

The 10 key points for defining your enclosure

> Theme 1: environment

In what type of environment will you be installing your products?

- **Indoors, in a clean environment** (offices, data centres, etc.).....
- **Indoors, in a non-clean environment (mechanical plants, etc.):**
 - Plants with splashing: of oily material, water, impacts, dust.....
 - Disrupted environments: electromagnetic disruptions? Attenuation level required?.....
 - Potentially explosive atmospheres: What ATEX classification (zone, substances, etc.)?
- **Indoors, in a demanding environment (pharmaceutical, food and beverage, etc.):** notions of decontamination, sterilisation, etc.
 - Dry food?.....
 - Moist food?.....
 - Very corrosive food or processes?.....
 - Clean rooms?.....
- **Outdoors** (sides of motorways, sewage treatment plants, etc.)
 - Resistance to saline mist required?
 - Resistance to UV?
 - Anti-posting?.....
 - Anti-graffiti?.....
 - Complete insulation compatible with Class II.....
 - Resistance to fire?
 - Resistance to temperature?
 - Do you need a canopy for protection against stagnating water on the door seal?.....
- **Seal / resistance to impact**
 - IP required?.....
 - IK required?.....



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> Theme 2: business profile

- **Batch size and repetitiveness**
 - What production deadlines do you have? Do you store semi-finished products?.....
 - Is your solution always the same?.....
 - Do you always perform your machining processes at the same location / same dimension?
 - What are the total quantities per reference?.....
 - What are the total quantities per batch?
 - How long does the contract last? What are the conditions for renewal?.....
- **Deliveries**
 - What is your target delivery deadline?.....
 - Partial delivery? Separate body, door or plain mounting plate?
 - Delivery assembled or in kit form?.....

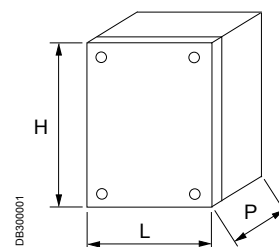


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> Theme 3: dimensions

Height – Width – Depth?

- **Have you any size-related installation constraints?**
 - Should the enclosure fit into a given headroom?.....
 - Should the enclosure fit into a wall?
 - Is there a maximum height limit with plinth?
 - Should the enclosure allow access from more than one side?
- **Do you need to separate two or more parts from one another? (for example: power to the left, network to the right)?**
 - Vertically (in height).....
 - Horizontally (in width).....
 - In this case, would you need to couple several enclosures?



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> Theme 4: fixing

How do you fix your enclosures:

- **To the floor**
 - Do you need a trapdoor for cable access?
 - Do you need cylinders for cleaning under the enclosure?
 - Do you need to move the enclosure?
 - Do you need blast resistance?
- **To the wall**
 - To prevent tilting?
 - Are your enclosures heavily loaded?
 - Do you need a separation from the wall?
- **On the frame of the machine?**
- **In a low wall?**



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> Theme 5: cable entry

- **Where do the cables enter the enclosure?**
 - Top
 - Bottom
 - Rear
 - Side
- **What functions should this cable entry provide?**
 - Degree of protection required: IP 55, IP 65, IP 67, IP 68?
 - Cable fastening required?
 - Mixed membrane ends to adapt to the diameter?
 - Multi-cable ring for passing several cables through the same entry?
 - Blanking plug for transport?
 - Option of passing the cables through a round or rectangular plate with large or small diameters from side to side?
 - Others?



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> Theme 6: hoisting & handling

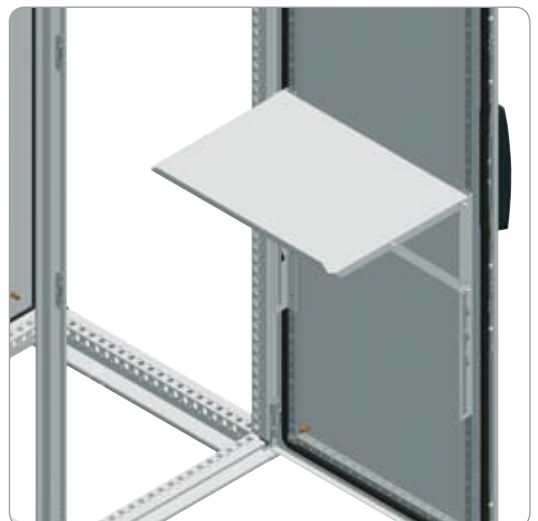
- **How do you install the enclosures on the site?**
 - Hoisting?
 - Handling with pallet?
 - Slings?
 - Other?
 - Is it necessary to improve overall rigidity?



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> Theme 7: door and door accessories

- **What covering and what door opening direction?**
 - Left, right?
 - Plain front door, glazed?
 - Rear door or panel?
- **Do you need an internal door?**
- **Do you need any maintenance accessories?**
 - Door switch?
 - Door stop?
 - Door cross rails?
 - Lamps?
 - With/without detector?
 - With/without socket?
 - Document lip?
 - Door shelf?
 - Door-centring roller?
- **What type of lock do you want?**
- **Do you require cable-management accessories?**



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> Theme 8: internal equipment

1. Automation

● **How will the equipment be installed inside your enclosure?**

- Saves marking time and increases accuracy: microperforated mounting plate.....
- Saves marking time: Telequick mounting plate.....
- Aesthetics, freedom and good earth continuity: plain mounting plate ...
- Depth adjustment: step slides?.....
- Full installation freedom: DIN rail chassis (uprights + partial grilles + symmetric or asymmetric or combined rails).....
- Heavy loads: notched C-shaped rails



2. Power distribution

● **Low voltage:**

- Modular chassis?
- Distribution rail: with or without circuit breaker?

● **Medium voltage:**

- Busbar box and set of bars?

3. Networks

● **Do you need to have access to the rear of the 19" rack?**

- Fixed rack.....
- Swing rack.....
- 19" fixings.....

● **How do you want to support the light equipment?**

- Sliding shelf.....
- Fixed shelf.....

● **How do you want to support the heavy equipment?**

- Notched C-shaped rails?.....
- Crossbars for heavy loads?
- Crossbars with 3 rows?.....

● **Cable management?**

- How will you fix your raceways to the door? On the uprights? On the rails?.....
- Do you need collars and cable ties for fixing your cables?
- Do you need to protect the cables at the body-door joint?.....

● **Earth connection**

- Do you need to earth your chassis/rack?
- Do you need an earth connection?.....



> Theme 9: thermal

- Do you need to cool? Heat? Dry?.....
- Do you need a heat balance to dimension the solution according to your environment or your equipment?



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> Theme 10: customisation

- **2 services to meet all your expectations:**
 - Configured (service based on our standard offer).....
 - Specific (a solution co-developed with your offices).....
- **Do you want to save time?**
 - We perform the machining operations.....
 - We install the accessories at the plant.....
 - We assemble the enclosures at the plant.....
- **Do you want to optimise your management?**
 - A single reference number and a single delivery.....
- **Do you want to benefit from industrial quality for your machining and painting?**
 - We apply RAL colours or any others that you require.....
 - Our cut-outs are made before painting using our industrial machines..
- **Do you want a guarantee and reliability for your facilities?**
 - Our polyurethane gaskets are installed after painting.....



Specific



Configured

Forget about time lost in tracing, in transport to the machining area, the cost of tooling and mistakes and concentrate on your business: the team in our engineering and design department will help you create your own customised enclosures.

● **How?**
Use our configured and specific definition forms or consult your Schneider Electric partner. Together we will realise your projects.



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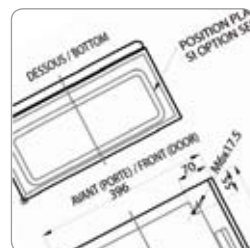
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