



Environmental Product Declaration

Product	Type of equipment	GxDxxx.xx / 102691-0x			
	Designation	Damper Actuator			
	Product line	OpenAir™			
Process control	Siemens Ltd. Seoul 343-1, Gunha-ri, Wolgot-myeon Gimpo-si, Gyeonggi-do The Republic of Korea				
	Management System	since	by		
	ISO 14001 (Environment)	27.09.2010	kfq		
	ISO 9001 (Quality)	12.08.2000	SMICC		
Environmentally compatible product design	Product responsibility of Siemens covers the entire product life cycle. Siemens already assesses, avoids and minimizes the environmental impact of its products with respect to production, procurement, sales, use, services and disposal during the product and process planning phases by complying Siemens Standard SN 36350 "Environmentally compatible products".				
Product use	Typical energy consumption per year	5...32 kWh/a			
	Maintenance	Not necessary			
Risk of fire	Fire protection according to	EN 60730 & UL873			
	Fire load	4.9 ... 10.3 MJ			
Packaging	20-PAP Corrugated fiber board	Foiled box - individual packaging	152 g		
	20-PAP Corrugated fiber board	Foiled box - individual packaging	154 g		
	20-PAP Corrugated fiber board	Foiled box - bulk packaging	133 g		
	20-PAP Corrugated fiber board	Foiled box - ball valve kit	27 g		
	Notes on disposal	recyclable			
Materials			Total weight device	353...820 g	
	Plastics	ABS	halogen-free	Various Plastic parts	3 g
		PBT GF 30	halogen-free	Various Plastic parts	95 g
		PC GF 10	halogen-free	Various Plastic parts	126...131 g
		POM	halogen-free	Various Plastic parts	10...17 g
		PP	halogen-free	SPRING HOUSING GT	10 g

Metals	CuZn		SQUARE SHAFT GT	9 g
	Spring steel		Various Metal parts	43...49 g
	Steel	galvanized	Various Metal parts	45...236 g
	Steel	phosphated	Various Metal parts	22...34 g
	Steel	zinc plated	Various Metal parts	8...10 g
	Steel		Various Metal parts	8...18 g
	ZnAl4	nickel plated	Various Metal parts	62...77 g
	ZnAl4Cu1		UNIVERSAL SHAFT BALL VALVE KIT	88 g
Others	Steel, Plastic		BAYONET RING ASSY BALL VALVE KIT	17 g
	Steel, Copper, FR4		MOTOR S GT ASSY	4 g
	Copper, PVC, Plastic	18 different type	Cables	32...198 g
	Copper, Plastic		Microswitch	4 g
PCB assembled	FR4	halogen-free SnAgCu	PCB ASSY	30...90 g
Special components	Motor		Steel, Copper	1 pcs. (51 g)
	Connector		Copper, Plastic	1 pcs. (5 g)

Weights in brackets are already included in components declared under materials.

Disposal

The device should not be disposed of as unsorted municipal waste. The special treatment for specific components may be mandated by law or ecologically sensible. Observe all local and applicable laws.

Comments

Materials

The device is free from substances banned by the Directive 2002/95/EC (RoHS):

Pb, Hg, Cr6+, PBB, PBDE: < 0.1 % by weight in homogeneous materials

Cd: < 0.01 % by weight in homogeneous materials

The device is antimony-free.

Ball valve kits (ASK77.4) are delivered with the following accessories kits:

Brackets (95 g, PBT GF30) & Shaft (88 g, ZnAl4Cu1)

& Ring assy (17 g, steel / plastic) & Spring (1 g, spring steel)

in bag and foled box (27g,PE-LD / 20-PAP Corrugated fiberboard)

Environmental benefits

VARIABLE TORQUE: 2~4Nm / FORCE AT SMALL SIZE AND WEIGHT

VARIABLE APPLICATION: RESIDENTIAL, COMMERCIAL, BALL VALVE, MODULATING
AUX/DECLUTCH, SPECIAL SHAFT ADAPT

LOW POWER CONSUMPTION: 2...12VA

EASILY DEMOUNTABLE

Emissions

This declaration is for information purpose 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 Switzerland AG 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.

Please contact your local Siemens branch office to get further information on environmental aspects and disposal.