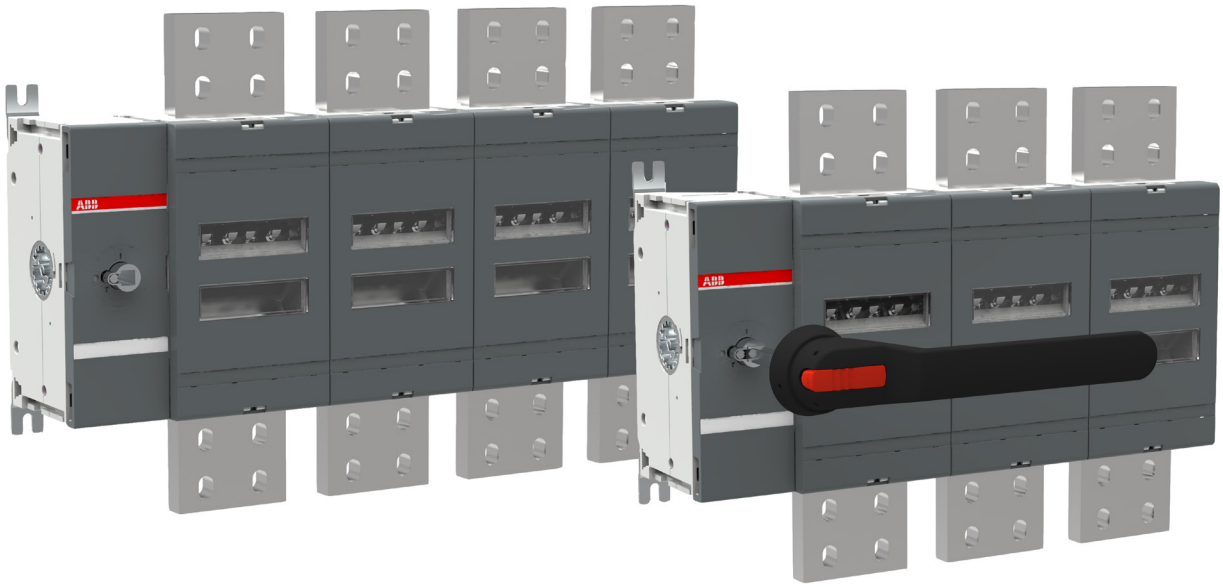


PROTECTION AND CONNECTION

# Product environmental information

## Switch disconnetor, OT3200/OT4000

### Product conformity and compliance

**REACh and SVHC (Regulation EC 1907/2006)**
With reference to the Regulation (EC) No. 1907/2006 issued by the European Union for the Registration, Authorization and Restriction of Chemicals (REACH), please be aware that:

- During normal and reasonably foreseeable conditions use, OT switch disconnectors manufactured by ABB Oy, Protection and Connection do not internationally release any substance or preparation;
- ABB Oy, Protection and Connection continuously assessment.

OT switch disconnectors were classified as Articles and during normal reasonably foreseeable conditions of use, do not internationally release any substance or preparation.

ABB Oy, Protection and Connection continuously undertake communication throughout its supply chain in order to collect information about suppliers' compliance with REACh regulation.

**RoHs and RoHs II**
OT are not within Directive 2002/95/EC (RoHs) scope. It is still not clear if they will be within the scope of Directive 2011/65/EU (RoHS II), whose provisions, in any case, will be mandatory starting from July 2019.

However, according to our best knowledge, OT switch disconnectors do not contain any of the restricted substances listed into RoHS and RoHS II directives.

**SVHC (Regulation EC 1907/2006 REACH)**
ABB Oy, Protection and Connection continuously assesses its products for content of Substances of Very High Concern (SVHC), as included in the “Candidate List” by the European Chemicals Agency (ECHA). According to our best knowledge, OT switch disconnectors do not contain SVHC substances exceeding 0.1% w/w.

**WEEE**
OT switch disconnectors are not included in the scope of Directive 2002/96/EC (1st version), thus they are also excluded from the new Directive version (2012/19/EU), at least up to August 14th 2018.

**Product Safety**
The product has been tested according to standards:

IEC/EN60947-1
IEC/EN60947-3

Directives:

”Low Voltage Directive” (LDV) 2014/35/EC
”Electromagnetic Compatibility Directive” (EMC) 2014/30/EC

**Material declaration**
The charts below the constituents of OT3200-4000E_ switches. The constituent materials are distributed as follows.

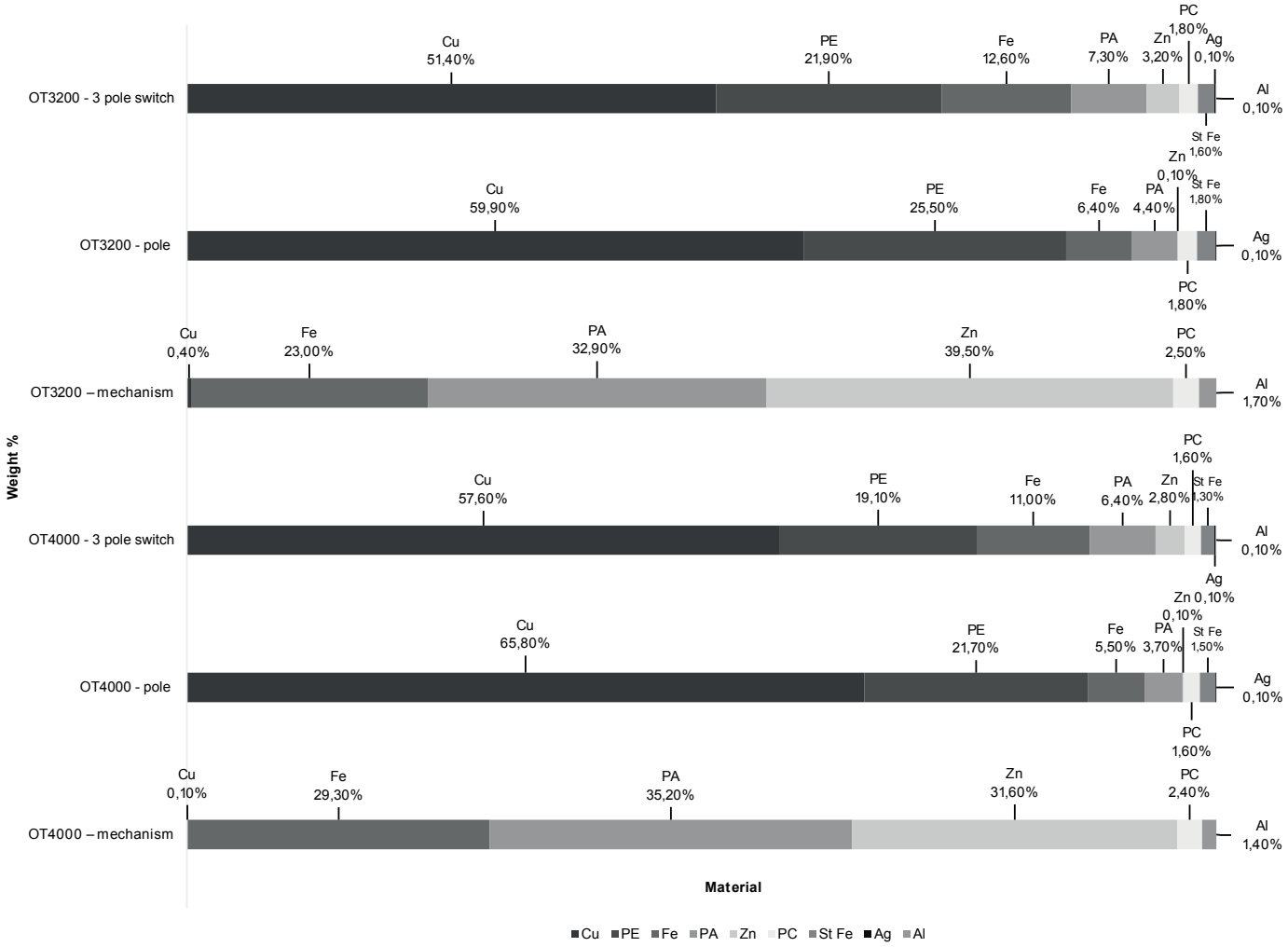
The total weight of the products is the follows:

OT3200E_ 3 pole switches: 26,7 kg
OT3200E_ 4 pole switches: 34,1 kg.
OT4000E_ 3 pole switches: 30,9 kg
OT4000E_ 4 pole switches: 39,7 kg.

—
**Material declaration**

| Material | OT3200 - 3 pole switch Weight (kg) | OT3200 - pole Weight (kg) | OT3200 – mechanism Weight (kg) | OT4000 - 3 pole switch Weight (kg) | OT4000 - pole Weight (kg) | OT4000 – mechanism Weight (kg) |
|---|---|---|---|---|---|---|
| Cu | 14,510 | 4,835 | 0,004 | 18,670 | 6,222 | 0,004 |
| PE | 6,170 | 2,057 | 0,830 | 6,170 | 2,057 | - |
| Fe | 3,550 | 0,518 | 0,830 | 3,550 | 0,518 | 0,830 |
| PA | 2,060 | 0,356 | 0,996 | 2,060 | 0,356 | 0,996 |
| Zn | 0,900 | 0,001 | 0,995 | 0,900 | 0,001 | 0,895 |
| PC | 0,510 | 0,149 | 0,067 | 0,510 | 0,149 | 0,067 |
| St Fe | 0,440 | 0,147 | - | 0,440 | 0,147 | - |
| Al | 0,040 | - | 0,038 | 0,040 | - | 0,038 |
| Ag | 0,020 | 0,007 | - | 0,020 | 0,007 | - |

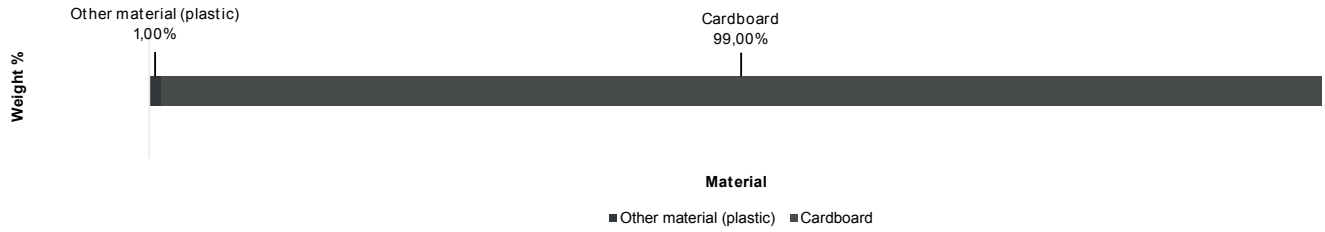
**Material declaration**




## Packaging

The total weight for OT3200-4000E_3 pole model packing material is 2,4 kg. The polyethylene plastic films and cardboard are used in the packaging materials, which are recyclable.

**Packaging**



**Product use**
**Energy**
Power loss for OT3200_ is 95W per pole and for OT4000_ is 120W per pole.

Energy consumption during the use of OT3200-4000E_ has been estimated assuming 10 years when operated 3650 hours per year (10 hours per day), load factor 70%.

**Energy consumption:**
**OT3200E_: 7281,7 kWh**
**OT4000E_: 9198,0 kWh**

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**www.abb.com/contacts**
**> Low Voltage Products and Systems**