

**Product classification**  
**Standard for international e-Commerce**

**ETIM International**

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**Without product data, no digital process,  
no digital planning**

## **Trends in product information management:**

- rapid growth of product range
- further growth of information requirements per product
- shorter product life cycle and quicker time to market
- Data quality is very important and has even become a strategic asset.

## Standards in product data management

- Identification
- Classification of products
- Interfaces for data-exchange
- Networks / data carrier

All these aspects are **important individually – don't mix!**

## **ETIM classification – WHAT is it?**

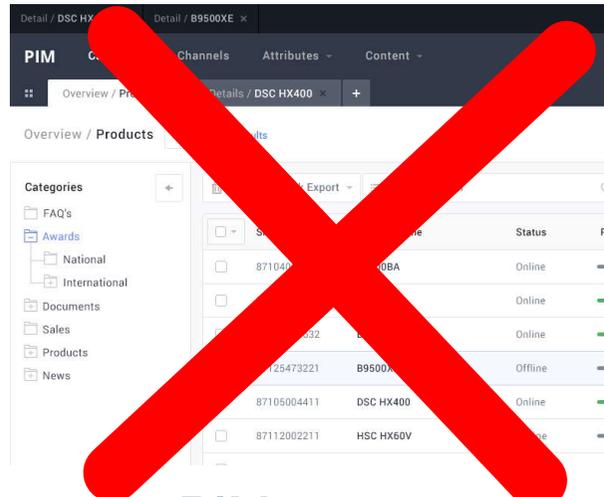
- **A logical, unambiguous classification of products in different product classes (categories)**
- **Listing of the most important technical characteristics of each product class to *describe and find* the articles**
- **Each class has several synonyms, thereby finding the right product is much easier for everyone!**

**Multi lingual – Media neutral – Supplier neutral**

## ETIM classification – WHAT is it NOT?



data base



PIM system



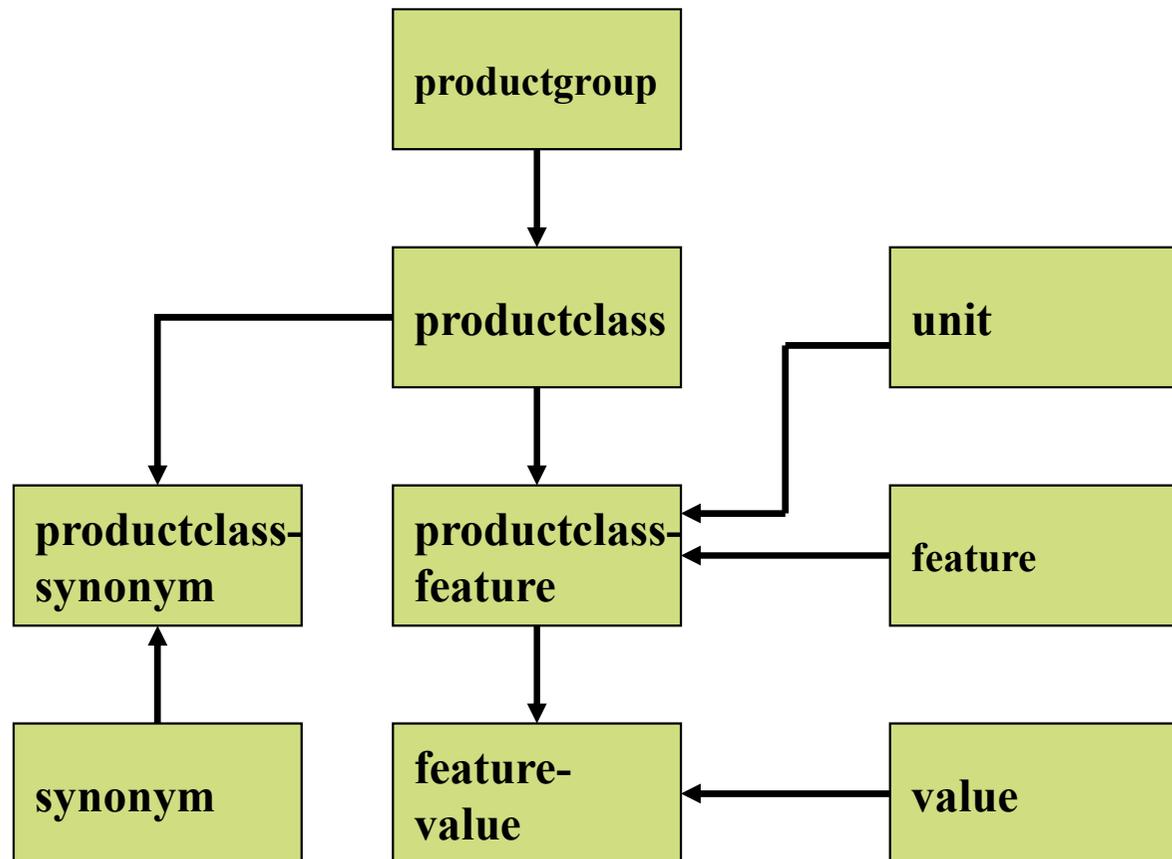
product content

a standard format to structure product data



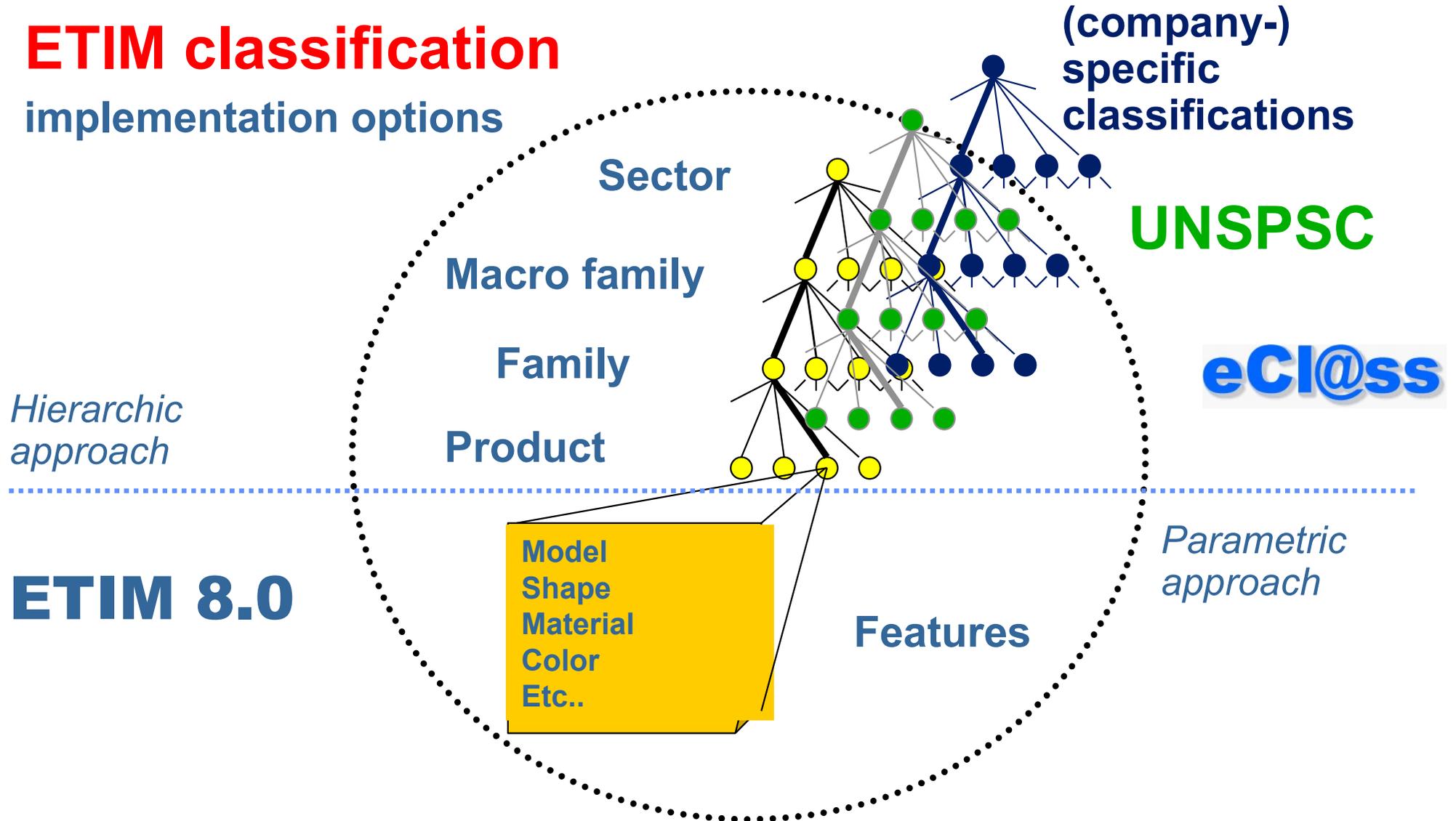
## ETIM classification – the model

- Product groups
- Product classes
- Synonyms
- Features
- Values
- Units



# ETIM classification

implementation options



**ETIM 8.0**

## **ETIM classification and BMEcat**

- **Open XML Standard (de facto) for the exchange of electronic product catalogues for e-commerce**
- **Supports ETIM classification (and other classifications)**
- **German origin but international acceptance**

## **ETIM International BMEcat guideline**

- **Aims to give international suppliers a clear and uniform exchange format to distribute their product data to all ETIM supporting countries.**

## **ETIM classification – an example**

- **How are ETIM classified data exchanged**
  - **Illustrates multi-lingual use**
  - **Example is with BMEcat as interface**
  - **Another example from Dutch central database 2BA**

## Miniature circuit breaker (MCB)

Class code	EC000042	Class version	<b>6</b>
Sector	E	Status	Published
Group code	EG000020 - Circuit breakers and fuses		

[Features](#)
[Translations](#)
[Discussion](#)
[Reference products](#)

	Code	Description	Type	Unit
1	<a href="#">EF000889</a>	Release characteristic	A	
2	<a href="#">EF008618</a>	Number of poles (total)	N	
3	<a href="#">EF005548</a>	Number of protected poles	N	
4	<a href="#">EF000227</a>	Nominal rated current	N	Ampere (A)
5	<a href="#">EF000228</a>	Nominal rated voltage	N	Volt (V)
6	<a href="#">EF009556</a>	Rated short-circuit breaking capacity Icn EN 60898 at 230 V	N	kiloampere (kA)
7	<a href="#">EF009555</a>	Rated short-circuit breaking capacity Icn EN 60898 at 400 V	N	kiloampere (kA)
8	<a href="#">EF009557</a>	Rated short-circuit breaking capacity Icu IEC 60947-2 at 230 V	N	kiloampere (kA)
9	<a href="#">EF009558</a>	Rated short-circuit breaking capacity Icu IEC 60947-2 at 400 V	N	kiloampere (kA)

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```

Class (code) = EC000104 = Control cable

Feature (code) = EF001632 = Conductor category

Value (code) = EV004201 = Class 5 = flexible

Klasse Miniature circuit breaker (MCB)

**ETIM**

Vrij zoeken op omschrijving, merk, type, serie, kenmerk etc. Gebruik wildcards (\*, ?) om op delen van een woord te zoeken; bv: aardlek\* of aardlek????

Kenmerk toevoegen Leveranciers Vervallen producten

Online Conditie Server

Merk Kenmerk

Producten (30418)

Klassen

Miniature circuit breaker (MCB)

Release characteristic

- B (4370)
- C (7152)
- Other (163)
- K (2172)
- D (3871)
- E (57)
- A (110)
- S (36)
- Z (1145)
- KM (7)
- (niet gevuld) (1230)

Number of poles (total)



**ABB Installatiedozen en kasten Hafonorm 0025.007**  
*FORNUISGROEP B20(F) (0025.007)*

Release characteristic	B	Rated current	20
Number of poles (total)	2	Rated voltage	230
Number of protected poles	1	Rated short-circuit breaki...	6

**ABB**  
14 artikel(en)



**Doepke Kernsortiment DLS 6H B10-1 6KA**  
*Inst.aut. 6h DLS 6kA 10A/B-kar./1p (09914021)*

Release characteristic	B	Rated current	10
Number of poles (total)	1	Rated voltage	230
Number of protected poles	1	Rated insulation voltage UI	2

6 artikel(en)



**Doepke Kernsortiment DLS 6H B13-1 6KA**  
*Inst.aut. 6h DLS 6kA 13A/B-kar./1p (09914022)*

Release characteristic	B	Rated current	13
Number of poles (total)	1	Rated voltage	230
Number of protected poles	1	Rated insulation voltage UI	2

6 artikel(en)



**Miniature circuit breaker (MCB)** [↗](#)

**ABB Componenten** [↗](#)

ABB Componenten

System pro M compact

S 201 C 2

### ETIM kenmerken

#### Kenmerk

#### Waarde

Release characteristic	C
Number of poles (total)	1
Number of protected poles	1
Rated current	2 A
Rated voltage	230 V
Rated short-circuit breaking capacity EN 60898	6 kA
Rated short-circuit breaking capacity IEC 60947-2	10 kA



**Protector magnetotérmico (MCB)** [↗](#)

**ABB Componenten** [↗](#)

ABB Componenten

System pro M compact

S 201 C 2

## ETIM kenmerken

### Kenmerk

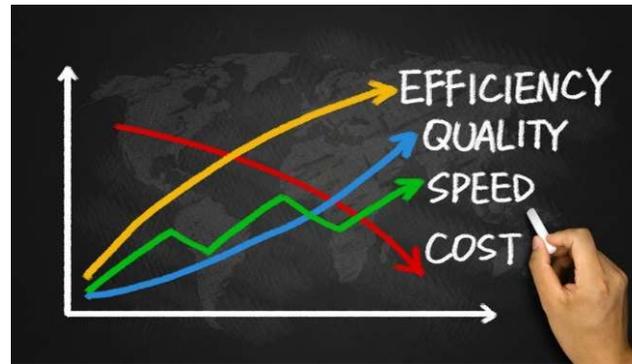
### Waarde

Tipo de disparo	C
Número de polos (total)	1
Número de polos protegidos	1
Corriente nominal	2 A
Tensión nominal	230 V
Capacidad de desconexión de cortocircuito nominal EN 60898	6 kA
Capacidad de desconexión de cortocircuito nominal IEC 609...	10 kA

## ETIM classification – value

### Efficiency:

One single format to publish and exchange  
Flat structure



### Industry standard:

Represents best know how  
Governed by industry  
Supplier independent  
Open standard



### Quality:

Check at onboarding:  
Predefined features & values  
Proven reliability



**FIND**  
instead of  
**SEARCH**

### Really global:

One model, 17 languages  
Wide scope, .... and growing





## **ETIM classification = open standard**

- **ETIM is a complete open standard**
  - **Anyone can use the model (,as it is‘) for free, but**
  - **Only members have influence on development**
  - **Some (country) language versions limited to use for members only**
  - **Additional services on national level**





2902 classes

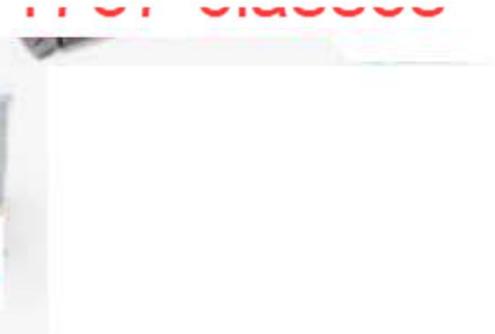


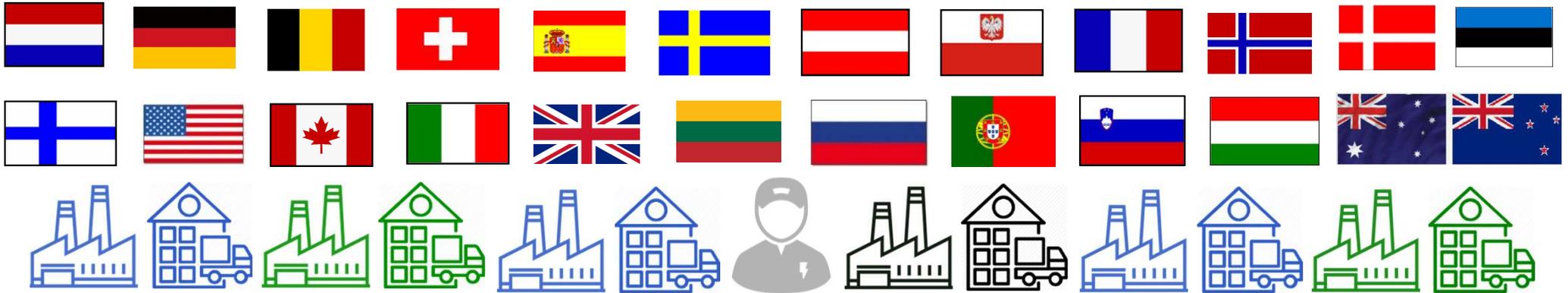
**ETIM 8.0**  
5415 classes





***Overlap in products between sectors, one standard prevents suppliers active in multiple sectors from doing double work!***





GRUNDFOS 

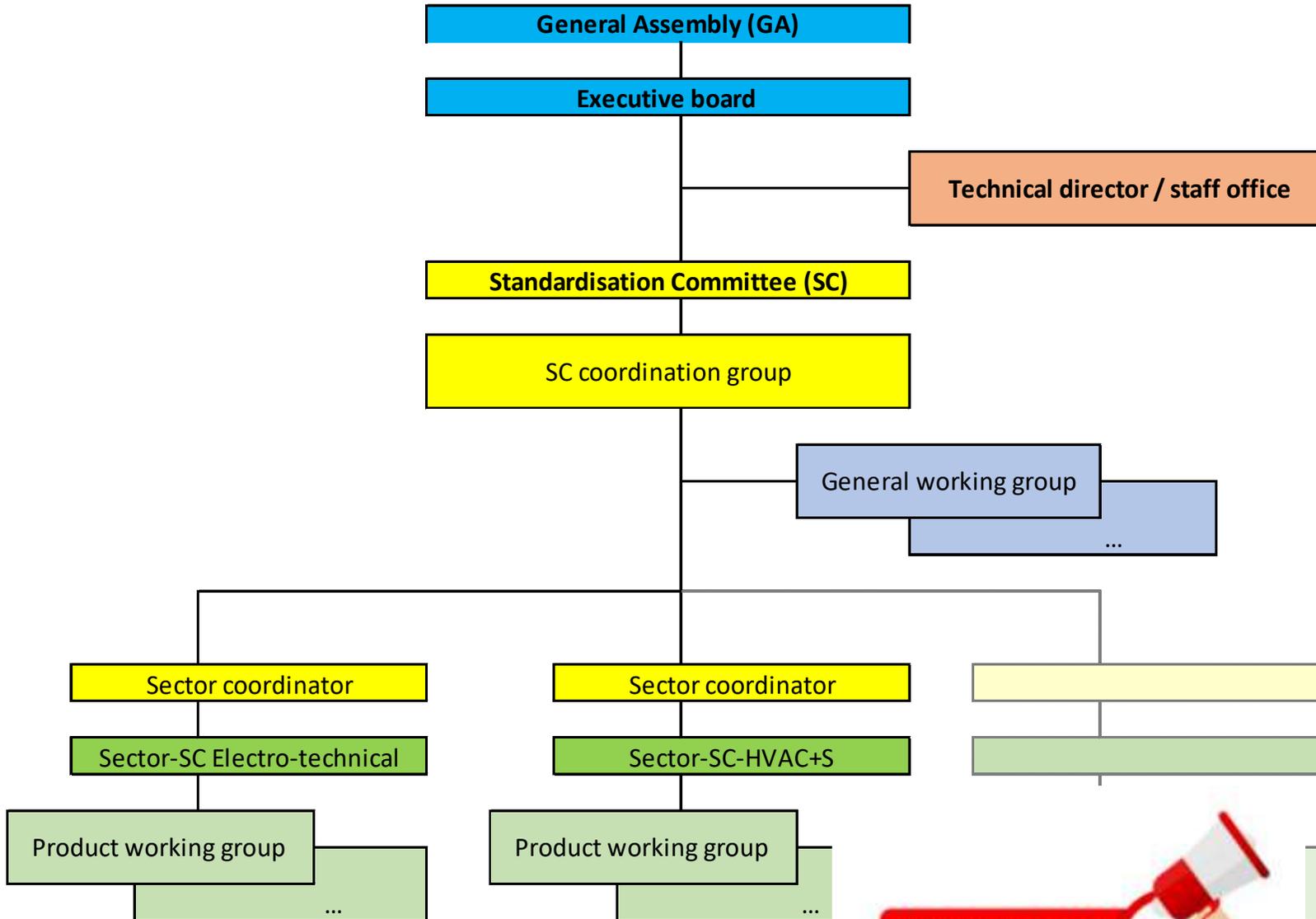
Prysmian  
Group

SIEMENS

  
sonepar

Schneider  
Electric

REXEL

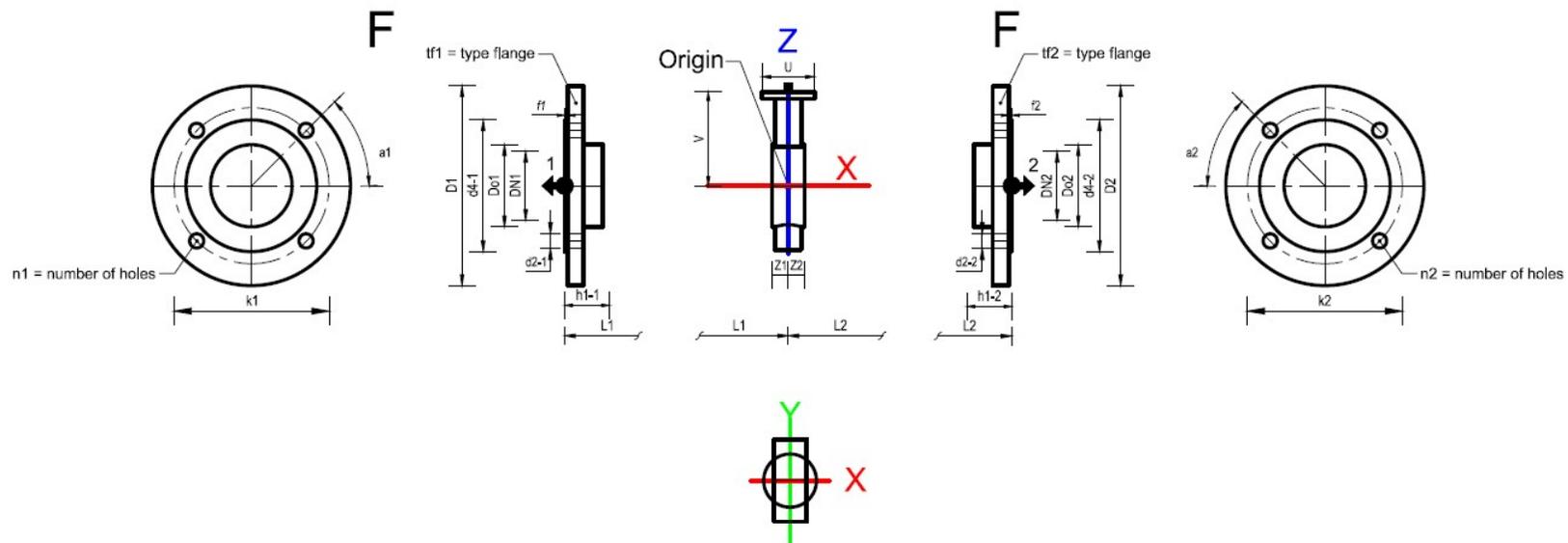


## **ETIM for BIM / Building Information Modelling**

- **Basic ETIM Model – is already important in BIM!**
- **ETIM Modelling Classes / MC**
  - **for parametrical data (3D) and design**
- **ETIM in bSDD (buildingSMART Data Dictionary)**
  - **as interface to the rest of the BIM world**
  - **via IFC applicable in all applications that need product data**

## ETIM Modelling Classes / MC – What is it?

- An extension to the 'core' ETIM product classification model with parameters to generate generic 3D objects (geometry) and data for engineering purposes



# ETIM Modelling Classes / MC – What is it?

Open UOB



ETIM Productklasse

ETIM Modeller klasse

Fabrikant

Merk

Serie

Type

GTIN

Productcode

GLN

Status

Gewicht

Voorganger

Opvolger

[Vortex grille](#)

[MC000178](#)

[UOB](#)

UOB

Wervelrooster

-

-

POC product 7

8714231771753

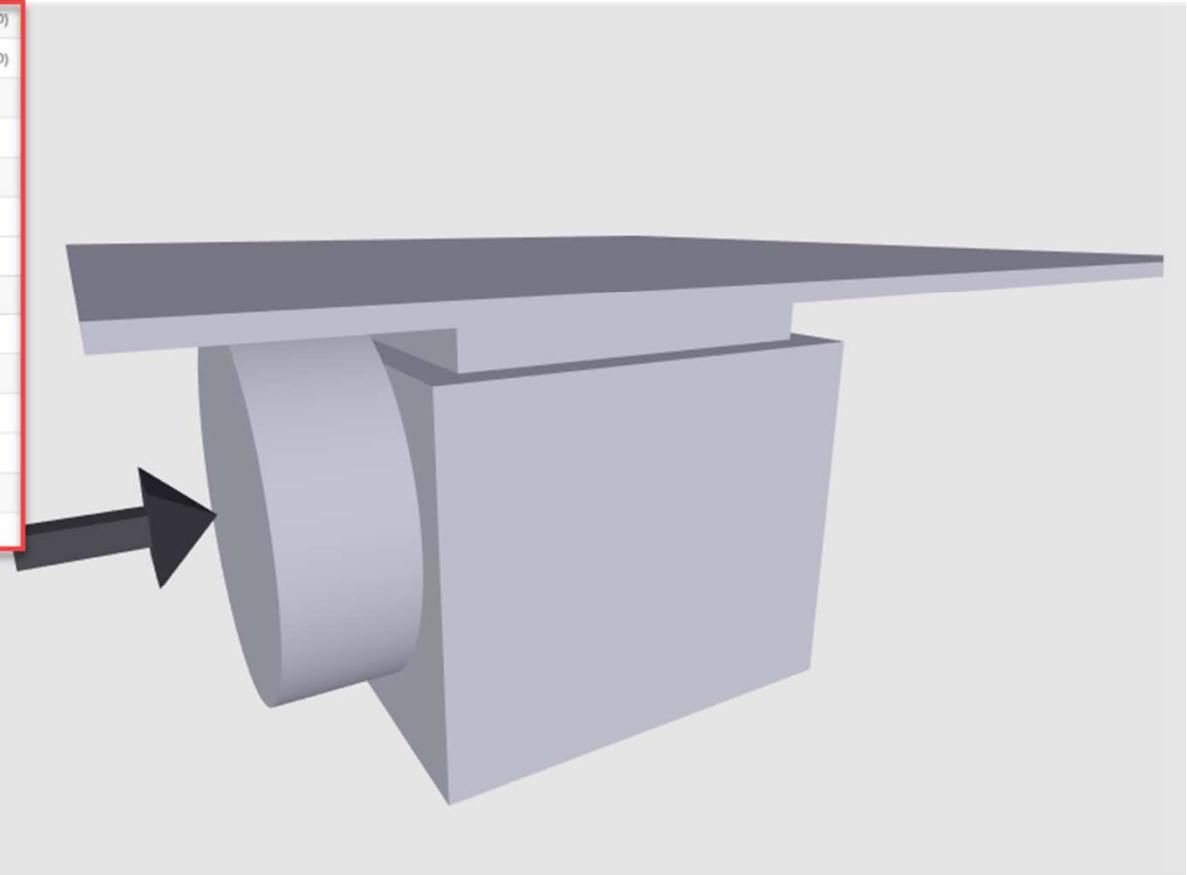
-

10 Kilogram

-

-

Plenum shape	Rectangular (EV000220)
Front shape	Rectangular (EV000220)
Plenum diameter	250 mm
Front diameter	350 mm
Height 1	300 mm
Height 2	50 mm
Length of plenum	300 mm
Front length	600 mm
Plenum width	300 mm
Front width	600 mm
Nominal duct diameter of connection	250 mm
Height, connection	150 mm
Insert length	80 mm
Connection	Insert end (EV020338)



## **ETIM classification – model challenges**

- **Correct and consistent translations**
  - **Duplicates unavoidable in some languages**
- **Compromises on classification**
- **Model quality**
  - **Guidelines and ‘10 commandments’**
- **Keep it as simple and pragmatic as possible**

## **ETIM classification – what's new**

- **Local standard features**
  - **In basic model only global/international standard**
  - **But information according to local standard important**
  - **Special codes like EFUK0001**
- **In development: New product data exchange format**
  - **JSON format (file/web) as successor for BMEcat (XML)**
  - **Harmonised with European Master Data Guideline (EMDG)**

## **ETIM classification – future developments**

- **ETIM 9.0 November 2022**
- **Under investigation: Solution for grouping of features**
- **Under investigation: Feature reference to standard**
- **ETIM National Datapool alliance: cooperation of sector owned ETIM based national central product databases**

Any questions?



Thank you for your attention !!