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21 MARCH 2013

Dear Sir / Madam,

Reference Approval Number: e11*2002/24*1144*02

Communication of approvals in accordance with Directive 2002/24/EC.

Please find enclosed the above-mentioned document certifying the homologation of the vehicle in accordance with Directive 2002/24/EC.

Yours faithfully

A.W. STENNING
Head of Technical and Quality Group



VCA Headquarters
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THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING ~~TYPE-APPROVAL~~⁽¹⁾ / EXTENSION OF TYPE-APPROVAL⁽¹⁾ / -
~~REFUSAL OF TYPE-APPROVAL~~⁽⁴⁾ / WITHDRAWAL OF TYPE-APPROVAL⁽¹⁾ OF A TYPE OF
VEHICLE WITH REGARD TO DIRECTIVE 2002/24/EC AS LAST AMENDED BY COMMISSION
REGULATION (EU) NUMBER 1137/2008

Type-Approval Number: e11*2002/24*1144*02

Reason for extension: To cover:

- 1) Introduction new engines as alternative for variant 73,7E,7F,93,9E.
- 2) Introduction of 3 new brake pads as alternative.
- 3) Introduction of new rear shock absorber alternative
- 4) Introduction of new front fork as alternative.
- 5) Introduction of new antitheft device as alternative.
- 6) Introduction of 2 new grab handles as alternative.
- 7) Introduction of new front and rear tire.
- 8) Introduction of new rear view mirrors as alternative.
- 9) Removal of commercial names
- 10) Add drawings of motor controllers.
- 11) Change address manufacturer and assembly plant.
- 12) Editorial change of the information document
- 13) Corrections and document updating

0. GENERAL

0.1. Make(s) (trade name of the manufacturer): GOVECS

0.2. Type: 4E

0.2.1. Commercial name(s): Not applicable

0.3. Means of identification of type, if marked on the vehicle: VIN digits identification from the 4th until 8th digits

0.3.1. Location of that marking: Right side of the main frame

MWN267482



0.4. Category ⁽²⁾: L3e

0.5. Name and address of the vehicle manufacturer:

GOVECS POLAND Sp.z.o.o
Ul. Graniczna 8c
51-132 Wroclaw
Poland

0.5.1. Name(s) and address(es) of assembly plant(s):

GOVECS POLAND Sp.z.o.o
Ul. Graniczna 8c
51-132 Wroclaw
Poland

The undersigned hereby certifies the accuracy of the manufacturer's description in the attached information document of the vehicle type described above, for which one or several representative samples, selected by the competent approval authorities, has (have) been submitted as prototype(s) of the vehicle type and that the attached test results are applicable to the vehicle type.

The vehicle type meets ~~does not meet~~ ⁽⁴⁾ the technical requirements of all relevant separate Directives (as last amended) listed in the table of Annex I to Directive 2002/24/EC.

The approval is GRANTED ~~/ REFUSED / WITHDRAWN~~ ⁽⁴⁾

Place: BRISTOL

Signature:



A.W.STENNING
Head of Technical and Quality Support Group

Date: 21 MARCH 2013

Attachments:

Information document, Parts 1 and 2 (Annex II).

Test results (Annex VII).

Name(s) and specimen(s) of the signature of the persons authorised to sign the certificates of conformity and a statement of their position in the company.

A model certificate of conformity.

(1) Delete where not applicable

(2) According to the classification introduced in Article 1



VEHICLE CERTIFICATION AGENCY

ANNEX VII – TEST RESULTS

e11*2002/24*1144*02

(Article 5(1), first subparagraph)

(This sheet must be completed by the approval authority and be attached to the vehicle type approval certificate)

In each case, the information must make clear to which variant and version it is applicable. One version may not have more than one result.

1. Results of the sound level tests according to Directive 97/24/EC Chapter 9

Variant/version :	N/A
Moving dB(A) :	N/A
Stationary dB(A) :	N/A
at (min ⁻¹) :	N/A

2. Results of the exhaust emission tests according to Directive 97/24/EC Chapter 5 Annex II, as amended by 2009/108/EC

Variant/version :	N/A
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 - 2.1. Type I

CO (g/km) :	N/A
HC (g/km) (1) :	N/A
NOx (g/km) (1) :	N/A
HC + NOx (g/km) (2) :	N/A

 - 2.2. Type II

CO (g/min) (1) :	N/A
HC (g/min) (1) :	N/A
CO (% vol) at normal idle speed (2) :	N/A
Specify the idle speed (2) (3) :	N/A
CO (% vol) at high idle speed (2) :	N/A
Specify the idle speed (2) (3) :	N/A
Engine oil temperature (2) (4) :	N/A

3. Compression ignition engine : N/A

Variant/version :	N/A
Corrected value of absorption coefficient: (m ⁻¹)	N/A





THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

APPROVAL NUMBER: e11*2002/24*1144*02

INFORMATION PACKAGE CONTENTS

INDEX

REVISION NUMBER: 02 (Two)

Total number of sheets: 74 (Seventy Four)

Number of separate drawings: 0 (Nil)

Number of separate photographs: 0 (Nil)

Reasons for Revision: See approval certificate

MWN267482

Revision date
&
Office stamp

An executive agency of the Department for Transport
January 2013 Revision 2





VEHICLE CERTIFICATION
AGENCY

Vehicle Certification Agency, 1 The Eastgate Office Centre
Eastgate Road, Bristol, BS5 6XX, United Kingdom
Switchboard: 0117 951 5151
System and Component Section Fax: 0117 952 4163

**TEST REPORT: Whole Vehicle Type Approval 2 and 3 wheeled
vehicles and Quadricycles**

03-045

Report/Job Number: MWN267482

Page: 1 of 3

TEST DETAILS	
Subject	EC Whole Vehicle
EC Directive	2002/24/EC – 1137/2008/EC
ECE Regulation	N/A
Location of Test	Scarmagno (TO), Italy
Date of Test	19 and 20 of December 2012
VCA Representative	Luca Taschini
Manufacturer's Representative	Slawomir Kortas
Reason for Test	Introduction new engines as alternative for variant 73, 7E, 7F, 93, 9E. Introduction of 3 new brake pads as alternative. Introduction of new rear shock absorber as alternative. Introduction of new front fork as alternative. Introduction of new antitheft device as alternative. Introduction of 2 new grab handles as alternative. Introduction of new front and rear tire. Introduction of new rear view mirrors as alternative. Removal of commercial names. Add drawings of motor controllers. Change address of manufacturer and assembly plant. Editorial change of the information document. Corrections and document updating.

MANUFACTURER DETAILS	
Manufacturer's Name	GOVECS POLAND Sp. z.o.o.
Manufacturer's Address	Ul. Graniczna 8c 51-132 Wroclaw Poland
Model Type & description Category	Type 4E, variant/version 9E/1, 9E/2, 93/2, 73/1, 7E/1, 7F/1 Motorcycle, L3e

CONCLUSION
The above mentioned vehicle was tested in accordance with EC Directive 2002/24EC as amended and was found to comply in all respects Signature:  Name: Luca Taschini Position: Test Engineer Date: 04 March 2013

LIST OF ANNEXES		
ANNEX	No of PAGES	SUBJECT
1	--	Several reports
2	78	Information document e11_2002-24_1144 Edition 02

M/CWVTA ITEM 20 TR20



**Whole Vehicle Type Approval 2 and 3 wheeled
vehicles and Quadricycles**

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>	
	VERSION/VARIANT SELECTION RATIONALE: See attached test reports		
Test report number	Subject	Applicable to this vehicle category and configuration?	Complies
N/A	Maximum torque and maximum net power of the engine	Y	Conf.
N/A	Anti-tampering	Y	Conf.
N/A	Fuel tank	N/A	N/A
N/A	Maximum design speed	Y	Conf.
N/A	Masses and dimensions	Y	Conf.
N/A	Coupling devices	N/A	N/A
N/A	Anti air pollution measures	N/A	N/A
MSN267483	Tyres	Y	Conf.
MSN267484	Braking system	Y	Conf.
N/A	Lighting installation	Y	Conf.
N/A	Audible warning	Y	Conf.
N/A	Rear registration plate space	Y	Conf.
MSN267485	Electromagnetic compatibility	Y	Conf.
N/A	Sound levels	N/A	N/A
MSN271582	Rear view mirrors	Y	Conf.
N/A	External projections	Y	Conf.
N/A	Stands	Y	Conf.
MSN267480	Anti theft	Y	Conf.
N/A	Windows wipers & washer	N/A	N/A
MSN271669	Passenger hand holds	Y	Conf.

**Whole Vehicle Type Approval 2 and 3 wheeled
vehicles and Quadricycles**

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
N/A	Seat belt anchorages	N/A
N/A	Speedometer	Conf.
N/A	Identification of controls	Conf.
N/A	Statutory plates	Conf.



**TEST REPORT: FITTING OF TYRES TO TWO OR THREE WHEEL
MOTOR VEHICLES**

03-026

Report/Job Number: MSN267483

Page: 1 of 3

TEST DETAILS

Subject	FITTING OF TYRES TO TWO OR THREE WHEEL MOTOR VEHICLES
EC Directive	97/24/EC CHAPTER 1 – 2009/108/EC
ECE Regulation	N/A
Location of Test	Scarmagno (TO), Italy
Date of Test	19 and 20 of December 2012
VCA Representative	Luca Taschini
Manufacturer's Representative	Slawomir Kortas
Reason for Test	Introduction new engines as alternative for variant 73, 7E, 7F, 93, 9E. Introduction of 3 new brake pads as alternative. Introduction of new rear shock absorber as alternative. Introduction of new front fork as alternative. Introduction of new antitheft device as alternative. Introduction of 2 new grab handles as alternative. Introduction of new front and rear tire. Introduction of new rear view mirrors as alternative. Removal of commercial names. Add drawings of motor controllers. Change address of manufacturer and assembly plant. Editorial change of the information document. Corrections and document updating.

MANUFACTURER DETAILS

Manufacturer's Name	GOVECS POLAND Sp. z.o.o.
Manufacturer's Address	Ul. Graniczna 8c 51-132 Wroclaw Poland
Model Type & description Category	Type 4E, variant/version 9E/1, 9E/2, 93/2, 73/1, 7E/1, 7F/1 Motorcycle, L3e

CONCLUSION

The above mentioned vehicle was tested in accordance with EC Directive 97/24/EC CHAPTER 1 as last amended by 2009/108/EC and was found to comply in all respects

Signature:


Name: Luca Taschini
Position: Test Engineer
Date: 04 March 2013

**TEST REPORT: FITTING OF TYRES TO TWO OR
THREE WHEEL MOTOR VEHICLES**

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
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LIST OF ANNEXES		
ANNEX	No of PAGES	SUBJECT
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<p>TEST SPECIFICATION/WORST CASE RATIONALE: Tested variant/version 7F/1 which has maximum design speed of 83 km/h, and variant/version 9E/1 which has maximum weight.</p>

- | | | |
|---|--|-----|
| 1 | Risk assessment completed and stored in job folder | Yes |
| 2 | Facilities and test equipments are appropriate | Yes |
| 3 | Calibration certificates checked and valid, recorded below | |

Equipment	Serial No.	Calibration data

Manufacturer's documentation complete Yes

MAXIMUM AXLE WEIGHT (variant 9E): FRONT: 121 kg; REAR: 176 kg

MAXIMUM SPEED (variant 7F): 83 km/h

Details of tyres fitted to vehicle:

	Size	LCI	Load kg	Speed Rating	Speed km/h	Approval No:
Front Axle	120/60-13	53	206	J	100	--
Rear Axle	120/60-13	53	206	J	100	--
Spare	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.



**TEST REPORT: FITTING OF TYRES TO TWO OR
THREE WHEEL MOTOR VEHICLES**

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
Annex III	REQUIREMENTS FOR VEHICLES WITH REGARD TO THE FITTING OF THEIR TYRES:	
1.1	General Subject to the provisions of section 2 every tyre fitted to a vehicle, including any spare, must bear the EC component type-approval mark (97/24) or the type-approval mark indicating compliance with ECE Regulation Nos: 30, 54, 64 or 75 as referred to in Article 4 of this Directive	----- Yes -----
1.2	Tyre fitment	
1.2.1	All of the tyres fitted to a vehicle must have the same speed categories symbol (Annex II 1.1.5)	----- Yes -----
1.2.2	All of the tyres fitted to one axle must be of the same type (see Annex II, section 1.1)	----- Yes -----
1.2.3	The space in which the wheel revolves must be such as to allow unrestricted movement when using the maximum permissible size of tyres within the suspension and steering constraints provided by the vehicle manufacturer	----- Yes -----
2	Special Cases:	
2.1	Motorcycles with side car, three wheel mopeds, tricycles and quadricycles may be fitted with tyres approved to 92/23/EC	N.A.
2.2	Mopeds, motorcycles type may be fitted	N.A.
2.3	Types for special conditions fitted? Give details:	----- N.A. -----
2.4	Types for special conditions fitted to low performance mopeds (Annex 1 92/61/EC) Give details:	----- N.A. -----



TEST REPORT: Braking of two or three wheel motor vehicles

03-032 rev1

Report/Job Number: MSN267484

Page: 1 of 12

TEST DETAILS	
Subject	Braking of two or three wheel motor vehicles
EC Directive	93/14/EEC – 2006/27/EC
ECE Regulation	78.02
Location of Test	Scarmagno (TO), Italy
Date of Test	19 and 20 of December 2012
VCA Representative	Luca Taschini
Manufacturer's Representative	Slawomir Kortas
Reason for Test	Introduction new engines as alternative for variant 73, 7E, 7F, 93, 9E. Introduction of 3 new brake pads as alternative. Introduction of new rear shock absorber as alternative. Introduction of new front fork as alternative. Introduction of new front and rear tire. Removal of commercial names. Editorial change of the information document. Corrections and document updating.

MANUFACTURER DETAILS	
Manufacturer's Name	GOVECS POLAND Sp. z.o.o.
Manufacturer's Address	Ul. Graniczna 8c 51-132 Wroclaw Poland
Model Type & description	Type 4E, variant/version 9E/1, 9E/2, 93/2, 73/1, 7E/1, 7F/1
Category	Motorcycle, L3e

CONCLUSION
The above mentioned vehicle was tested in accordance with EC Directive 93/14/EEC as amended by 2006/27/EC and ECE Regulation 78.02 and was found to comply in all respects
Signature: 
Name: Luca Taschini
Position: Test Engineer
Date: 04 March 2013

LIST OF ANNEXES		
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TEST REPORT: Braking of two or three wheel motor vehicles

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
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TEST SPECIFICATION/WORST CASE RATIONALE:

It has been tested vehicle variant/version 7F/1 because equipped with all new devices and because it has the greater maximum speed. Only the front brake system has been tested because front and rear device are identical.

All known variants and versions of the this type are covered by this test report.

1	Risk assessment completed and stored in job folder	<u>Yes</u>
2	Facilities and test equipments are appropriate	<u>Yes</u>
3	Calibration certificates checked and valid, recorded below	

Equipment	Serial No.	Calibration data
Speed, distance, MFDD measurement:	AIM Type Evo 3 Pro n°1200369	30/08/2011
Lever effort measurement:	Futek (DSPM) Type LLB250(L1615) n°267293 and 78600	30/08/2011
Wet brake equipment:	TUV wet-brakes equipment	N/A
Weigh equipment:	3 Kg	

TEST SPECIFICATION:

ENGINE: SME1422815
GEARBOX: Automatic
CATEGORY: L3e

VEHICLE :

FRONT AXLE TYRES:
- SIZE 130/60-13 60M
- PRESSURE (bar) 2,2
- ROLLING CIRCUMFERENCE 1467
(mm)
- TREAD DEPTH (mm) 5

REAR AXLE TYRES:
- SIZE 130/60-13 60M
- PRESSURE (bar) 2,2
- ROLLING CIRCUMFERENCE 1467
(mm)
- TREAD DEPTH (mm) 5

TEST REPORT: Braking of two or three wheel motor vehicles

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
	<u>BRAKE SYSTEM:</u>	
- FRONT AXLE (Disc/drum & dia, number/axle, piston sizes, master cyl dia, lever ratios, hand or foot)	190mm single disc 1 piston diameter 30,2mm 222mm lever with master cylinder diameter 12,7mm Right hand operated	
- FRONT BRAKE MATERIAL	Nr.3 different equipment. See information document drawings DWG12.2, DWG12.3, DWG12.4.	
- REAR AXLE (Disc/drum & dia, number/axle, piston sizes, master cyl dia, lever ratios, hand or foot)	Not tested	
- REAR BRAKE MATERIAL	Not tested	
- PARK BRAKE (Hand/foot, axle, brake type, dia, lever ratios)	N.A.	
FRONT/REAR INDEPENDENT OR SPLIT SYSTEM	N.A.	
- ANY BRAKE DISTRIBUTION VALVE?	No	
- ABS?	No	

TEST SPECIFICATION/ WORST CASE RATIONALE:

Manufacturer's documentation complete Yes

GENERAL CHECKS (STATICS)

Vehicle is as specified in documentation Yes

2 Systems correctly mounted, made of suitable materials and fitted with locking devices where necessary Yes

3.1.1.2 Brake linings asbestos free
(Declared on drawings or confirmed by material manufacturer) Yes

2.2.1 Two independent braking devices with independent controls(L1e, L2e, L3e, L4e, L6e category)
OR Yes

2.2.3.2 a service braking device which operates on all the wheels and a secondary braking device (L2e, L6e, L7e) N.A.

Brief details:

(i.e. foot operated service brake acting on all wheels – see spec on page 2)



TEST REPORT: Braking of two or three wheel motor vehicles

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
2.2.2	Brake acting on sidecar wheel (L4e) if required	N.A.
2.2.4.1	Foot controlled service brake acting on all wheels, and a secondary braking device (L5e,L6e,L7e)	N.A.
	Brief details (i.e. foot operated service brake acting on all wheels – see spec on page 2)	N.A.
2.1.2.1	Front and rear braking possible with both hands on the steering control	Yes
2.2.2	Parking brake device (L2e, L5e, L6e, L7e) acting on wheels of at least one axle and with: independent control of service brake control (L5e, L6e, L7e) or independent of braking device acting on other axle(s) (L2e,L6e)	N.A.
2.1.2.3	Parking braking possible from normal driving position	N.A.
2.1.2.3	Parking brake held on by PURELY mechanical device (L2e, L5e, L6e, L7e) {no hydraulic element allowed}	N.A.
2.2.5	The braking devices must act on braking surfaces attached to wheels	Yes
2.2.5	Parts amply dimensioned and readily accessible	Yes
2.2.7.1	Means of adjustment accessible and lever ratios appropriate for reserve travel. (Apply the maximum allowed lever force – there must be more travel available)	Yes
2.2.7	Brakes operate freely	Yes
2.1.2.1	Brakes graduable	Yes
2.2.7.3	Brake components do not contact anything other than intended parts	Yes

TEST REPORT: Braking of two or three wheel motor vehicles

Paragraph	Parameter	Complies
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DYNAMIC TESTING

Mass (kg)

Load Condition	Front Axle(s)	Rear Axle(s)	GVW
Laden ⁺⁺	107 Kg	164 Kg	271 Kg
Unladen [*]	88 Kg	110 Kg	198 Kg

* Includes mass of rider, and test equipment, maybe higher than running order with rider weight due to equipment weight.

** If unladen test mass is close to laden GVW testing may only be needed in one condition. The laden requirements must be met.

EQUIPMENT 1: brake pads as described in drawing DWG12.2

UNLADEN TESTS

Brake system and Load Condition		Nom Speed km/h	Recd Speed km/h	Recd Dist m	Distance corrected for speed m	Recd MFDD m/sec ²	Recd line pressure or control effort bar/daN
Front (Or Service)	U	60	62	--	--	4,7	12,3
LIMITS FRONT	U	60	--	--	--	4.4	20.0

1.2.1.1 Record Distance and MFDD, both limits must be met.

Comment stability during connect stops: The tests and measurements carried out have shown the stable behaviour of the vehicle.

SPECIAL TYPE 'O' WET TEST - L1e, L2e, L3e AND L4e Exposed disc brakes							
	Brake system and Load condition		Nom Speed km/h	Recd Speed km/h		Deceleration m/s ²	Recd line pressure or control effort bar/daN
D R Y	Front	U	60	60	MFDD 0.5 to 1.0 sec window	2,5	6,1
W E T	Front	U	60	60	MFDD 0.5 to 1.0 sec window	2,8	6,2

TEST REPORT: Braking of two or three wheel motor vehicles

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
	Mean deceleration wet test at least 60% of dry reference (in 0.5 – 1.0 second window)	Front Rear
		Yes Yes
	Deceleration during wet test never more than 120% of dry reference	Front Rear
		Yes Yes

LADEN TESTS

PARKING BRAKE GRADIENT TEST

N.A.

Vehicle GVW on 18 % hill

Gradient used %	Facing	Control Force	Limit	Complies
N.A.	UP	N.A.	N.A.	N.A.
N.A.	DOWN	N.A.	N.A.	N.A.

LADEN TESTS

Brake system and Load Condition		Nom Speed km/h	Recd Speed km/h	Recd Dist m	Distance corrected for speed m	Recd MFDD m/sec ²	Recd line pressure or control effort bar/daN
Front (Or Service)	L	60	61	--	--	4,6	12,3
LIMITS FRONT	L	60	--	--	--	4.4	20.0

1.2.1.1 Record Distance and MFDD, both limits must be met.

TEST REPORT: Braking of two or three wheel motor vehicles

Paragraph	Parameter	Complies
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EQUIPMENT 2: brake pads as described in drawing DWG12.3

UNLADEN TESTS

Brake system and Load Condition		Nom Speed km/h	Recd Speed km/h	Recd Dist m	Distance corrected for speed m	Recd MFDD m/sec ²	Recd line pressure or control effort bar/daN
Front (Or Service)	U	60	60	--	--	4,8	11,9
LIMITS FRONT	U	60	--	--	--	4.4	20.0

1.2.1.1 Record Distance and MFDD, both limits must be met.

Comment stability during connect stops: The tests and measurements carried out have shown the stable behaviour of the vehicle.

SPECIAL TYPE `O` WET TEST - L1e, L2e, L3e AND L4e Exposed disc brakes							
	Brake system and Load condition		Nom Speed km/h	Recd Speed km/h		Deceleration m/s ²	Recd line pressure or control effort bar/daN
D R Y	Front	U	60	59	MFDD 0.5 to 1.0 sec window	2,4	7,0
W E T	Front	U	60	61	MFDD 0.5 to 1.0 sec window	2,7	7,2

Mean deceleration wet test at least 60% of dry reference (in 0.5 – 1.0 second window)

Front

Yes

Rear

Yes

Deceleration during wet test never more than 120% of dry reference

Front

Yes

Rear

Yes



TEST REPORT: Braking of two or three wheel motor vehicles

Paragraph	Parameter	Complies
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LADEN TESTS

PARKING BRAKE GRADIENT TEST
Vehicle GVW on 18 % hill N.A.

Gradient used %	Facing	Control Force	Limit	Complies
N.A.	UP	N.A.	N.A.	N.A.
N.A.	DOWN	N.A.	N.A.	N.A.

LADEN TESTS

Brake system and Load Condition		Nom Speed km/h	Recd Speed km/h	Recd Dist m	Distance corrected for speed m	Recd MFDD m/sec ²	Recd line pressure or control effort bar/daN
Front (Or Service)	L	60	60	--	--	4,8	13,8
LIMITS FRONT	L	60	--	--	--	4.4	20.0

1.2.1.1 Record Distance and MFDD, both limits must be met.

TYPE I TEST: COLD REFERENCE TEST (LADEN) L3 L4, L5, L7

(Type O result can be used, or a lower effort cold reference to avoid wheel lock on hot stop if performance improves)

Brake system and Load condition	Nom Speed km/h	Recd Speed km/h	Recd Dist m	Distance corrected for speed m	MFDD m/sec ²	Recd line pressure or control effort bar/daN
Front	60	60	--	--	4,8	13,8

TYPE I FADE TEST

FRONT BRAKE

Speed V km/h Interval Distance 1000 m 58 km/h
 Number of applications: 10 Control effort for repeated braking:
 Front 3,6 daN (Force to give MFDD of 3.0)

Time elapsed between last fade application and hot Type 'O' test secs



TEST REPORT: Braking of two or three wheel motor vehicles

Paragraph	Parameter	Complies
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		Nom Speed km/h	Recd Speed km/h	Recd Dist m	Distance corrected for speed m	Recd AV Decel m/sec ²	Recd line pressure or control effort bar/daN
HOT Type 'O'	F	60	60	--	--	4,1	13,5
Limit: 60% of cold reference	F	60	--	--	--	2,9	20,0

EQUIPMENT 3: brake pads as described in drawing DWG12.4

UNLADEN TESTS

Brake system and Load Condition		Nom Speed km/h	Recd Speed km/h	Recd Dist m	Distance corrected for speed m	Recd MFDD m/sec ²	Recd line pressure or control effort bar/daN
Front (Or Service)	U	60	59	--	--	4,9	14,7
LIMITS FRONT	U	60	--	--	--	4.4	20.0

1.2.1.1 Record Distance and MFDD, both limits must be met.

Comment stability during connect stops: The tests and measurements carried out have shown the stable behaviour of the vehicle.

SPECIAL TYPE 'O' WET TEST - L1e, L2e, L3e AND L4e Exposed disc brakes							
	Brake system and Load condition		Nom Speed km/h	Recd Speed km/h		Deceleration m/s ²	Recd line pressure or control effort bar/daN
D R Y	Front	U	60	61	MFDD 0.5 to 1.0 sec window	2,5	5,9
W E T	Front	U	60	60	MFDD 0.5 to 1.0 sec window	2,4	6,0

TEST REPORT: Braking of two or three wheel motor vehicles

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
	Mean deceleration wet test at least 60% of dry reference (in 0.5 – 1.0 second window)	Front Rear
		Yes Yes
	Deceleration during wet test never more than 120% of dry reference	Front Rear
		Yes Yes

LADEN TESTS

PARKING BRAKE GRADIENT TEST

N.A.

Vehicle GVW on 18 % hill

Gradient used %	Facing	Control Force	Limit	Complies
N.A.	UP	N.A.	N.A.	N.A.
N.A.	DOWN	N.A.	N.A.	N.A.

LADEN TESTS

Brake system and Load Condition		Nom Speed km/h	Recd Speed km/h	Recd Dist m	Distance corrected for speed m	Recd MFDD m/sec ²	Recd line pressure or control effort bar/daN
Front (Or Service)	L	60	59	--	--	4,7	15,1
LIMITS FRONT	L	60	--	--	--	4.4	20.0

1.2.1.1 Record Distance and MFDD, both limits must be met.

TYPE I TEST: COLD REFERENCE TEST (LADEN) L3 L4, L5, L7

(Type O result can be used, or a lower effort cold reference to avoid wheel lock on hot stop if performance improves)

Brake system and Load condition	Nom Speed km/h	Recd Speed km/h	Recd Dist m	Distance corrected for speed m	MFDD m/sec ²	Recd line pressure or control effort bar/daN
Front	60	59	--	--	4,7	15,1

TEST REPORT: Braking of two or three wheel motor vehicles

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>	
	TYPE I FADE TEST		
	FRONT BRAKE		
	Speed V km/h Number of applications: 10	Interval Distance 1000 m Control effort for repeated braking: Front 4,0 daN (Force to give MFDD of 3.0)	58 km/h
	Time elapsed between last fade application and hot Type `O` test secs		N.A.

		Nom Speed km/h	Recd Speed km/h	Recd Dist m	Distance corrected for speed m	Recd AV Decel m/sec ²	Recd line pressure or control effort bar/daN
HOT Type `O`	F	60	60	--	--	4,4	14,2
Limit: 60% of cold reference	F	60	--	--	--	2,8	20,0

Conditions during dynamic testing:

Wind speed	N.A.	Ambient temperature °C	9 °C
Brakes were not binding or rubbing at ambient temperature			Yes
Subjective assessment of the handling and stability during braking, and the progressive action of the controls etc:			Yes



TEST REPORT: **RADIO INTERFERENCE (ELECTROMAGNETIC**
03-042 **COMPATIBILITY) - VEHICLE TEST**

Report/Job Number: MSN267485

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TEST DETAILS	
Subject	ELECTROMAGNETIC COMPATIBILITY - VEHICLE TEST
EC Directive	97/24 Chapter 8 – 2009/108/EC
ECE Regulation	N/A
Location of Test	Scarmagno (TO), Italy
Date of Test	19 and 20 of December 2012
VCA Representative	Luca Taschini
Manufacturer's Representative	Slawomir Kortas
Reason for Test	Introduction new engines as alternative for variant 73, 7E, 7F, 93, 9E. Introduction of 3 new brake pads as alternative. Introduction of new rear shock absorber as alternative. Introduction of new front fork as alternative. Introduction of new antitheft device as alternative. Introduction of 2 new grab handles as alternative. Introduction of new front and rear tire. Introduction of new rear view mirrors as alternative. Removal of commercial names. Add drawings of motor controllers. Change address of manufacturer and assembly plant. Editorial change of the information document. Corrections and document updating.

MANUFACTURER DETAILS	
Manufacturer's Name	GOVECS POLAND Sp. z.o.o.
Manufacturer's Address	Ul. Graniczna 8c 51-132 Wroclaw Poland
Model Type & description	Type 4E, variant/version 9E/1, 9E/2, 93/2, 73/1, 7E/1, 7F/1
Category	Motorcycle, L3e

CONCLUSION
The above mentioned vehicle was tested in accordance with EC Directive 2002/24EC as amended and was found to comply in all respects Signature:  Name: Luca Taschini Position: Test Engineer Date: 04 March 2013

LIST OF ANNEXES		
ANNEX	No of PAGES	SUBJECT



**TEST REPORT: RADIO INTERFERENCE
(ELECTROMAGNETIC COMPATIBILITY)**

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
------------------	------------------	-----------------

TEST SPECIFICATION/WORST CASE RATIONALE: It has been tested vehicle variant/version 7E/1 because equipped with all new devices.

- | | | |
|---|--|-----|
| 1 | Risk assessment completed and stored in job folder | Yes |
| 2 | Facilities and test equipments are appropriate | Yes |
| 3 | Calibration certificates checked and valid, recorded below | |

Equipment	Serial No.	Calibration data
Semianechoic room SIEMENS 20x11x8 m	N/A	N/A
Test Receiver Rohde&Schwarz ESU26	100188	17/01/2012
Biconical antenna EMCO 3110B	9408-1910	21/05/2012
Log-Periodic Antenna Electro Metrix LPA-25	1117	10/08/2010
Amplifier IFI M406	60821	N/A
Amplifier A/R Mod. 500W 1000A 80-1000 MHz	304066	N/A
Signal Generator Rhode&Schwarz SMR 20	101684	08/11/2011
Power meter Rhode&Schwarz NRVS	841954/007	28/11/2011
Directional Coupler Amplifier research DC6180	14108	19/01/2012
Directional Coupler Amplifier research DC2000	14209	30/01/2012
Antenna Log-periodica A/R Mod.AT 6026A	0329912	N/A
Isotropic Sensore Narda EMC 300 + Type 9.2	C0008 + W0031	14/02/2012

Documentation complete

Vehicle corresponds to that agreed in worst-case meeting



**TEST REPORT: RADIO INTERFERENCE
(ELECTROMAGNETIC COMPATIBILITY)**

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
II & III	EMISSIONS	
	Measuring equipment complies with CISPR 16-1(93)	<u>Yes</u>
	Type and calibration date:	<u>See table</u>
	TEST LOCATION:	
	O.A.T.S. Is level, clear area free from electromagnetic reflecting surfaces within a circle of minimum radius 30m	<u>Semi-anechoic chamber</u>
	Measuring equipment within test site but only in permitted region (See Figure 1)	<u>Yes</u>
	Ambient noise at least 10 dB below reference limits	<u>Yes</u>
	ANTENNA	
	Types and calibration dates:	<u>See table</u>
	Height and distance: 3 m and 10 m OR 1.8 m and 3 m	<u>N/A</u> <u>Yes</u>
	Antenna's receiving elements no closer than 0.25m to the plane on which the vehicle rests	<u>Yes</u>
	If enclosed test facility is used, antenna's receiving elements no closer than 1.0m to any radio absorbent material or closer than 1.5m to the wall of facility	<u>Yes</u>
	No absorbent material between receiving antenna and vehicle	<u>Yes</u>
	Pre-test sweep supplied to show compliance throughout frequency range 30 to 1000 MHz	<u>Yes</u>
	Test frequencies chosen from pre-test data	<u>Yes</u>

**TEST REPORT: RADIO INTERFERENCE
(ELECTROMAGNETIC COMPATIBILITY)**

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
V	NARROWBAND TEST	
	Initial test carried out	<u>Yes</u>
	Ignition switched on	<u>Yes</u>
	Electronic systems in normal operating mode	<u>Yes</u>
	Comments:	
	Detector used and bandwidth	<u>Yes</u>

TEST REPORT: 03-042 **RADIO INTERFERENCE (ELECTROMAGNETIC
COMPATIBILITY) - VEHICLE TEST**

Report/Job Number: MSN267485

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Electric motorcycle type 4E, variant 7F, equipped with engine type AMK6143 - NARROWBAND TEST RESULTS

Frequency Range (MHz)	Frequency (MHz)	Left Hand Side		Right Hand Side		Correction Factor dB (μ V/m)	Maximum Value dB (μ V/m)	Limit dB (μ V/m)
		Horizontal dB (μ V/m)	Vertical dB (μ V/m)	Horizontal dB (μ V/m)	Vertical dB (μ V/m)			
30 - 45	36,5	25	26	22,7	27	Already included in the results	27	34,0
45 - 80	62,6	28	29	25	28,6	Already included in the results	29	34,0
80 - 130	112	25	27	22	27	Already included in the results	27	34,8
130 - 170	170	25	24	20	25	Already included in the results	25	35,2
170 - 225	224	20	20	21	20	Already included in the results	22	38,7
225 - 300	287	22	25	25	27	Already included in the results	27	39,5
300 - 400	349	25	27	26,5	27	Already included in the results	27	41,4
400 - 525	500	27	27	28	27	Already included in the results	28	45,0
525 - 700	600	35	35	33	36,5	Already included in the results	36,5	45,0
700 - 850	830	33	33	34	35	Already included in the results	35	45,0
850 - 1000	966	37	35	36	37	Already included in the results	37	45,0

TEST REPORT: RADIO INTERFERENCE
(ELECTROMAGNETIC COMPATIBILITY)

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
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Electric motorcycle type 4E, variant 7F, equipped with engine type TSB13492D - NARROWBAND TEST RESULTS

Frequency Range (MHz)	Frequency (MHz)	Left Hand Side		Right Hand Side		Correction Factor dB (μ V/m)	Maximum Value dB (μ V/m)	Limit dB (μ V/m)
		Horizontal dB (μ V/m)	Vertical dB (μ V/m)	Horizontal dB (μ V/m)	Vertical dB (μ V/m)			
30 - 45	44,5	20	25	21	29	Already included in the results	29	34,0
45 - 80	66,6	21	28	25	30	Already included in the results	30	34,0
80 - 130	83,4	20	27	23	27	Already included in the results	27	35,2
130 - 170	144,0	23	22	23	24	Already included in the results	24	38,7
170 - 225	198,9	20	22	22	22	Already included in the results	22	39,8
225 - 300	300,0	25	26	26	24	Already included in the results	26	41,1
300 - 400	349,7	25	25	28	25	Already included in the results	28	43,1
400 - 525	496,6	30	29	31	27	Already included in the results	31	45,0
525 - 700	695,0	31	30	30	34	Already included in the results	34	45,0
700 - 850	784,8	34	33	34	34	Already included in the results	34	45,0
850 - 1000	894,0	37	35	38	37	Already included in the results	38	45,0

TEST REPORT: **RADIO INTERFERENCE (ELECTROMAGNETIC**
03-042 **COMPATIBILITY) - VEHICLE TEST**

Report/Job Number: MSN267485

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IV BROADBAND TEST - SEE ANNEX 2 FOR TEST RESULTS

Engine is at normal operating temperature and running at correct speed

~~Single cylinder 2500rpm +/- 10%~~

~~> one cylinder 1500rpm +/- 10%~~

Electric motors 75% of maximum operating power

Yes

Speed setting mechanism not influencing electromagnetic radiation

Yes

Other sources of broadband noise at maximum current drain

No

List:

Detector used and bandwidth

Yes

**TEST REPORT: RADIO INTERFERENCE (ELECTROMAGNETIC
COMPATIBILITY) - VEHICLE TEST**

03-042

Report/Job Number: MSN267485

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Electric motorcycle type 4E, variant 7F, equipped with engine type AMK6143 - BROADBAND TEST RESULTS

Frequency Suggested (MHz)	Frequency (MHz)	Left Hand Side		Right Hand Side		Correction Factor dB (μ V/m)	Maximum Value dB (μ V/m)	Limit dB (μ V/m)
		Horizontal dB (μ V/m)	Vertical dB (μ V/m)	Horizontal dB (μ V/m)	Vertical dB (μ V/m)			
45	45	22	24	18	25	Already included in the results	25	44,0
65	65	25	27	23	30	Already included in the results	30	44,0
90	90	19	23	20	24	Already included in the results	24	45,2
150	150	20	20	21	20	Already included in the results	21	48,7
180	180	18	19	19	20	Already included in the results	20	49,8
220	220	20	20	18	20	Already included in the results	20	51,1
300	300	20	20	22	20	Already included in the results	22	53,1
450	450	22	20	25	22	Already included in the results	25	55,0
600	600	34	35	32	35	Already included in the results	35	55,0
750	750	28	30	30	30	Already included in the results	30	55,0
900	900	31	30	33	33	Already included in the results	33	55,0

TEST REPORT: RADIO INTERFERENCE
(ELECTROMAGNETIC COMPATIBILITY)

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
------------------	------------------	-----------------

Electric motorcycle type 4E, variant 7F, equipped with engine type TSB13492D - BROADBAND TEST RESULTS

Frequency Suggested (MHz)	Frequency (MHz)	Left Hand Side		Right Hand Side		Correction Factor dB (μ V/m)	Maximum Value dB (μ V/m)	Limit dB (μ V/m)
		Horizontal dB (μ V/m)	Vertical dB (μ V/m)	Horizontal dB (μ V/m)	Vertical dB (μ V/m)			
45	45	23	26	25	23	Already included in the results	26	44,0
65	65	25	26	24	28	Already included in the results	28	44,0
90	90	20	24	22	24	Already included in the results	24	45,2
150	150	20	20	19	20	Already included in the results	20	48,7
180	180	20	22	21	20	Already included in the results	22	49,8
220	220	22	23	19	20	Already included in the results	23	51,1
300	300	22	24	20	22	Already included in the results	24	53,1
450	450	24	26	21	25	Already included in the results	26	55,0
600	600	30	31	30	33	Already included in the results	33	55,0
750	750	30	32	30	30	Already included in the results	32	55,0
900	900	34	36	32	33	Already included in the results	36	55,0

TEST REPORT: 03-042 **RADIO INTERFERENCE (ELECTROMAGNETIC COMPATIBILITY) - VEHICLE TEST**

Report/Job Number: MSN267485

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IV IMMUNITY

TEST FACILITY DESIGNATION/NO:

CALIBRATION: Date:

Antenna type(s) and frequency range(s): Log-periodica A/R mod. AT 6026A – 26 Mhz, 6 Ghz (serial number 0329912)

Antenna polarization - Vertical

Antenna height - 1,8 m

Antenna elements no closer than 0.25 m to plane on which vehicle rests Yes

and no closer than 1.0 m to any absorber Yes

and no closer than 1.5 m to any wall Yes

No absorbent material between antenna and vehicle Yes

REFERENCE POINT

- as Appendix 1 or 2 - as Appendix 2

- distance from antenna - 3 m

- on vehicle centre line Yes

- height $1.0 \pm 0.05\text{m}$ or $2.0 \pm 0.05\text{m}$ - $1.0 \pm 0.05\text{m}$

Extraneous equipment in place during calibration No

Forward power used to define test field Yes

OR another parameter directly related No

Calibration steps $\leq 2\%$ of previous frequency Yes

Field strength contour minimum 50% of nominal in minimum 80% of calibration steps Yes



**TEST REPORT: RADIO INTERFERENCE
(ELECTROMAGNETIC COMPATIBILITY)**

<i>Paragraph</i>	<i>Parameter</i>	<i>Compliance</i>
TEST ARRANGEMENTS		
	Vehicle	
	- unladen except test equipment	<u>Yes</u>
	- on appropriately loaded dynamometer	<u>No</u>
	- OR insulated axle stands	<u>Yes</u>
	- headlights on dipped beam	<u>Yes</u>
	- left or right direction indicator flashing	<u>Yes</u>
	- all other systems which affect driver's control on as in normal operation of vehicle	<u>Yes</u>
	- no connections to test area	<u>Yes</u>
	- reports for other systems attached	<u>No</u>
	- only non-perturbing monitoring equipment	<u>Yes</u>
	- facing antenna on centre line	<u>Yes</u>
	- OR other (state position)	<u>N/A</u>
	Antenna elements no closer than 0.5m to outer body surface of vehicle	<u>Yes</u>
	TLS \geq 75% of length of vehicle	<u>Yes</u>
	Antenna and test equipment layout to the same specification as for calibration	<u>Yes</u>
	Pre-test sweep supplied to show compliance throughout frequency range 20 to 1000 MHz	<u>Yes</u>
	Test frequencies chosen from pre-test data	<u>Yes</u>
	Test signal dwell time sufficient (minimum 2 seconds)	<u>Yes</u>
	Vehicle speed: 40 km/h and gear: --	

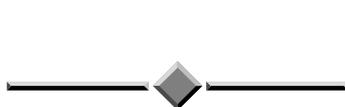
TEST REPORT: RADIO INTERFERENCE
(ELECTROMAGNETIC COMPATIBILITY)

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
	Modulated test signal peak value equals unmodulated sine wave peak value whose test limits are defined in paragraph 6.4.2 of Annex I (For Modulation, carrier wave power is reduced by 5.1 dB to conserve peaks)	Yes
	Test signal is R.F. sine wave amplitude modulated by a 1 kHz sine wave at a modulation depth of 0.8 ± 0.04	Yes

ALL VARIANTS/VERSIONS VEHICLES IMMUNITY TEST RESULTS

Frequency [MHz]	Vertical [V/m]	Horizontal [V/m]
27	30,0	30,0
45	30,0	30,0
65	30,0	30,0
90	30,0	30,0
150	30,0	30,0
180	30,0	30,0
220	30,0	30,0
300	30,0	30,0
450	30,0	30,0
600	30,0	30,0
750	30,0	30,0
900	30,0	30,0

6.4.2.2	No malfunction at 30 V/m or below	Yes
6.4.2.1	Malfunction between 25 and 30 V/m over less than 10% of 20 to 1000 MHz frequency band	No
6.1.4	Tests not performed at chamber resonant frequencies	Yes



TEST REPORT: **FITTING OF REAR VIEW MIRRORS TO TWO OR
THREE WHEEL MOTOR VEHICLES (UNBODIED)**

03-028rev1

Report/Job Number: MSN271582

Page: 1 of 3

TEST DETAILS	
Subject	FITTING OF MIRRORS TO TWO OR THREE WHEEL MOTOR VEHICLES (UNBODIED)
EC Directive	97/24/EC CHAPTER 4 (ANNEX III) – 2006/27/EC
ECE Regulation	N/A
Location of Test	Scarmagno (TO), Italy
Date of Test	19 and 20 of December 2012
VCA Representative	Luca Taschini
Manufacturer's Representative	Slawomir Kortas
Reason for Test	Introduction of new rear view mirrors as alternative Corrections and document updating

MANUFACTURER DETAILS	
Manufacturer's Name	GOVECS POLAND Sp. z.o.o.
Manufacturer's Address	Ul. Graniczna 8c 51-132 Wroclaw Poland
Model Type & description	Type 4E, variant/version 9E/1, 9E/2, 93/2, 73/1, 7E/1, 7F/1
Category	Motorcycle, L3e

CONCLUSION
<p>The above mentioned vehicle was tested in accordance with EC Directive 97/24/EC CHAPTER 4 (ANNEX III) as amended by 2009/108 and was found to comply in all respects</p> <p>Signature: </p> <p>Name: Luca Taschini Position: Test Engineer Date: 04 March 2013</p>

LIST OF ANNEXES		
ANNEX	No of PAGES	SUBJECT
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TEST REPORT: FITTING OF MIRRORS TO TWO OR THREE WHEEL MOTOR VEHICLES

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
1	Risk assessment completed and stored in job folder	Yes
2	Facilities and test equipments are appropriate	Yes
3	Calibration certificates checked and valid, recorded below	N/A

Equipment	Serial No.	Calibration data
--	--	--

TEST SPECIFICATION/WORST CASE RATIONALE: It has been tested vehicle variant/version 7F/1 because equipped with all new devices. All variant/version mentioned in the information document are covered by this test report.

See definition of unbodied in 2006/27/EC – explain specification below.

Manufacturer's documentation complete Yes

Mirrors Fitted to the vehicle:

	Approval No:	Nominal R mm	Measured R mm
Exterior Left	E11-001167	--	--
Exterior Right	E11-001167	--	--

- | | | |
|-----|---|-----|
| 1.1 | All mirrors remain stable under normal operating conditions | Yes |
| 1.2 | Centre of reflecting surface ≥ 280 mm from median longitudinal plane of the vehicle:
Exterior Left: 370 mm
Exterior Right: 370 mm | Yes |
| 1.3 | Normal driving position gives clear view of the road to side(s) and to the rear of the vehicle: | Yes |
| 1.6 | Angle between median longitudinal plane of the vehicle and line from the centre of the ocular points and the centre of the mirror is not more than 55°

Actual angle: 48° | Yes |
| 1.7 | Exterior mirrors do not project beyond bodywork more than necessary for field of vision | Yes |
| 1.8 | If lower edge of exterior mirror is below 2m (vehicle fully laden) mirror projects less than 0.20m beyond overall vehicle width: | |

**TEST REPORT: FITTING OF MIRRORS TO TWO OR
THREE WHEEL MOTOR VEHICLES**

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
	Actual projection left 0,075 m	
	Actual projection right 0,075 m	
2.3	If single exterior mirror is fitted it is on the appropriate side	N/A
3	Adjustment:	
3.1	Mirrors are adjustable from the driving position	Yes



TEST REPORT: **Protective devices intended to prevent unauthorised use of two or three wheel motor vehicles**

03-010

Report/Job Number: MSN267480

Page: 1 of 4

TEST DETAILS	
Subject	Protective devices intended to prevent unauthorised use of two or three wheel vehicles
EC Directive	93/33/EEC as amended by 1999/23/EC
ECE Regulation	62.00
Location of Test	Scarmagno (TO), Italy
Date of Test	19 and 20 of December 2012
VCA Representative	Luca Taschini
Manufacturer's Representative	Slawomir Kortas
Reason for Test	Introduction new engines as alternative for variant 73, 7E, 7F, 93, 9E. Introduction of 3 new brake pads as alternative. Introduction of new rear shock absorber as alternative. Introduction of new front fork as alternative. Introduction of new antitheft device as alternative. Introduction of 2 new grab handles as alternative. Introduction of new front and rear tire. Introduction of new rear view mirrors as alternative. Removal of commercial names. Add drawings of motor controllers. Change address of manufacturer and assembly plant. Editorial change of the information document. Corrections and document updating.

MANUFACTURER DETAILS	
Manufacturer's Name	GOVECS POLAND Sp. z.o.o.
Manufacturer's Address	Ul. Graniczna 8c, 51-132 Wroclaw - Poland
Model Type & description	Type 4E, variant/version 9E/1, 9E/2, 93/2, 73/1, 7E/1, 7F/1
Category	Motorcycle, L3e

CONCLUSION
The above mentioned vehicle was tested in accordance with EC Directive 2002/24EC as amended and was found to comply in all respects Signature:  Name: Luca Taschini Position: Test Engineer Date: 04 March 2013

LIST OF ANNEXES		
ANNEX	No of PAGES	SUBJECT
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2		

TEST REPORT: Protective devices intended to prevent unauthorised use of two or three wheel motor vehicles

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
	TEST SPECIFICATION/ WORST CASE RATIONALE: It has been tested anti-theft device described in drawing number DWG23.1 of manufacturer information document.	
	Manufacturer's documentation complete	<u>Yes</u>
	GENERAL CHECKS	
2.4	Type Number of device (1, 2, 3 or 4)	<u>2</u>
	Type 1: solely and positively operated on the steering alone,	
	Type 2: positively operated on the steering in conjunction with the device which de-activates the engine,	
	Type 3: pre-loaded, operating on the steering in conjunction with the device which de-activates the engine,	
	Type 4: positively operated on the transmission	
	Device is as specified in documentation	<u>Yes</u>
3	GENERAL SPECIFICATIONS	
3.2.1	Vehicle cannot be steered or driven/moved forward in a straight line with device engaged	<u>Yes</u>
3.2.2	Transmission prevented from functioning with device engaged (Type 4 only)	<u>N/A</u>
3.2.2	If activation is by control of parking device, does this act in conjunction with device for de-activating engine (Type 4 only)	<u>N/A</u>
3.2.3	Key extraction only possible with bolt in fully engaged or fully disengaged position	<u>Yes</u>
	No intermediate position of key will risk bolt engagement (with or without key inserted)	<u>Yes</u>
3.3	Only one key used	<u>Yes</u>



TEST REPORT: Protective devices intended to prevent unauthorised use of two or three wheel motor vehicles

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
3.4	Special tools required for dismantling	Yes
	Cannot be easily rendered ineffective or destroyed	Yes
3.5	Original equipment	Yes
	Lock securely assembled in protective device:	Yes
3.6	Manufacturer certifies 1000 different combinations:	Yes
3.7	Key and lock not visibly coded:	Yes
3.8	Nearest key in combination does not turn lock cylinder with a torque of less than 0.245 mdaN:	Yes
3.8.1	Design of tumblers meets requirements:	Yes
3.8.2		
3.9	Risk of accidental locking excluded:	Yes
3.10	Device withstood torque application of 20 mdaN in both directions (excluding Type 4)	Yes
	No damage sustained to steering mechanism likely to compromise safety (excluding Type 4)	Yes
3.11	Steering can only be locked at a minimum angle of 20° to the left and/or right of straight ahead position (excluding Type 4):	Yes
4	SPECIFIC REQUIREMENTS	
4.1.1	Lockable only by movement of key (handlebars being in appropriate position for bolt to engage in slot) (Types 1 and 2 only)	Yes
4.1.2	Pre-loading of bolt only possible by separate action combined with or in addition to turning of key (type 3 only)	N/A
	Removal of key not possible after bolt has been pre-loaded other than in accordance with 5.1.3 (Type 3 only)	N/A
4.2	Bolt prevented from engaging when device is in position which permits starting of engine (Types 2 and 3 only)	Yes



TEST REPORT: Protective devices intended to prevent unauthorised use of two or three wheel motor vehicles

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
4.3	Impossible to prevent device functioning when set (Type 3 only)	N/A
4.4	Device subjected to wear test for 2500 cycles (Type 3 only)	N/A
	Device in good working order and complies with 5.7,5.8, 5.9 and 6.3 after wear test (Type 3 only)	N/A

Instrumentation	Make and type	Calibration
Load cell	Maha 2291519	31-08-2011
Measuring tape	Stanley 33-921	23-08-2011



TEST REPORT: Passenger hand holds on two wheel motor vehicles

03-007

Report/Job Number: MSN271669

Page: 1 of 3

TEST DETAILS	
Subject	Passenger hand holds on two wheel motor vehicles
EC Directive	93/32/EEC and 1999/24/EC
ECE Regulation	N/A
Location of Test	Scarmagno (TO), Italy
Date of Test	19 and 20 of December 2012
VCA Representative	Luca Taschini
Manufacturer's Representative	Slawomir Kortas
Reason for Test	Introduction new engines as alternative for variant 73, 7E, 7F, 93, 9E. Introduction of 3 new brake pads as alternative. Introduction of new rear shock absorber as alternative. Introduction of new front fork as alternative. Introduction of new antitheft device as alternative. Introduction of 2 new grab handles as alternative. Introduction of new front and rear tire. Introduction of new rear view mirrors as alternative. Removal of commercial names. Add drawings of motor controllers. Change address of manufacturer and assembly plant. Editorial change of the information document. Corrections and document updating.

MANUFACTURER DETAILS	
Manufacturer's Name	GOVECS POLAND Sp. z.o.o.
Manufacturer's Address	Ul. Graniczna 8c, 51-132 Wroclaw - Poland
Model Type & description	Type 4E, variant/version 9E/1, 9E/2, 93/2, 73/1, 7E/1, 7F/1
Category	Motorcycle, L3e

CONCLUSION	<p>The above mentioned vehicle was tested in accordance with EC Directive 93/32 as last amended by 1999/24/EC and was found to comply in all respects</p> <p>Signature:</p> <p>Name: Luca Taschini Position: Test Engineer Date: 04 March 2013</p>
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LIST OF ANNEXES		
ANNEX	No of PAGES	SUBJECT
1		

TEST REPORT: Passenger hand holds on two wheel motor vehicles

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
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TEST SPECIFICATION/WORST CASE RATIONALE: Have been tested the devices described in drawing numbers DWG29.3 and DWG29.4 of manufacturer information document

1	Risk assessment completed and stored in job folder	<u>Yes</u>
2	Facilities and test equipments are appropriate	<u>Yes</u>
3	Calibration certificates checked and valid, recorded below	

Equipment	Serial No.	Calibration data
Dynamometer 03	DIN_01	03.08.2010

Manufacturer's documentation complete Yes

Method of load application:

Vehicle loaded with no more than 75 kg for rider and 75 kg for passenger in normal seating positions Yes

Rear wheel of vehicle anchored to floor to prevent lifting, if required Yes

Test for Strap

Strap positioned for ease of use N.A.

Grip position symmetrical to the median longitudinal plane of the vehicle N.A.

Load applied vertically to the centre of the surface of the Strap N.A.

Magnitude of load applied (>2000N) N N.A.

Area over which load applied mm² N.A.

Pressure (force/area) N/mm² N.A.

Maximum pressure less than 2 MPa or 2N/mm² N.A.

Test for Hand Grip

Load applied vertically to the centre of the surface of each hand grip Yes

Magnitude of load applied (>2000N) N N.A.



**TEST REPORT: Passenger hand holds on two wheel
motor vehicles**

<i>Paragraph</i>	<i>Parameter</i>	<i>Complies</i>
	Area over which load applied	mm ² 1100
	Pressure (force/area)	N/mm ² 1.92
	Maximum pressure less than 2 MPa or 2N/mm ²	<u>Yes</u>
	Strap/hand grips and its attachments capable of withstanding required load without snapping	<u>Yes</u>



GOVECS POLAND Sp. z.o.o.	Vehicle type:	4E	1/13
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SUBJECT : MOTORCYCLE TYPE 4E

This document concerns the following variants and versions :

Variant / Version	Notes (brief technical description)
9E/1	Electric engine, 96V battery, 4kW motor, max speed 63 km/h, mechanical transmission with one speed forward, front brake disc and rear brake drum.
9E/2	Electric engine, 96V battery, 4kW motor, max speed 63 km/h, mechanical transmission with one speed forward, front and rear brake disc.
93/2	Electric engine, 96V battery, 3kW motor, max speed 63 km/h, mechanical transmission with one speed forward, front and rear brake disc.
73/1	Electric engine, 72V battery, 3kW motor, max speed 63 km/h, mechanical transmission with one speed forward, front and rear brake disc.
7E/1	Electric engine, 72V battery, 4kW motor, max speed 63 km/h, mechanical transmission with one speed forward, front and rear brake disc.
7F/1	Electric engine, 72V battery, 6kW motor, max speed 83 km/h, mechanical transmission with one speed forward, front and rear brake disc.

Document revisions:

Rev. No.	Date	Reason of revision
00	01.10.2010	First submission
01	01.04.2011	Reason for extension: -New codification of previous version from "3" to "1" -Introduction of new variants 93, 73, 7E and 7F. -Introduction of new version 2. -Introduction of new braking devices, new side stand, new bluetooth ignition control systems, new engine types, new lithium batteries and new gear ratios. -Inclusion of max speed 83 km/h - variant 7F. -Inclusion of max speed 63 km/h - variant 93 with silicon battery. -Inclusion of max speed 63 km/h - variant 7E, 73 with lithium battery. -Inclusion Vehicle Identification Number in Appendix 1.
02	12.12.2012	Reason for extension: -Introduction new engines as alternative for variant 73, 7E, 7F, 93, 9E. -Introduction of 3 new brake pads as alternative. -Introduction of new rear shock absorber as alternative. -Introduction of new front fork as alternative. -Introduction of new antitheft device as alternative. -Introduction of 2 new grab handles as alternative. -Introduction of new front and rear tire. -Introduction of new rear view mirrors as alternative. -Add drawings of motor controllers. -Change address of manufacturer and assembly plant. -Removal of commercial names. -Editorial change of the information document. -Corrections and document updating.



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General description:

Enclosures	Items	Description
DWG01	0.3.1; 0.7	VIN and statutory plate location.
DWG02	1.1	Pictures of typical vehicle.
DWG02.1	1.1	Pictures of typical vehicle.
DWG03	1.2; 1.2.1	Dimensional drawing of complete vehicle.
DWG03.1	1.2; 1.2.1	Dimensional drawing of complete vehicle.
DWG04	1.4	Position and arrangement of engine.
DWG04.1	3.1.1; 3.1.2	Type of engine and position of the engine identification label.
DWG04.2	3.1.1; 3.1.2	Type of engine and position of the engine identification label.
DWG04.3	3.1.1; 3.1.2	Type of engine and position of the engine identification label.
DWG04.4	3.1.1; 3.1.2	Type of engine and position of the engine identification label.
DWG04.5	3.1.1; 3.1.2	Type of engine and position of the engine identification label.
DWG05	3.3.2.4	Battery location.
DWG05.1	3.3.2.4	Dimensional drawing of battery.
DWG05.2	3.3.2.4	Dimensional drawing of battery.
DWG06	4.1	Picture of transmission system.
DWG07	4.7.3	Picture of speedometer.
DWG08	5.1	Drawing of rear suspension arrangement.
DWG08.1	5.1	Drawing of rear shock absorber.
DWG08.2	5.1	Drawing of rear shock absorber.
DWG09	5.1	Drawing of front suspension arrangement.
DWG09.1	5.1	Drawing of front fork.
DWG09.2	5.1	Drawing of front fork.
DWG10	7.3.1	Drawing of front brake caliper.
DWG10.1	7.3.1	Drawing of front brake caliper.
DWG11	7.3.1	Drawing of rear brake drum.
DWG11.1	7.3.1	Drawing of rear brake caliper.
DWG12	7.3.2	Drawing of front brake pads.
DWG12.1	7.3.2	Drawing of front brake pads.
DWG12.2	7.3.2	Drawing of front brake pads.
DWG12.3	7.3.2	Drawing of front brake pads.
DWG12.4	7.3.2	Drawing of front brake pads.
DWG13	7.3.2	Drawing of rear brake pads.
DWG13.1	7.3.2	Drawing of rear brake pads.
DWG14	7.3.3	Drawing of left brake lever.
DWG14.1	7.3.3	Drawing of left brake lever.
DWG15	7.3.3	Drawing of right brake lever.
DWG15.1	7.3.3	Drawing of right brake lever.
DWG16	7.4	Drawing of front brake disc.
DWG17	7.4	Drawing of rear brake disc.
DWG18	8.2	Head light lamp position.
DWG19	8.2	Front and rear direction indicator lamp position.
DWG20	8.2	Side and rear retro-reflector position.
DWG21	9.2.1	Arrangement of symbols, controls, tell-tales and indicators.
DWG22	9.3.2	Drawing of statutory plate.
DWG23	9.4.2	Drawing of ignition key switch with steering lock.
DWG23.1	9.4.2	Drawing of ignition key switch with steering lock.
DWG24	4.5.1	Picture of bluetooth ignition control system.
DWG25	9.5.5	Location of the audible warning device.
DWG26	9.6	Location of rear registration plate and licence plate light.
DWG27	B 1.1.4	Location of rear view mirrors.
DWG28	B 1.2.2	Location of central stand.

21-Mar-13

GOVECS POLAND Sp. z.o.o.

Vehicle type:

4E

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DWG28.1	B 1.2.2	Location of side stand.
DWG29	B 1.4.2	Location of hand-hold for a passenger.
DWG29.1	B 1.4.2	Location of hand-hold for a passenger.
DWG29.2	B 1.4.2	Location of hand-hold for a passenger.
DWG29.3	B 1.4.2	Location of hand-hold for a passenger.
DWG29.4	B 1.4.2	Location of hand-hold for a passenger.
DWG30	B 1.6	Drawing of anti tampering control label.
DWG31	-	Drawing of motor controller
DWG31.1	-	Drawing of motor controller
DWG32	0.7.1	Table of vehicle identification number system.

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A. INFORMATION RELATING JOINTLY TO MOPEDS , MOTORCYCLES, MOTOR TRYCYCLES AND QUADRICYCLES

0. General description

- 0.1 Make: **GOVECS.**
- 0.2 Type: **4E.**
Variant and version: **9E/1, 9E/2, 93/2, 73/1, 7E/1, 7F/1.**
- 0.2.1 Commercial name: **Not applicable.**
- 0.3 Means of type identification if stated on vehicle: **V.I.N.**
- 0.3.1 Location of that means of identification: **Right side of the main frame.
See attached drawings No. DWG01.**
- 0.4 Vehicle category: **Motorcycle, L3e (according to 2002/24/EC).**
- 0.5 Name and address of manufacturer: **GOVECS Poland Sp. z o.o.
ul. Graniczna 8c
51-132 Wroclaw
Poland
See point 0.5**
- 0.5.1 Name(s) and address(es) of assembly plants: **Not applicable.**
- 0.6 Name and address of manufacturer's authorized representative, if any: **Statutory plate fixed on the back by rivet.
See attached drawings No. DWG01.**
- 0.7 Position and method of affixing statutory inscriptions to the chassis: **SVE4E????W000001.**
- 0.7.1 The serial numbering of the type begins with No.: **Marked on the surface component made by molding.**
- 0.8 Position and method of affixing the component type – approval mark for components and separate technical units:
- 1. General arrangement of vehicles**
- 1.1 Photos and / or drawings of a typical vehicle: **See attached drawing No. DWG02; DWG02.1.**
- 1.2 Dimensional drawing of the complete vehicle: **See attached drawing No. DWG03; DWG03.1.**
- 1.2.1 Wheelbase: **See attached drawing No. DWG03; DWG03.1.**
- 1.3 Number of axels and wheels: **Two axles, two wheels.**
- 1.4 Position and arrangement of engine: **See attached drawings No. DWG04.**
- 1.5 Number of seating positions: **2**
- 1.6 Hand of drive – left or right: **Both**
- 1.6.1 Vehicle is equipped to be driven in right-hand or left-hand rule of the road traffic: **For right-hand and left-hand.**

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2. Masses (kg)

Type	Variant/Version	Unladen/Running order weight	Running order + Rider	Maximum Permissible
4E	9E/1, 9E/2, 93/2	Front: 72	Front: 103	Front: 121
		Rear: 75	Rear: 119	Rear: 176
		Total: 147	Total: 222	Total: 297
	7E/1, 73/1	Front: 56	Front: 87	Front: 99
		Rear: 56	Rear: 100	Rear: 163
		Total: 112	Total: 187	Total: 262
	7F/1	Front: 58	Front: 87	Front: 107
		Rear: 63	Rear: 109	Rear: 164
		Total: 121	Total: 196	Total: 271

- 2.0 Unladen mass: **See point 2.**
- 2.1 Mass of vehicle in running order: **See point 2.**
- 2.1.1 Distribution of that mass between the axles: **See point 2.**
- 2.2 Mass of the vehicle in running order, together with rider: **See point 2.**
- 2.2.1 Distribution of that mass between the axles: **See point 2.**
- 2.3 Maximum technically permissible mass declared by the manufacturer: **See point 2.**
- 2.3.1 Distribution of that mass between the axles: **See point 2.**
- 2.3.2 Maximum technically permissible mass on each of the axles: **See point 2.**
- 2.4 Maximum hill-starting ability at the maximum technically permissible mass declared by the manufacturer: **18%**
- 2.5 Maximum towable mass (where applicable): **Not applicable.**
- 2.6 Maximum mass of the combination: **Not applicable.**

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3.	Engine	
3.0	Manufacturer:	Parker Hannifin – Division SSD SBC, Via Gounod 1, 20092 Cinisello Balsamo (MI), Italy. Letrika - Polje15, 5290 Sempeter pri Gorici, Slovenia – as alternative. Teco Electro Devices - 11-1, An-Tung Rd., Chung-Li Industrial District, Taoyuan County 320, Taiwan - as alternative.
3.1	Make:	Parker Hannifin or Letrika or Teco as alternative.
3.1.1	Type (stated on the engine):	Parker MBH1051406 - for variant 9E/1. Parker SMH10032065 - for variant 9E/2, 93/2, 73/1, 7E/1. Parker SMH1004506 - alternative for variant 9E/2, 93/2, 73/1, 7E/1. Letrika AMK6143 - alternative for variant 9E/2, 93/2, 73/1, 7E/1. Parker SME1422815 - for variant 7F/1. Teco TSB13492D – alternative for variant 7F/1. See attached drawing No. DWG04.1; DWG04.2; DWG04.3; DWG04.4; DWG04.5.
3.1.2	Location of engine number:	See attached drawing No. DWG04.1; DWG04.2; DWG04.3; DWG04.4; DWG04.5.
3.2.	Spark or compression ignition engine	Not Applicable.
3.3.	Electric traction engine	
3.3.1	Type:	DC Brushless Permanent-Magnet Synchronous Motor
3.3.1.1	Maximum continuous rated power:	3.0kW - for variant 73, 93. 4.0kW - for variant 7E, 9E. 6.0kW - for variant 7F.
3.3.1.2	Operating voltage:	96V – for variant 93, 9E. 72V – for variant 73, 7E, 7F.
3.3.2	Battery	
3.3.2.1	Number of cells:	8 – for variant 93, 9E. 1 – for variant 73, 7E, 7F.
3.3.2.2	Mass:	56kg – for variant 93, 9E. 32kg – for variant 73, 7E, 7F.
3.3.2.3	Capacity:	20Ah – for variant 93, 9E. 40Ah – for variant 73, 7E, 7F.
3.3.2.4	Location:	See attached drawing No. DWG05; DWG05.1; DWG05.2.
3.4	Other motors or combination of motors (specific informations concerning those parts of motors):	Not applicable.
3.5.	Temperature permitted by the manufacturer:	Not applicable.
from 3.5.1. to 3.5.2.2		Not applicable.
3.6.	Lubrication system:	Not applicable.
from 3.6.1. to 3.6.3.1.2		Not applicable.

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4. Transmission

4.1 Diagram of transmission system:

See attached drawing No. DWG06



4.2 Type (mechanical, hydraulic, electrical, etc.):

Mechanical.

4.3 Clutch (type):

Not applicable.

4.4 Gear box

4.4.1 Type:

Not applicable.

4.4.2 Method of selection:

Not applicable.

4.5 Gear ratios

Variant 9E, 93, 7E, 73

R3	Rt
<i>6,46:1</i>	<i>6,46:1</i>
R3= final drive ratio (ratio of rotational speed of gearbox output shaft to rotational speed of driven wheels). Rt = overall ratio.	

Variant 7F

R3	Rt
<i>3,81:1</i>	<i>3,81:1</i>
R3= final drive ratio (ratio of rotational speed of gearbox output shaft to rotational speed of driven wheels). Rt = overall ratio.	

4.5.1 Brief description of the electrical and/or electronic components used in the transmission:

Bluetooth ignition control system BlueID or Bluekey as alternative. The key code is powered by secure Bluetooth signal. The device does not have blocking device for the steering column.
See attached drawing No. DWG24.

4.6 Maximum speed of vehicle and gear in which it is reached (km/h):

63 km/h – for variant 9E, 93, 7E, 73.
83 km/h – for variant 7F.

4.7 Speedometer

4.7.1 Make(s):

SANSAN

4.7.2 Type(s):

SS163

4.7.3 Photos and/or drawings of the complete system:

See attached drawing No. DWG07.

4.7.4 Range of speeds displayed:

0 to 999 km/h

4.7.5 Tolerance of the speedometer's measuring mechanism

+ 1 km/h - 5 km/h

4.7.6 Technical constant of the speedometer:

Not controlled by speedometer. Speedometer simply displays value from CAN message.

4.7.7 Method of operation and description of the drive mechanism:

Display information provided on CAN data bus.

4.7.8 Overall transmission ratio of the drive mechanism

Not applicable.

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5. Suspension

- 5.1. Drawing of suspension arrangement: **See attached drawing No. DWG08; DWG08.1; DWG08.2, DWG09; DWG09.1; DWG09.2**
- 5.1.1 Brief description of the electrical and/or electronic components used in the suspension: **Not applicable.**
- 5.2 Tyres (dimensions and maximum loading) and rims (standard type):

	Dimensions	Minimum Load Capacity Index	Minimum Speed Category Index	Rims
Front	130/60-13	53	J	3,5x13
Optional	120/70-13			
Rear	130/60-13	53	J	
Optional	120/70-13			

- 5.2.1 Nominal rolling circumference: **130/60-13 – 1,467m.
120/70-13 – 1,504m.**
- 5.2.2 Tyre pressure recommended by the manufacturer: **Front tyre 220 kPa.
Rear tyre 220 kPa.**
- 5.2.3 Tyres / rims combination(s): **Not applicable.**
- 5.2.4 Minimum speed - category symbol compatible with the theoretical maximum design speed of the vehicle: **E – for variant 9E, 93, 7E, 73.
G – for variant 7F.**
- 5.2.5 Minimum load – capacity index with the maximum load on each tyre: **Front: 37
Rear: 49**
- 5.2.6 Categories of use compatible for the vehicle: **Normal.**

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6. Steering

6.1. Steering gear and control

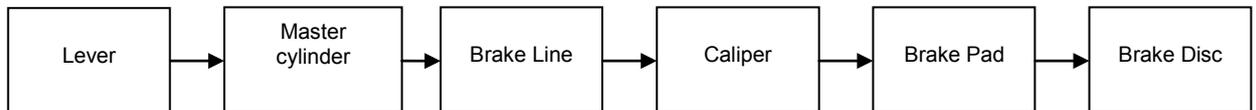
- 6.1.1 Type of gear: **Direct connection between telescopic fork and handlebar.**
- 6.1.2 Brief description of the electrical and/or electronic components used in the steering system: **Not applicable.**

7. Braking

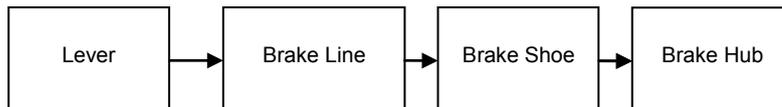
7.1 Diagram of braking devices:

Variant 9E, 93, 7E, 73

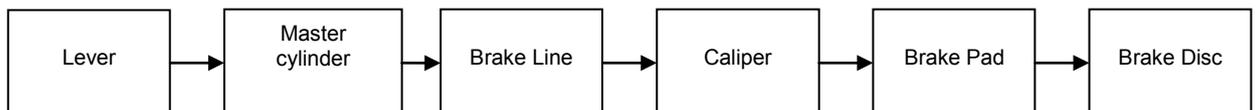
Front



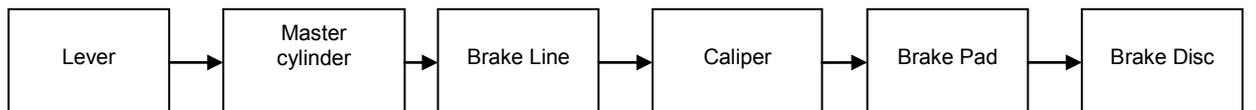
Rear

**Variant 9E, 93, 7E, 7F, 73**

Front



Rear



- 7.2 Front and rear brakes: **Front disc brake and rear drum brake – for variant 9E, 93, 7E, 73.
Front and rear disc brake – for variant 9E, 93, 7E, 7F, 73.**
- 7.2.1 Make(s): **AJP, Grimeca, Kailing, SBS.**
- 7.2.2 Type(s): **For variant 9E, 93, 7E, 73:
Front: ϕ 190mm single disc hydraulically commanded.
Rear: ϕ 110mm drum brake.

For variant 9E, 93, 7E, 7F, 73:
Front: ϕ 185mm single disc hydraulically commanded.
Rear: ϕ 160mm single disc hydraulically commanded.**
- 7.3 Drawing of parts of the brake system:
- 7.3.1 Shoes and/or calipers: **See attached drawing No. DWG10; DWG10.1; DWG11; DWG11.1.**
- 7.3.2 Linings and/or pads: **See attached drawing No. DWG12; DWG12.1; DWG12.2; DWG12.3; DWG12.4; DWG13; DWG13.1.**
- 7.3.3 Brake levers and/or pedals: **See attached drawing No. DWG14; DWG14.1; DWG15; DWG15.1.**

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- 7.3.4 Hydraulic reservoirs (where applicable): **See attached drawing No. DWG14; DWG14.1DWG15; DWG15.1.**
- 7.4 Other devices (where applicable):drawing and description **See attached drawing No. DWG16; DWG17.**
- 7.5 Brief description of the electrical and/or electronic components used in the braking system: **Not applicable.**

8. Lighting and light-signalling devices

- 8.1 List of all devices (mentioning the number, make(s), model, component type-approval mark(s), the maximum intensity of the main-beam headlamps, colour the corresponding tell-tale): **All lamps are Light Emitting Diodes (LED) with the only exception being the headlight which is a standard automotive lamp.**

Lamp function	QTY	Colour	Tell-tale	Make	TYPE	Approval mark
Main beam / head lamp	1	White	Blue	ECIE	334	E3-50R-002670
Dipped beam / head lamp	1	White	No	ECIE	334	E3-50R-002670
Front position lamp	2	White	No	ECIE	334	E3-50R-002670
Front direction indicator lamp	2	Amber	Green	ECIE	96 97	E3-50R-0048580 E3-50R-0048579
Rear direction indicator lamp	2	Amber	Green	K-Lite	M302	E4-50R-001443
Rear position lamp	1	Red	No	JUTE	T003	E9-50R-001153
Stop lamp	1	Red	No	JUTE	T003	E9-50R-001153
Licence Plate Light	1	White	No	ECIE	346	E3-50R-002731 extension 04
Side retro-reflector	4	Amber	No	ECIE	108	E3-02.49951
Rear retro-reflector	1	Red	No	ECIE	91	E3-02.48328

- 8.2 Diagram showing the location of the lighting and light-signaling devices: **See attached drawing No. DWG18; DWG19; DWG20.**
- 8.3 Hazard warning lamps (where fitted): **Not applicable.**
- 8.4 Additional requirements relating to special vehicle: **Not applicable.**
- 8.5 Brief description of the electrical and/or electronic components used in the lighting system and in the light-signalling system: **Not applicable.**

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9. Equipment

9.1.	Coupling devices (where applicable)	Not applicable.
9.1.1	Type(s): hook/ring/other:	Not applicable.
9.1.2	Photographs and/or drawing showing the position and the construction of the coupling devices:	Not applicable.
9.2.	Arrangement and identification of controls , tell- tales and indicators:	
9.2.1	Photographs and/or drawings of the arrangement of the symbols, controls, tell-tales and indicators:	See attached drawing No. DWG21.
9.3.	Statutory inscriptions	
9.3.1	Photographs and/or drawings showing the location of the statutory inscriptions and the chassis number:	See attached drawing No. DWG01.
9.3.2	Photographs and/or drawings showing the official part of the inscriptions (with statement of dimensions):	See point 9.3.1 See attached drawing No. DWG22.
9.3.3	Photographs and/or drawings of the chassis number (with statement of dimensions):	See point 9.3.1 Text Height: 6mm, Length: 80mm, Text Depth: min. 0,5mm
9.4.	Device(s) to protect against unauthorized use	
9.4.1	Type of device(s):	Ignition Key switch with Steering Lock.
9.4.2	Summary description of device(s) used:	Ignition key switch is a key blocking device. The lock and key code is not visible. See attached drawing No. DWG23; DWG23.1.
9.5	Audible warning device(s)	
9.5.1	Summary description of device(s) used and their purpose:	Electro magnetic actuated diaphragm Horn.
9.5.2	Make(s):	LI XIANG
9.5.3	Type(s):	DL128C
9.5.4	Type approval mark:	E4-28R-000067
9.5.5	Drawing(s) showing the location of the audible warning device(s) in relation to the structure of the vehicle	See attached drawing No. DWG25.
9.5.6	Details of the method of attachment, including the part of the vehicle structure to which the audible warning device(s) is (are) attached:	See point 9.5.5 Using the stock horn bracket, which is supplied and mounted to the horn, mount horn to the head tube of the main frame using an M5x12 mm screw. The screw is tightening in to the threaded clips on main frame.
9.6.	Location of rear registration plate (indicate variants where necessary; drawing may be used as appropriate):	See attached drawing No. DWG26.
9.6.1	Inclination of plane in relation to the vertical:	See point 9.6

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B. INFORMATION RELATING SOLELY TO TWO-WHEEL MOPEDS AND MOTORCYCLE

1. Equipment

1.1 Rear-view mirror(s)

1.1.1 Make: ARSAUTO, QIAOYU

1.1.2 Component type-approval mark:

Make:	Variant / Part No.:	Type approval mark:
ARSAUTO	715.110	E3-0057462
QIAOYU	QY 182	E4-81R-000215
QIAOYU	QY 138	E7-81R-000503
QIAOYU	QY 1106	E11-001167

1.1.3 Variant: See point 1.1.2

1.1.4 Drawing(s) showing the location of the rear-view mirror(s) in relation to the structure of the vehicle: See attached drawing No. DWG27.

1.1.5 Precise information concerning the type of attachment, including that part of the vehicle structure to which the rear-view mirror is attached: The left and right mirrors are threaded into the left and right switch boxes which have provisions to accept the mirrors threaded studs.

1.2 Stand

1.2.1 Type: Central stand or side stand as alternative.

1.2.2 Drawing showing the location of the stand(s) in relation to the structure of the vehicle: See attached drawing No. DWG28; DWG28.1.

1.3 Attachment for motorcycle sidecars: Not applicable.

1.3.1 Photographs and/or drawings showing the location and the construction: Not applicable.

1.4 Hand-hold for a passenger:

1.4.1 Type: Handle.

1.4.2 Photographs and/or drawings showing the location: See attached drawing No. DWG29; DWG29.1; DWG29.2; DWG29.3; DWG29.4.

1.5 For mopeds fitted with pedals and, if directive 97/24/EC Chapter 3, Annex I, point 3.5 applies, description of the measures taken in order to ensure safety: Not applicable.

1.6 Design and position of the label referred to in Directive 97/24/EC Chapter 7: See attached drawing No. DWG30.

C. INFORMATION RELATING SOLELY TO THREE-WHEEL MOPEDS, MOTOR TRICYCLES AND QUADRICYCLES

From item 1. to 2.10.5 Not applicable.

**ORD.No.: e11_2002-24_1144 – Edition:02
DIRECTIVE 2002/24/EC**

PART 2: SEPARATE DIRECTIVE APPROVAL NUMBERS

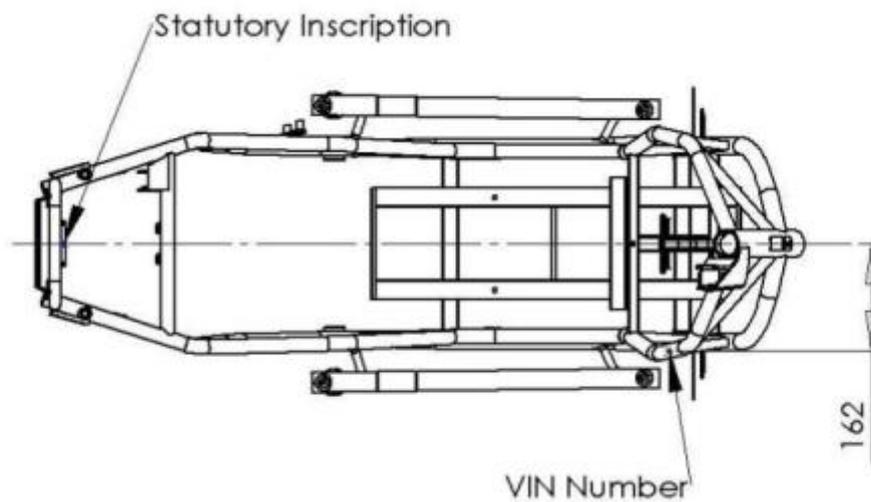
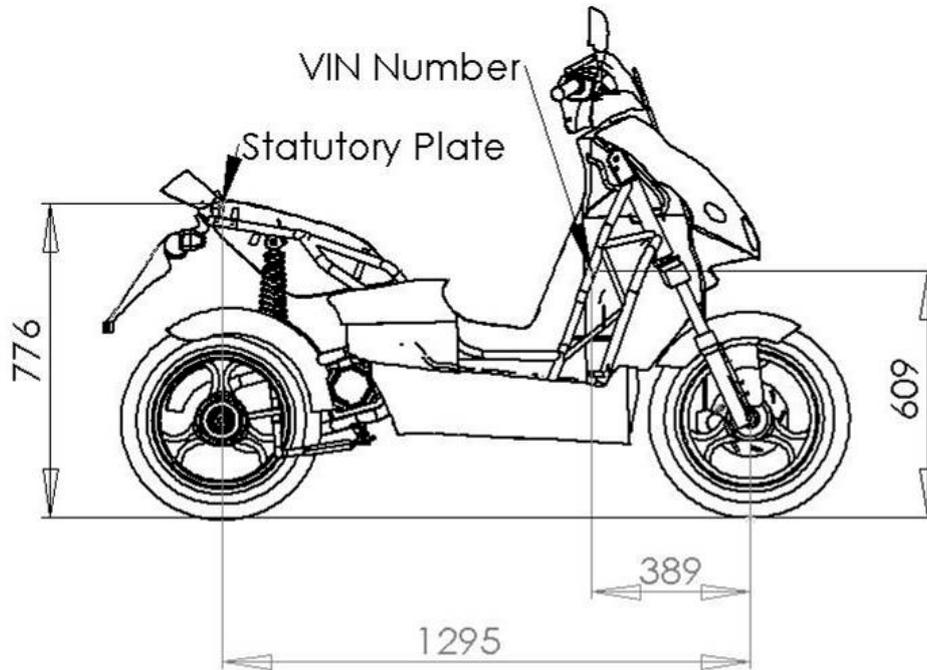
HEADING N°	SEPARATE DIRECTIVE N°	SUBJECT	APPROVAL N°	EXTENSION DATE	VARIANTS AND VERSIONS COVERED
18	95/1/EC	Maximum torque and maximum engine net power		--	
19	97/24/EC Ch.7	Anti-tampering measures for mopeds and motorcycles		--	
20	97/24/EC Ch.6	Fuel tank		--	
25	95/1/EC	Maximum design speed of vehicle		--	
26	93/93/EEC	Masses and dimensions		--	
27	97/24/EC Ch.10	Trailer coupling devices		--	
28	97/24/EC Ch.5	Anti-air pollution measures		--	
29	97/24/EC Ch.1	Tyres		--	
31	93/14/EEC	Braking system		--	
32	2009/67/EC	Installation of lighting and light-signalling devices on the vehicle		--	
33	97/24/EC Ch.2	Lighting and light-signalling devices	See 8.	--	
34	93/30/EEC	Audible warning device	See 9.5	--	
35	2009/62/EC	Position for the mounting of rear registration plate		--	
36	97/24/EC Ch.8	Electromagnetic compatibility		--	
37	97/24/EC Ch.9	Sound level and exhaust system		--	
38	97/24/EC Ch.4	Rear view mirror	See B 1.1	--	
39	97/24/EC Ch.3	External projection		--	
40	2009/78/EC	Stand (except in the case of vehicle having three or more wheels)		--	
41	93/33/EEC	Device to prevent unauthorized use of the vehicle		--	
42	97/24/EC Ch.12	Windows, windscreen wipers, windscreen washers, and so on		--	
43	2009/79/EC	Passenger hand hold for twowheel Vehicles		--	
44	97/24/EC Ch.11	Anchorage points for safety belts and safety belts		--	
45	2000/7/EC	Speedometer		--	
46	2009/80/EC	Identifications of controls, tell-tales and indicators		--	
47	2009/139/EC	Statutory inscriptions		--	

GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??



**VIN AND STATUTORY PLATE
LOCATION**

Drawing n.

DWG01

0.3.1; 0.7



GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93, 9E

Version: ??



PICTURES OF TYPICAL VEHICLE

Drawing n.

DWG02

1.1



GOVECS SP Z.O.O.

TYPE: 4E

Variant: 73, 7E, 7F

Version: ??

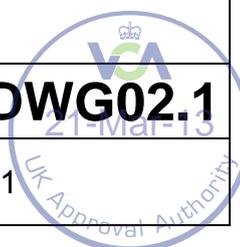


PICTURES OF TYPICAL VEHICLE

Drawing n.

DWG02.1

1.1



GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93, 9E

Version: ??



**DIMENSIONAL DRAWING OF
COMPLETE VEHICLE**

Drawing n.

DWG03

1.2; 1.2.1



GOVECS SP Z.O.O.

TYPE: 4E

Variant: 73, 7E, 7F

Version: ??



DIMENSIONAL DRAWING OF COMPLETE VEHICLE

Drawing n.

DWG03.1

1.2; 1.2:1



GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??



POSITION AND ARRANGEMENT OF ENGINE

Drawing n.

DWG04

1.4



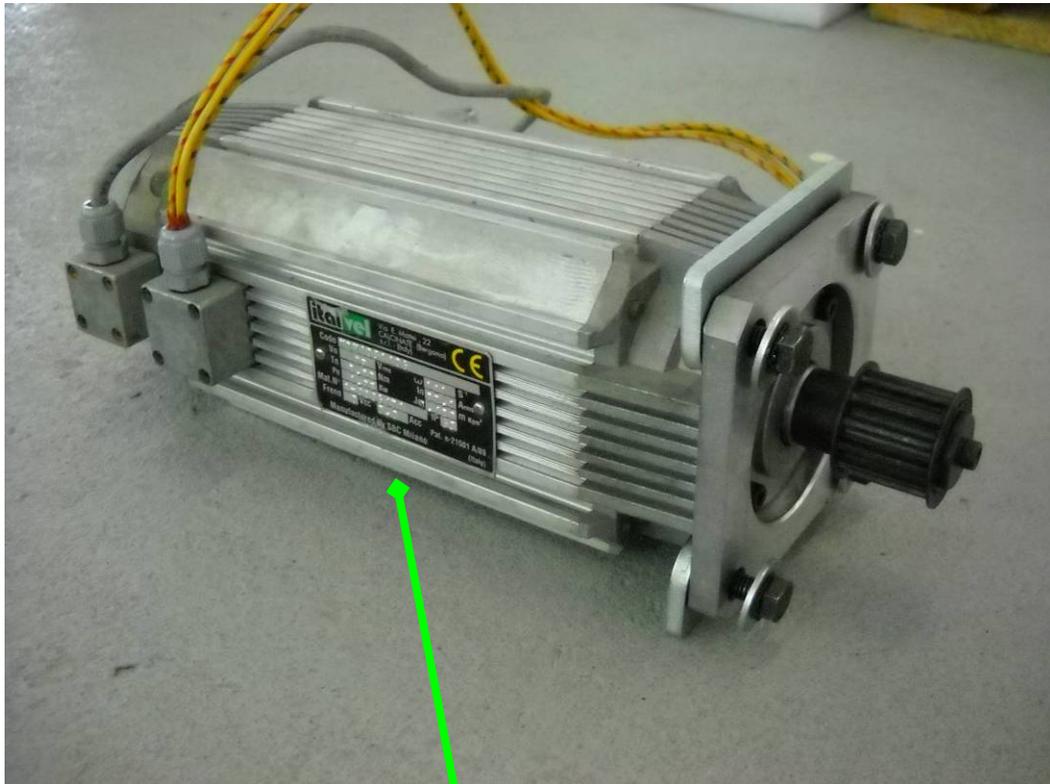
GOVECS SP Z.O.O.

TYPE: 4E

Variant: 9E

Version: 1

MBH1051406

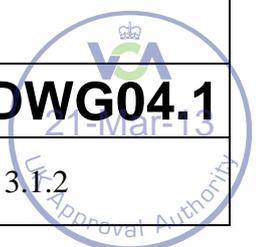


TYPE OF ENGINE AND POSITION OF ENGINE IDENTIFICATION LABEL

Drawing n.

DWG04.1

3.1.1; 3.1.2



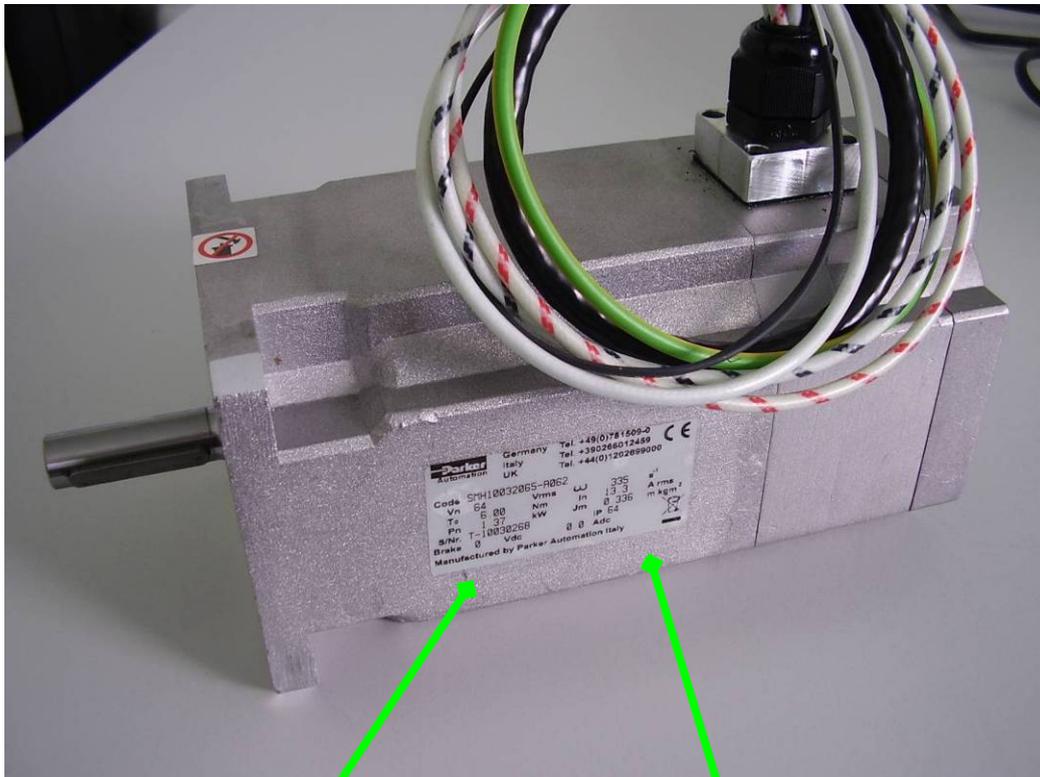
GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93/2, 9E/2, 73/1,
7E/1

Version:

SMH10032065 AND SMH1004506 AS AN ALTERNATIVE

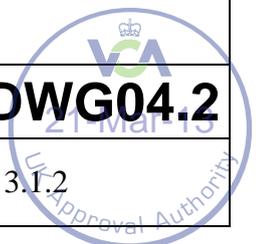


TYPE OF ENGINE AND POSITION OF
ENGINE IDENTIFICATION LABEL

Drawing n.

DWG04.2

3.1.1; 3.1.2



GOVECS SP Z.O.O.

TYPE: 4E

Variant: 7F

Version: ??

SME1422815

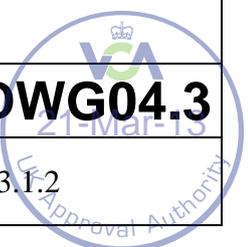


TYPE OF ENGINE AND POSITION OF ENGINE IDENTIFICATION LABEL

Drawing n.

DWG04.3

3.1.1; 3.1.2



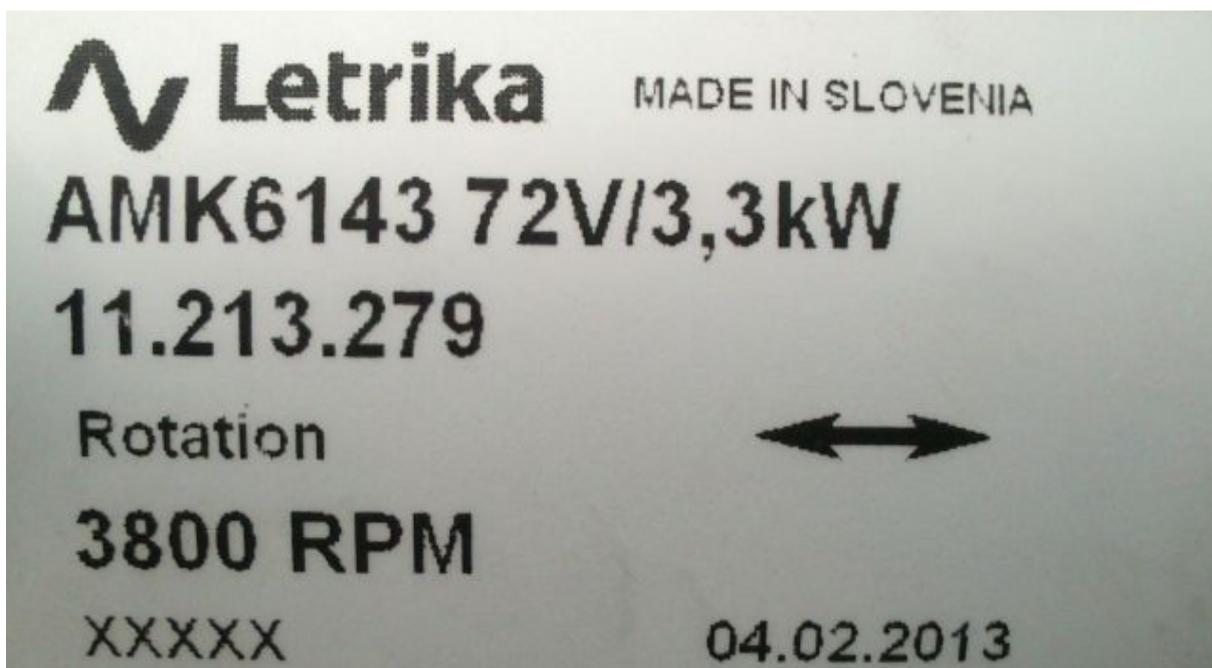
GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93/2, 9E/2, 73/1,
7E/1

Version:

AMK6143 (AS AN ALTERNATIVE FOR SMH10032065 AND SMH1004506)



TYPE OF ENGINE AND POSITION OF
ENGINE IDENTIFICATION LABEL

Drawing n.

DWG04.4

3.1.1; 3.1.2



GOVECS SP Z.O.O.

TYPE: 4E

Variant: 7F

Version: ??

TSB13492D (AS AN ALTERNATIVE FOR SME1422815)

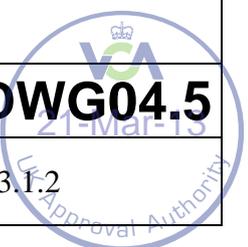


TYPE OF ENGINE AND POSITION OF
ENGINE IDENTIFICATION LABEL

Drawing n.

DWG04.5

3.1.1; 3.1.2



GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??



BATTERY LOCATION

Drawing n.

DWG05

3.3.2.4

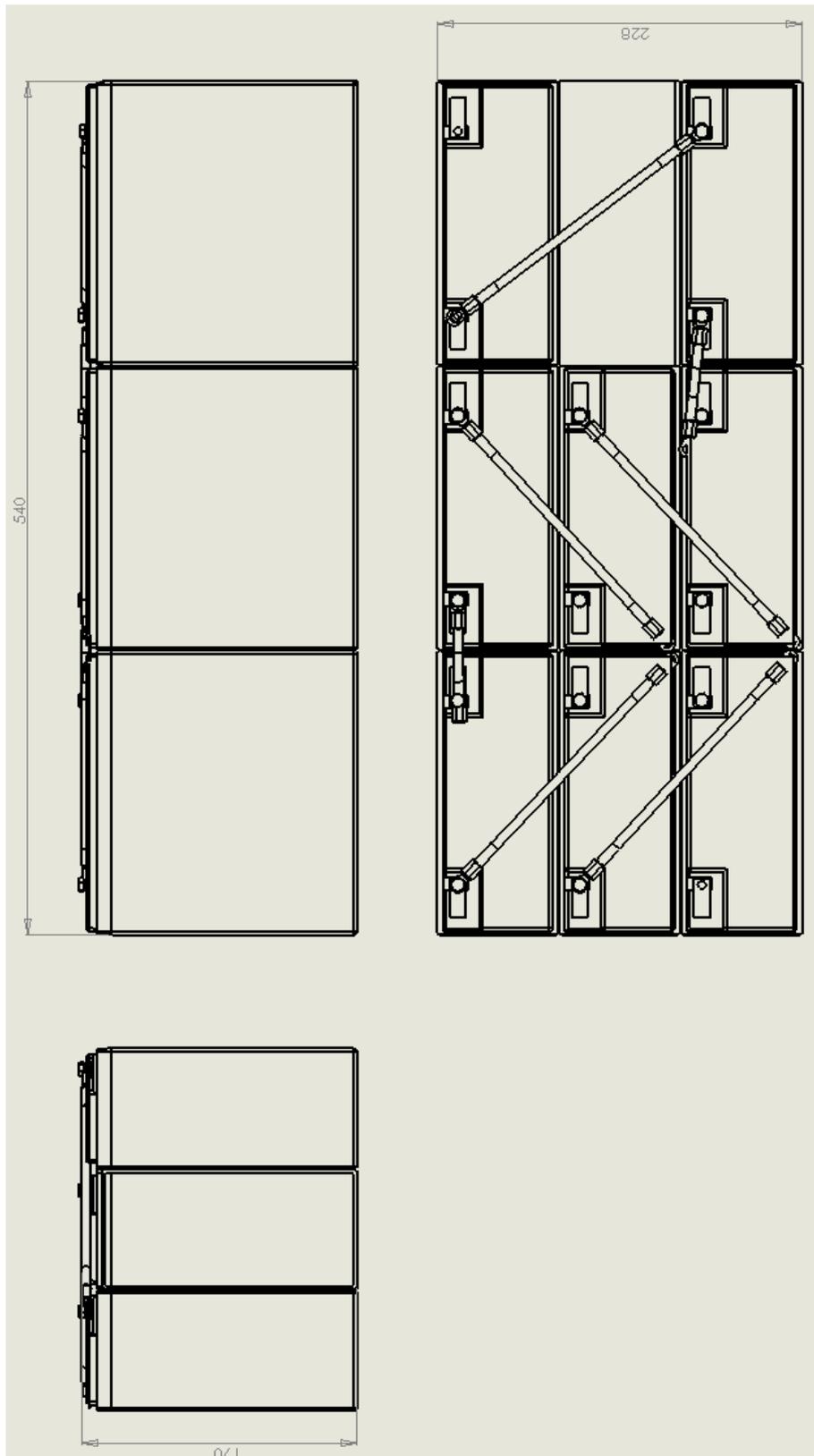


GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93, 9E

Version: ??



DIMENSIONAL DRAWING OF BATTERY

Drawing n.

DWG05.1

3.3.2.4



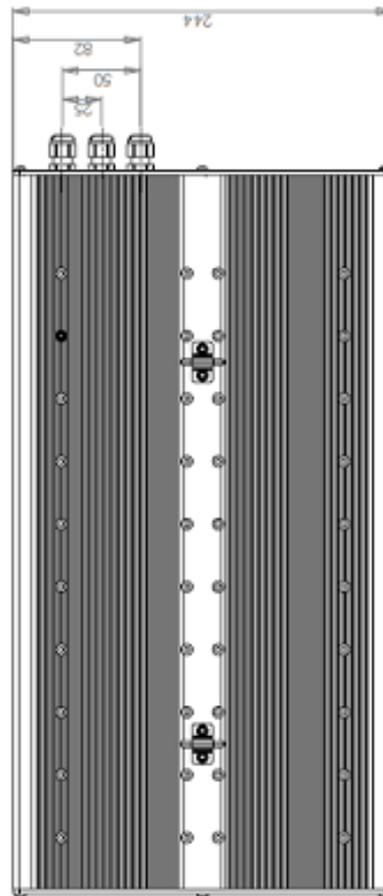
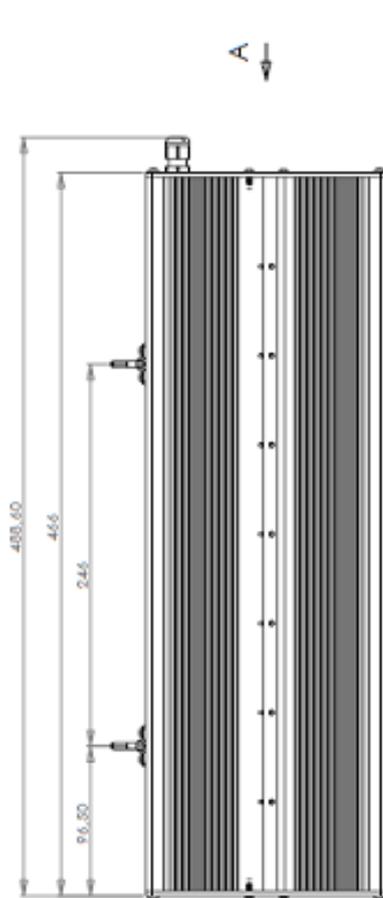
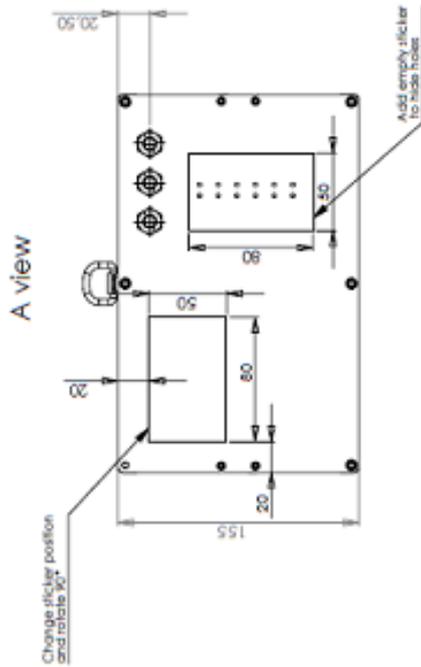
GOVECS SP Z.O.O.

TYPE:

4E

Variant: 73, 7E, 7F

Version: ??

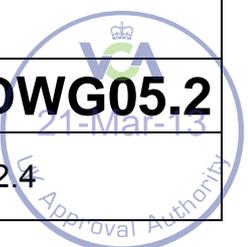


DIMENSIONAL DRAWING OF BATTERY

Drawing n.

DWG05.2

3.3.2.4



GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??



VARIANT 73, 7E, 93, 9E

MOTOR SPROCKET:
DIAMETER 32MM
QUANTITY OF COGS: 13

WHEEL SPROCKET:
DIAMETER 212MM
QUANTITY OF COGS: 84

VARIANT 7F

MOTOR SPROCKET:
DIAMETER 60MM
QUANTITY OF COGS: 22

WHEEL SPROCKET:
DIAMETER 212MM
QUANTITY OF COGS: 84

PICTURE OF TRANSMISSION SYSTEM

Drawing n.

DWG06

4.1



GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??



POSITION SENSOR IN THE MOTOR IS TO FIND OUT CURRENT MECHANICAL ROTOR POSITION. THIS SIGNAL IS USED FOR DETERMINING CURRENT SPEED. THE POSITION SENSOR IS A HALL-CHIP ON THE ELECTRONIC WITH A TARGET MAGNET ON THE ROTOR SHAFT. THE SIGNALS OF THE HALL-CHIP ARE READ IN AS ANALOG VOLTAGES. THE DISPLAYED VALUE IS CALCULATED BY MULTIPLYING WITH A CERTAIN FACTOR.

PICTURE OF SPEEDOMETER

Drawing n.

DWG07

4.7.3



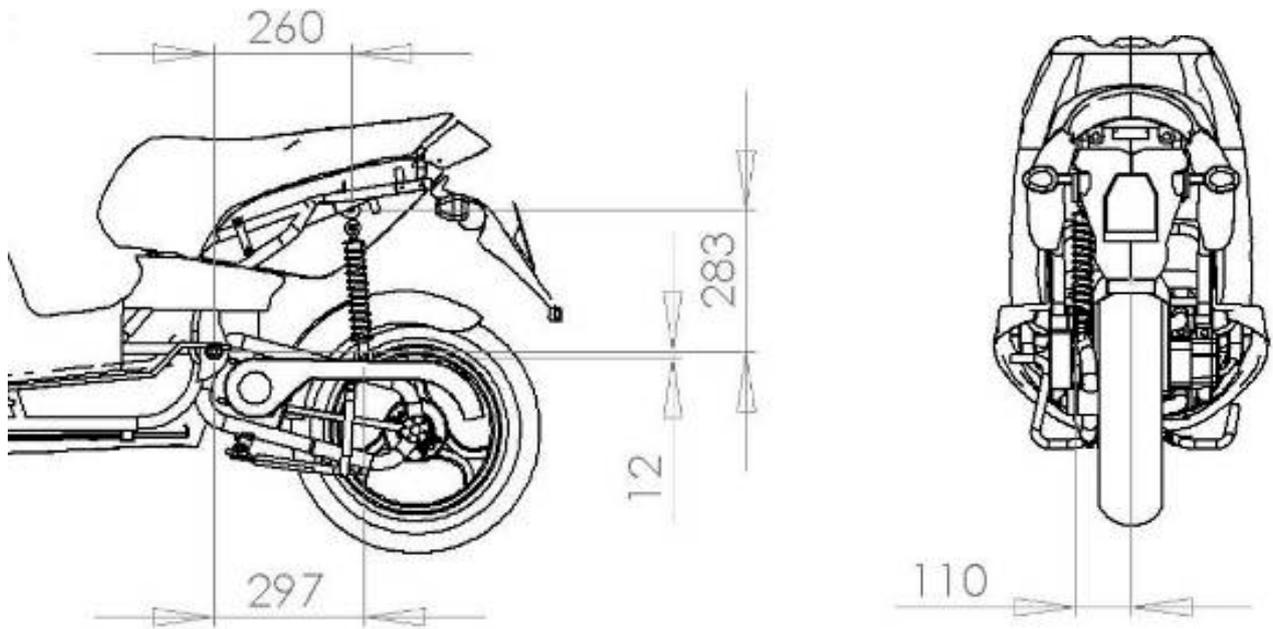
GOVECS SP Z.O.O.

TYPE:

4E

Variant: ??

Version: ??



DRAWING OF REAR SUSPENSION ARRANGEMENT

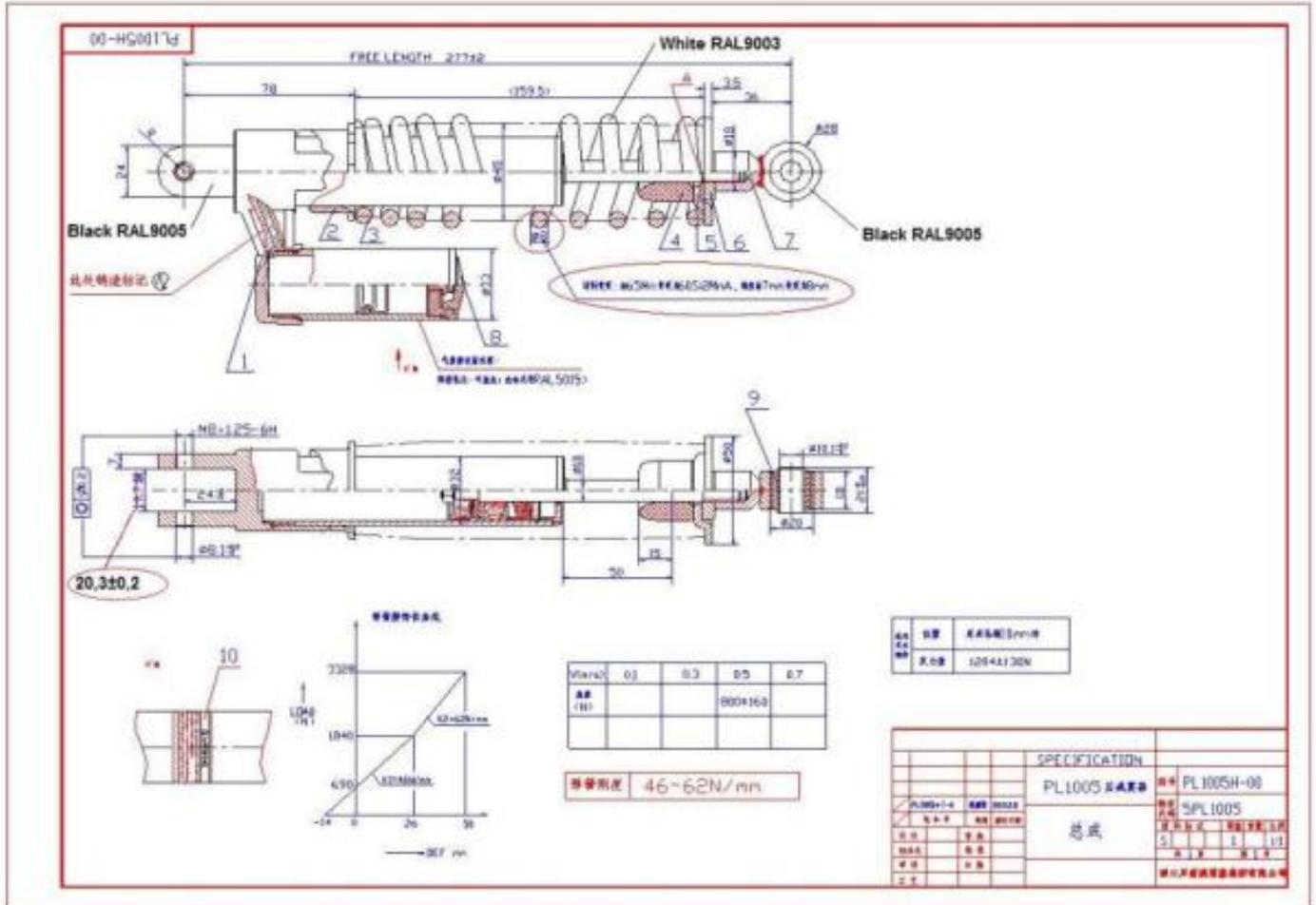
Drawing n.

DWG08

5.1

21-Mar-13

UK Approval Authority



DRAWING OF REAR SHOCK ABSORBER

Drawing n.

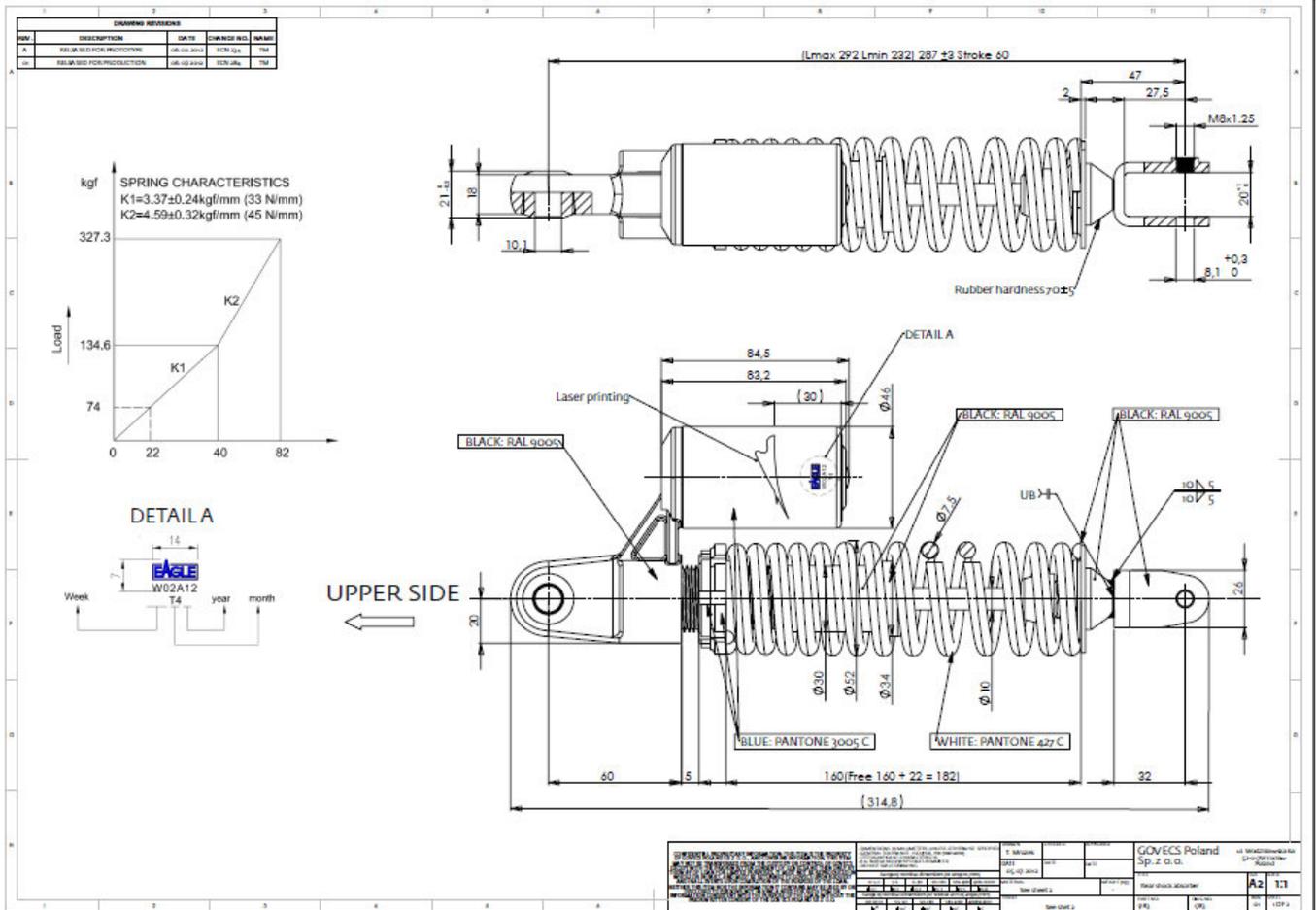
DWG08.1

21-Mar-13

5.1



AS AN ALTERNATIVE



DRAWING OF REAR SHOCK ABSORBER

Drawing n.

DWG08.2

5.1

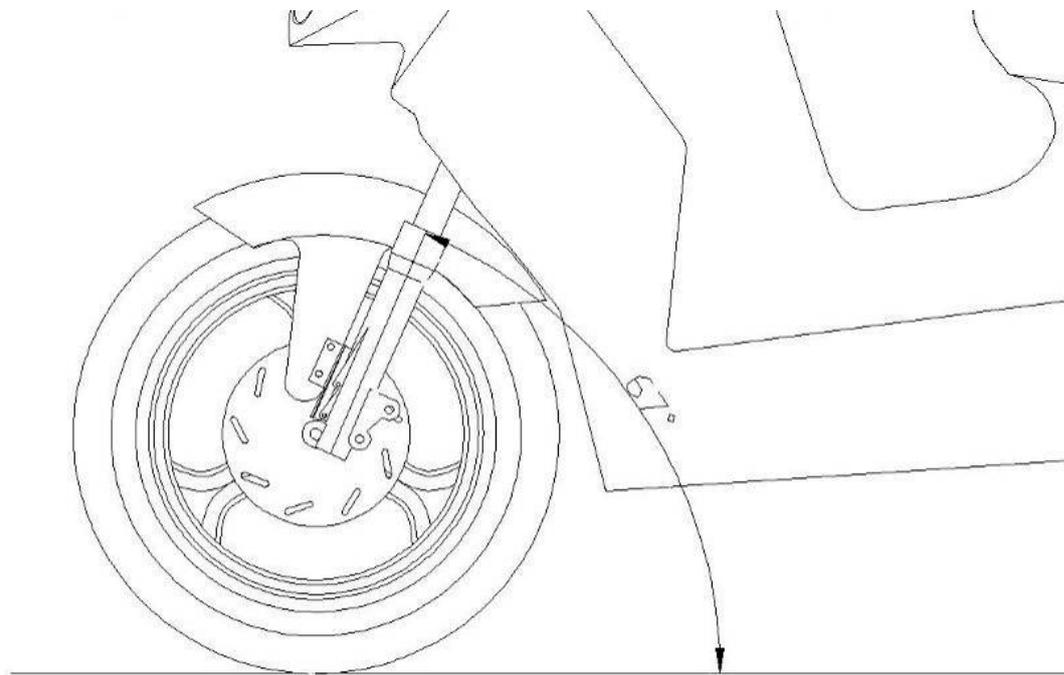


GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??



**DRAWING OF FRONT SUSPENSION
ARRANGEMENT**

Drawing n.

DWG09

5.1



GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??



E.B.R.
BAZZANO (BO)
ITALY

DESCRIZIONE: FORCELLA IDRAULICA Ø32

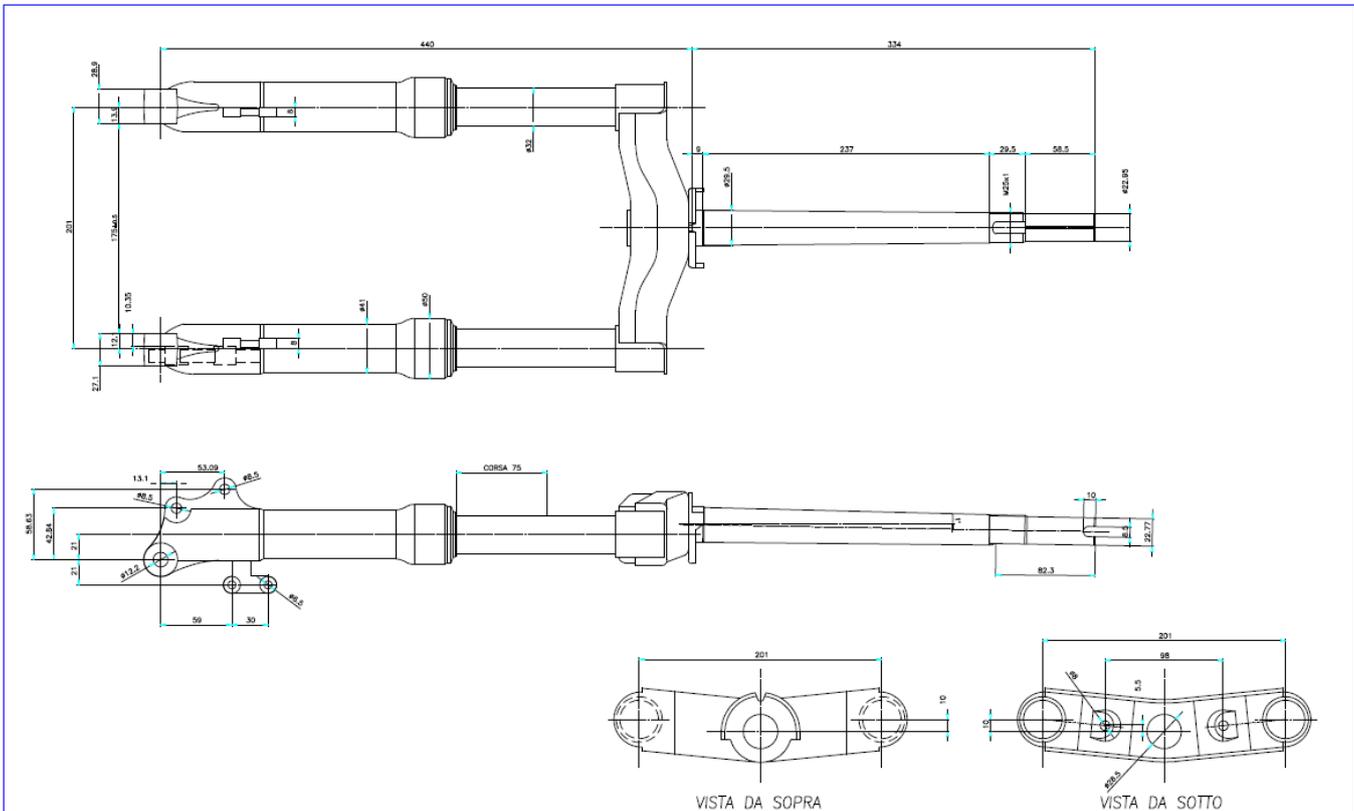
CODICE:
FO75600

DISEGNO: INSIEME

Rev.: 0

Foglio 1 di 1

Filename: FO75600-I.DWG



DRAWING OF FRONT FORK

Drawing n.

DWG09.1

5.1

21-Mar-13



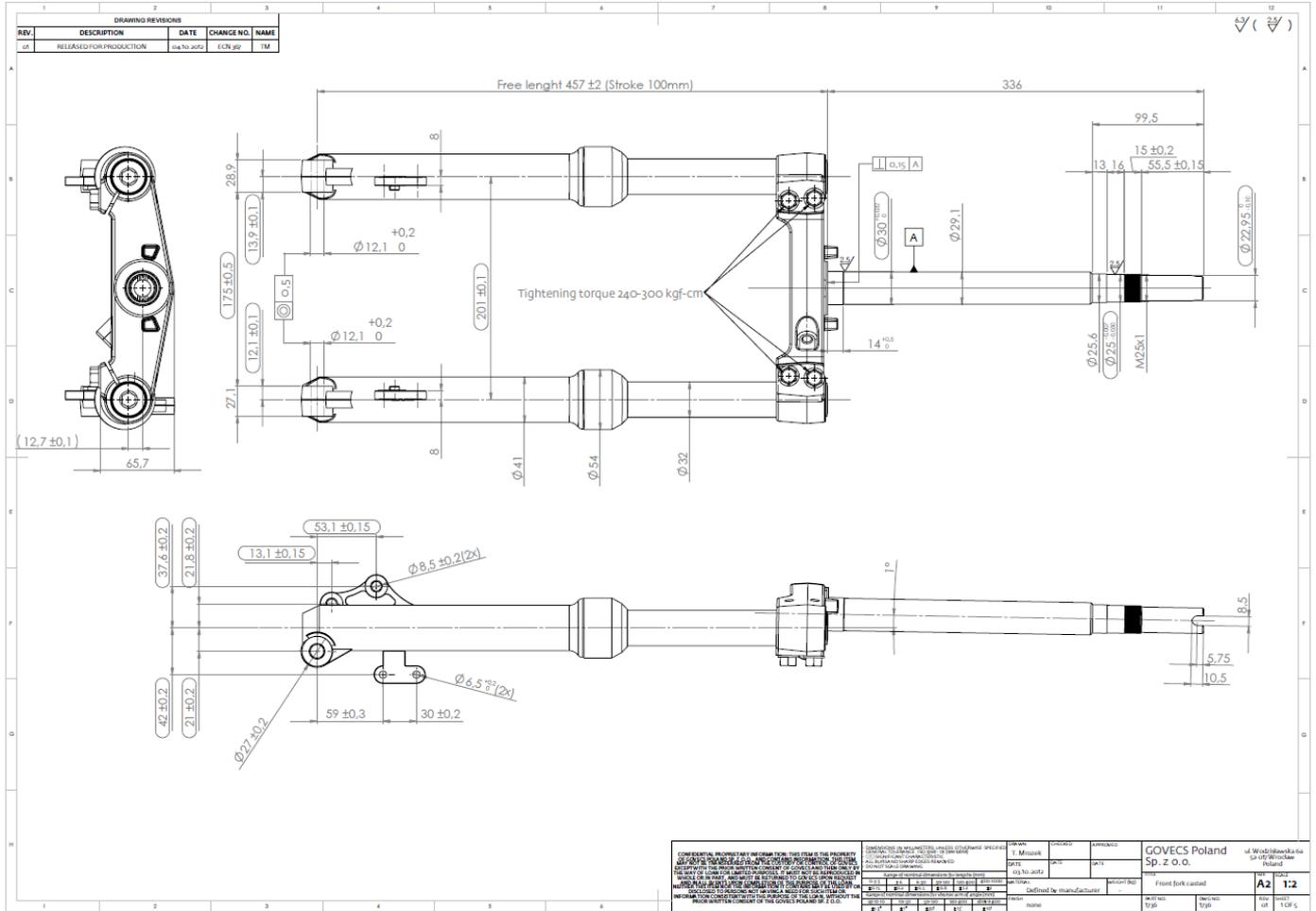
GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??

AS AN ALTERNATIVE

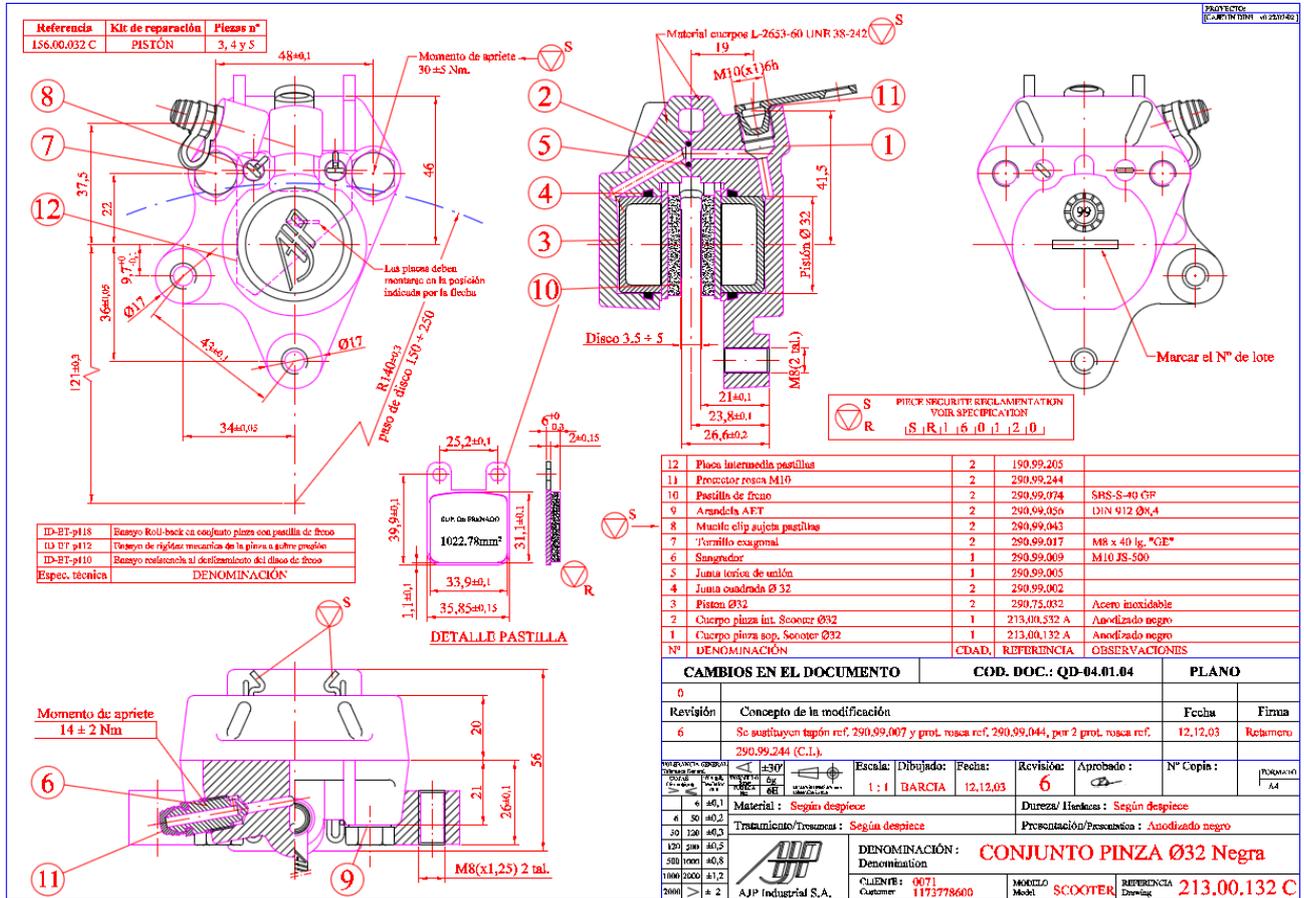


DRAWING OF FRONT FORK

Drawing n. DWG09.2

5.1





DRAWING OF FRONT BRAKE CALIPER

Drawing n.

DWG10

21 Mar 13

7.3.1



GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93, 9E, 73, 7E, 7F

Version: ??

AS AN ALTERNATIVE

技术要求

- 各零件在装配前应清洗干净, 次于或烘干, 零件表面;
- 件 a 表面加工以消除毛刺和尖角;
- 件 a 及后盖材料应经防锈处理并有防锈保护层;
- 装配时的配合: H8/f7H6;
- 安装时与气室密封量为: 0.05-0.10mm;
- 缸口密封性: 1.2MPa 气压, 保持 3h, 不泄漏;
- 缸口密封性: 7MPa 气压, 保持 3h, 不泄漏;
- 缸体密封性: 密封后增加压力 7MPa, 保持 3h, 漏气量 0.10-0.20mm;
- 缸口密封性: 7MPa 下, 活塞中心线距缸口不大于 0.10mm;
- 零件表面涂防锈油, 喷涂后应不影响装配, 如后序装配。

10	8811-85	内六角圆柱头螺钉	1	30	镀锌
11	7100120108	O 型密封圈	1	40mm	氟胶
12	87120208	O 型密封圈	1	25mm	氟胶
13	710012005	O 型密封圈	1	25mm	氟胶
14	720021200	制动蹄衬套	2	170mm	镀锌
15	720021200	制动蹄衬套	2	170mm	镀锌
16	720021200	制动蹄衬套	2	170mm	镀锌
17	720021200	制动蹄衬套	2	170mm	镀锌
18	720021200	制动蹄衬套	2	170mm	镀锌
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20	720021200	制动蹄衬套	2	170mm	镀锌
21	720021200	制动蹄衬套	2	170mm	镀锌
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98	720021200	制动蹄衬套	2	170mm	镀锌
99	720021200	制动蹄衬套	2	170mm	镀锌
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DRAWING OF FRONT BRAKE CALIPER

Drawing n. DWG10.1

7.3.1

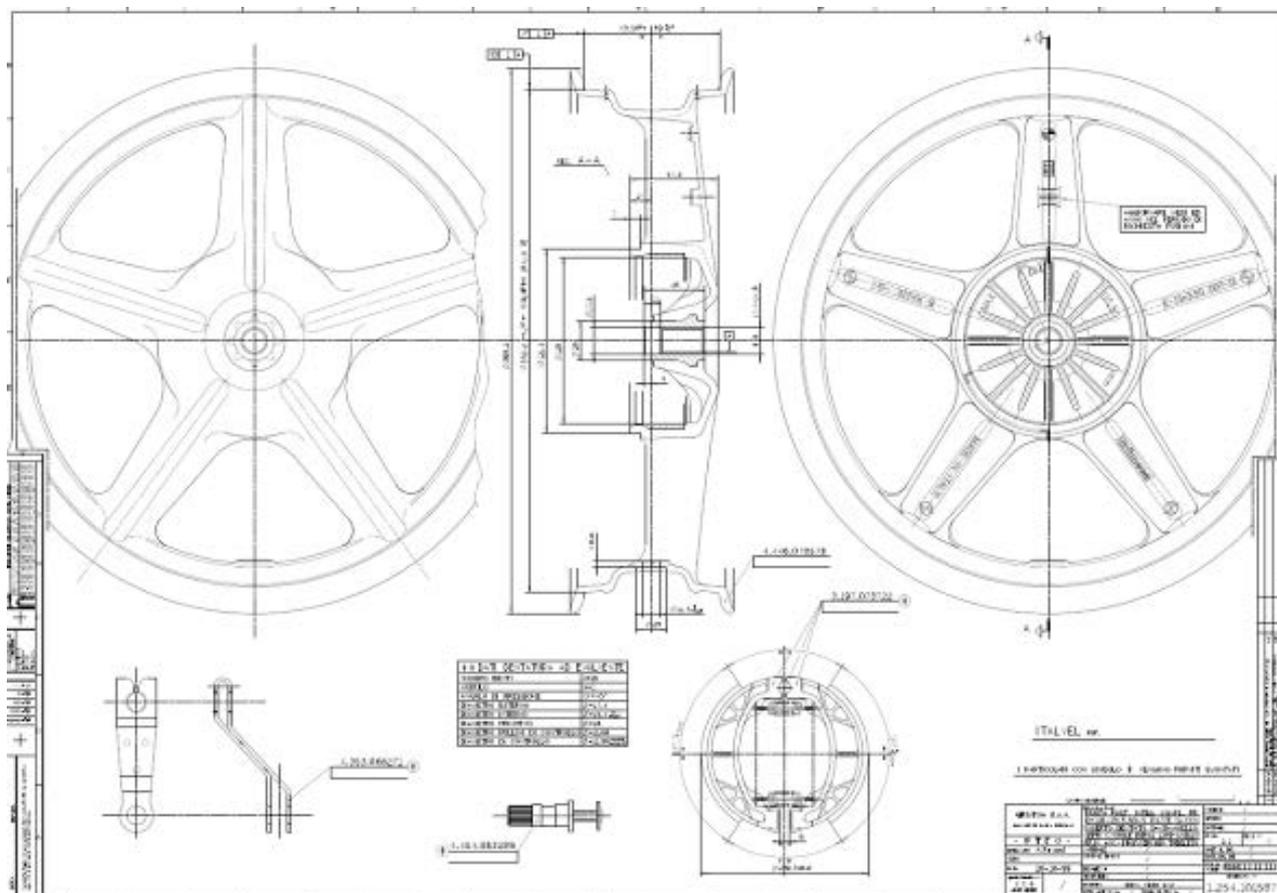


GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93, 9E, 73, 7E

Version: ??



DRAWING OF REAR BRAKE DRUM

Drawing n.

DWG11

7.3.1

21 Mar 13



FOR FRONT DISC BRAKE AND REAR DRUM BRAKE SOLUTION

Referencia: IS6.00.032 C
 Kit de reparación: PISTÓN
 Piezas n°: 3, 4 y 5

Momento de apriete: 30 ± 5 Nm.

Material cuerpo L-2653-60 UNR.38-242

M10(x1,5)ph

Disco 3,5 ± 5

M8(x1,25) 2 tal.

Las pinzas deben montar en la posición indicada por la flecha.

Mostrar el N° de lote

12	Placa intermedia pastillas	2	290.99.205	
11	Protector rosca M10	2	290.99.244	
10	Pastilla de freno	2	290.99.074	SBS-S-40 GF
9	Arandela AET	2	290.99.056	DIN 912 Ø8,4
8	Muelle clip sujetador pastillas	2	290.99.043	
7	Tornillo exagonal	2	290.99.017	M8 x 40 lg. "GE"
6	Sangrador	1	290.99.009	M10 JS-500
5	Junta torica de unión	1	290.99.005	
4	Junta cuadrada Ø 32	2	290.99.002	
3	Pistón Ø32	2	290.75.032	Acero inoxidable
2	Cuerpo pinza int. Scooter Ø32	1	213.00.532 A	Anodizado negro
1	Cuerpo pinza sup. Scooter Ø32	1	213.00.132 A	Anodizado negro
N°	DENOMINACIÓN	CDAD.	REFERENCIA	OBSERVACIONES

PIECE SECURITE REGLAMENTATION VOIR SPECIFICATION (S, R, 1, 16, 10, 1, 2, 0)

CAMBIOS EN EL DOCUMENTO

Revisión	Concepto de la modificación	Fecha	Firma
6	Se sustituyen según ref. 290.99.007 y prot. rosca ref. 290.99.044, por 2 prot. rosca ref. 290.99.244 (C.I.).	12.12.03	Reclamero

Escala: 1:1
 DIBUJADO: BARCIA
 FECHA: 12.12.03
 REVISIÓN: 6
 APROBADO: [Firma]
 N° Copia: [Firma]

Material: Según despiece
 Transmisión/Resaca: Según despiece
 Dureza/Hierro: Según despiece
 Presentación/Presión: Anodizado negro

DENOMINACIÓN: CONJUNTO PINZA Ø32 Negra

CLIENTE: 0071 AJP Industrial S.A.
 Customer: 1173778600
 MODELO: Scooter
 REFERENCIA: 213.00.132 C

Las pinzas deben montar en la posición indicada por la flecha.

Disco 3,5 ± 5

M8(x1,25) 2 tal.

Mostrar el N° de lote

PIECE SECURITE REGLAMENTATION VOIR SPECIFICATION (S, R, 1, 16, 10, 1, 2, 0)

12	Placa intermedia pastillas	2	190.99.205	
11	Protector rosca M10	2	290.99.244	
10	Pastilla de freno	2	290.99.074	SBS-S-40 GF
9	Arandela AET	2	290.99.056	DIN 912 Ø8,4
8	Muelle clip sujetador pastillas	2	290.99.043	
7	Tornillo exagonal	2	290.99.017	M8 x 40 lg. "GE"
6	Sangrador	1	290.99.009	M10 JS-500
5	Junta torica de unión	1	290.99.005	
4	Junta cuadrada Ø 32	2	290.99.002	
3	Pistón Ø32	2	290.75.032	Acero inoxidable
2	Cuerpo pinza int. Scooter Ø32	1	213.00.532 A	Anodizado negro
1	Cuerpo pinza sup. Scooter Ø32	1	213.00.132 A	Anodizado negro
N°	DENOMINACIÓN	CDAD.	REFERENCIA	OBSERVACIONES



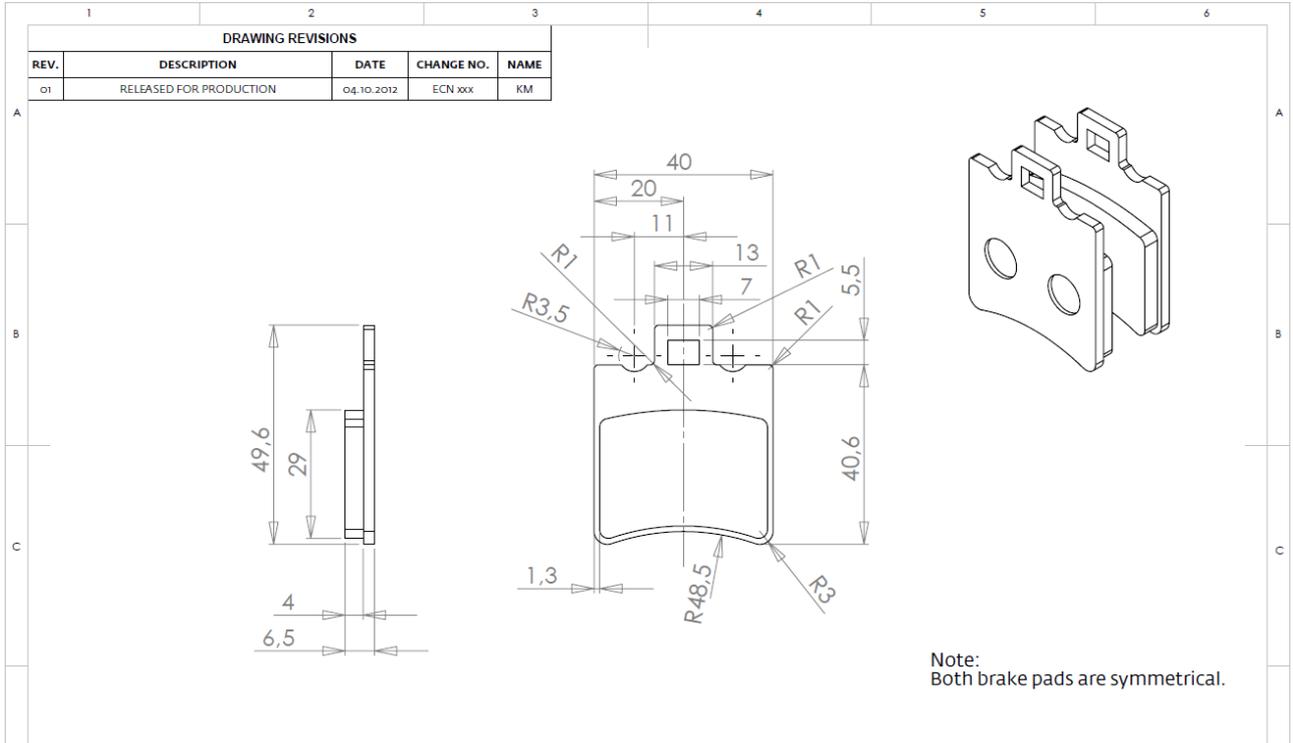
GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93, 9E, 73, 7E, 7F

Version: ??

FOR FRONT AND REAR DISC BRAKE SOLUTION



Note: Both brake pads are symmetrical.

<p>CONFIDENTIAL PROPRIETARY INFORMATION: THIS ITEM IS THE PROPERTY OF GOVECS POLAND SP. Z O.O., AND CONTAINS INFORMATION. THIS ITEM MAY NOT BE TRANSFERRED FROM THE CUSTODY OR CONTROL OF GOVECS EXCEPT WITH THE PRIOR WRITTEN CONSENT OF GOVECS AND THEN ONLY BY THE WAY OF LOAN FOR LIMITED PURPOSES. IT MUST NOT BE REPRODUCED IN WHOLE OR IN PART, AND MUST BE RETURNED TO GOVECS UPON REQUEST AND IN ALL EVENTS UPON COMPLETION OF THE PURPOSE OF THE LOAN. NEITHER THIS ITEM NOR THE INFORMATION IT CONTAINS MAY BE USED OR DISCLOSED TO PERSONS NOT HAVING A NEED FOR SUCH ITEM OR INFORMATION CONSISTENT WITH THE PURPOSE OF THE LOAN, WITHOUT THE PRIOR WRITTEN CONSENT OF THE GOVECS POLAND SP. Z O.O.</p>	<p>DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED</p> <p>GENERAL TOLERANCE ISO 2768 - mK (see table)</p> <p>— SIGNIFICANT CHARACTERISTIC</p> <p>— ALL BURRS AND SHARP EDGES REMOVED</p> <p>— DO NOT SCALE DRAWING</p>	<p>DRAWN K.Maruda</p> <p>DATE 2012-10-04</p>	<p>CHECKED</p> <p>DATE</p>	<p>APPROVED</p> <p>DATE</p>	<p>GOVECS Poland</p> <p>Sp. z o.o.</p>	<p>ul. Wodzisławska 6a</p> <p>52-017 Wrocław</p> <p>Poland</p>																		
	<table border="1"> <tr> <th colspan="6">Range of nominal dimensions for lengths (mm)</th> </tr> <tr> <td>0-50</td> <td>50-100</td> <td>100-150</td> <td>150-200</td> <td>200-400</td> <td>400-1000</td> </tr> <tr> <td>±0.1</td> <td>±0.1</td> <td>±0.2</td> <td>±0.3</td> <td>±0.5</td> <td>±0.8</td> </tr> </table>	Range of nominal dimensions for lengths (mm)						0-50	50-100	100-150	150-200	200-400	400-1000	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	<p>MATERIAL Defined by manufacturer</p>	<p>WEIGHT (kg) XXX</p>	<p>TITLE Set of front brake pads</p>	<p>SIZE A4</p>	<p>SCALE 1:1</p>
	Range of nominal dimensions for lengths (mm)																							
	0-50	50-100	100-150	150-200	200-400	400-1000																		
±0.1	±0.1	±0.2	±0.3	±0.5	±0.8																			
<table border="1"> <tr> <th colspan="6">Range of nominal dimensions for shorter arm of angle (mm)</th> </tr> <tr> <td>up to 10</td> <td>10-50</td> <td>50-120</td> <td>120-400</td> <td>400-600</td> <td>600-1000</td> </tr> <tr> <td>±1°</td> <td>±30'</td> <td>±20'</td> <td>±10'</td> <td>±5'</td> <td>±5'</td> </tr> </table>	Range of nominal dimensions for shorter arm of angle (mm)						up to 10	10-50	50-120	120-400	400-600	600-1000	±1°	±30'	±20'	±10'	±5'	±5'	<p>FINISH XXX</p>	<p>PART NO. 1761</p>	<p>DWG NO. 1761</p>	<p>REV. 01</p>	<p>SHEET 1 OF 1</p>	
Range of nominal dimensions for shorter arm of angle (mm)																								
up to 10	10-50	50-120	120-400	400-600	600-1000																			
±1°	±30'	±20'	±10'	±5'	±5'																			



national non-metal products quality inspection center			
inspection report			
name	HCD108	trade mark	-----
client	Mowefter Friction Material CO.,Ltd.	test category	authorize
address	Four Group, Three Village, JiuBao Town, HangZhou City, Zhejiang	sample grade	-----
tested by	Four Group, Three Village, JiuBao Town, HangZhou City, Zhejiang	date	2010-08-25
sample point	-----	sender	Wei Li
sample quantity	2pcs	production date	-----
sampling basic No.	-----	inspection item	mineral composition determination
inspection equipment	X-ray diffraction analyzer	status	pads
sampling plan	-----		
test conclusion	By X-ray diffraction analysis, no found any asbestos minerals.		
remarks	The test report only guarantees the tested samples		

DRAWING OF FRONT BRAKE PADS

Drawing n.

DWG12.1

7.3.2

21 Mar 13

Approval Authority

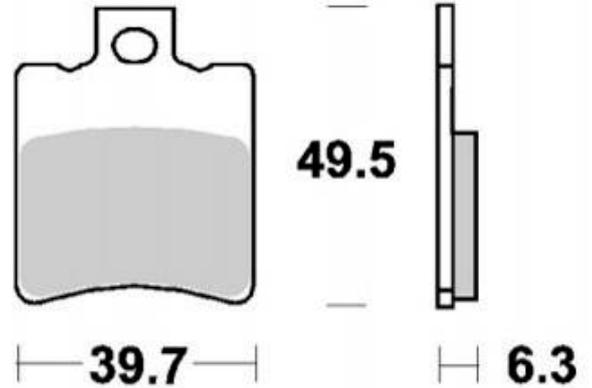
GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93, 9E, 73, 7E, 7F

Version: ??

AS AN ALTERNATIVE FOR FRONT AND REAR DISC BRAKE SOLUTION



Technical Datasheet

09.09.2004/JV

Lining

SBS-S-40GF (HF)

General Description

SBS-S-40GF is a TÜV approved non asbestos organic friction material with a stable friction coefficient under both wet and dry conditions.

Application

General purpose touring bikes.

Recommended Mating Surface

Stainless steel.
Good quality fine grained perlitic cast iron - GG15-20.

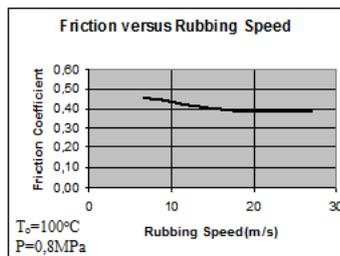
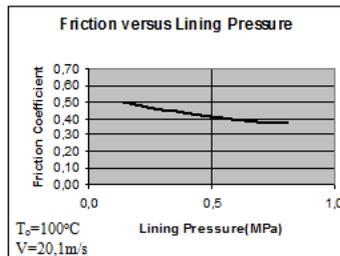
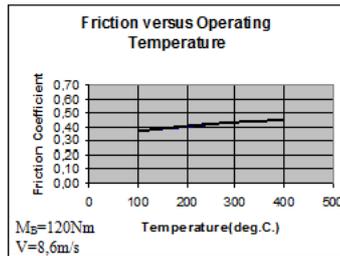
Recommended Operating Range

Working pressure (typical): 0,2-1,7 MPa
Continuous operating temperature: >250°C
Maximum temperature: approx. 400 °C

Physical properties

Density (g/cm³): 3
Shear strength (N/cm²): min. 350
Rockwell hardness (HRR): 100-125

Friction



DRAWING OF FRONT BRAKE PADS

Drawing n. DWG12.2

7.3.2



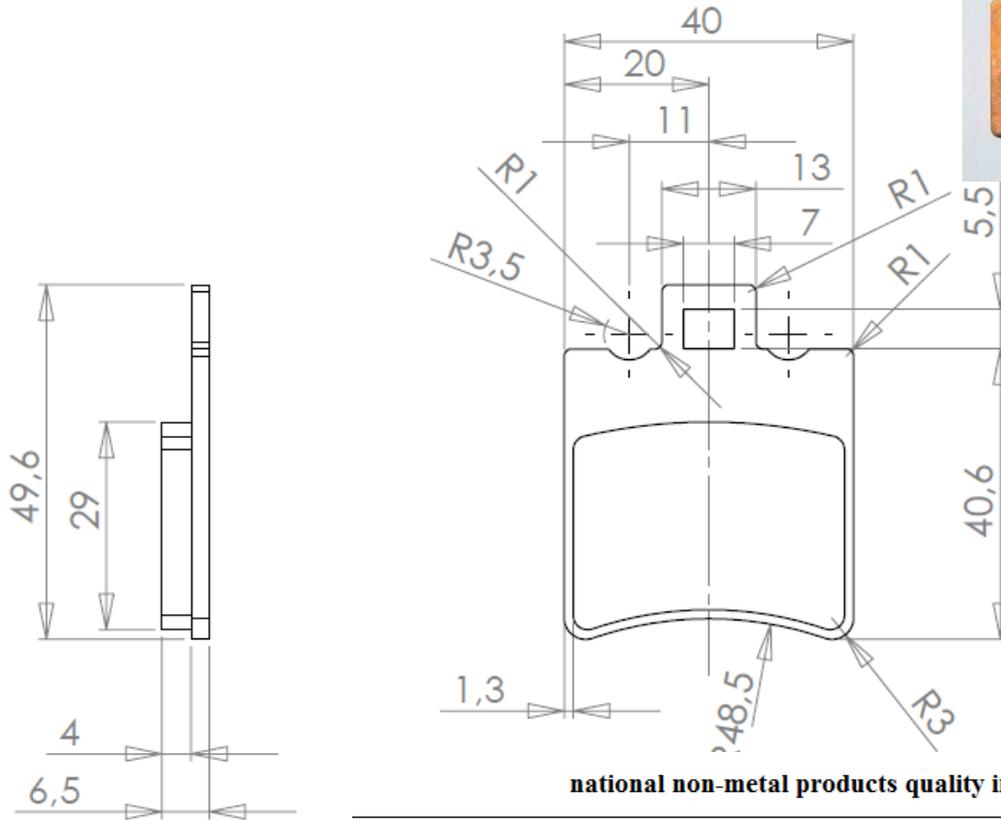
GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93, 9E, 73, 7E, 7F

Version: ??

AS AN ALTERNATIVE FOR FRONT AND REAR DISC BRAKE SOLUTION



national non-metal products quality inspection center

inspection report

name	Copper base semimetal friction material	mode	2V8Y-0014-L
		trade mark	FJ
client	Hangzhou Yuhuang Qianchao Friction Material CO.,Ltd.	test category	authorize
address	Cangqian Railway Station, Cangqian Town, Yuhuang District, Hangzhou City	sample grade	-----
tested by	-----	date	2012-01-14
sample point	-----	sender	Luo Fuguan
sample quantity	2 pcs	production date	-----
sampling basic No.	-----	inspection item	mineral composition determination
inspection equipment	X-ray diffraction analyzer	status	disc brake pads
sampling plan	-----		
test conclusion	By X-ray diffraction analysis,no found any asbestos minerals.		
remarks	The test report only guarantees the tested samples		

DRAWING OF FRONT BRAKE PADS

Drawing n.

DWG12.3

7.3.2

21 Mar 13

Approval Authority

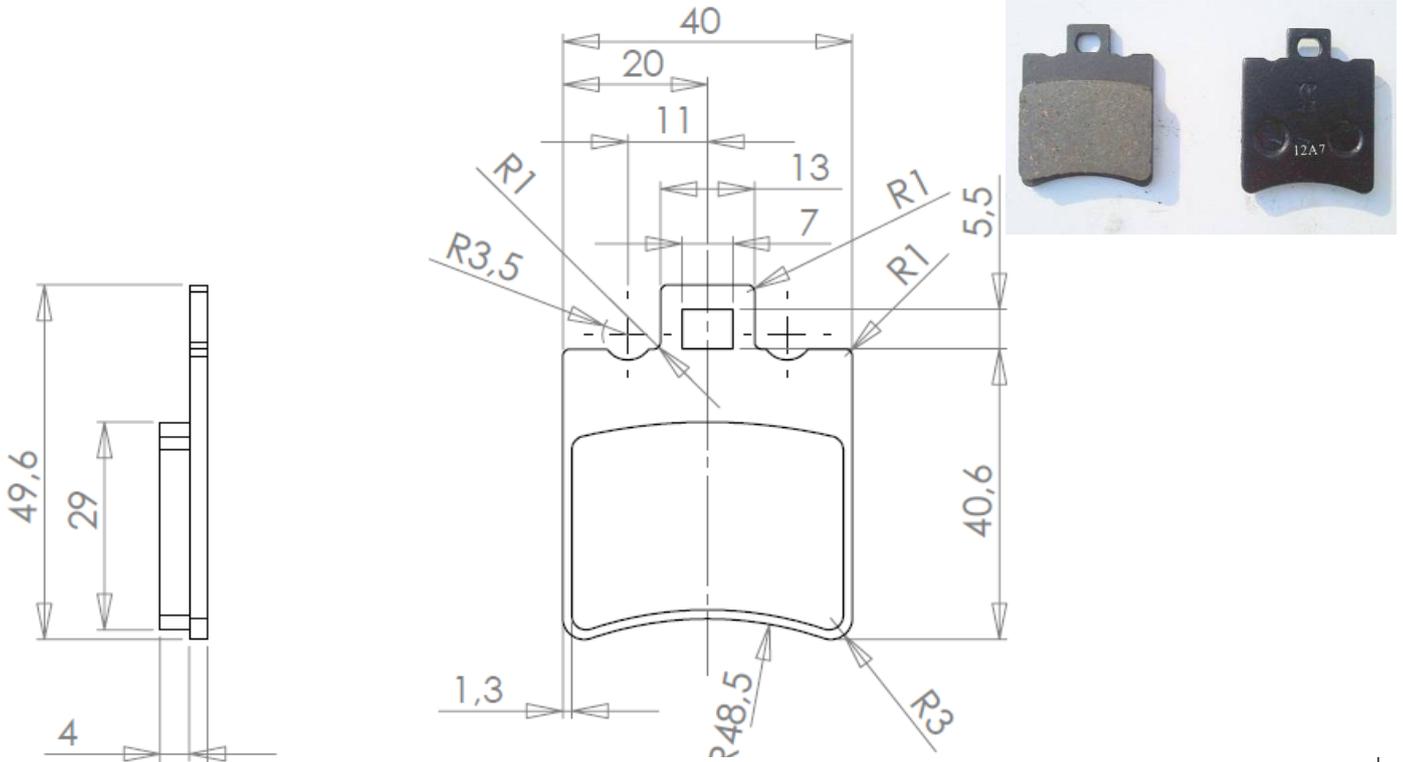
GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93, 9E, 73, 7E, 7F

Version: ??

AS AN ALTERNATIVE FOR FRONT AND REAR DISC BRAKE SOLUTION



national non-metal products quality inspection center

inspection report

name	Sintered copper alloy friction material	mode	FJ009
		trade mark	FJ
client	Hangzhou Yuhuang Qianchao Friction Material CO.,Ltd.	test category	authorize
address	Cangqian Railway Station, Cangqian Town, Yuhuang District, Hangzhou City	sample grade	-----
tested by	-----	date	2011-06-29
sample point	-----	sender	Luo Fuguan
sample quantity	1 pc	production date	-----
sampling basic No.	-----	inspection item	mineral composition determination
inspection equipment	X-ray diffraction analyzer	status	disc brake pads
sampling plan	-----		
test conclusion	By X-ray diffraction analysis, no found any asbestos minerals.		
remarks	The test report only guarantees the tested samples		

DRAWING OF FRONT BRAKE PADS

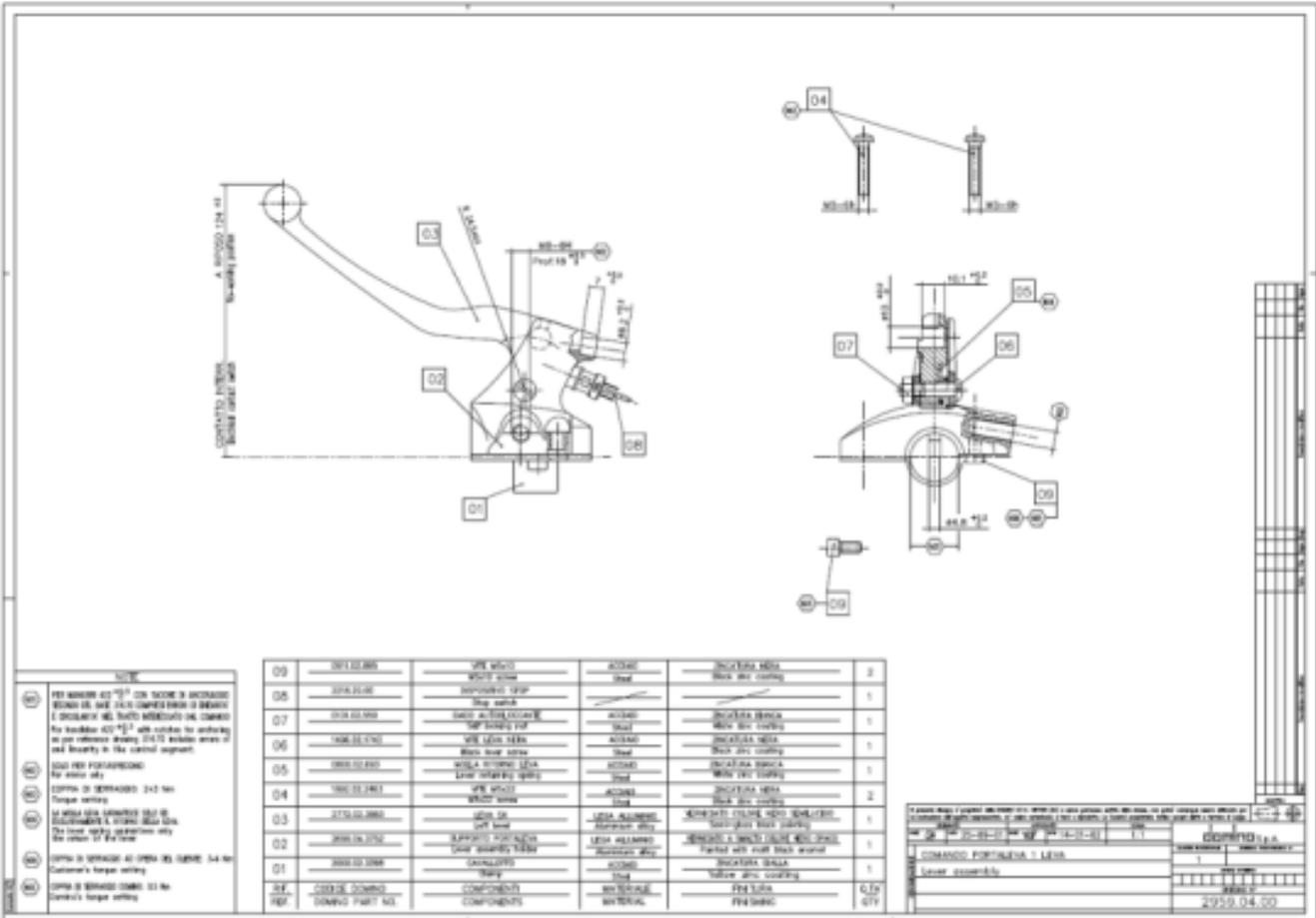
Drawing n.

DWG12.4

7.3.2

21 Mar 13

Approval Authority



NOTE

PER INFORMAZIONI RELATIVE ALLE DIMENSIONI INCREMENTALI, RIFERIRSI ALLE TABELLE COMPRESSE IN QUESTO DOCUMENTO. PER INFORMAZIONI RELATIVE ALLE DIMENSIONI DI RIFERIMENTO, RIFERIRSI ALLE TABELLE COMPRESSE IN QUESTO DOCUMENTO. PER INFORMAZIONI RELATIVE ALLE DIMENSIONI DI RIFERIMENTO, RIFERIRSI ALLE TABELLE COMPRESSE IN QUESTO DOCUMENTO.

PER INFORMAZIONI RELATIVE ALLE DIMENSIONI INCREMENTALI, RIFERIRSI ALLE TABELLE COMPRESSE IN QUESTO DOCUMENTO. PER INFORMAZIONI RELATIVE ALLE DIMENSIONI DI RIFERIMENTO, RIFERIRSI ALLE TABELLE COMPRESSE IN QUESTO DOCUMENTO.

PER INFORMAZIONI RELATIVE ALLE DIMENSIONI INCREMENTALI, RIFERIRSI ALLE TABELLE COMPRESSE IN QUESTO DOCUMENTO. PER INFORMAZIONI RELATIVE ALLE DIMENSIONI DI RIFERIMENTO, RIFERIRSI ALLE TABELLE COMPRESSE IN QUESTO DOCUMENTO.

QTY	DESCRIPTION	UNIT	MATERIAL	REMARKS	QTY
09	SPRING	SPRING	STEEL	SPRING	2
08	CONTACT POINT	CONTACT POINT	STEEL	CONTACT POINT	1
07	ADJUSTMENT SCREW	ADJUSTMENT SCREW	STEEL	ADJUSTMENT SCREW	1
06	ADJUSTMENT SCREW	ADJUSTMENT SCREW	STEEL	ADJUSTMENT SCREW	1
05	ADJUSTMENT SCREW	ADJUSTMENT SCREW	STEEL	ADJUSTMENT SCREW	1
04	ADJUSTMENT SCREW	ADJUSTMENT SCREW	STEEL	ADJUSTMENT SCREW	2
03	ADJUSTMENT SCREW	ADJUSTMENT SCREW	STEEL	ADJUSTMENT SCREW	1
02	ADJUSTMENT SCREW	ADJUSTMENT SCREW	STEEL	ADJUSTMENT SCREW	1
01	LEVER ASSEMBLY	LEVER ASSEMBLY	STEEL	LEVER ASSEMBLY	1
00	COMPONENTS	COMPONENTS	STEEL	COMPONENTS	0.19
00	COMPONENTS	COMPONENTS	STEEL	COMPONENTS	0.19

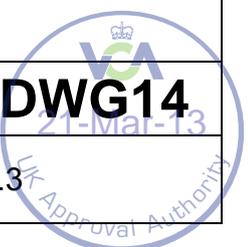
GOVECS S.p.A.	29/04/2008
COMANDO FORTINERIA S. LEVA	29/04/2008
LEVER ASSEMBLY	29/04/2008
29/04/2008	29/04/2008

DRAWING OF LEFT BRAKE LEVER

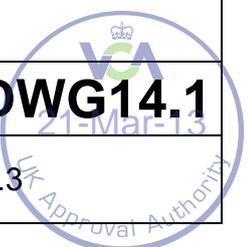
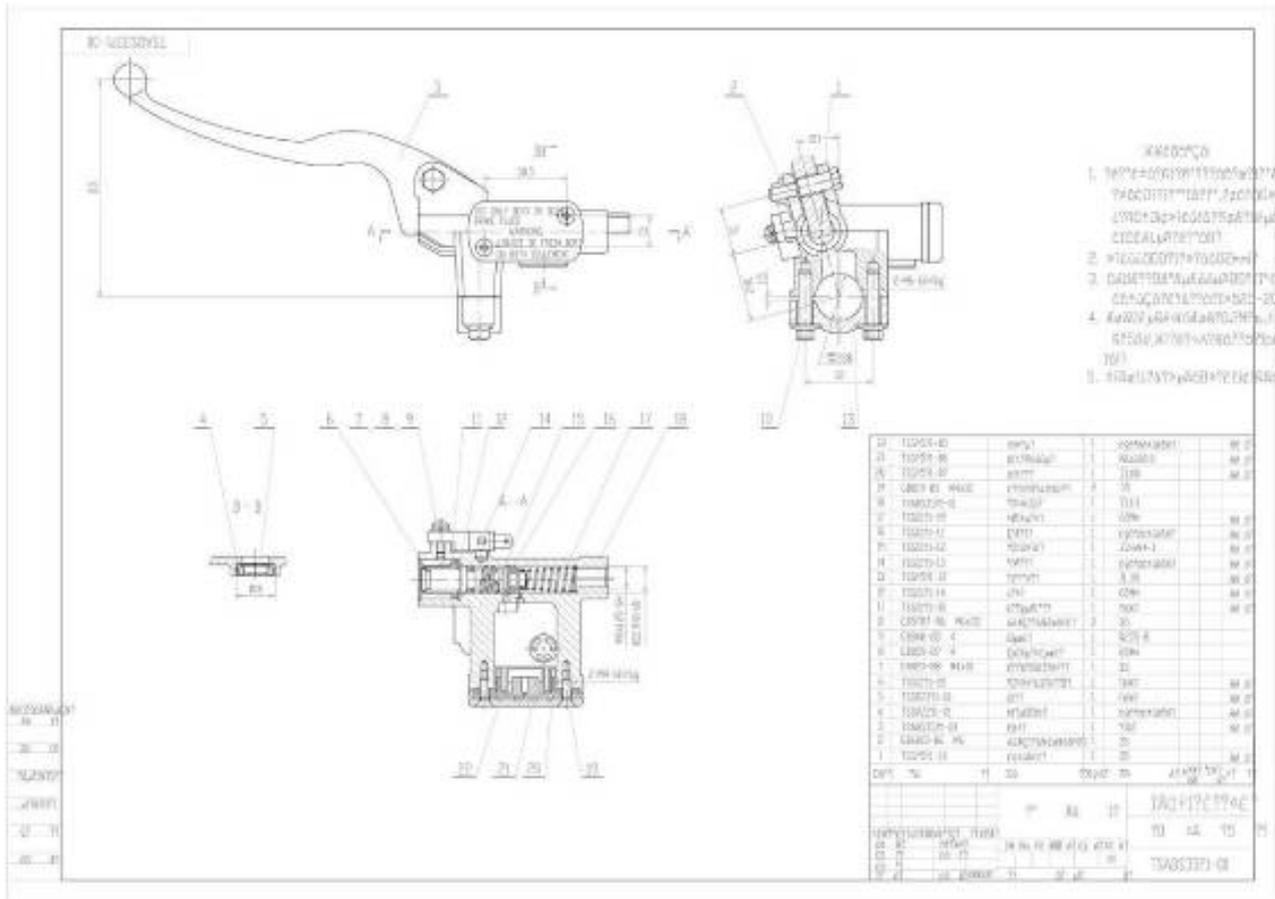
Drawing n.

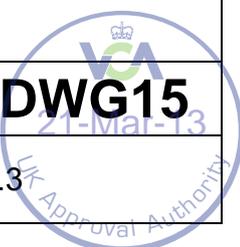
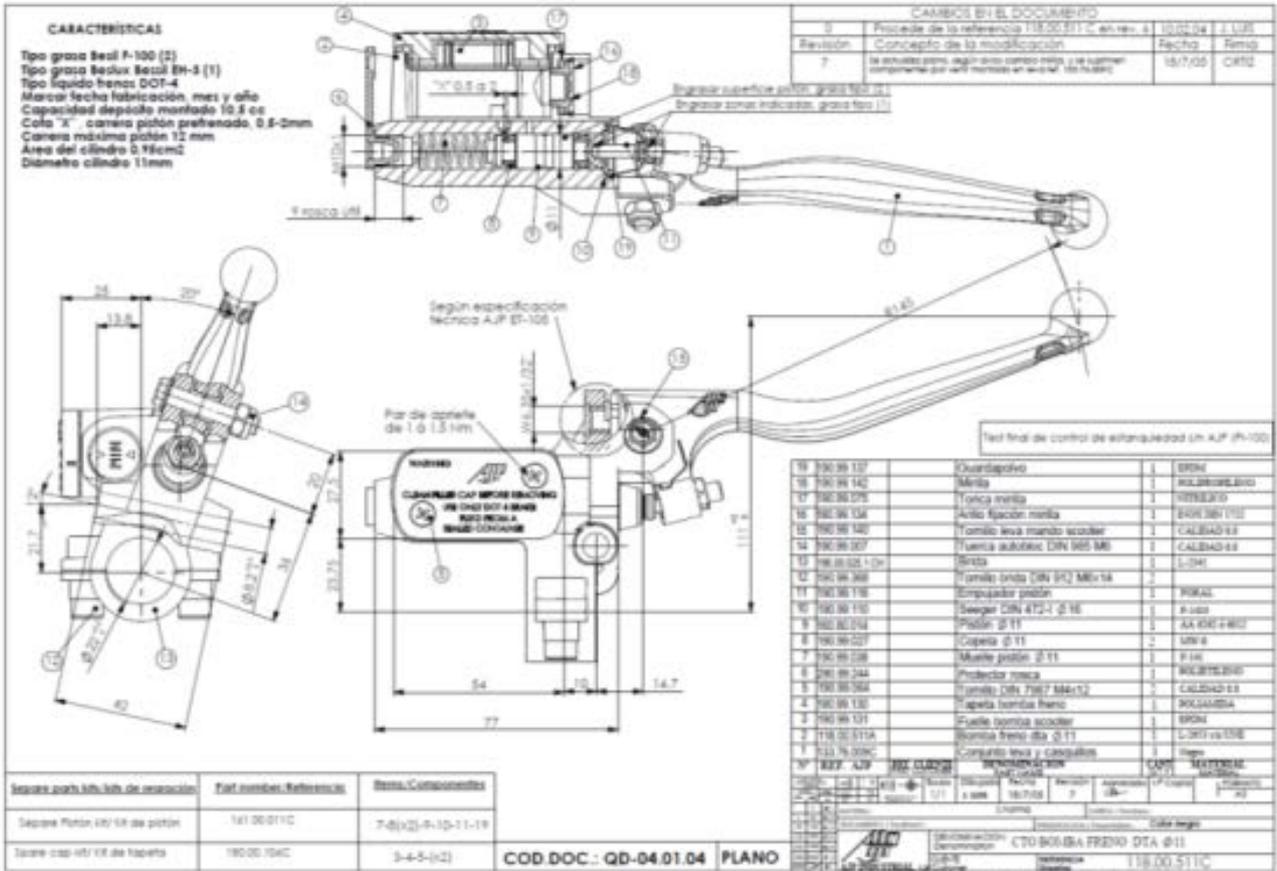
DWG14

7.3.3

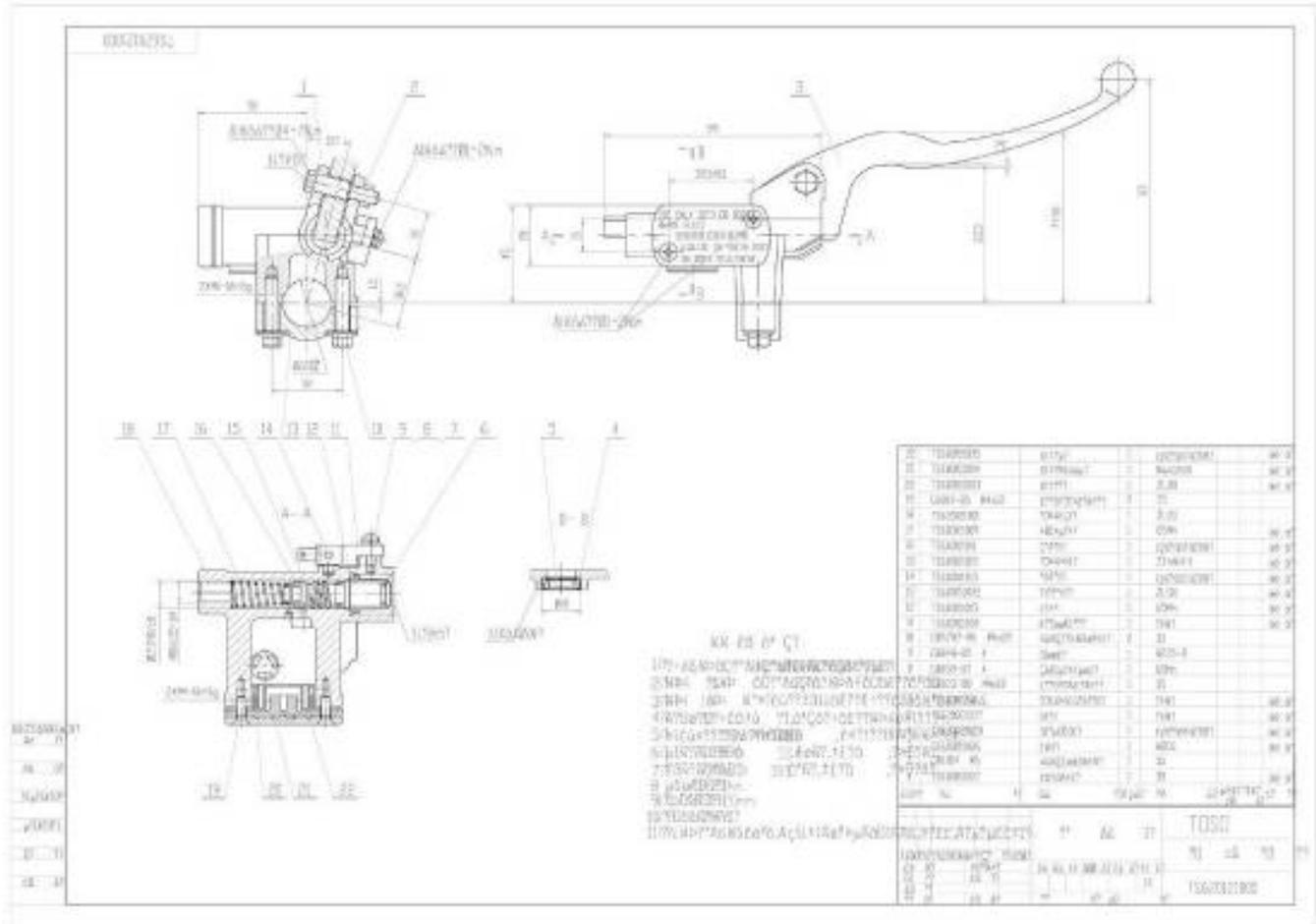


AS AN ALTERNATIVE





AS AN ALTERNATIVE

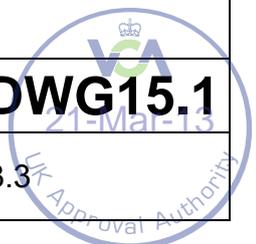


DRAWING OF RIGHT BRAKE LEVER

Drawing n.

DWG15.1

7.3.3

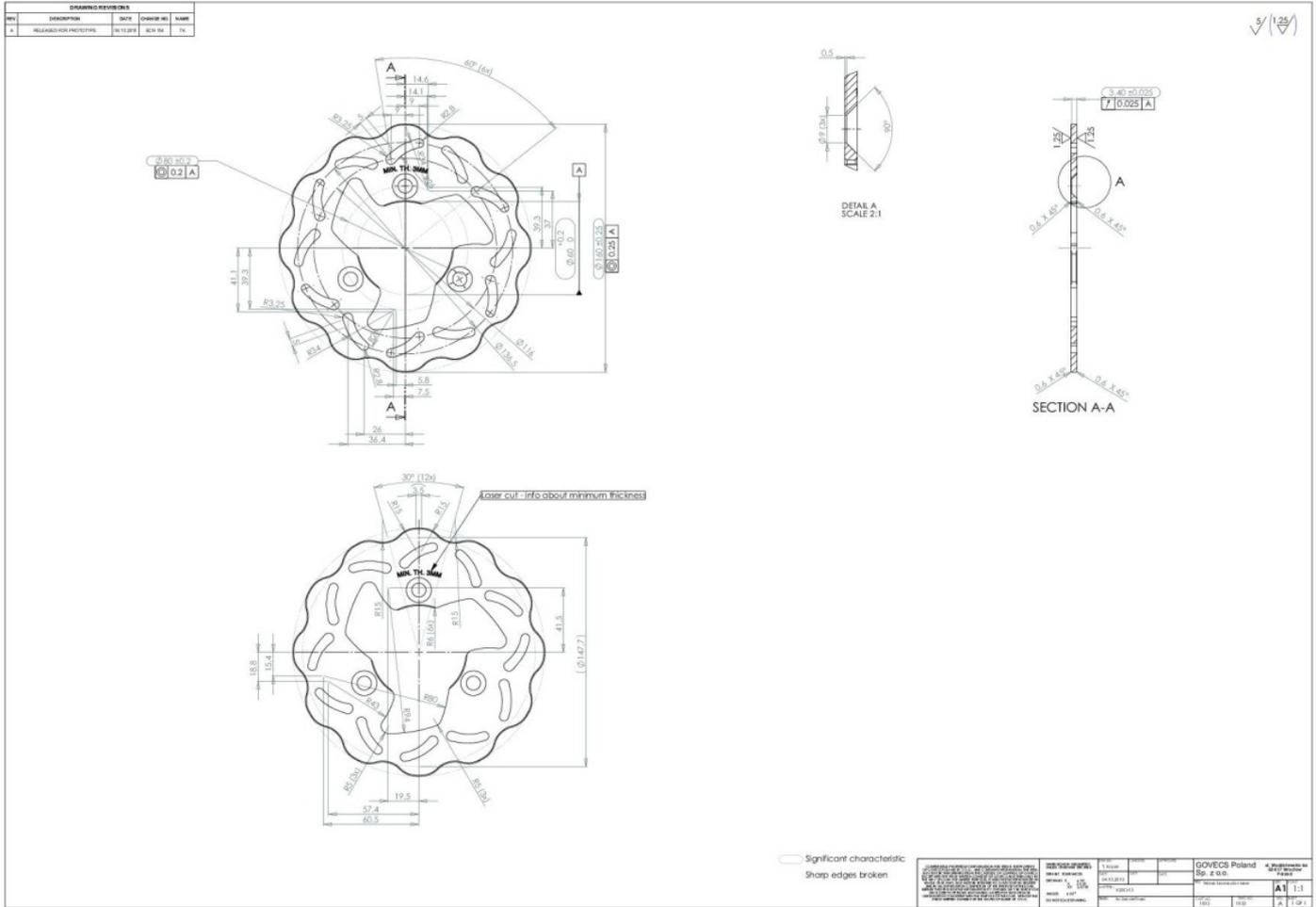


GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??



DRAWING OF REAR BRAKE DISC

Drawing n.

DWG17

7.4

21-Mar-19
UK Approval Authority

GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??

DIPPED BEAM LAMP POSITION AND FRONT POSITION LAMP POSITION



REAR POSITION LAMP POSITION AND STOP LAMP POSITION



HEAD LIGHT LAMP POSITION

Drawing n.

DWG18

8.2



GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??

FRONT AND REAR DIRECTION INDICATOR LAMP POSITION



FRONT AND REAR DIRECTION INDICATOR LAMP POSITION

Drawing n.

DWG19

8.2



GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??

SIDE AND REAR RETRO-REFLECTOR POSITION



SIDE AND REAR RETRO-REFLECTOR POSITION

Drawing n.

DWG20

8.2



GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??

LH DIRECTION INDICATOR

RH DIRECTION INDICATOR



MAIN - BEAM
TELL-TALE



LIGHTING SWITCH
DIPPED-BEAM / MAIN-BEAM



ECONOMY
SWITCH

CUT-OFF SWITCH

DIRECTION
INDICATOR
SWITCH



AUDIBLE WARNING
DEVICE CONTROL

**ARRANGEMENT OF SYMBOLS,
CONTROLS, TELL-TALES AND
INDICATORS**

Drawing n.

DWG21

21-Mar-13

9.2.1

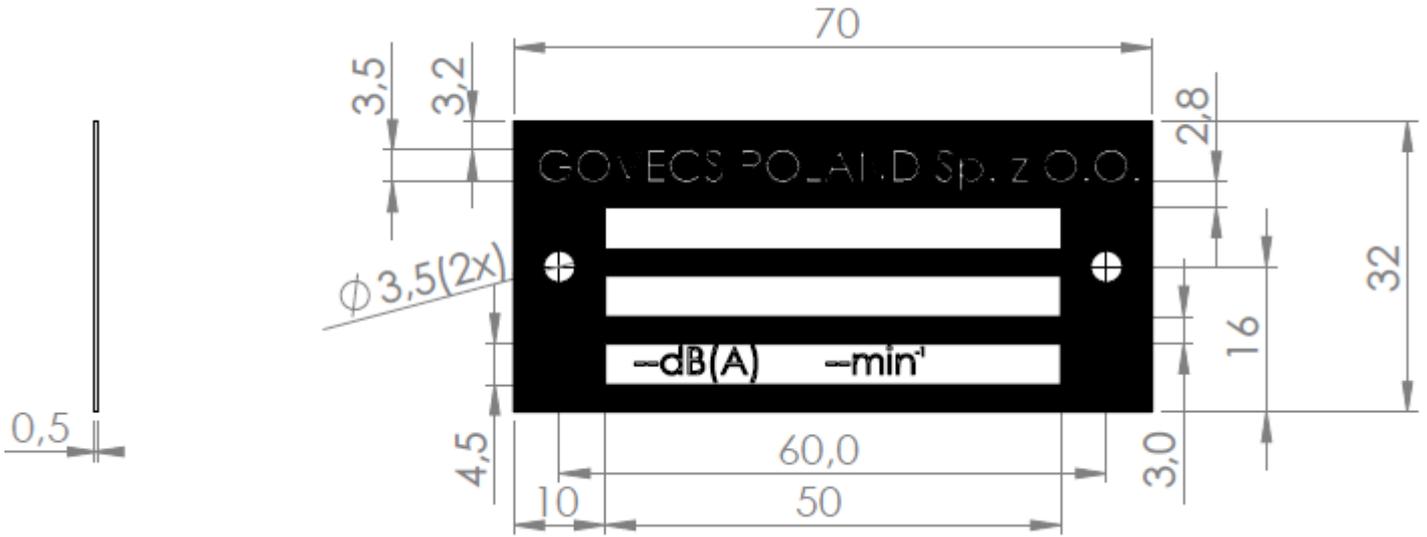
Approval Authority

GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??



TEXT HEIGHT: 3MM

DRAWING OF STATUTORY PLATE

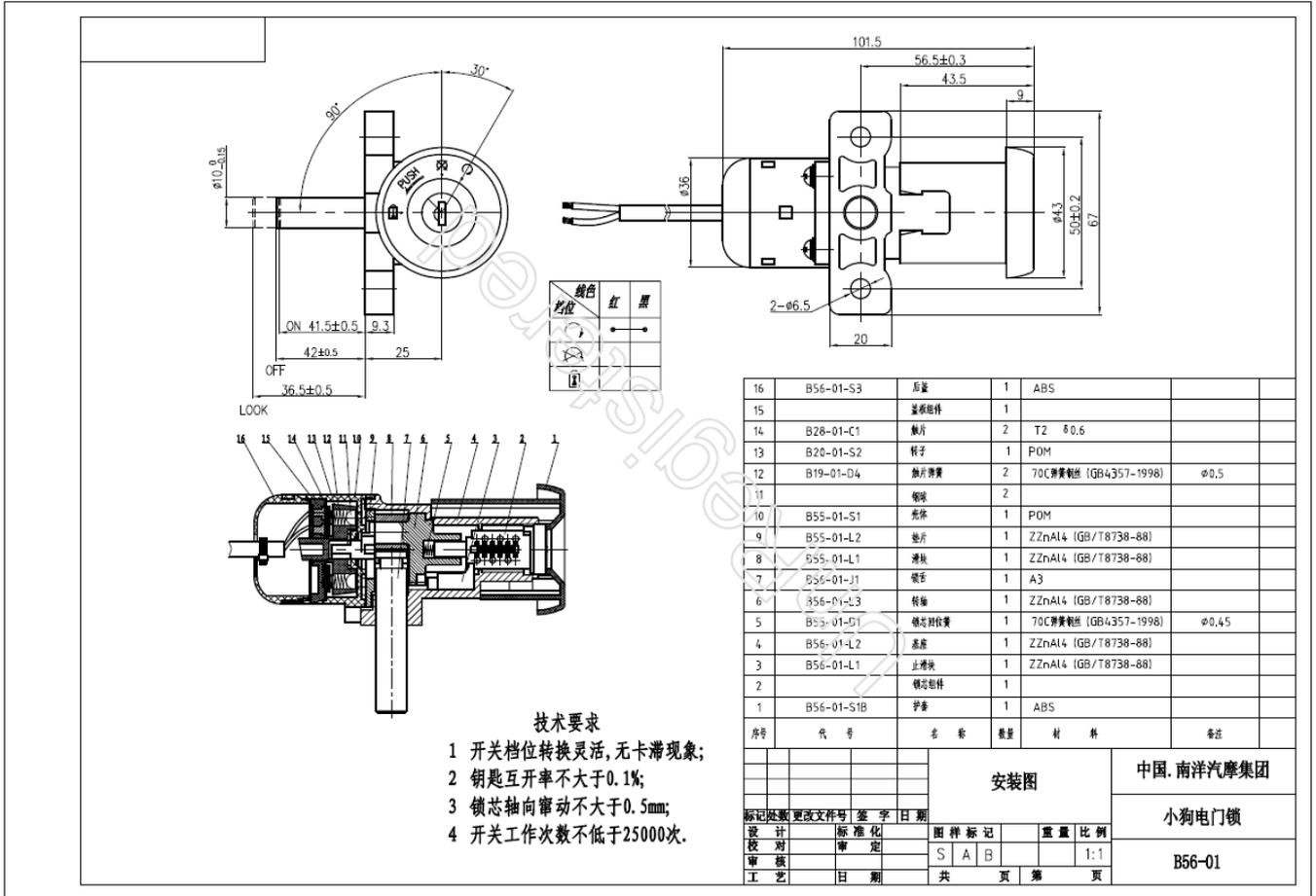
Drawing n.

DWG22

9.3.2 21-Mar-13

UK Approval Authority

AS AN ALTERNATIVE



DRAWING OF IGNITION KEY SWITCH WITH STEERING LOCK

Drawing n.

DWG23.1

9.4.2

21-Mar-13

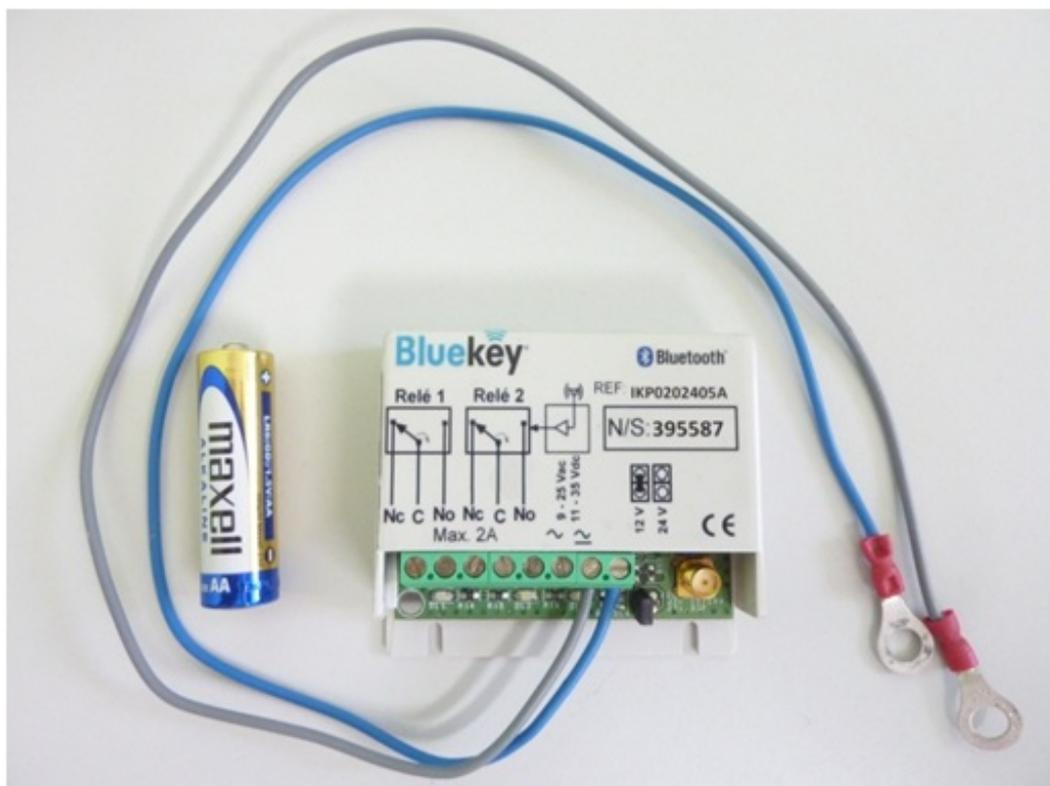
Approval Authority

GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??



PICTURE OF BLUETOOTH IGNITION CONTROL SYSTEM

Drawing n.

DWG24

21-Mar-13

4.5.1

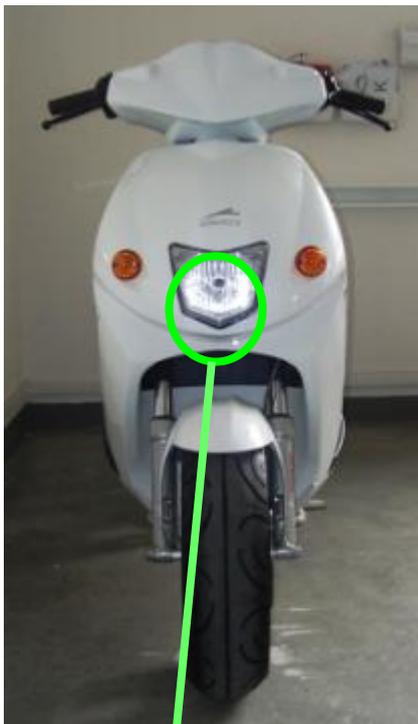


GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??



**LOCATION OF THE AUDIBLE
WARNING DEVICE**

Drawing n.

DWG25

21-Mar-13

9.5.5

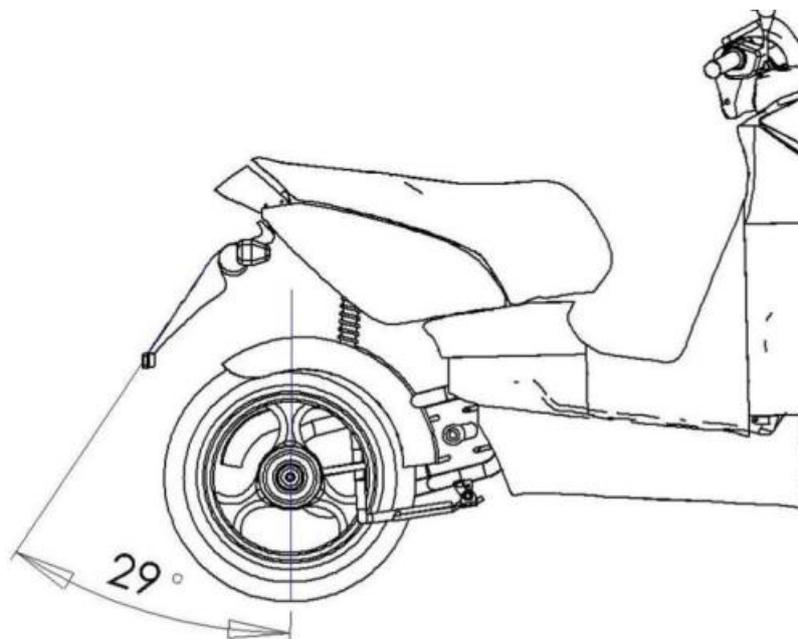


GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??



**LOCATION OF REAR REGISTRATION
PLATE AND LICENCE PLATE LIGHT**

Drawing n.

DWG26

21-Mar-13

9.6



GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??

ARSAUTO



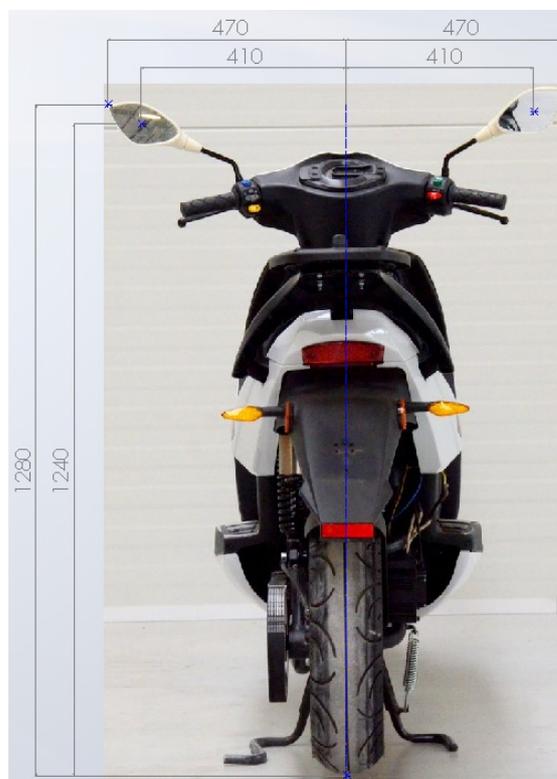
QIAOYU QY 182



QIAOYU 138



QIAOYU 1106



LOCATION OF REAR VIEW MIRRORS

Drawing n.

DWG27

21-Mar-13

B 1.1.4



GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??



LOCATION OF CENTRAL STAND

Drawing n.

DWG28

21-Mar-13

B 1.2.2



GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??



SIDE STAND



600mm

LOCATION OF SIDE STAND

Drawing n.

DWG28.1

B 1.2.2



GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93, 9E

Version: ??

HAND HOLD



FOOT PEG

LOCATION OF HAND-HOLD FOR A PASSENGER

Drawing n.

DWG29

21-Mar-13

B 1.4.2



GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93, 9E

Version: ??

AS AN ALTERNATIVE

BOX HOLD

HAND HOLD



FOOT PEG

LOCATION OF HAND-HOLD FOR A PASSENGER

Drawing n.

DWG29.1

B 1.4.2

21-Mar-13

Approval Authority

GOVECS SP Z.O.O.

TYPE: 4E

Variant: 73, 7E, 7F

Version: ??

BOX HOLD

HAND HOLD



FOOT PEG

LOCATION OF HAND-HOLD FOR A PASSENGER

Drawing n.

DWG29.2

B 1.4.2

21-Mar-13

Approval Authority

GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93, 9E

Version: ??

AS AN ALTERNATIVE

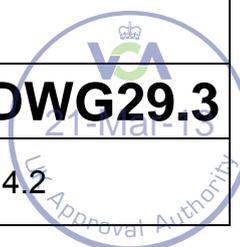


**HANDHOLD LOCATION FOR A
PASSANGER**

Drawing n.

DWG29.3

B 1.4.2



GOVECS SP Z.O.O.

TYPE: 4E

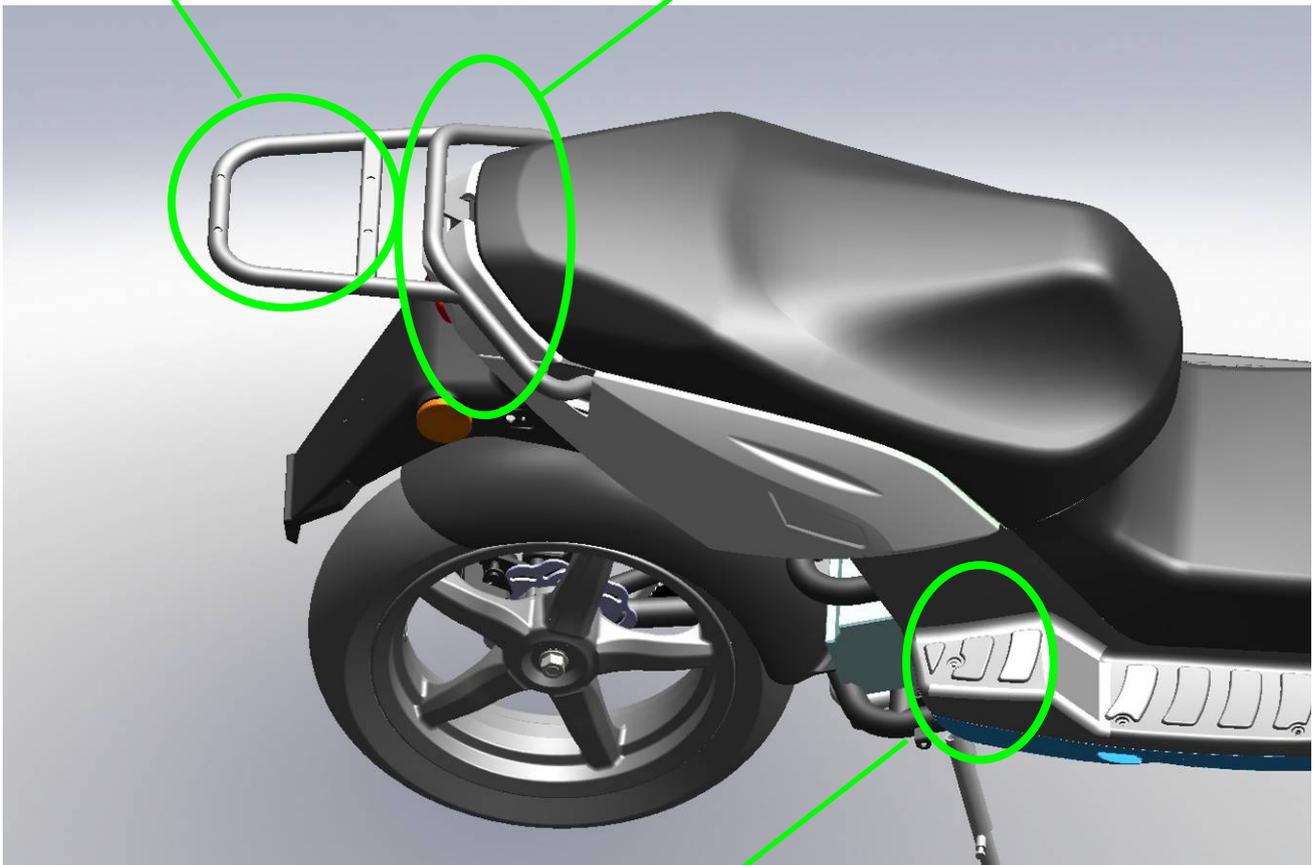
Variant: 93, 9E

Version: ??

AS AN ALTERNATIVE

BOX HOLD

HAND HOLD



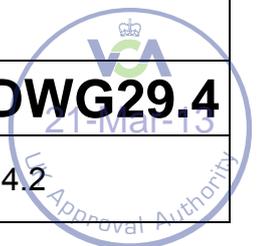
FOOT PEG

**HANDHOLD LOCATION FOR A
PASSANGER**

Drawing n.

DWG29.4

B 1.4.2

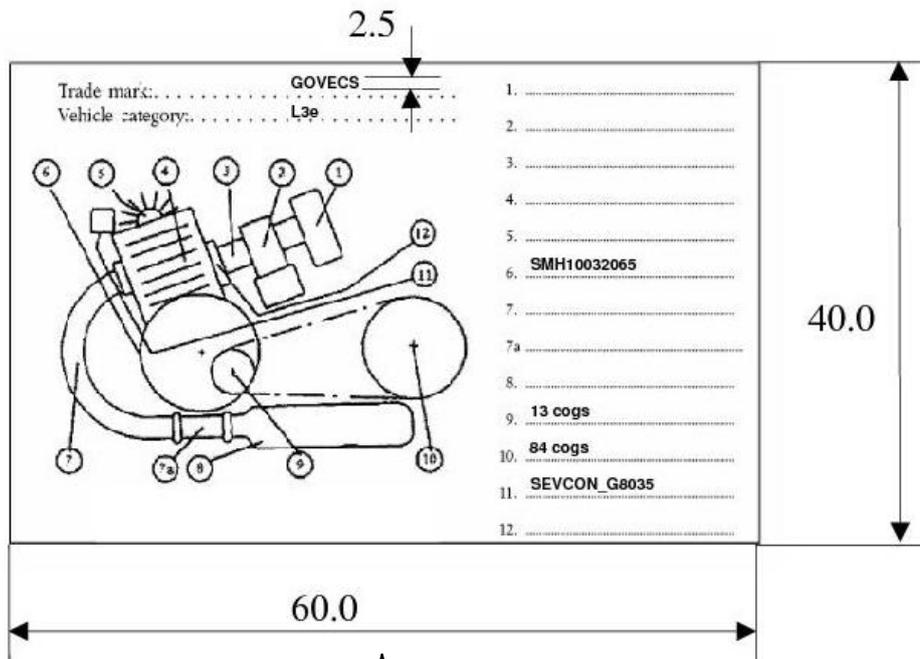


GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??



DRAWING OF ANTI TAMPERING CONTROL LABEL

Drawing n.

DWG30

21-Mar-13

B 1.6



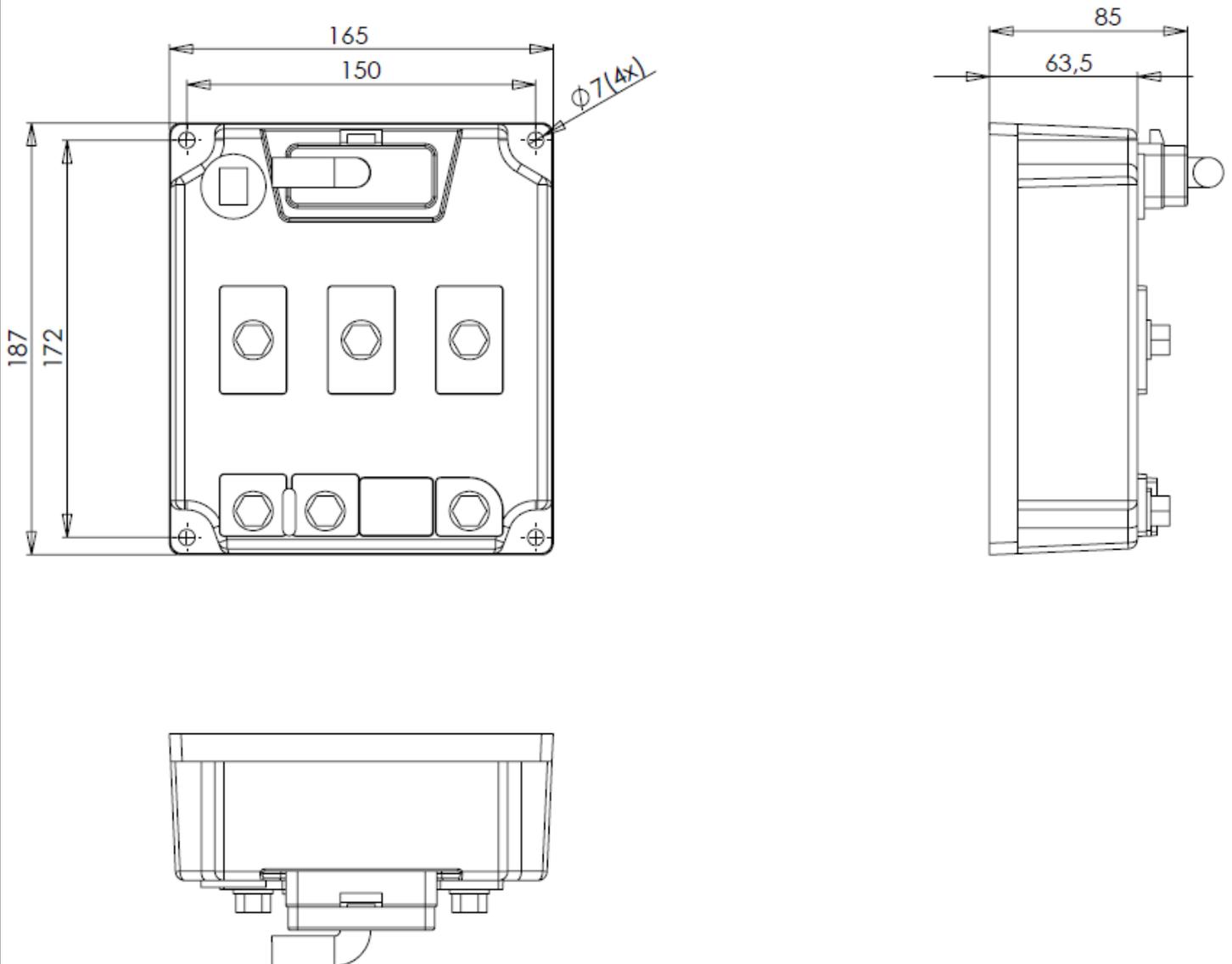
GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93, 9E, 73, 7E,

Version: ??

SEVCON GEN4 SIZE2 G8018



**DRAWING OF
MOTOR CONTROLLER**

Drawing n.

DWG31

21-Mar-13

UK Approval Authority

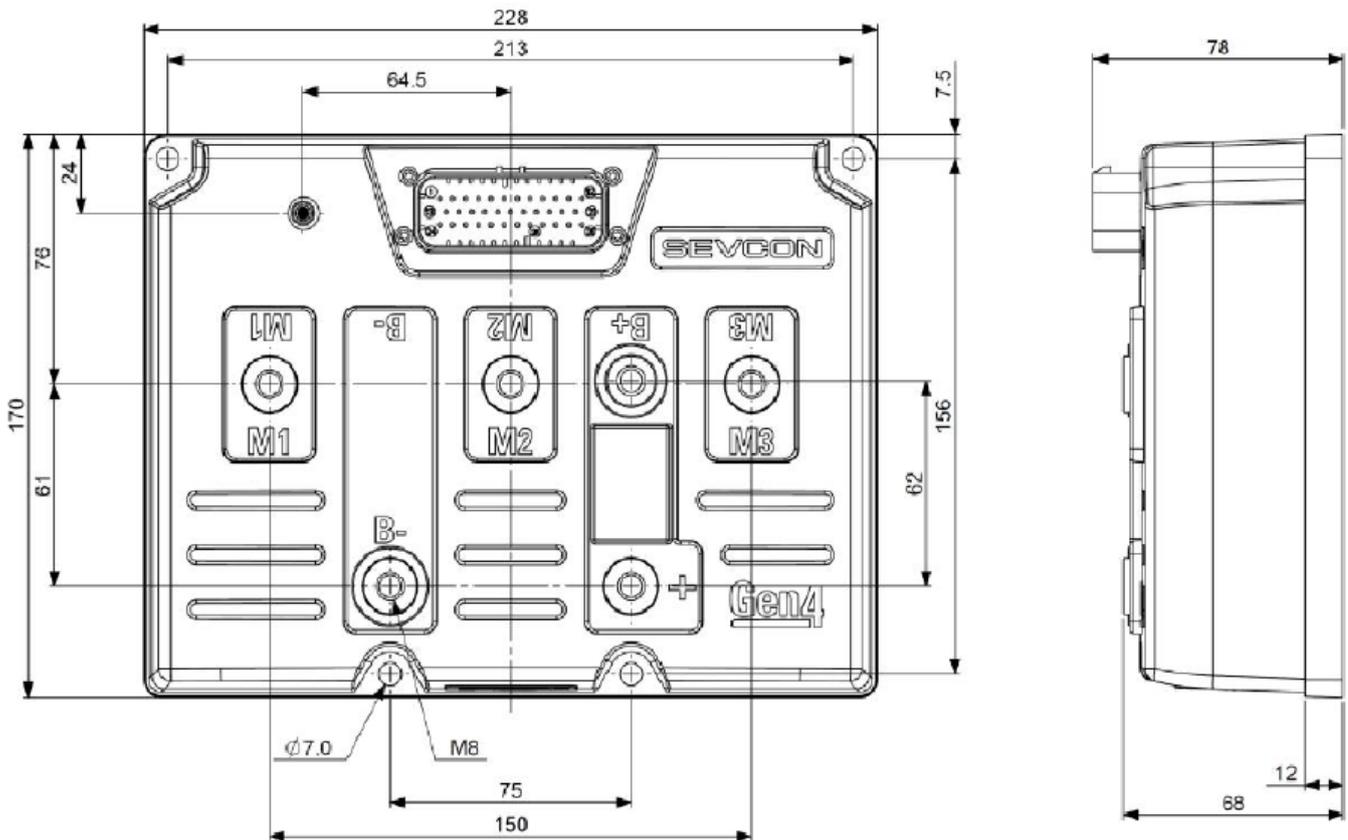
GOVECS SP Z.O.O.

TYPE: 4E

Variant: 93, 9E, 73, 7E, 7F

Version: ??

SEVCON GEN4 SIZE4 G8035 (ALTERNATIVE FOR SEVCON GEN4 SIZE2 G8018 ON 93, 9E, 73, 7E)



DRAWING OF MOTOR CONTROLLER

Drawing n.

DWG31.1

21-Mar-13

UK Approval Authority

GOVECS SP Z.O.O.

TYPE: 4E

Variant: ??

Version: ??

GOVECS Vehicle Identification Number System																	
VIN Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
VIN Character	World Manufacturing Identification WMI			Vehicle Descriptor Section VDS			Check Digit	Vehicle Indicator Section VIS									
	S	V	E	Type of Vehicle	Variant	Version											
Example	S	V	E	4	E	?	?	?	?	?	W	?	?	?	?	?	?
Manufacturing Location (WMI)																	
GOVECS																	
Vehicle category																	
L1e (mopeds)				2													
L2e (three-wheel vehicles)				3													
L3e (motorcycles)				4													
L4e (motorcycles with a sidecar)				5													
L5e (motor tricycles)				6													
L1e (cargo scooter)				C													
L3e (transport scooter)				T													
Power System																	
Electric				E													
Hybrid				H													
Petrol				P													
Hydrogen				Y													
Battery Voltage																	
24V				2													
48V				4													
72V				7													
96V				9													
108V				8													
120V				0													
Power of Motor																	
2 kW				2													
3 kW				3													
3.8 kW				4													
2 kW / 20km/h				A													
2 kW / 25km/h				B													
3 kW / 20km/h				C													
3 kW / 25km/h				D													
4 kW / 63km/h				E													
6 kW / 83km/h				F													
Version of the vehicle																	
1				1													
2				2													
Calculate Check Digit																	
(Vehicle Model Year)																	
2008				8													
2009				9													
2010				A													
2011				B													
2012				C													
2013				D													
2015				F													
2016				G													
2017				H													
2018				J													
2019				K													
(Plant of Manufacture) Location that affixes VIN																	
Poland				W													
(Number Sequential Assigned by Manufacture in Production Process)																	

TABLE OF VEHICLE IDENTIFICATION NUMBER SYSTEM

Drawing n.

DWG32

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0.7.1

