



## *Environmental Product Declaration*

<b>Product</b>	Device type	<b>Electromechanical actuator, type SSB</b>
	Designation	<b>SSB31, SSB31/00, SSB31.1, SSB319, SSB61, SSB61/00, SSB619, SSB61UG, SSB81, SSB81/00, SSB81.1, SSB81UG, SSB819</b>
	Product range	<b>Valves and actuators</b>

<b>Process control</b>	Siemens AB SE-141 87 Huddinge		
	Management system certified	Since	by
	ISO 14001 (environment)	<b>31 Oct. 1996</b> <b>(1 Sept. 2002</b>	<b>SIS</b> <b>SEMKO-DEKRA)</b>
	ISO 9001 (quality)	<b>23.Nov. 1988</b> <b>(1 Sept. 2002</b>	<b>SIS</b> <b>SEMKO-DEKRA)</b>

<b>Product use</b>	Typical energy consumption per year	<b>appr. SSB31 5,2 kWh at 10% duty cycle</b> <b>appr. SSB61 1,7 kWh at 10% duty cycle</b> <b>appr. SSB81 0,6 kWh at 10% duty cycle</b>
	Maintenance	<b>Maintenance free</b>
	Environmental benefits	<b>RoHS compliant</b> <b>see notes on page 2</b>

**Environmental risk (fire)**

Fire protection as per

EN 60730-1 and EN 60730-2-14

**SSB**

Fire load [MJ]

31	31.1	31/00	319
5	6	4	6

**SSB**

Fire load [MJ]

61	61/00	619	61UG
5	4	6	4

**SSB**

Fire load [MJ]

81	81.1	81/00	819	81UG
5	6	4	6	4

Parts containing halogens  
(result in corrosive smoke)

**Printed circuit board**  
**Cables**

**Packaging**

Actuator

**SSB**

Cardboard [g]

Printed paper [g]

31	31.1	31/00	319
45	45	45	52
6	6	6	1

**SSB**

Cardboard [g]

Printed paper [g]

61	61/00	619	61UG
45	45	52	52
6	6	1	0

**SSB**

Cardboard [g]

Printed paper [g]

81	81.1	81/00	819	81UG
45	45	45	52	52
6	6	6	1	0

Notes on disposal

**Can be recycled**

Materials [g]	Actuator	SSB			
		31	31.1	31/00	319
	Total weight of device*	281	317	208	345
Plastics	Polyetheretherketon PEEK	1	1	1	1
	Polyamid PA	4	17	4	4
	Polybutylene terephthalate PBT 20% GF	19	19	19	19
	Polybutylene terephthalate PBT 30% GF	11	11	11	11
	ABS-polycarbonate blend PC-ABS	52	65	52	52
	Polyphenylene sulfide PPS 40% GF	17	17	17	17
	Polyoxymethylene POM	8	10	8	8
	Polystyrene acrylnitrile PSAN	5	5	5	5
	Polyvinyl chloride PVC	42	42	0	85
	Metals	Non alloyed copper Cu	32	32	0
Alloyed copper Cu-X		24	24	24	24
Non alloyed steel Fe-C		7	8	7	7
High alloy steel Fe-Cr-Ni		7	8	7	7
Other materials	Glue	1	1	1	1
External products	Motor, contains less than 3,5g Cu	26	26	26	26
Circuit boards with components	Total weight/	27/	33/	27/	27/
	FR4 board contains halogens	10	11	10	10

Actuator		SSB			
		61	61/00	619	61UG
Total weight of device*		267	195	307	199
Plastics	Polyetheretherketon PEEK	1	1	1	1
	Polyamid PA	4	4	4	4
	Polybutylene terephthalate PBT 20% GF	19	19	19	19
	Polybutylene terephthalate PBT 30% GF	11	11	11	11
	ABS-polycarbonate blend PC-ABS	52	52	52	52
	Polyphenylene sulfide PPS 40% GF	17	17	17	17
	Polyoxymethylene POM	7	7	7	7
	Polycarbonate PC	0	0	0	3
	Polyvinyl chloride PVC	52	0	77	0
	Metals	Non alloyed copper Cu	21	0	35
Alloyed copper Cu-X		24	24	24	26
Non alloyed steel Fe-C		7	7	7	10
High alloy steel Fe-Cr-Ni		7	7	7	7
Other materials	Glue	1	1	1	1
External products	Motor, contains less than 3,5g Cu	25	25	25	25
Circuit boards with components	Total weight/	21/	21/	21/	21/
	FR4 board contains halogens	10	10	10	10

Actuator		SSB				
		81	81.1	81/00	819	81UG
Total weight of device*		267	305	194	316	203
Plastics	Polyetheretherketon PEEK	1	1	1	1	1
	Polyamid PA	4	17	4	4	4
	Polybutylene terephthalate PBT 20% GF	19	16	19	19	19
	Polybutylene terephthalate PBT 30% GF	11	11	11	11	11
	ABS-polycarbonate blend PC-ABS	52	64	52	52	52
	Polyphenylene sulfide PPS 40% GF	17	17	17	17	17
	Polyoxymethylene POM	8	10	8	8	8
	Polyvinyl chloride PVC	52	52	0	86	0
Metals	Non alloyed copper Cu	21	21	0	35	0
	Alloyed copper Cu-X	24	24	24	24	26
	Non alloyed steel Fe-C	6	8	6	6	9
	High alloy steel Fe-Cr-Ni	7	8	7	7	7
	Low alloyed steel Fe-C-X	1	1	1	1	1
Other materials	Glue	1	1	1	1	1
External products	Motor, contains less than 3,5g Cu	26	26	26	26	26
Circuit boards with components	Total weight/	18/	24/	18/	18/	18/
	FR4 board contains halogens	10	11	10	10	10

\*The total weight includes even substances under 0.1% of the total weight that are not declared separately.

### Disposal



Do not dispose of the device as part of standard household garbage, but as special waste from electrical and electronic components. This particularly applies to electronic circuit boards.

Additionally, the law may mandate special treatment for specific components or special treatment may be ecologically sensible.

**Observe all local and applicable laws!**

### Environmental benefits:

The actuator reduces consumption of energy due to switch off in the end positions.

### Legal disclaimer: This declaration is for information purposes only

This environmental product declaration does not constitute a guarantee of the composition of a product, neither does it guarantee that the product will retain a particular composition for a particular period.

Siemens Building Technologies Ltd. therefore does not assume liability for any error or for any consequences which may arise from the use of this information to the maximum extent under the law.

If you require further information on environmental aspects and disposal, contact your local Siemens branch office.