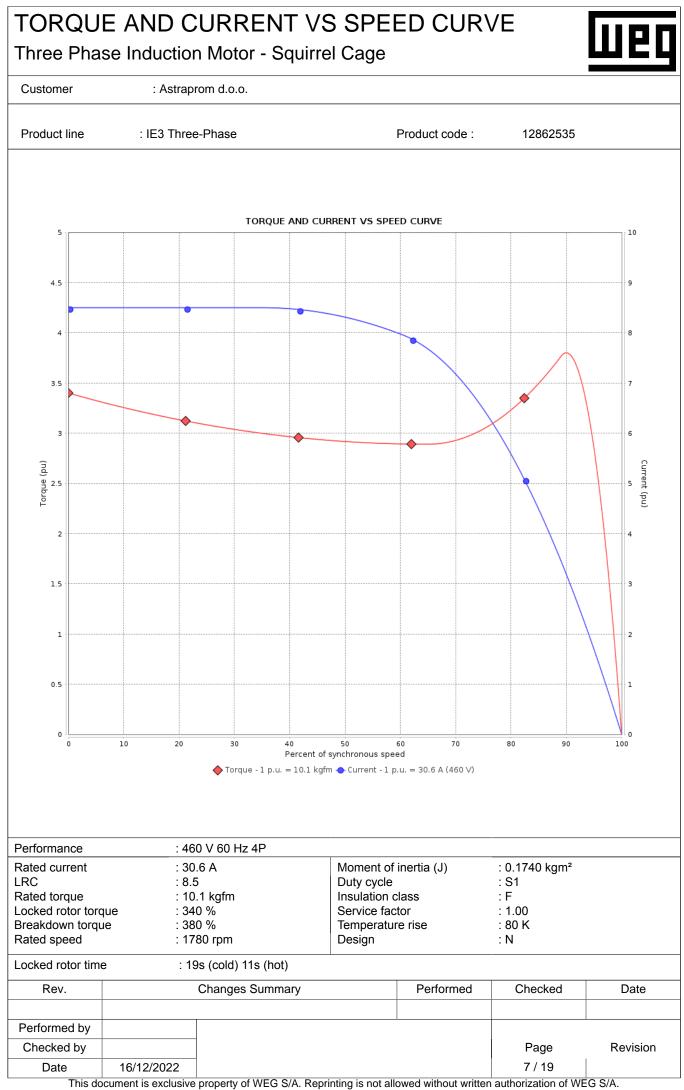
Customer : Astraprom d.o.o.

ID	Application	Туре	Quantity	Sensing	Temperature
1	Winding	Thermistor - 2 wires	1 x Phase	1	55 °C
Rev.	Chanc	ges Summary	Performed	Checked	Date
Performed by					
Charlind hu				Page	Revision
Checked by	16/12/2022			Fage 3 / 19	Revision









## LOAD PERFORMANCE CURVE

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Customer

Product line

100

90

80

60

50

40

30

20

10

0

1

0.9

0.8

0.7

0.6

0.5

0.4

0.3

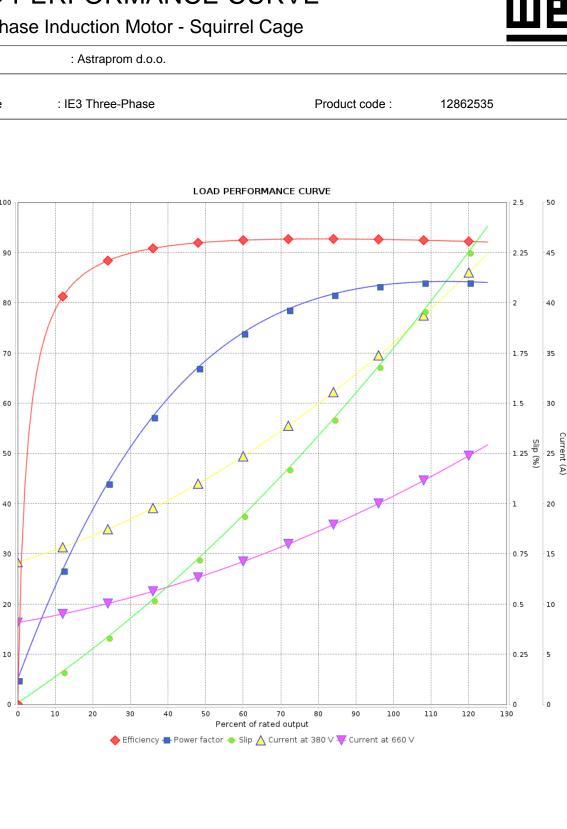
0.2

0.1

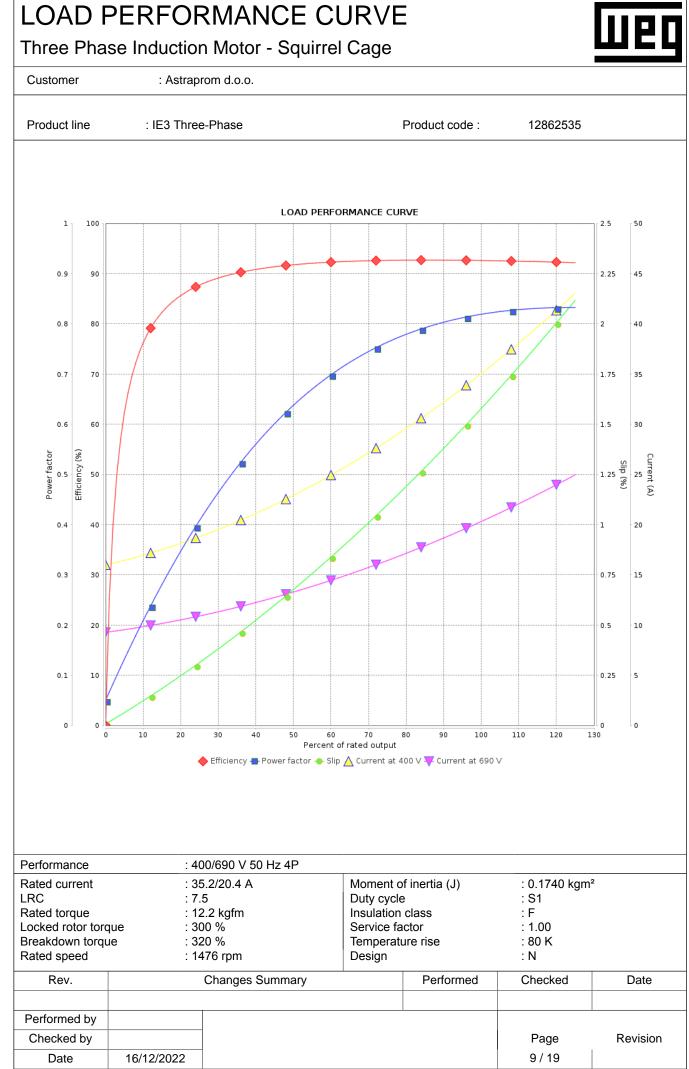
0

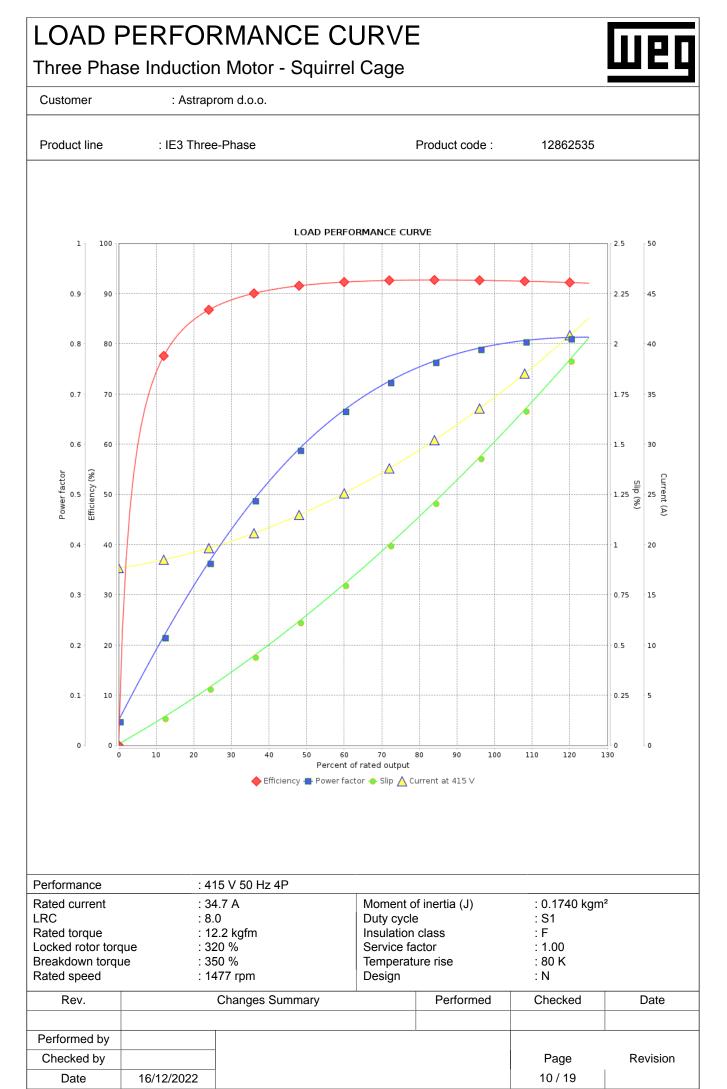
Power factor

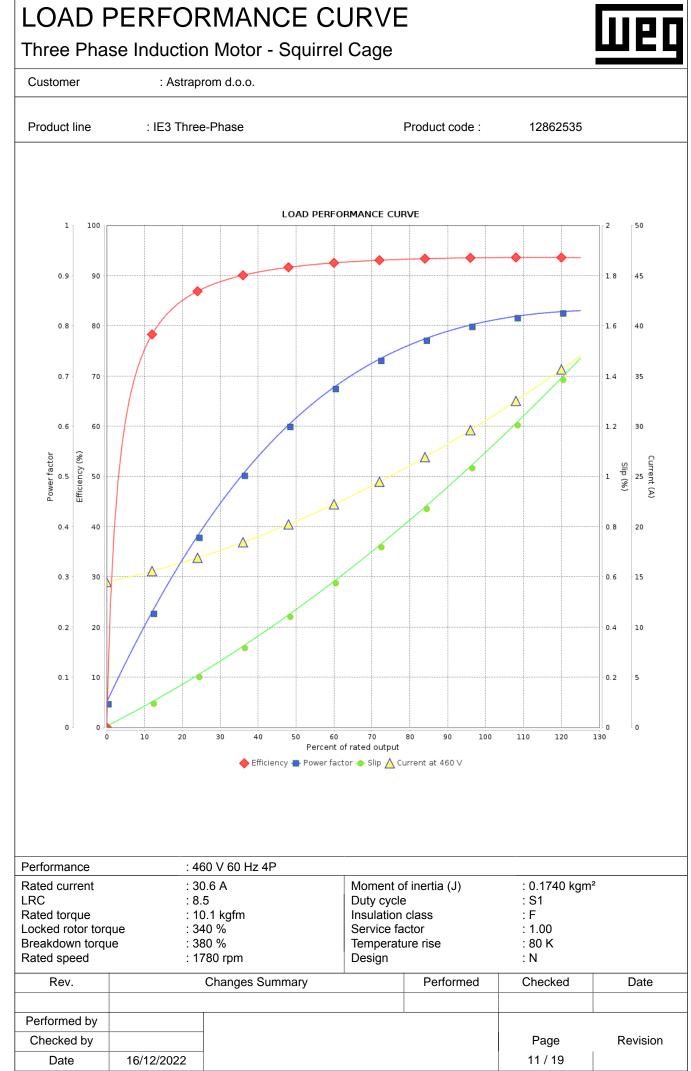
Efficiency (%)

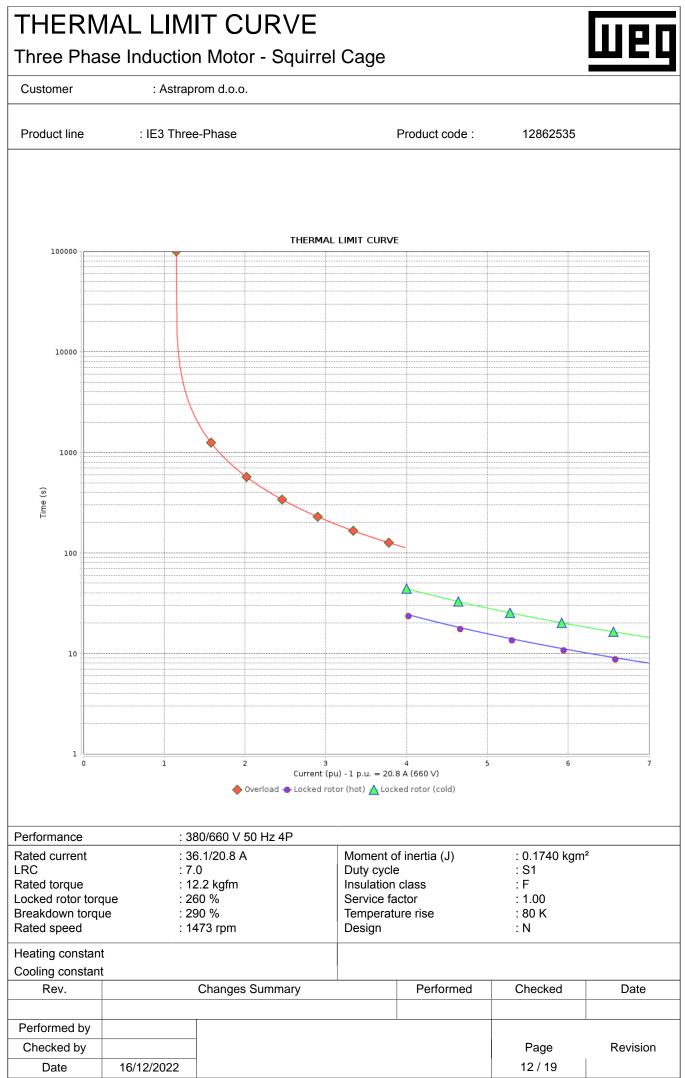


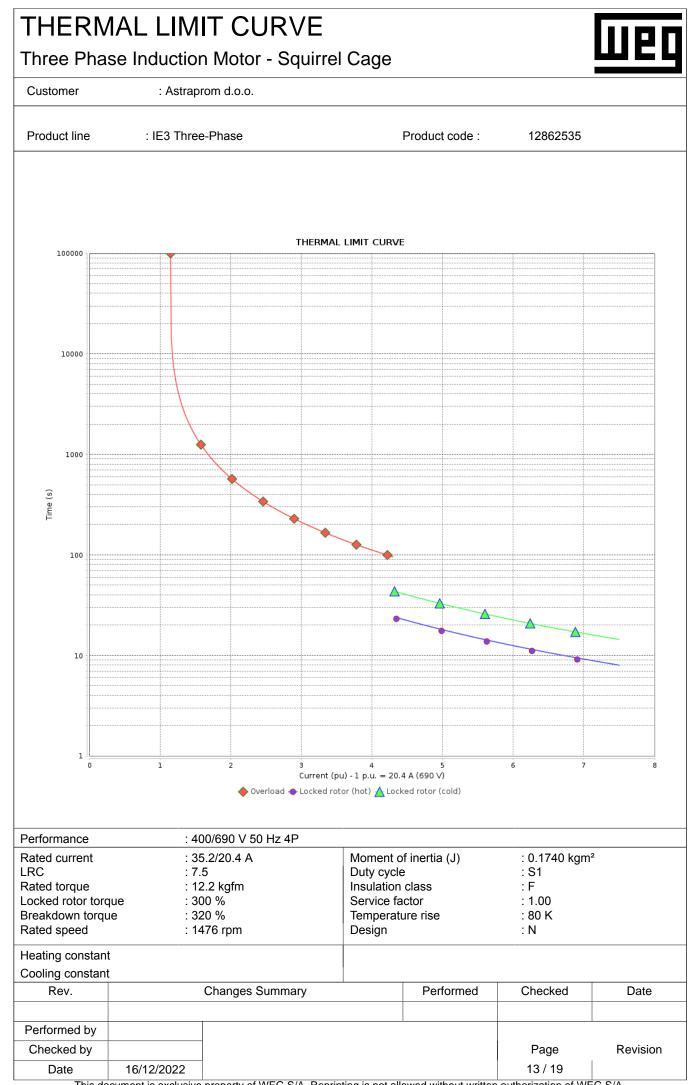
Performance	: 38	80/660 V 50 Hz 4P					
Rated current : 36		6.1/20.8 A	3 A Moment of inertia (J)		: 0.1740 kgm²		
LRC	LRC :7.		Duty	Duty cycle			
Rated torque :		2.2 kgfm Insulation		ation class	: F	: F	
Locked rotor tore	que : 20	260 % Serv		ce factor	: 1.00		
Breakdown torque		90 % Temperature rise		: 80 K			
Rated speed	: 14	473 rpm	Desig	gn	: N	: N	
Rev.		Changes Summary			Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	16/12/2022				8 / 19		

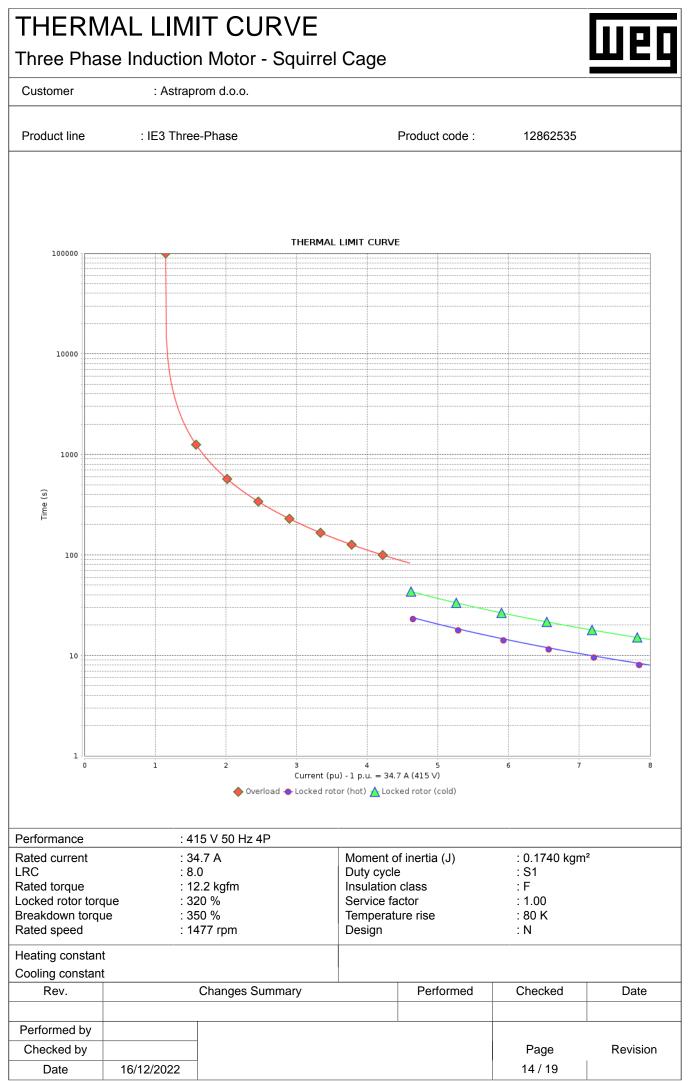


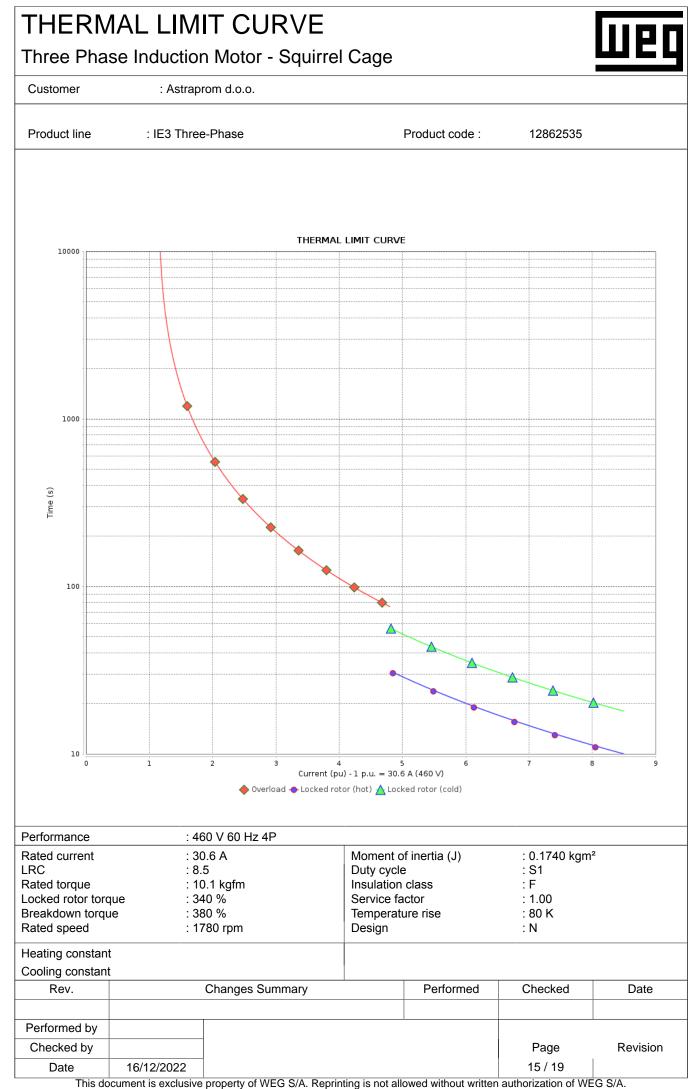


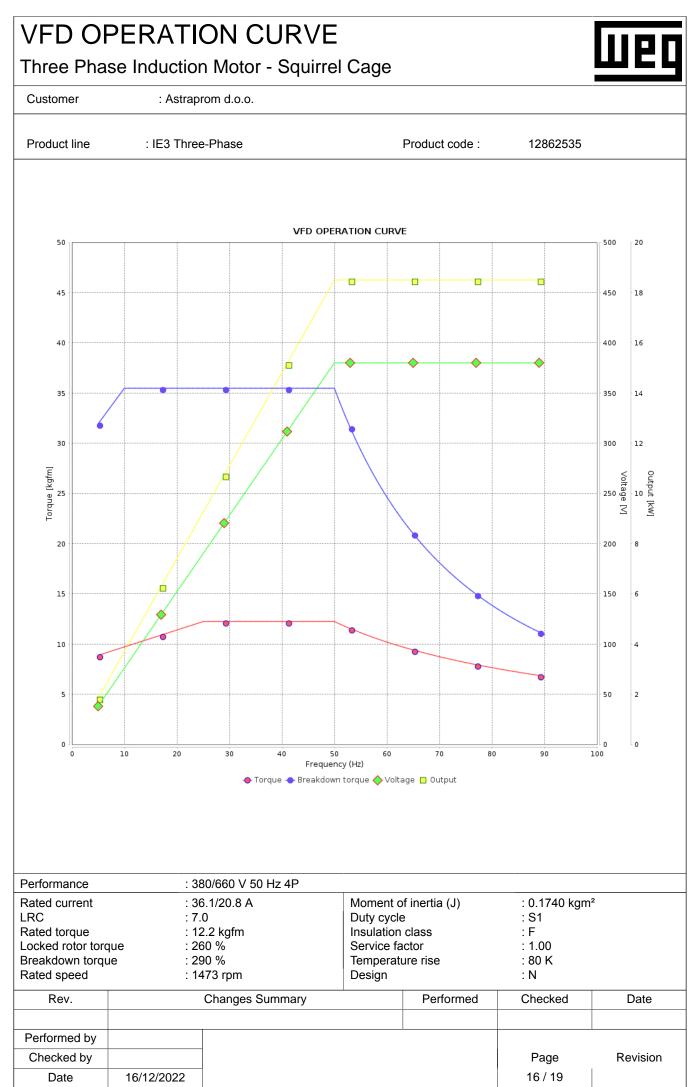


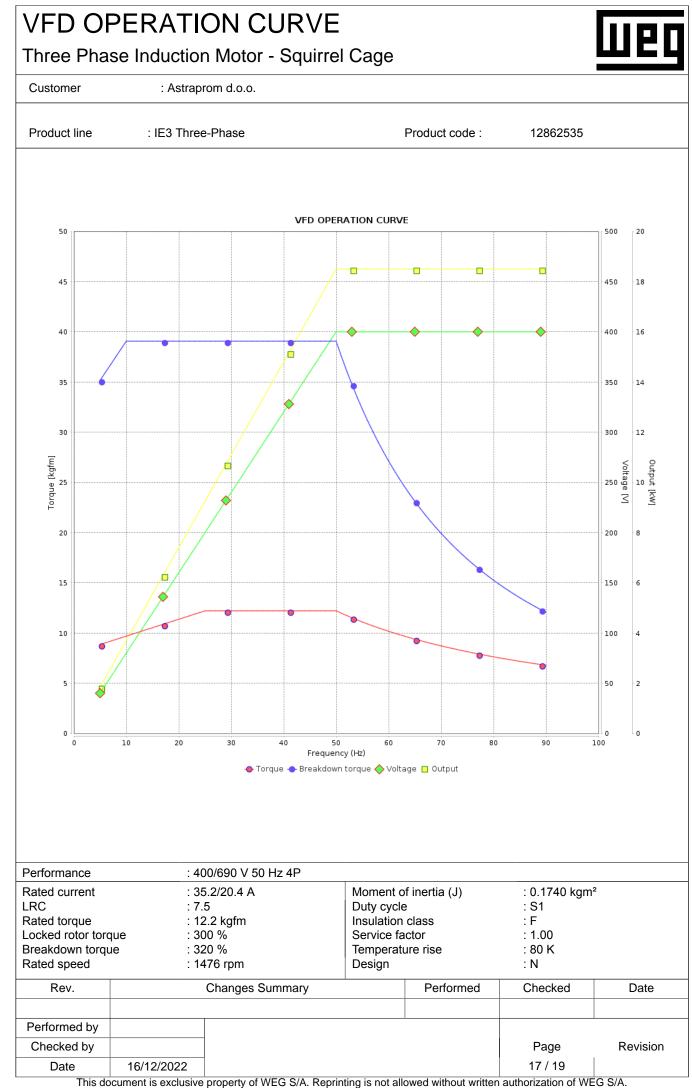


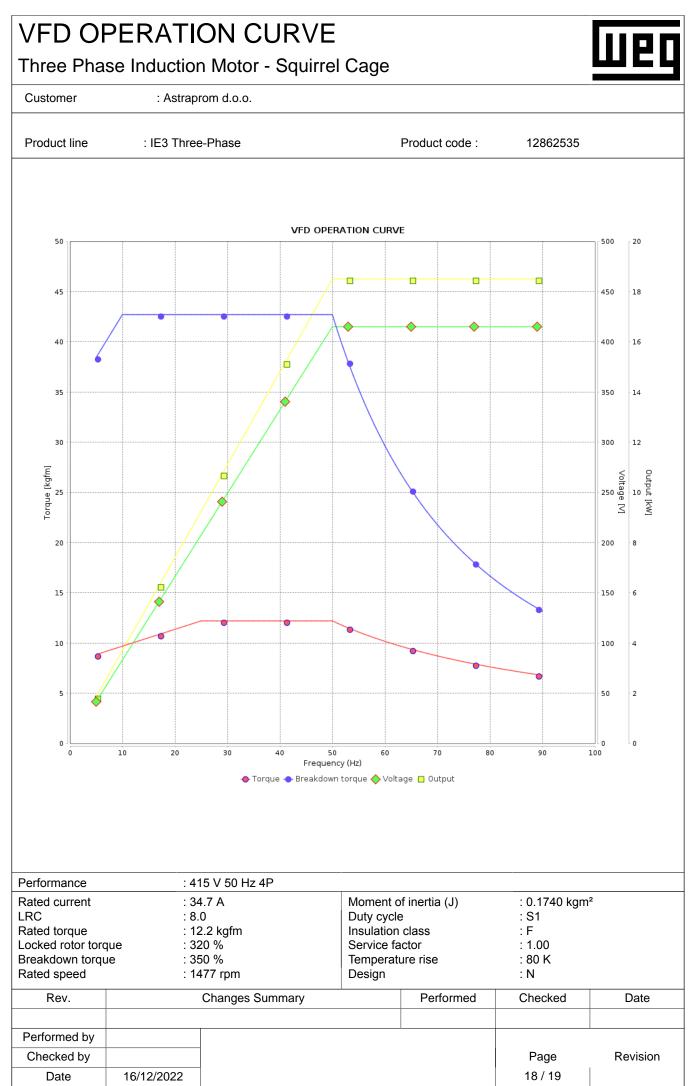


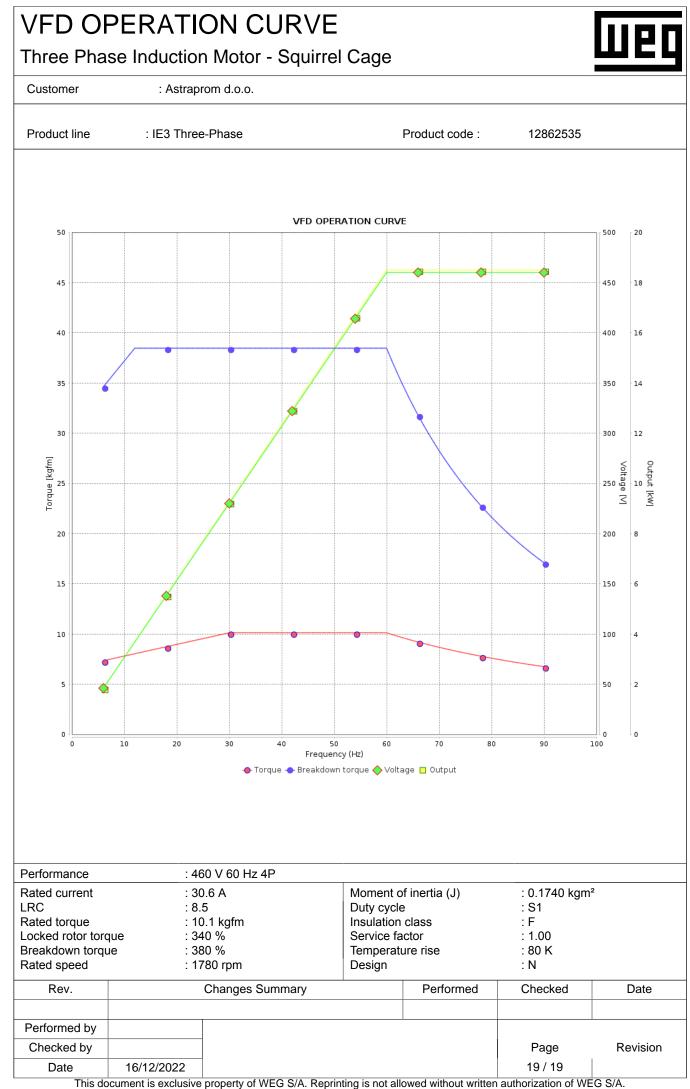












Subject to change without notice