



## *Environmental Product Declaration*

<b>Product</b>	Device type	<b>Electromechanical actuator, type SSD</b>
	Designation	<b>SSD31, SSD61, SSD61U, SSD81, SSD81U, SSD61.2, SSD61EP, SSD61.5, SSD61.5U, SSD81.5, SSD81.5U</b>
	Product range	<b>Valves and actuators</b>

### **Process control**

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Management system certified	Since	by
ISO 14001 (environment)	<b>May 2005</b>	<b>SGS</b>
ISO 9001 (quality)	<b>November 2006</b>	<b>LPCB</b>

### **Product use**

Typical energy consumption per year	<b>appr. SSD31 5,2 kWh at 10% duty cycle</b> <b>appr. SSD61 1,7 kWh at 10% duty cycle</b> <b>appr. SSD81 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

<b>SSD</b>	
	<b>31</b>
Fire load [MJ]	5

<b>SSD</b>	
	<b>61 , 61.2 , 61EP,61U</b>
	<b>61.5, 61.5U</b>
Fire load [MJ]	5

<b>SSD</b>	
	<b>81,81U</b>
	<b>81.5, 81.5U</b>
Fire load [MJ]	5

Parts containing halogens  
(result in corrosive smoke)

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

**Packaging**

<b>SSD</b>	
Actuator	<b>31</b>
Cardboard [g]	45
Printed paper [g]	6

<b>SSD</b>				
	<b>61,61.2,61EP</b>	<b>61U</b>	<b>61.5</b>	<b>61.5U</b>
Cardboard [g]	45	52	45	48
Printed paper [g]	6	0	6	0

<b>SSD</b>				
	<b>81</b>	<b>81U</b>	<b>81.5</b>	<b>81.5U</b>
Cardboard [g]	45	52	45	48
Printed paper [g]	6	0	6	0

Notes on disposal

**Can be recycled**

Materials [g]	Actuator	SSD
		<b>31</b>
	Total weight of device*	<b>303</b>
Plastics	Polyetheretherketon PEEK	1
	Polyamid PA	5
	Polybutylene terephthalate PBT 20% GF	19
	Polybutylene terephthalate PBT 30% GF	11
	ABS-polycarbonate blend PC-ABS	55
	Polyphenylene sulfide PPS 40% GF	18
	Polyoxymethylene POM	7
	Polyvinyl chloride PVC	64
	Metals	Non alloyed copper Cu
Alloyed copper Cu-X		24
Non alloyed steel Fe-C		11
High alloy steel Fe-Cr-Ni		7
Other materials	Glue	1
External products	Motor, contains less than 3,5g Cu	25
Circuit boards with components	Total weight/	27/
	FR4 board contains halogens	10

Actuator		SSD			
		61 , 61.2 , 61EP	61U	61.5	61.5U
Total weight of device*		289	209	278	280
Plastics	Polyetheretherketon PEEK	1	1	1	1
	Polyamid PA	5	5	12	13
	Polybutylene terephthalate PBT 20% GF	19	19	19	19
	Polybutylene terephthalate PBT 30% GF	11	11	11	11
	ABS-polycarbonate blend PC-ABS	55	55	86	86
	Polyphenylene sulfide PPS 40% GF	18	18	18	18
	Polyoxymethylene POM	6	6	7	7
	Polyvinyl chloride PVC	64	0	0	0
	Polycarbonat PC 20% GF	0	0	3	3
	Metals	Non alloyed copper Cu	21	0	0
Alloyed copper Cu-X		24	28	28	28
Non alloyed steel Fe-C		11	12	14	15
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/ FR4 board contains halogens	21/ 10	21/ 10	46	46

Actuator		SSD			
		81	81U	81.5	81.5U
Total weight of device*		303	206	277	278
Plastics	Polyetheretherketon PEEK	1	1	1	1
	Polyamid PA	5	5	12	13
	Polybutylene terephthalate PBT 20% GF	19	19	19	19
	Polybutylene terephthalate PBT 30% GF	11	11	11	11
	ABS-polycarbonate blend PC-ABS	55	55	86	86
	Polyphenylene sulfide PPS 40% GF	18	18	18	18
	Polyoxymethylene POM	7	7	7	7
	Polyvinyl chloride PVC	74	0	0	0
	Metals	Non alloyed copper Cu	21	0	0
Alloyed copper Cu-X		24	28	28	28
Non alloyed steel Fe-C		11	12	15	15
High alloy steel Fe-Cr-Ni		6	6	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/	18/	18/		
	FR4 board contains halogens	10	10	47	47

\*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.