GDE, S.A.	**TECHNICAL SPECIFICATIONS**	Doc: **PS-S95** Version: **32** Printed date: **10-Aug-04**

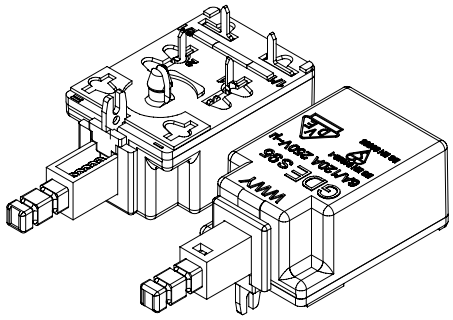
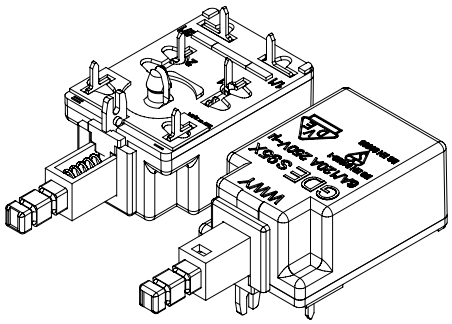
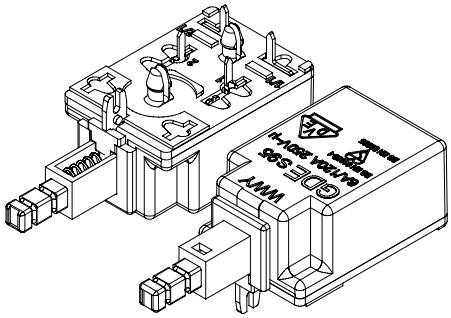
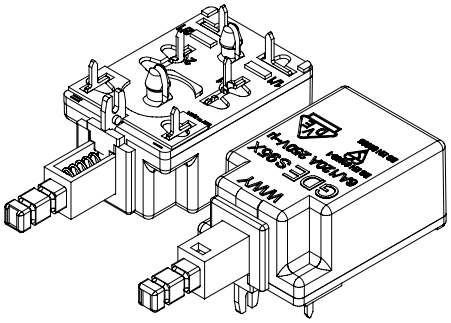
PRODUCT:	MAINS SWITCHES		
VERSION:	32		
			PART
TECHNICAL DATA:	☒ GENERAL SWITCH OVERVIEW		A
	☒ MAINS SWITCH SPECIFICATION		B
	☒ DC CONTACT COMPLEMENT		C
	☒ ELECTROMAGNETIC COMPLEMENT		D
DRAWINGS:	☒ S95 ☒ S95 G6	☒ S95.5 ☒ S95.5 G6	
	☒ S98 ☒ S98 G6	☒ S98.5 ☒ S98.5 G6	
CUSTOMER: DEPARTMENT: TO THE ATTENTION OF:			
GDE:	Gestión de Desarrollos Electrónicos, S.A. c/ Flos i Calcat, 7-9 08320 EL MASNOU – BARCELONA – SPAIN Tel. (34) 93 555 73 04 Fax. (34) 93 555 00 00 E-mail: gdesa@infonegocio.com Customer Service: Dña. Beatriz Vesperinas		

PART A

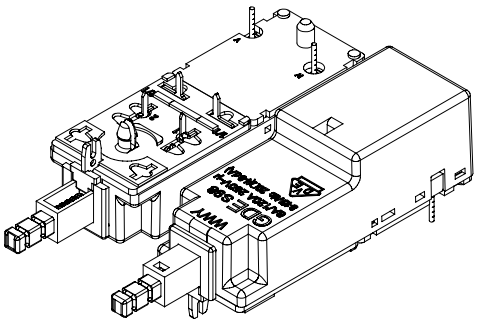
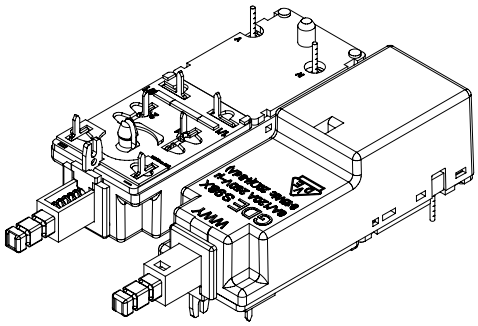
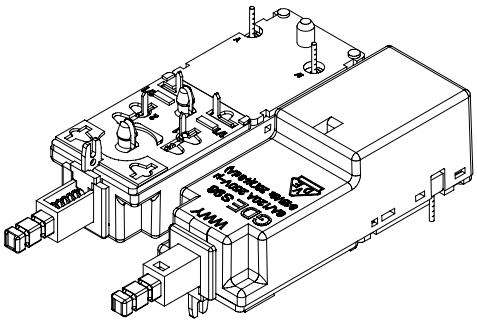
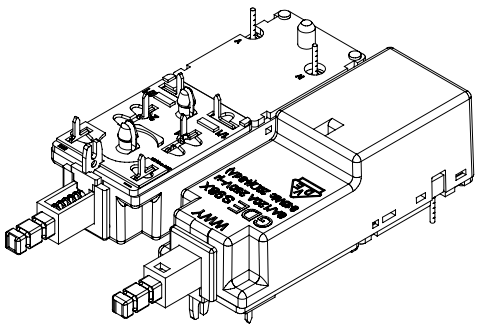
GENERAL SWITCH OVERVIEW

GDE,S.A.	**GENERAL SWITCH OVERVIEW**	Doc: GSO-S95 Version: 32 Printed date: 10-08-04 Part: A Page: 1

MAINS SWITCH

S95	**S95-5**
	
S95 G6	**S95.5 G6**
	

ELECTROMAGNETIC SWITCH

S98	**S98-5**
	
S98 G6	**S98.5 G6**
	

PART B

MAINS SWITCH SPECIFICATION

A. CLASSIFICATION

A.1	Product	Main network switch, two-pole, single DPST activation
A.2	Type	Switch button
A.3	Number of poles	2
A.4	Disconnection	Micro
A.5	Type of load	Resistive / capacitative (EN-61058-1), lamps (UL-1054)
A.6	Number of cycles	25.000 operating cycles
A.7	Ambient temperature	0ºC - 55ºC (according to EN 61058-1:1992; 7.1.3.1)
A.8	Category	D
A.9	Pollution level	Clean situation
A.10	For application class	II
A.11	Protection level (water/dust)	IP00
A.12	PTI	175 V
A.13	Terminal type	Soldered terminals (type 2) (s/EN 61058-1:1992; 7.2.11)
A.14	Assembly method	Printed circuit board

B. GENERAL

B.1	Mechanism	The movement of the mechanism only allows ON and OFF positions. (EN 60065:1999)	
B.2	Cursor travel	Total travel: 3.9 ± 0.15 mm ON position: 2.5 ± 0.15 mm OFF position: 0.0 mm	
B.3	Applicable safety standards	EN 61058-1:1992, UL-1054 Release n.5	
B.4	Product certificates		

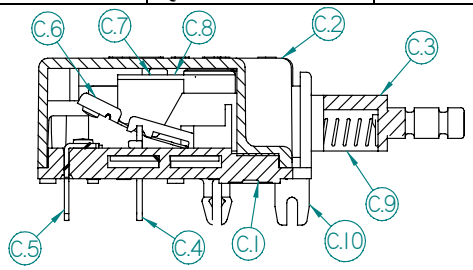
	Standard	Certificate number
VDE	VDE 0630-1 (EN 61058-1)	104085
BSI	BS 415:1994; BS EN 61058-1	8151
UL	UL-1054	E 155645 (M)

B.5	Production certificates	UNE-EN-ISO 9002 : 1994	EC-153/2/98
		KITEMARK LICENCE	KM 52655 : 1999

B.6	Switch marks	Name	S95
		Manufacturer	GDE
		Electric ratio	6A/120A 250V ~ μ
		Manufacturing date	WWY (Week Year) (3 digits)
		Certification	VDE

C. TABLE OF MATERIALS

	COMPONENT	MATERIAL	TYPE	MANUFACTURER	OTHER
Plastic					
C.1	Base	PBT	VALOX 420 SEO	General Electric	UL 94V0
			VALOX 7523		UL 94V0
C.2	Cover	PBT	VALOX 420 SEO	General Electric	UL 94V0
			VALOX 7523		UL 94V0
C.3	Cursor	PA6.6	LEONA FR 370	Asahi Kasei	UL 94V0
Metal					
C.4	Central terminal	Copper	Cu ETP	Locsa	Ag > 4 µm
C.5	Fixed contact	Brass	CuZn/30	Locsa	Sn > 4 µm
		Silver alloy	AgO_2Sn 12	AMI Doduco	
C.6	Mobile contact	Bronze	B16	Wieland	
		Silver alloy	AgO_2Sn 12	AMI Doduco	
C.7	Feeler	Stainless steel		I. Savall	
C.8	Feeler spring	Stainless steel		Muelles Crom	
C.9	Recovery spring	Stainless steel		Muelles Espirales	
C.10	Slide	Steel	Fe P.04 (EN10.020)		Cu > 2 µm Sn > 5 µm
Other					
C.11	Sealant	Silicone	Q1-4010	Dow Corning	



D. ENVIRONMENTAL PROPERTIES

The parts on this product do not contain or exceed permissible quantities of hazardous or other substances which affect the environment according to the Directive 2002/95/EC date 21 January 2003 (RoHS) and the Directive 2002/96/EC date 27 January 2003 (WEEE) of the European Parliament and Council.

D.1	Plastic parts	Free	According to RoHS & WEEE
D.2	Metal parts	Free	According to RoHS & WEEE
D.3	Sealant	Free	According to RoHS & WEEE
D.4	Packing	Free	According to RoHS & WEEE

E. CLIMATE TESTS

E.1	Cold test (IEC 68-2-1 Ab)	Temperature: -25 ± 3 ºC Time: 96 hours	Contact resistance: ≤ 15 mΩ Insulation resistance: ≥ 2000 MΩ Dielectric strength: 2000 Vac between terminal and terminal 4000 Vac between armature terminal Operating force: 6.5 ± 1.5 N Appearance: No deformation or dielectric breakdown
E.2	Dry heat test (IEC 68-2-2 Bb)	Temperature: 85 ± 2 ºC Time: 96 hours	
E.3	Humid heat test (IEC 68-2-30 Db)	The samples were subjected to 6 cycles of: +40 ± 3 ºC, 90~96 % RH: 12h +25 ± 3 ºC, 95~100 % RH: 12h	
E.4	Temperature change test (IEC 68-2-14 Na)	The samples were subjected to 5 cycles of: -25 ± 3 ºC: 30 min. +85 ± 2 ºC: 30 min.	

F. ELECTRICAL CHARACTERISTICS

	CHARACTERISTIC	CONDITIONS		SPECIFICATION
F.1	Electric range	According to EN 61058-1 and UL 1054		6/120A 250V~μ 25E3 TV-8 120Vac
F.2	Contact resistance	Open circuit voltage: 1.5 Vdc Time: 1 min	Initial	< 15 mΩ
			Following life cycle test	< 80 mΩ
F.3	Dielectric strength	Transformer capacity: 500 VA. Travel current: 5 mA Time: 1 min	1250 V between terminals	Without electric flashover
			1250 V between terminals and slide	Without electric flashover
			750 V by microdisconnection	Without electric flashover
F.4	Insulation resistance	Applied voltage: 500Vdc - Time: 1 min	Between terminals	> 2000 MΩ
			Between terminals and box	> 2000 MΩ
			Between terminals and slide	> 2000 MΩ
F.5	Clearances and Creepage distances			
F.6	Temperature increase	According to EN 61058-1; 16.2		ΔT < 45 K

	Creepage distances		Clearances distances	
	EN61058	GDE	EN61058	GDE
Operating insulation	2 mm	2.23 mm	1.5 mm	2.23 mm
Basic insulation	2 mm	> 5 mm	2 mm	> 5 mm
Microdisconnection	2 mm	5.9 mm	1.5 mm	>1.5 mm

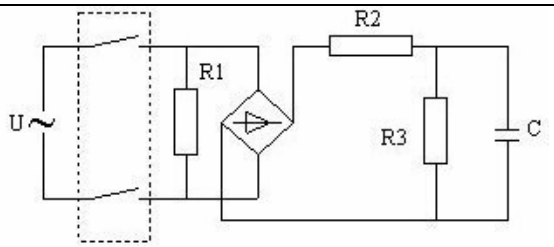
G. MECHANICAL CHARACTERISTICS

	CHARACTERISTIC	CONDITIONS	SPECIFICATION
G.1	Operating force	The force is applied in the direction of the cursor.	6.5 ± 1.5 N
G.2	Mechanical force on terminals	A static charge (F = 8N) is applied to the terminal ends for 15 s.	No deformation or loosening
G.3	Mechanical force on cursor	The following charges are applied to the cursor: - 100 N in the direction of the cursor for 1 min - 20 N in any direction in the ON and OFF positions for 15 sec.	No deformation or loosening
G.4	Cursor flexion	A static charge of 100g at 3 mm is applied from the end of the cursor and the displacement is measured from this point.	ON < 0.6 mm OFF < 0.7 mm

H. SOLDERABILITY

	CHARACTERISTIC	CONDITIONS	SPECIFICATION
H.1	Solderability of the terminals	Flux: Rosin 25%, IPA 75% Solder: Sn/3.0Ag/0.5Cu Solder temperature: 240 ± 2 ºC Immersion depth: 2 mm Immersion time: 3 s	Weting must occur over at least 95% of the solder immersion surface.
H.2	Resistance to flux penetration	Immersion in solder bath.	There is not flux penetration
H.3	Resistance to soldering heat	Solder bath method: Temperature: 260 ± 3 ºC Time: ≤ 10 s	The electrical and mechanicals characteristic shall be satisfied. No deformations or looseness between the terminals and the printed wiring board.
H.4	Solder joint strength test	Comparision between the forces needed to take off the terminal from the PCB with NiAg and Sn/100 terminals	> 10 N

I. LIFE CYCLE TESTS ACCORDING TO EN 61058-1

<table>
<tr><th></th><th>TEST</th><th>CONDITIONS</th><th>RESULTS</th></tr>
<tr><td rowspan="2">I.1</td><td rowspan="2">Endurance</td><td>Circuits:
 

U = 250 V; R1 = 41.66 Ω; R2 = 2.94 Ω; R3 = 1.66 kΩ; C = 1700 μF</td><td></td></tr>
<tr><td>The switch is subjected to the following procedure:
- Current: 6 A
- Peak current: 120 A
- Operating ratio: 3.5 cycles/min
- Operating cycle: ON 2 sec, OFF 15 sec
<table>
<tr><th>Test</th><th>Voltage</th><th>Operating speed</th><th>No. of cycles</th></tr>
<tr><td>High voltage Accelerated speed</td><td>287 V</td><td>25 mm/s</td><td>100</td></tr>
<tr><td>Slow speed</td><td>250 V</td><td>5 mm/s</td><td>100</td></tr>
<tr><td>Accelerated speed</td><td>250 V</td><td>25 mm/s</td><td>24.800</td></tr>
</table></td><td>No electric or mechanical malfunction.</td></tr>
<tr><td>I.2</td><td>Increase in terminal temperature</td><td>Following this test, the switch is connected to a 6A AC. circuit for one hour.</td><td>ΔT < 55 K</td></tr>
<tr><td>I.3</td><td>Dielectric strength</td><td>The switch is then subjected to:
-940 Vac (75% of 1250Vac) between terminals
-940 Vac (75% of 1250Vac) between terminals and slide
-565 Vac (75% of 750Vac) by microdisconnection.</td><td>No indication of electric flashover or dielectric breakdown.</td></tr>
</table>

J. LIFE CYCLE TEST ACCORDING TO UL-1054

	TEST	CONDITIONS	RESULTS
J.1	Overload	The switch is subjected to the following procedure: - Voltage: 120 V ac - Peak current: 163 A - Current: 12 A - No. of cycles: 50 - Speed 10 cycles / min.: ON 3 sec., OFF 3 sec.	No electric or mechanical malfunction.
J.2	Endurance (1st part)	The switch is subjected to the following procedure: - Voltage: 120 V ac - Peak current: 117 A - Current: 8 A - No. of cycles: 10.000 = 25.000 - Speed 10 cycles / min.: ON 3 sec., OFF 3 sec.	No electric or mechanical malfunction.
J.3	Δ Terminal temperature	The switch is connected to an electrical circuit at 8A of intensity for one hour.	ΔT < 30ºC
J.4	Dielectric strength	The switch is subject to 1000 Vac for 1 min between: - Active parts and external metal parts - Terminals with open switch - Active parts with opposite polarity.	No indication of electric flashover or dielectric breakdown.
J.5	Endurance (2on part)	The switch continues the test up 15000 cycles (total 25000 cycles)	No electric or mechanical malfunction.
J.6	Dielectric strength (repeat)	The switch is subject again to the dielectric strength test (see J.4)	No indication of electric flashover or dielectric breakdown.
J.7	Test load type	Both tungsten-filament-lamp load and synthetic load with inrush current time greater than 15 ms have been tested.	

K. PACKING AND LABELLING

K.1	Packing	S95 S95 G6	A) Cartons of 2.000 switches. Packed on expanded polystyrene trays (06PS) with 250 pieces each. Every group of 8 trays is piled and covered with a polystyrene cover and then packed in a carton. B) Pallets of 12.000 switches 6 cases of switches are packed inside a carton to form a pallet of 12.000 switches.

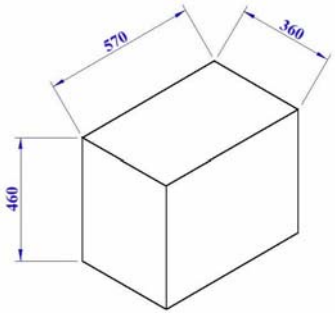
K.2 Size, volume and weight

	S95 / S95 G6	
	CARTON	PALLET
No. of switches	2.000	12.000
Width	570 mm	570 mm
Length	360 mm	1100 mm
Height	460 mm	1020 mm
Volume	0.094 m^3	0.64 m^3
Weight	20 kg	120.5 kg

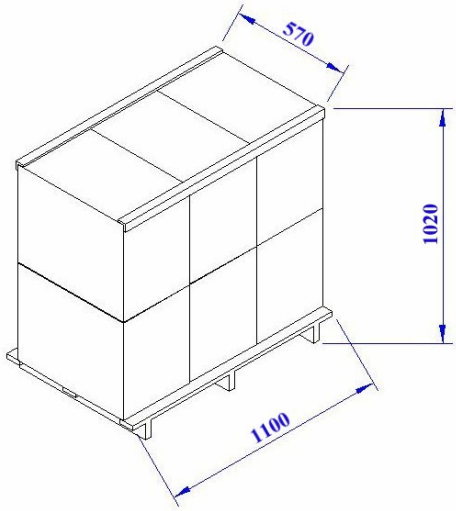
K.3 Labelling on cartons

CUSTOMER CODE .. (1)	1 = Customer code
GDE CODE ..... (2)	2 = GDE switch code
ADDRESS ..... (3)	3 = Customer's address
PACKING ..... (4)	4 = Number of cartons or pallets and number of switches in each carton or pallet.
FROM ..... (5)	5 = GDE's name and address
BATCH NO. ..... (6)	6 = Batch number and quality control number

K.4 Labelling details



S95 / S95 G6 /
CARTON of 2.000 switches



S95 / S95 G6 /
PALLET of 12.000 switches

PART C

DC CONTACT COMPLEMENT SPECIFICATION

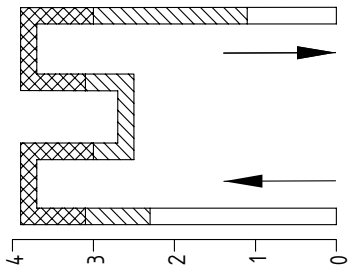
GDE, S.A.	**DC CONTACT COMPLEMENT SPECIFICATION**	Doc: **DC-S95** Version: **32** Issue date: **10/08/04** Part: **C** Page: **1**

A. CHARACTERISTICS OF DC CONTACT

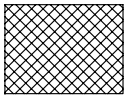
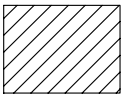
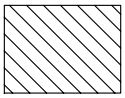
A.1	Description	The auxiliary contact is only connected while the cursor travels from OFF to ON.		
A.2	Disconnection		Micro	
A.3	Type of load		Resistive	
A.4	Number of cycles		25.000 operating cycles	
A.5	Working temperature		0ºC - 55ºC (as per EN 61058-1:1992; 7.1.3.1)	
A.6	Type of terminal		Soldered terminal (Type 2) (acc. EN 61058-1:1992; 7.2.11)	
A.7	Assembly method		Printed circuit board	
A.8	Switch marking	Name	S9Y.5 Y could be: 5 for Mains Switch, 8 for Electromagnetic Switch; 5 subtype of DC contact	
		Manufacturer	GDE	
		Electric ratio	12 Vdc 0,3A	
		Manufacture date	WWY (Week Year) (3 digits)	
		Certification marks	VDE	

B. SUBTYPES OF DC CONTACT

Subtype .5

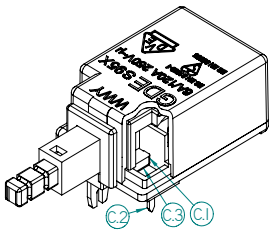


(mm)

Mains Contacts ON / DC Contact ON	Mains Contacts OFF / DC Contact ON	Mains Contacts ON / DC Contact OFF	Mains Contacts OFF / DC Contact OFF
			

C. TABLE OF ADDITIONAL MATERIAL ELEMENTS

	COMPONENT	MATERIAL	TYPE	MANUFACTURER	OTHER
Plastic					
C.1	DC Contact Holder	PBT	VALOX 310	GE plastics	UL 94V0
Metal					
C.2	Auxiliary Contact Terminal	Brass	CuZn/30	Locsa	Sn > 4 µm
C.3	Mobile Contact	Bronze	B16	Wieland	

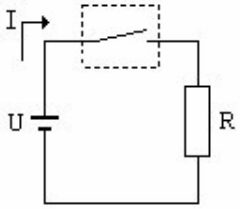


D. ELECTRICAL CHARACTERISTICS OF DC CONTACT

	CHARACTERISTIC	CONDITIONS		SPECIFICATION
D.1	Electric ratio of auxiliary contact	According to Standard	IEC	300 mA, 12dc
D.2	Contact resistance	Thomson Bridge Method Open Circuit Voltage: 1.5 Vdc Time: 1 min.		< 15 mΩ
D.3	Dielectric strength	Transformer Capacity: 500 VA. Current: 5 mA Time: 1 min	1250 V between terminals	Without electric flashover
			1250 V between terminals and slide	Without electric flashover
			750 V by microdisconnection	Without electric flashover
D.4	Insulation resistance	Applied voltage:: 500Vdc - Time: 1 min.	between terminals	> 2000 MΩ
			between terminals and box	> 2000 MΩ
			between terminals and slide	> 2000 MΩ
D.5	Clearances and creepage distances			
D.6	Temperature increase	According to Standard	EN 61058-1; 16.2	ΔT < 45 K

	Creepage distances		Clearances distances	
	EN61058	GDE	EN61058	GDE
Functional Insulation	2 mm	2.23 mm	1.5 mm	2.23 mm
Basic Insulation	2 mm	> 5 mm	2 mm	> 5 mm
Microdisconnection	2 mm	5.9 mm	1.5 mm	1.5 mm

E. DC CONTACT LIFE CYCLE TEST

	TEST	CONDITIONS	RESULTS
E.1	Endurance	Circuit:  U = 12 V I = 300 mA R = 40 Ω	
E.2	Endurance	The switch is subjected to the following procedure: - Voltage: 1 V dc - Current: 300 mA - No. of cycles: 25,000 - Speed 3.5 cycles / min.: ON 2 sec., OFF 15 sec.	No mechanical or electrical malfunction.
E.3	Δ Temperature in terminals	The switch is connected to a 300 mA electric circuit for an hour.	ΔT < 30ºC
E.4	Dielectric strength	The switch is subjected to 1000 Vac between: - Open contacts - Contacts and slide	There is no indication of electric flashover or dielectric breakdown.

F. PACKING

F.1 Size, volume and weight S95.5 & S95.5 G6

	S95.5 & S95.5 G6	
	CARTON	PALLET
No. of switches	2.000	12.000
Width	570 mm	570 mm
Length	360 mm	1100 mm
Height	460 mm	1020 mm
Volume	0,094 m^3	0,64 m^3
Weight	20,5 kg (*)	123 kg (*)

* Estimated weight

F.2 Size, volume and weight S98.5 & S98.5 G6

	S98.5 & S98.5 G6	
	CARTON	PALLET
No. of switches	960	2.880
Width	580 mm	580 mm
Length	360 mm	1080 mm
Height	380 mm	392 mm
Volume	0,079 m^3	0,24 m^3
Weight	34,5 kg (*)	107 kg (*)

* Estimated weight

PART D

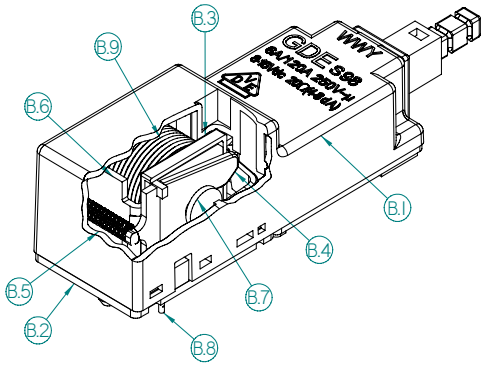
ELECTROMAGNETIC COMPLEMENT SPECIFICATION

A. CHARACTERISTICS

A.1	Description	This mechanism offers the possibility of disconnecting the switch by means of an electronic voltage signal. It may also be disconnected manually by the user.	
A.2	Number of cycles	25.000 operating cycles	
A.3	Working temperature	0ºC - 55º C (according to EN 61058-1:1992; 7.1.3.1)	
A.4	Type of terminals	Soldered terminal (Type 2) (EN 61058-1:1992; 7.2.11)	
A.5	Assembly method	Printed circuit board	
A.6	Switch marking	Name	S98
		Manufacturer	GDE
		Electric ratio	8 ÷ 16 Vdc 20 Ω (4 - 8 dA)
		Manufacturing date	WWY (Week Year) (3 digits)
		Certification	VDE

B. TABLE OF MATERIALS OF ADDITIONAL ELEMENTS

	COMPONENT	MATERIAL	TYPE	MANUFACTURER	OTHER
Plastic					
B.1	Cover	PBT	VALOX 420 SEO	General Electric	UL 94V0
B.2	Shaped piece	PBT	VALOX 420 SEO	General Electric	UL 94V0
B.3	Coil Support	PBT	VALOX 420 SEO	General Electric	UL 94V0
Metal					
B.4	Lever	Steel	Zintec Cold Reduced	S.I. Creus	Electrolitic Zn
B.5	Lever spring	Stainless Steel		Muelles Espirales	
B.6	Retainer	Steel	Zintec Cold Reduced	S.I. Creus	Electrolitic Zn
B.7	Core	Steel	Foral / SPT	La Precisión	Ni > 2 µm
B.8	Coil terminals	Brass	CuZn/30	Marbel	Sn > 5 µm
Other					
B.9	Wire ∅ 0,18 mm	Enamelled copper	Piresold HS 190 G1	Pirelli	



C. ELECTRICAL CHARACTERISTICS

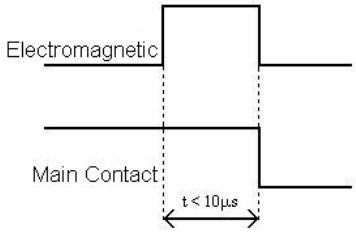
	CHARACTERISTIC	CONDITIONS	SPECIFICATION
C.1	Electric ratio of the coil	Coil working voltage	8 ÷ 16 Vdc
C.2	Coiling resistance	Thomson bridge method: Open circuit voltage: 1.5 Vdc Time: 1 min	20 Ω ± 1 Ω

C.3 Clearances and creepage distances

	Creepage distances		Clearances distances	
	EN61058	GDE	EN61058	GDE
Functional insulation	2 mm	2.23 mm	1.5 mm	2.23 mm
Basic insulation	2 mm	> 5 mm	2 mm	> 5 mm
Microdisconnection	2 mm	5.9 mm	1.5 mm	1.5 mm

C.4	Temperature increase	According to standard	EN 61058-1; 16.2	ΔT < 45 K
C.5	Threshold voltage	Minimum voltage applied to the coil that disconnects the switch.		8 Vdc

C.6 Disconnection sequence



D. PACKING

D.1 Packing

A) Cartons of 960 switches
Packed on expanded polystyrene trays (06PS) with 240 pieces each.
Each group of 4 trays is piled and covered with a polystyrene cover and then packed in a carton.

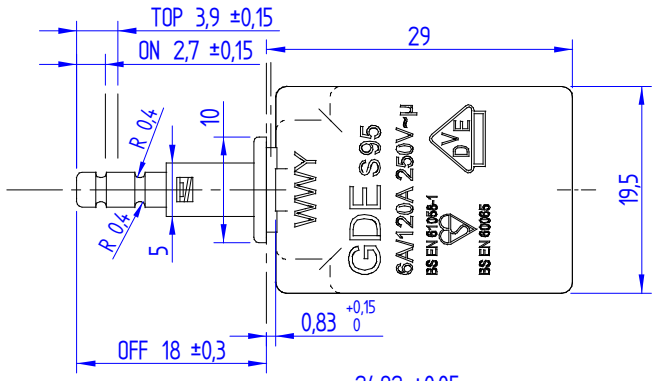
B) Pallets of 2.880 switches
3 cartons of switches are packed inside a carton to form a pallet of 2.880 switches.

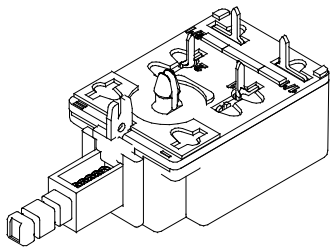
D.2 Size, volume and weight.

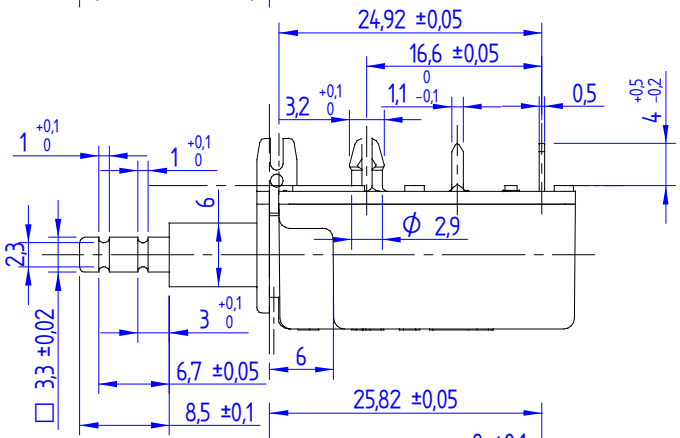
	S98	
	CARTON	PALLET
No. of switches	960	2.880
Width	580 mm	580 mm
Length	360 mm	680 mm
Height	380 mm	392 mm
Volume	0.079 m^3	0.24 m^3
Weight	34 kg	102 kg

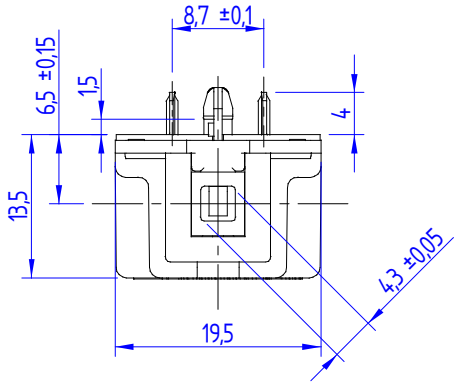
PART F

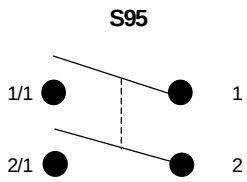
DRAWINGS



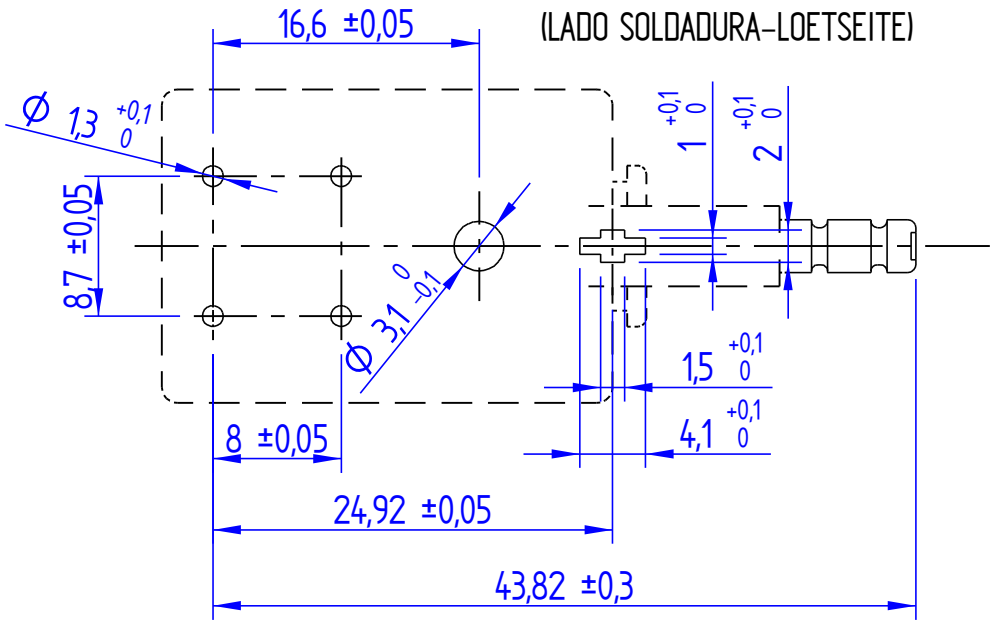








RASTER-LOCHBILD
(LADO SOLDADURA-LOETSEITE)



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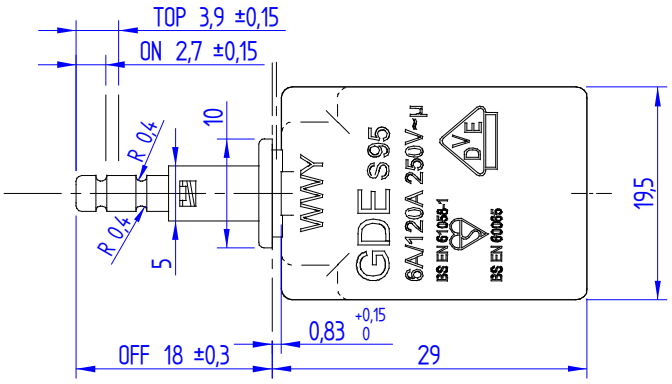
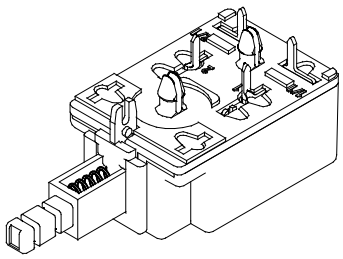
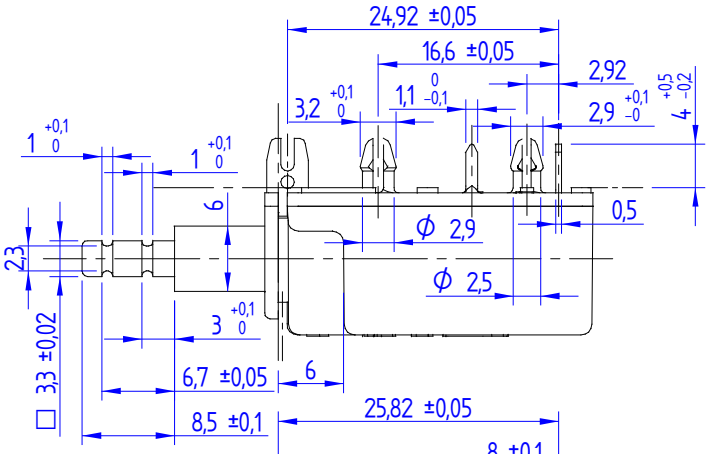
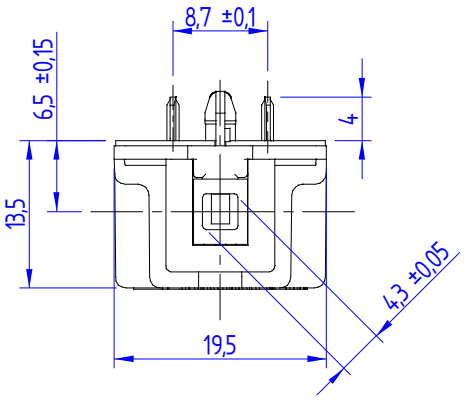
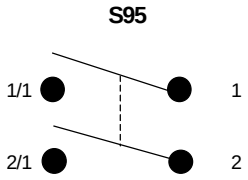
TITLE	S95	DATE	January 15, 2003
DESCRIPTION	PUSH BUTTON MAINS SWITCH		



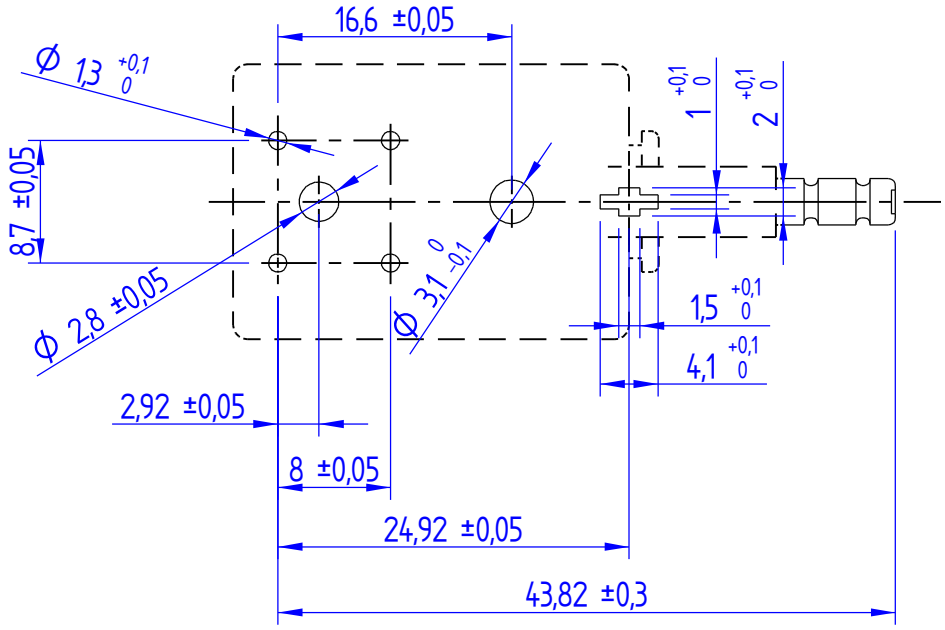








RASTER-LOCHBILD
(LADO SOLDADURA-LOETSEITE)



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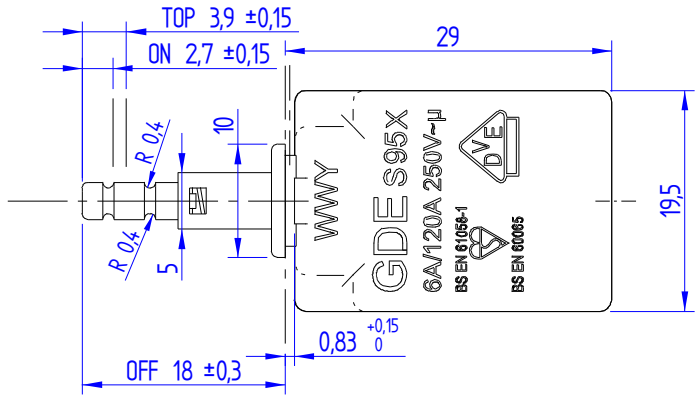
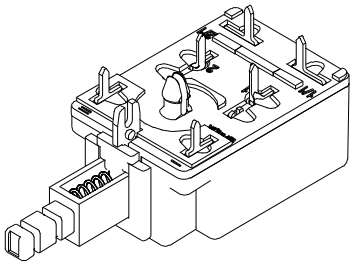
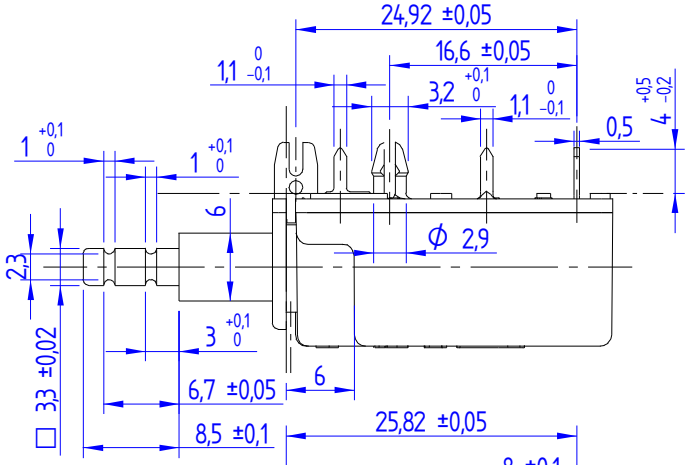
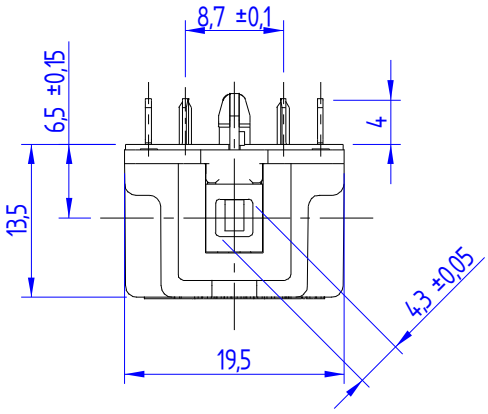
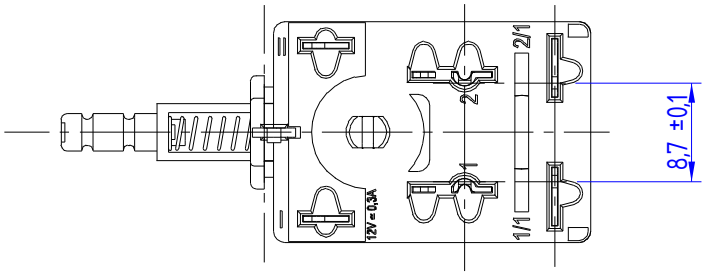
TITLE	S95 G6	**DATE**	January 9, 2003
DESCRIPTION	PUSH BUTTON MAINS SWITCH		



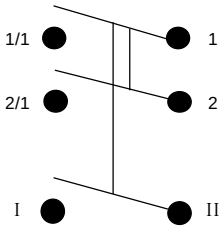


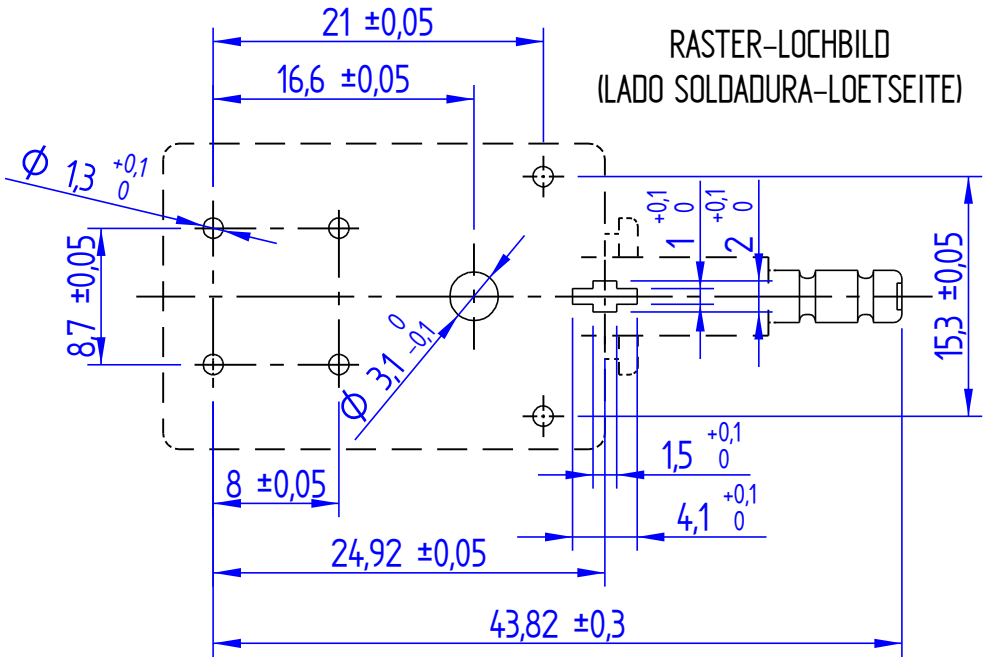






S95.X





RASTER-LOCHBILD
(LADO SOLDADURA-LOETSEITE)

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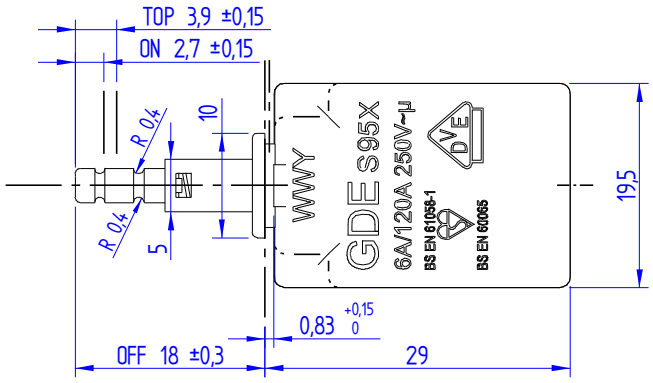
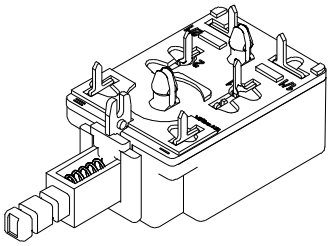
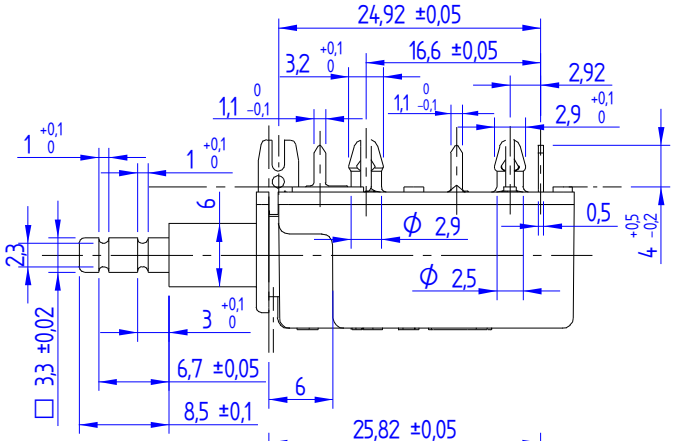
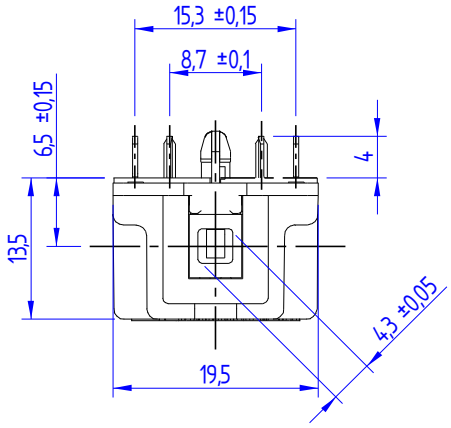
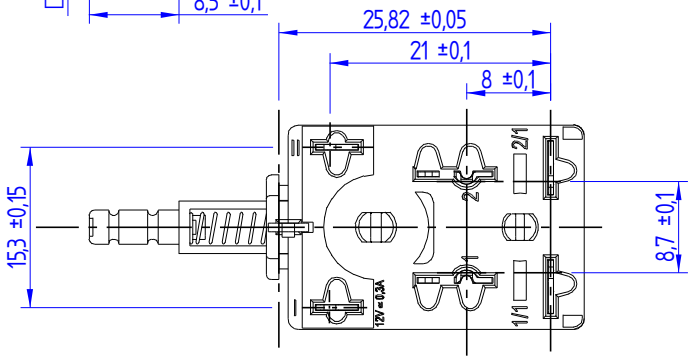
TITLE	S95.X	DATE	January 13, 2003
DESCRIPTION	PUSH BUTTON MAINS SWITCH WITH DC CONTACT		



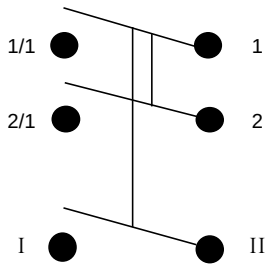


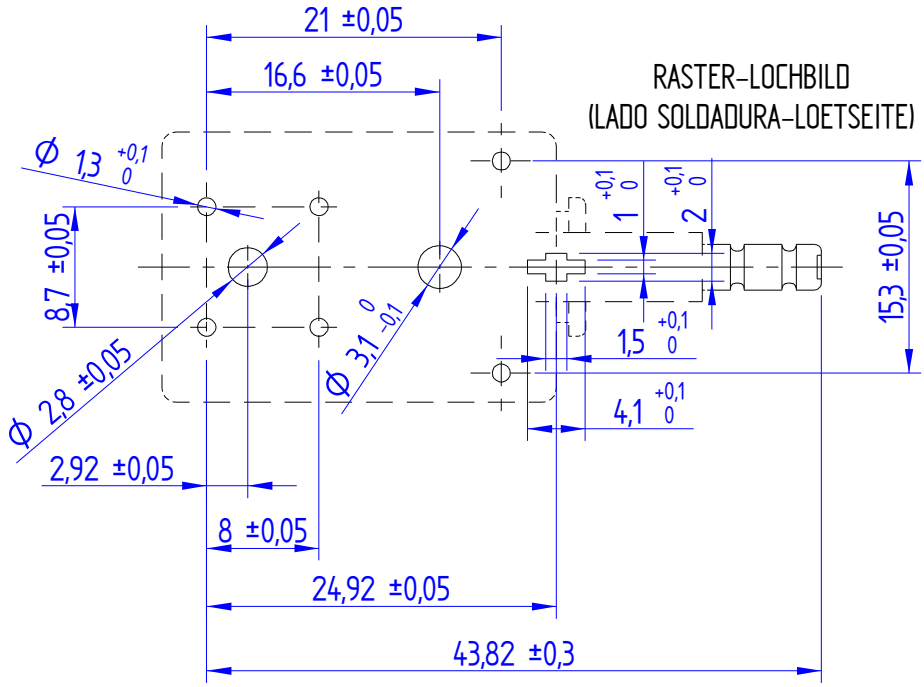






S95.X G6





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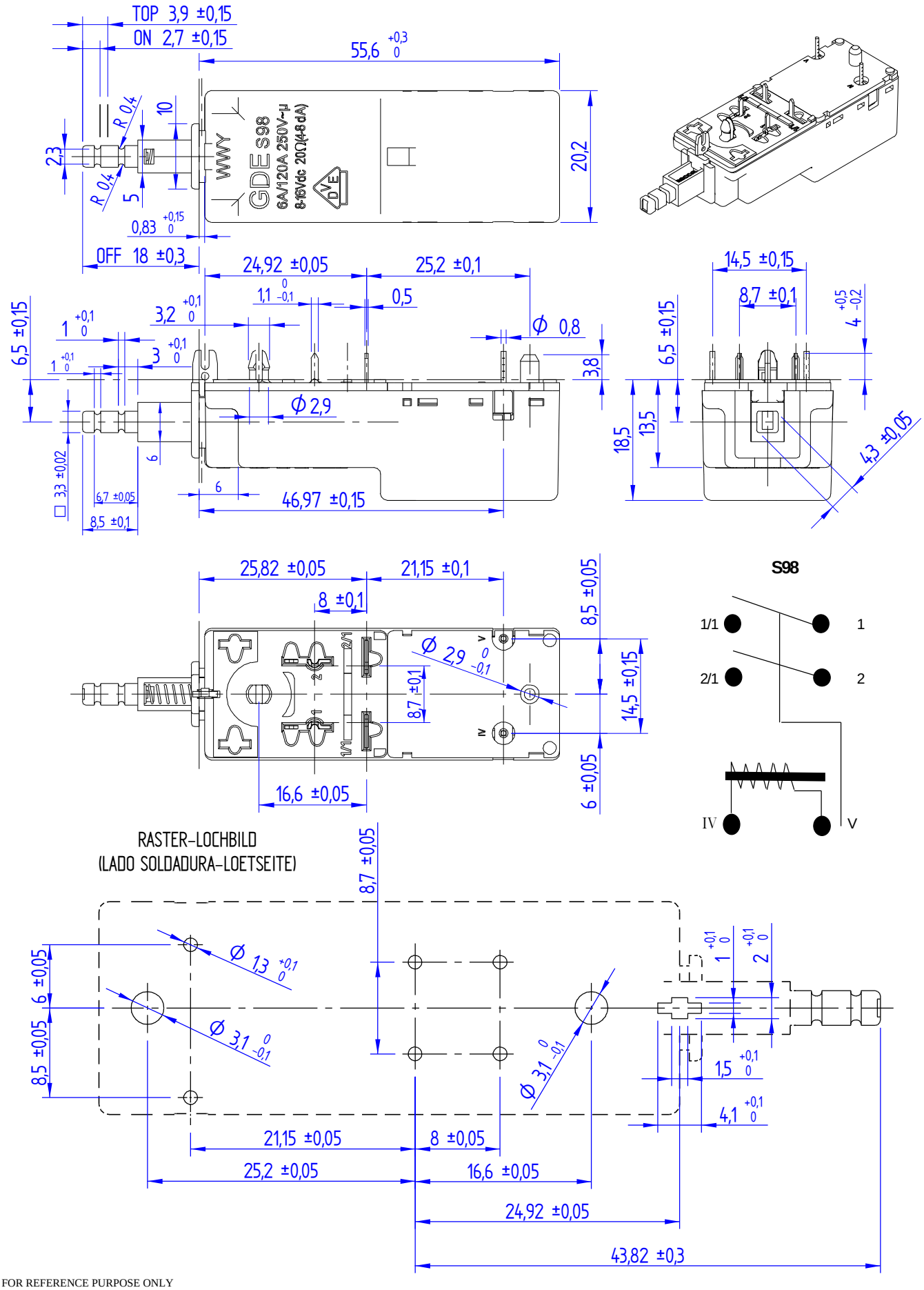
TITLE	S95.X G6	**DATE**	January 13, 2003
DESCRIPTION	PUSH BUTTON MAINS SWITCH WITH DC CONTACT		



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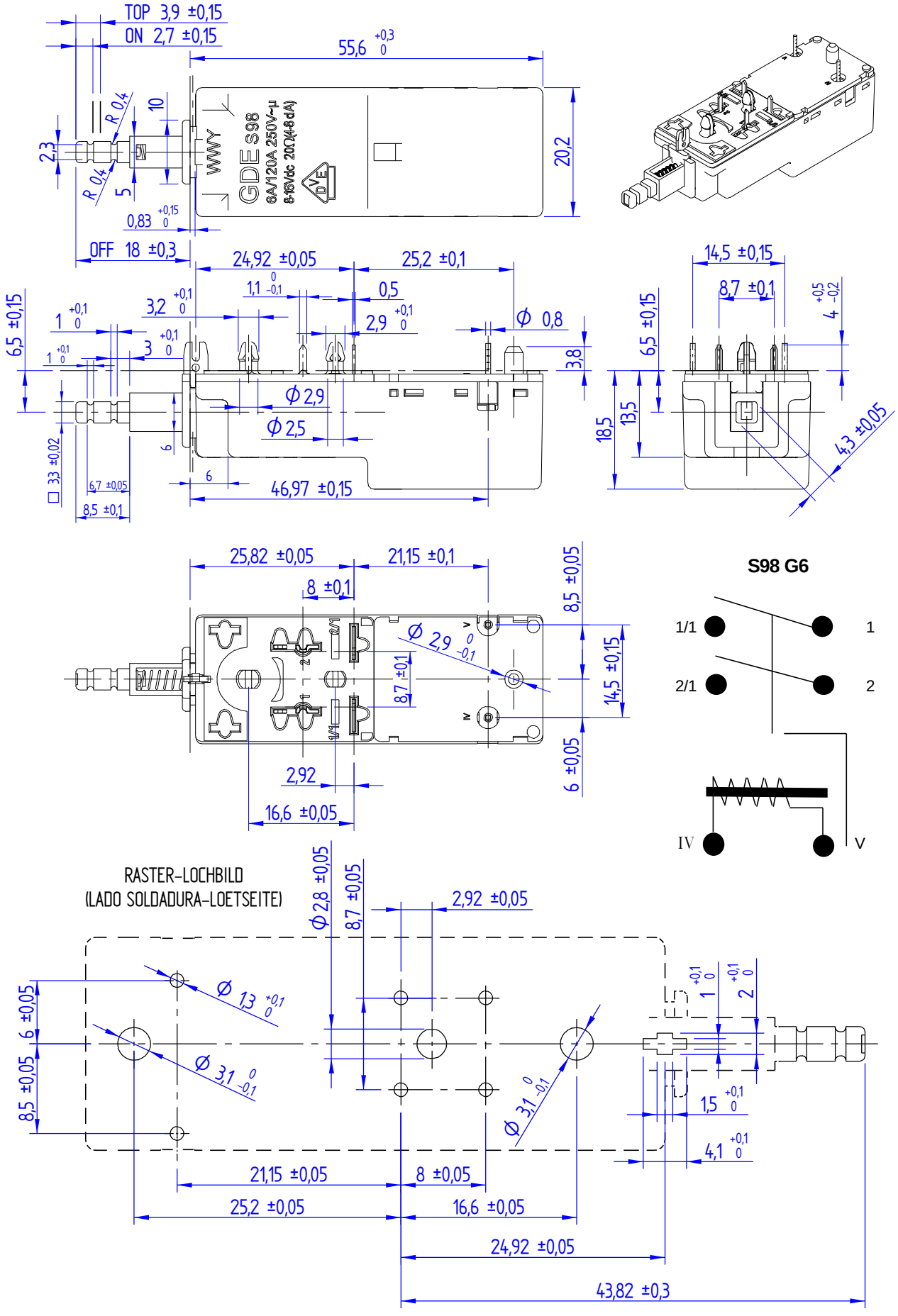
TITLE	S98	**DATE**	January 13, 2003
DESCRIPTION	PUSH BUTTON MAINS SWITCH WITH ELECTROMAGNET SWITCH-OFF DPST		



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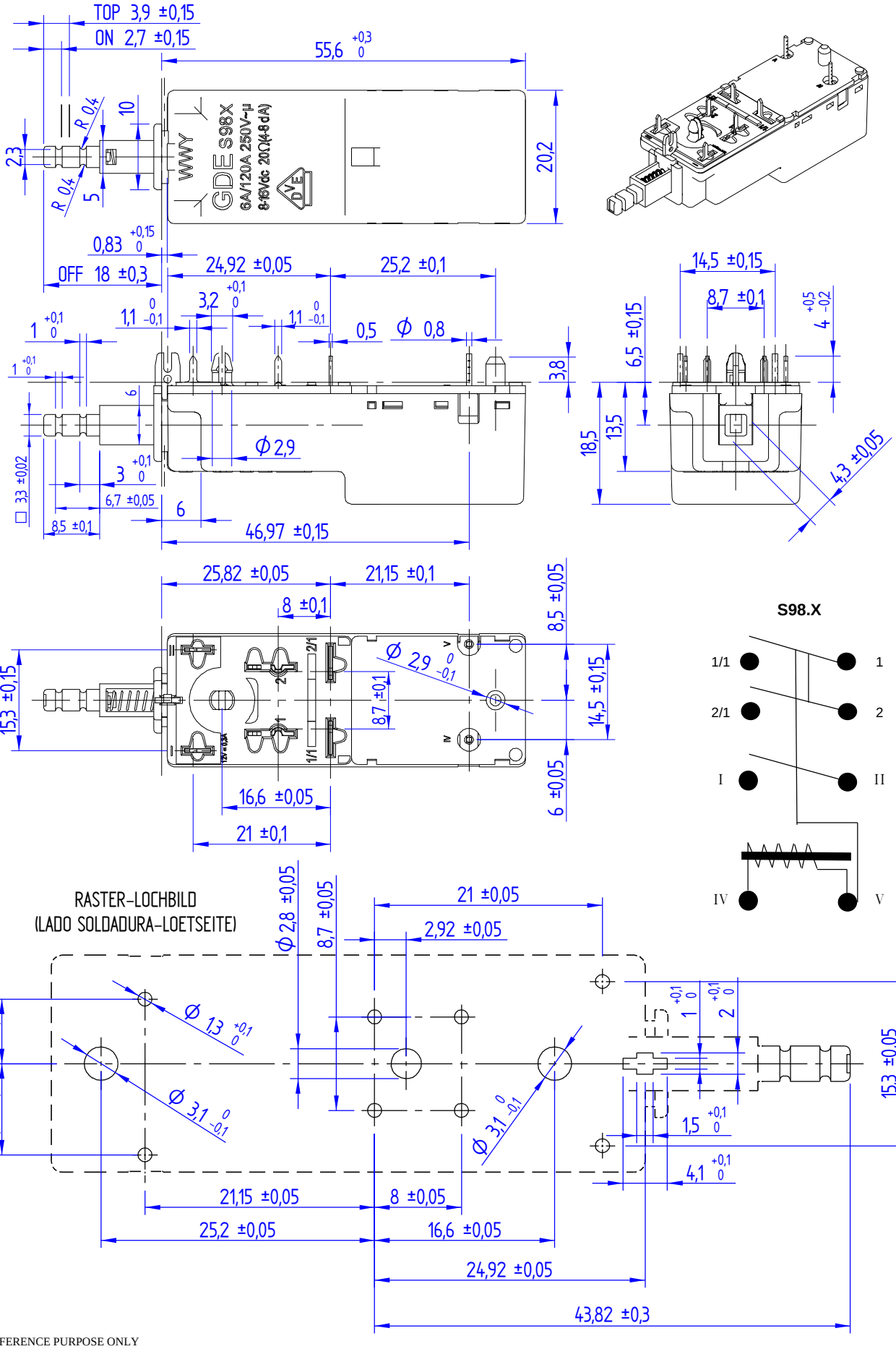
TITLE	S98 G6	**DATE**	January 13, 2003
DESCRIPTION	PUSH BUTTON MAINS SWITCH WITH ELECTROMAGNET SWITCH-OFF DPST		



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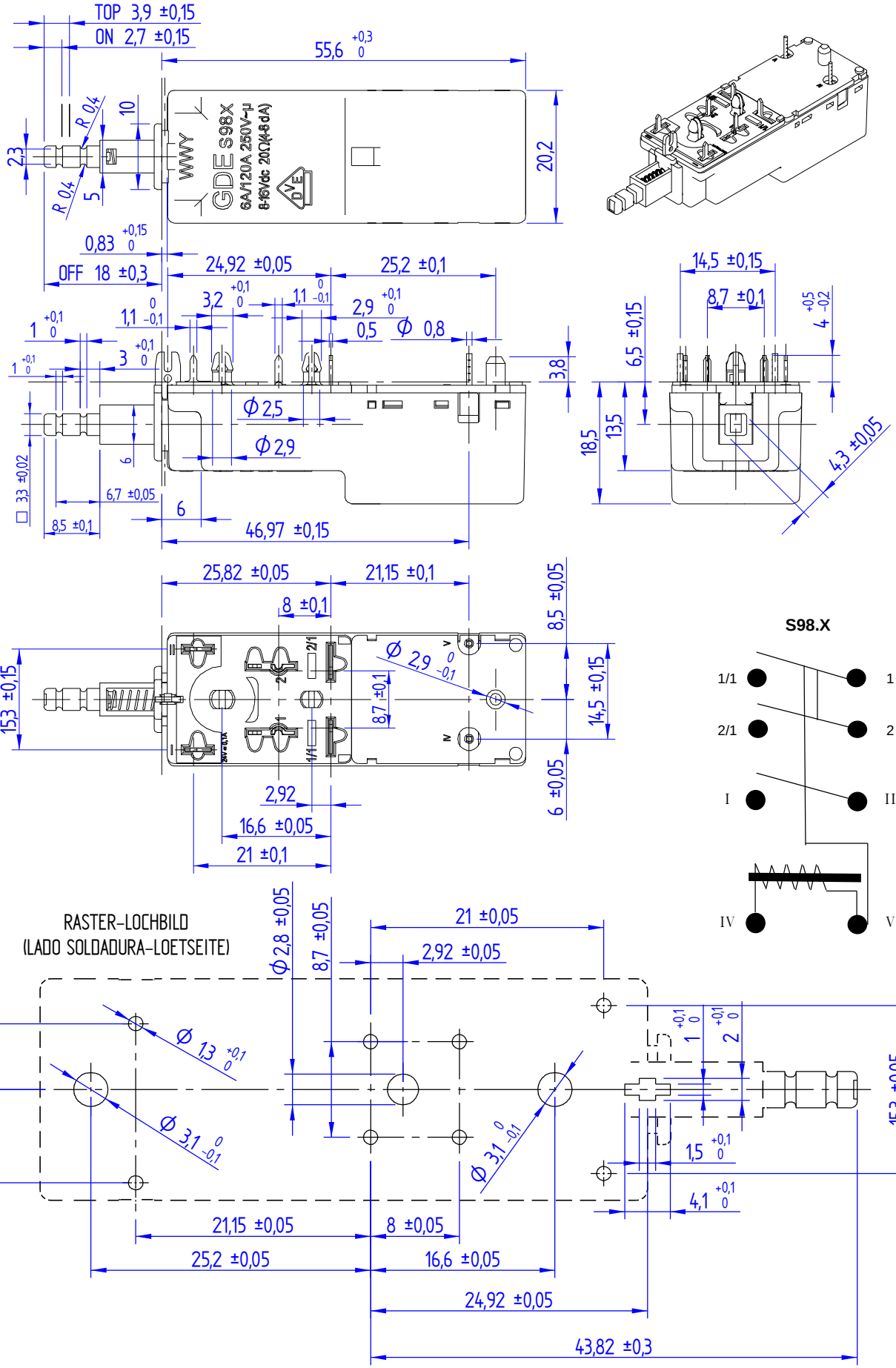
TITLE	S98.X	DATE	January 14, 2003
DESCRIPTION	PUSH BUTTON MAINS SWITCH WITH ELECTROMAGNET SWITCH-OFF AND DC CONTACT DPST		



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TITLE	S98.X G6	**DATE**	January 14, 2003
DESCRIPTION	PUSH BUTTON MAINS SWITCH WITH ELECTROMAGNET SWITCH-OFF AND DC CONTACT DPST		