Universal Enclosures

More than 50 years protecting your equipment

Catalogue
2012



Schneider Electric

Annexes and spare parts

Annexes and spare parts
Contents

Enclosure certifications 792

International enclosure standard 793

Selection of enclosures 794

Degrees of protection provided by enclosures 795

Classification of electrical equipment enclosures according to NEMA and UL 796

Polyester base coating properties 798

Properties of the plastic materials 800

Electromagnetic compatibility 802

Potentially explosive atmospheres: important information 805

Equipment for potentially explosive atmospheres 806

Fields of application of Schneider Electric ATEX enclosures 807

Description of the marking label affixed to ATEX certified wall-mounting enclosures 808

Spare parts 810

Enclosure certifications

Product certifications are awarded for enclosures as components.

Range		Aim of the certification			
		International standard for electric power enclosures	Standards for industrial equipment and UL classification	Marine environment classification or approval for protection and resistance to vibrations	ATEX
		Standard/Directive			
		IEC 62208	UL508A and CAN CSA C22-2 no. 14	Rules of certifying bodies	European directive no. 94/9/EC EN 60079-0 and -7 EN 61241-0 and -1
SPACIAL	SF	●	●	● ●	
	SM	●	●	● ● (2)	
	S3D	●	●	● ● ● ●	● (1)
	CRN	●	●	●	
	S57	●	●		
	SFX	● (2)	● (2)		
	SMX	●	●	●	
	S3X	●	●	●	● (1)
THALASSA	PLA	●	●	●	
	PLD	●			
	PLM	●	●	●	● (1)
	PLS	●	●		
	TBS/TBP	●	●		
CLIMASYS	CV		●		

(1) ATEX certifications relate to an adapted part of the range. These ranges are distinguished by their EX endings.
(2) In process.

Official certification body								
Bureau Veritas	LCIE (Bureau Veritas)	Bureau Veritas Marine Division	TUV Rheiland Group	Underwriters Laboratories	Laboratorio Oficial J.M. Madariaga	Det Norske Veritas	Germanischer Lloyd	Lloyd´s Register
PB500048	PB500049	PB500048	PB500050	PB500051	PB500052	PB500053	PB500054	PB500055
●	●	●	●	●	●	●	●	●

International enclosure standard
Standards IEC 62208*


PB500056

Empty enclosures for low-voltage switchgear and controlgear assemblies. General rules.

Application

For empty enclosures before adding the user's switchgear, in the condition as supplied by the manufacturer.

Field of application

Demands for testing the enclosures to be used as part of the switchgear assemblies for voltages of less than 1000 V alternating current and 1500 V direct current.

Information supplied by the manufacturer

- Commercial trademark of the manufacturer: Schneider Electric.
- Mechanical characteristics, materials, conditions for use.
- Conditions for use:
  Ambient air temperature for outdoor installations: –25 to +40 °C.
- Atmospheric conditions for outdoor installations: the humidity can temporarily reach 100% at a temperature of 25 °C.
- Transport and storage conditions: from –25 to +55 °C; for limited periods not exceeding 24 h: up to +70 °C.

* European standard EN 62208 is identical to IEC 62208. European countries publish this standard according to the body in each country (for example BS EN 62208 in the UK).


PB500057

Standard tests of standard IEC 62208

- Static loads: test 1.25 x maximum admissible load during 1 hour.
- Lifting: applicable to enclosures with lifting accessories.
- Axial loads of metal inserts: 500 N for 10 seconds for M8 inserts.
- IK code: test according to standard IEC 62262 with pendulum impact tester. After testing, the enclosure keeps its IP rating.
- IP rating: test according to standard IEC 60529. Degree of protection against access to dangerous parts and the penetration of solid bodies and against the penetration of water.
- Thermal stability at a temperature of 70 °C: 7 days.
- Resistance to heat: ball test at 70 °C (1).
- Resistance to abnormal heat and to fire: glow wire test according to IEC 60695-2-10 and IEC 60695-2-11 (1).
- Dielectric strength: 5000 V (1).
- Protection circuit continuity (2): resistance not to exceed 0.1 ohm.
- Weather resistance: duration 500 h (cycle: rain 5 minutes + UV lamp 25 minutes).
- Corrosion resistance:

– For indoor enclosures:
  • 6 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
  • 2 cycles of 24 hours of the salt mist test at 35 °C.
– For outdoor enclosures:
  • 12 cycles of 24 hours of the damp heat test at 40 °C and relative humidity of 95%.
  • 14 cycles of 24 hours of the salt mist test at 35 °C.

Our empty enclosures are marked CE according to the Low-Voltage Directive (LVD). It is the responsibility of the final equipment manufacturer to respect regulations in force.

(1) Information required for enclosures made from insulating material.
(2) For metal enclosures.

Selection of enclosures

Selection according to the IP protection degrees.

The degrees of protection, explained on the next page, is an important element when selecting the enclosures.
The following table shows the protection degrees of the enclosures.

Name	Range	IP 40	IP 41	IP 42	IP 43	IP 44	IP 54	IP 55	IP 65	IP 66
Metal industrial boxes	Spacial S44 and S57									●
Metal derivation boxes	Spacial SDB							●		
Steel universal wall-mounting enclosures	Spacial S3D							● (1)		●
	Spacial CRN									●
	Spacial CRNG							● (1)		●
Steel modular distribution wall-mounting enclosures	Spacial S3DM									●
Terminal wall-mounting enclosures	Spacial S3DB									●
EMC steel wall-mounting enclosures	Spacial S3HF							●		
HMI steel wall-mounting enclosures	Spacial S3CM						●			
ATEX steel wall-mounting enclosures	Spacial S3DEX									●
Stainless-steel wall-mounting enclosures	Spacial S3X									●
ATEX stainless-steel wall-mounting enclosures	Spacial S3XEX									●
Steel floor-standing enclosures	Spacial SM							●		
Steel suitable enclosures	Spacial SF							●		
Stainless-steel floor-standing enclosures	Spacial SMX							●		
Stainless-steel suitable enclosures	Spacial SFX							●		
Steel control desks	Spacial SD							●		
Stainless-steel control desks	Spacial SDX							●		
Thermoplastic industrial boxes	Thalassa TBS-TBP									●
Polyester modular boxes	Thalassa PLS								●	
Polyester wall-mounting enclosures	Thalassa PLM									●
ATEX polyester wall-mounting enclosures	Thalassa PLMEX									●
Polyester floor-standing enclosures	Thalassa PLA (2)					●	●		●	
	Thalassa PLD				●		● (3)			

(1) Double door.
(2) Different IP depending on the version. See introduction in Thalassa PLA section.
(3) With gasket.

The universal offer

3 Material Solutions

- Steel
- Stainless-steel
- Plastic & Polyester

Selection according to the environment

The location of the enclosures and the physical, chemical and climatic conditions to which they are exposed will determine the model to be used.

- Steel enclosures are particularly well suited to indoor use in industrial environments.
- Stainless-steel enclosures are particularly well suited to corrosive environments or areas where specific hygiene demands are applicable.
- Polyester enclosures are particularly well suited to severe corrosive atmospheres, indoors or outdoors.

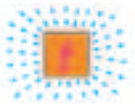
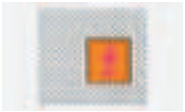
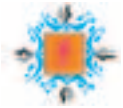
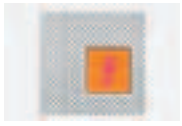
Enclosures made from insulating materials guarantee total insulation, reducing electric hazards for persons.
The main characteristics of the plastic materials of our enclosures and their chemical strength are given on page **801**.

Further help for making the selection is given by the NEMA or UL classification of the enclosure, see page **797**.

Degrees of protection provided by enclosures

- The degrees of protection provided by the enclosures are defined by standards IEC 60529 (IP) and IEC 62262 (IK).
- Degrees of protection are indicated by the letters IP followed by two characteristic numerals.
  The numerals show the degree of protection offered by the enclosure against access to dangerous parts, the penetration of of solid bodies (1st numeral), and against the penetration of liquids (2nd numeral).
- The protection against external mechanical impact is indicated by the letters IK followed by a characteristic group numeral.

Note: Many EN European standards are harmonised with international IEC standards.
This is the case with enclosure protection standards:
– EN 60529 = IEC 60529.
– EN 62262 = IEC 62262.

	IP	IK
First numeral Protection against solid bodies	**Second numeral** Protection against liquids	Mechanical protection
0 No protection	**0** No protection	**0** No protection
1  Protected against solid bodies larger than 50 mm (e.g.: incidental contact with the hand)	**1**  Protected against vertically falling water droplets (condensation)	**01**  7,5 cm Impact energy: 0.150 Joules.
2  Protected against solid bodies larger than 12 mm (e.g.: finger contact)	**2**  Protected against water droplets deflected at up to 15° from vertical	**02**  10 cm Impact energy: 0.200 Joules.
3  Protected against solid bodies larger than 2.5 mm (tools, wires)	**3**  Protected against rainwater at up to 60° from vertical	**03**  17,5 cm Impact energy: 0.350 Joules.
4  Protected against solid bodies larger than 1 mm (fine tools, small wires)	**4**  Protection against water spray from all directions	**04**  25 cm Impact energy: 0.500 Joules.
5  Protected against dust (no harmful deposits)	**5**  Protected against low-pressure water jets from all directions	**05**  35 cm Impact energy: 0.700 Joules.
6  Totally dust tight	**6**  Protected against powerful water jets from all directions	**06**  20 cm Impact energy: 1.00 Joules.
	7  Protected against the effects of immersion	**07**  40 cm Impact energy: 2.00 Joules.
	8  Protected against prolonged effects of immersion under pressure	**08**  29,5 cm Impact energy: 5.00 Joules.
		09  20 cm Impact energy: 10.00 Joules.
		10  40 cm Impact energy: 20.00 Joules.

Classification of electrical equipment enclosures according to NEMA and UL

NEMA and UL are standardisation bodies, commonly recognised in North America, which have issued classifications of enclosures according to the protection offered in various environments.
These classifications are similar.
The 1st table below summarises this classification, which does not include potentially explosive areas. The detailed recommendations of this classification are given on the next page.
The 2nd table indicates the classification of our enclosures.
These classifications appear in our UL certifications (see Certification technical annex on page **792**).
Certification according to the UL classification guarantees the corresponding NEMA classification by equivalence.

Environment and protection	Classification												
	1	2	3	3R	3S	4	4X	5	6	6P	12	12K	13
Indoor use	●	●	●	●	●	●	●	●	●	●	●	●	●
Outdoor use			●	●	●	●	●		●	●			
Incidental contact with the equipment	●	●	●	●	●	●	●	●	●	●	●	●	●
Dirt	●	●	●	●	●	●	●	●	●	●	●	●	●
Drips and gentle splashes of non-corrosive liquids		●	●	●	●	●	●	●	●	●	●	●	●
Rain, frost(*) and snow			●	●	●	●	●		●	●			
Frost (**)					●								
Dust, fibres and particles in suspension			●		●	●	●		●	●	●	●	●
Built-up dust, fibres and particles in suspension			●		●	●	●	●	●	●	●	●	●
Clouds of dust			●		●	●	●		●	●			
Splashes and jets of water						●	●		●	●			
Gentle splashes and leaks of oil or non-corrosive coolants											●	●	●
Drips, splashing and spraying of oil or non-corrosive coolants													●
Corrosive agents							●			●			
Occasional temporary immersion									●	●			
Occasional prolonged immersion										●			

(*) The operation of the external mechanisms is not required when the enclosure is covered with frost.
(**) The operation of the external mechanisms is required when the enclosure is covered with frost.

Enclosures		Type of protection (1)												
		1	2	3	3R	3S	4	4X	5	6	6P	12	12K	13
Steel wall-mounting enclosures	S3D (1)	●	● (*)	● (*)	● (*)		● (*)	● (*)	●			●	● (**)	●
	CRN	●	● (*)	● (*)	● (*)		● (*)		● (*)			●		●
	S3HF	●	●	●	●				●			●		●
Stainless-steel wall-mounting enclosures	S3X (2)	●	● (*)	● (*)	● (*)		● (*)	● (*)	● (*)			●	● (**)	● (*)
Steel floor-standing enclosures	SM	●	● (*)	● (*)	● (*)		● (*)		● (*)			●	●	●
Steel suitable enclosures	SF	●										●	●	
Stainless-steel floor-standing enclosures	SMX	●	● (*)	● (*)	● (*)		● (*)	● (*)	● (*)			●	●	●
Stainless-steel suitable enclosures	SFX	●										●	●	
Thermoplastic boxes	TBP	●		●		●	●	●						
Polyester modular boxes	PLS	●	●	●	●	●	●	●				●		●
Polyester wall-mounting enclosures	PLM	●	●	●	●	●	●	●	●			●	●	●
Polyester floor-standing enclosures	PLA	●	●	● (*)	● (*)	● (*)	● (*)	● (*)	● (*)			●		●

(1) Also S3DM, S3DEX, S57, S3DC and CRNG.
(2) Also S3XEX.
(*) 1 door.
(**) 2 doors.

Components		Type of protection (1)												
		1	2	3	3R	3S	4	4X	5	6	6P	12	12K	13
Ventilation system	CV											●	●	
Thermal regulation system	CC											●	●	

(1) In some ranges the classification depends on the model and version. The detailed protection types are indicated in the UL certifications.

Classification of electrical equipment enclosures according to NEMA and UL



PB500063

The enclosures must protect the equipment against environmental conditions and protect the personnel against the risk of incidental contact with the equipment.
The following classifications (Type) are required according to the required uses and prescriptions:

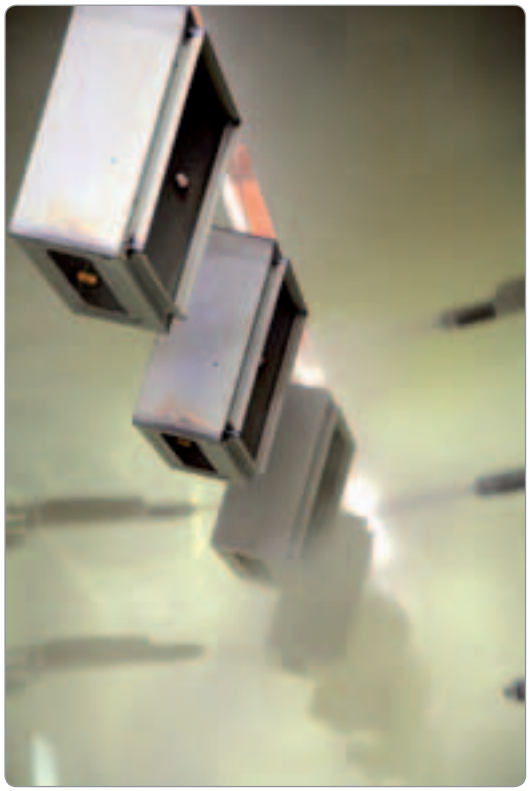
Type	Use	Prescription
1	Indoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt.
2	Indoor use.	It provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, drips and gentle splashes of non-corrosive liquids.
3	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown and resists the formation of ice on the outside.
3R	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow and resists the formation of ice on the outside.
3S	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow and windblown dust. The external mechanism must continue to work even when layers of ice are formed.
4	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown dust, splashes and hose-directed water and resists the formation of frost on the outside.
4x	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, windblown dust, splashes, hose-directed water and resists corrosion and the formation of ice on the outside.
5	Indoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, settling airborne dust, lint, fibres, flyings, drips and gentle splashes of non-corrosive liquids.
6	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, hose-directed of water, the entry of water during occasional temporary submersion to a limited depth and resists the formation of ice on the outside.
6P	Indoor and outdoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, rain, sleet, snow, hose-directed water, the entry of water during prolonged submersion to a limited depth and resists corrosion and the formation of ice on the outside.
12	Indoor use. (without knockouts).	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, fluff, fibres, particles in suspension, drips and gentle splashes of non-corrosive liquids as well as gentle splashes or leaks of oil and non-corrosive coolants.
12K	Indoor use. (enclosures with pre-routing).	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, lint, fibres flyings drips and gentle splashes of non-corrosive liquids as well as gentle splashes or leaks of oil and non-corrosive coolants.
13	Indoor use.	The enclosure provides protection for the personnel against incidental contact with the internal equipment and protects said equipment against dirt, dust, lint, fibres flyings and the spraying, splashing, and seepage leaks of water, oil or non-corrosive coolants.

Note: The above recommendations aim to explain the NEMA and UL classifications, but are not the official texts of NEMA or UL.
The exact definitions provided by the Organisations are those of standards NEMA 250 and UL 50E.



PB500064

Polyester base coating properties



PB500058

Product type

Thermosetting polyester resins based powder coating modified by epoxy resins and designed for decoration and to prevent corrosion.
The performance of this coating is superior to conventional epoxy powders in terms of: colour stability, temperature resistance and weather resistance.
Grey RAL 7035; appearance: structured.

Mechanical properties

Test conditions: steel samples with a thickness of 1 mm.
Degreasing using biodegradable surface-active agents.
Film thickness: 60 microns.

Bonding (scratching and adhesive tape)	ISO 2409	Class 1
Ericksen stamping	ISO 1520	≥ 7 mm
Direct impact resistance	ISO 6272	> 1 kg/70 cm
Indirect impact resistance	ISO 6272	> 1 kg/20 cm
Bending around conical mandrel	ISO 6860 - ASTM D 522-88	Maximum cracking of 70 mm, without the paint coming loose

Chemical properties

Tests conducted at ambient temperature on phosphated samples covered with a 150 to 200 micron film:
Film intact.
Film attacked (blistering, yellowing, loss of gloss).

Number of months			2	4	6	8	10	12
Acid	Acetic	20%						
	Sulphuric	30%						
	Nitric	30%						
	Phosphoric	30%						
	Hydrochloric	30%						
	Lactic	10%						
	Citric	10%						
Base	Soda	10%						
	Ammonia	10%						
Water	Distilled water							
	Sea water							
	Tap water							
	Diluted chloride bleach							
Solvents	Petrol							
	Higher alcohols							
	Aliphatics							
	Aromatics							
	Ketones-esters							
	Tri-perchlorethylene							

Physical properties

Temperature resistance: –40 °C and 100 hours at +150 °C (colour: white).
Gloss retention: good.

Resistance to corrosion

Compliance with standard IEC 62208 for outdoor installations: 288 h of humid heat and 336 h of salt mist.

Polyester base coating properties

Nuclear decontamination

Applicable to colours RAL 7035 and AFNOR A550.
Standard NFT 30901. Percentage of decontamination for contamination by fission products. Please consult us for further details.

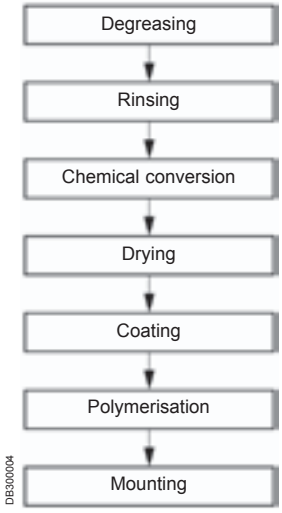
Accelerated aging

Standard IEC 62208: 500h UV according to ISO 4892 (method A) (adherence of the coating with minimum retention of 50% on the grid according to ISO 2409).

Fire behaviour

Class M1 (self-extinguishing material).
Class M0 (for coating on a metal base).

Manufacturing process



Properties of the plastic materials
Mechanical, electrical, physical and fire-resistance properties

Plastic materials generally used to manufacture our products:
- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester reinforced with fibreglass.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

Specifications	Standards	Units	ABS	Polycarbonate	PVC	Bayblend®	Polyester	SBS
Mechanical properties								
Tensile strength	ISO 257	MPa	44	> 65	45	35	85	5
Tensile strain	ISO 527	%	12	> 110	120 to 150	40	0	600
Impact resistance	ISO 179	kJ/m²	125	No breakage	25	No breakage	60	No breakage
Notching resistance	ISO 179	kJ/m²	19	25	20	25	50	-
Electrical properties								
Stress point	IEC 60112	-	-	250-300	> 600	> 550	> 600	-
Surface strength	IEC 60093	ohm	1015	> 1015	> 1013	> 1014	≥1012	> 1013
Dielectric strength	IEC 60243	kV/mm	16.5	> 30	30	24	18-20	20
Specific resistivity	IEC 60093	ohm³cm	1015	> 1016	≥ 1015	1016	≥ 1012	> 1016
Physical properties								
Softening temperature (Vicat B)	ISO 306	°C	95	145-150	79-80	115	(1)	80
Temperature resistance	-	°C	–40...+90	–50...+125	–20...+65	–35...+90	–50...+150	–40...+120
Water absorption	ISO 62	%	0.2 - 0.45	0.15	< 0.1	0.2	0.2	-
Specific weight	ISO 1183	kg/dm³	1.04	1.21	1.4	1.12	1.85	0.3 in 24 h
Fire resistance								
Oxygen index	ISO 4589	%	19	26	45-50	22	24.4	18
Glow wire resistance, 2 mm	IEC 60695-2	°C	650	960	960	750	960	750° (1.5 mm)
Glow wire resistance, 3 mm	IEC 60695-2	°C	650	960	960	750	960	NA

(1) No softening of the polyester.

Specifications	Standards	Units	Altuglas	Polypropylene	Polystyrene	Polyamide 6	Polyamide 12
Mechanical properties							
Tensile strength	ISO 257	MPa	30	35	24	40	30
Tensile strain	ISO 527	%	5	400	36	200	300
Impact resistance	ISO 179	kJ/m²	20	20	63	No breakage	No breakage
Notching resistance	ISO 179	kJ/m²	3	5	50	31.2	15
Electrical properties							
Stress point	IEC 60112	-	-	-	KB175	KB175	KB180
Surface strength	IEC 60093	ohm	≥ 1014	-	> 1013	1012	5 x 1010
Dielectric strength	IEC 60243	kV/mm	13-15	20	≤ 40	23	55
Specific resistivity	IEC 60093	ohm³cm	> 1015	> 1016	> 1015	1011	3 x 1011
Physical properties							
Softening temperature (Vicat B)	ISO 306	°C	120-122	75 (vicat A)	79	230	140
Temperature resistance	-	°C	–20...+80	–10...+80	–15...+60	–20...+100	–50...+125
Water absorption	ISO 62	%	< 0.5	0.1 in 24 h	0.1 in 24 h	1.6	1.5
Specific weight	ISO 1183	kg/dm³	1.18	0.91	1.06	1.14	1.03
Fire resistance							
Oxygen index	ISO 4589	%	18.5	18	18	24	22
Glow wire resistance, 2 mm	IEC 60695-2	°C	-	650	650	750	650
Glow wire resistance, 3 mm	IEC 60695-2	°C	960	650	650	850	650

Properties of the plastic materials

Resistance to chemical agents

Plastic materials generally used to manufacture our products:
- ABS.
- Polycarbonate.
- PVC (polyvinyl chloride).
- Bayblend® = PC + ABS.
- Polyester.
- Altuglas.
- Polypropylene.
- Polystyrene.
- Polyamide 6 and 12.
- SBS.

The table shows:
- The concentration of the chemical agent in %; sat = saturation.
- The resistance of the material:
  +: Resistant.
  O: Limited resistance.
  –: Not resistant.

Resistance to	ABS		Polycar-bonate		PVC		Bayblend®		Polyester		Altuglas		Polypro-pylene		Poly-styrene		Polyamide 6		Polyamide 12		SBS	
Acetone		–		–		–		–		–		O	100	+		–	100	+		+		+
Hydrochloric acid	15	+	10	+	30	+	20	+	30	+	sat	+	10	+		O	10	–	10	+	10	+
Citric acid			10	+	sat	+	10	+	100	+	sat	+	sat	+		+	10	O		+	10	+
Lactic acid	80	+	10	+	90	+	10	–	100	+	20	+	90	+		O	50 90	O –		+ +	sat	+
Nitric acid	30	+	10 100	+ –	50	+	10	+	20	+ +	10 100	+ –	25/ 50			O	2 10	O –		–	50	+
Phosphoric acid	85	+	100	+	sat	+		+	100	+	10 95	+ –	sat	+		O	2 10	O –	50	+		+
Sulphuric acid	50	+	50 100	+ –	96	+	30	+	70	+	30	+	96	+		O	3	–	10	+	96	+
Alcohol		O	96	+	96	+		–	50	O	50	O	96	+		+	96	O	96	+		+
Pure aniline		O		–	100	–		–		O		–	100	+			100	O	100	O		
Benzene		+	100	–		–		+		–		O	100	O			100	+		+		–
Liquid bromine			100	–		–		–					100	–					100	–		–
Liquid chlorine				–	100	–		–	sat	+		–	100	–			100	O		–	50	+
Sea water		+	100	+	100	+		+	100	+	100	+		–	100	+			100	+	sat	+
Petrol		+	100	+	100	O		–	100	+	100	O		–		–	100	+		+		–
Ether		–	100	O	100	–		–	100	O		+					100	+	100	+		–
Hexane		O		+		O		O		–			100	+			100	+	100	+		–
Oil and greases		+	100	+	100	+		O	100	+	100	O	100	+		–		+	100	+		–
Aromatic hydrocarbon		O		–		–		–		–		+	–			–		–		+		–
Fuel oil		O	100	O	100	+		–	100	+	100	–	100	+			100	+	100	+		–
Naphthalene					100	O		–	100	+	100	–	100	+			100	+	100	+		
Nitrobenzene		–		–	100	–		–				–	100	O				–		O		–
Phenol		–		–	sat	O		–	20	O		–	sat	+				–		–	10	O
Mineral salts				+		+		+		+		+		+						+		+
Iodine solution				O		–		+				–						+				
Toluene		–		–	100	–		–		+		O	100	O		–	100	+	100	+		–
Trichloroethylene		–		–	100	–		–		–		–	100	O		–	100	–	100	O		–
Urea			sat	+	sat	+		+					sat	+			10	+	sat	+	sat	O

For other chemical agents, please contact us.
All this information is taken from the best sources and provided for information purposes only, with no commitment on our behalf.

Electromagnetic compatibility

General

The increasing presence of electromagnetic interference in industrial environments, together with the use of equipment susceptible to such interference requires the use of suitably protected enclosures.
In order to suppress electromagnetic interference, S3HF enclosures, due to the type of sheet metal and special gaskets used, fulfil two functions:
- Provision of adequate screening, with the effectiveness of a Faraday cage.
- Ability to provide effective protection of sensitive equipment by using galvanised sheet metal chassis, and by following recommended installation procedures.

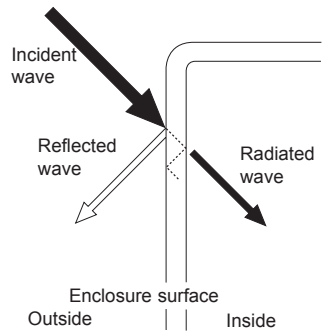
Electromagnetic interference

Electromagnetic disruptions comprises an electrical field E generated by a differing potentials, and a magnetic field M, caused by current circulation, which combine to form electromagnetic field.
The electromagnetic interference or "noise" is a disruptive electrical signal which affects the useful signal and it likely to cause a malfunction.
Interference can be carried through the conductors or emitted through the environment.

Main sources of electrical interference and equipment sensitive to it

- Programmable controllers.
- Electronic circuits or boards.
- Regulators.
- Input signal cables (detectors, sensors, measurement probes).
- Analogue signal cables.

Main sources of electrical interference	
Material	**Frequency range**
Motors	10 kHz...100 MHz
Transformers/rectifiers	10 kHz...100 MHz
Inductive load switching	50 kHz...10 MHz
Spot welders	10 kHz...50 MHz
Fluorescent lamps	100 kHz...3 MHz
Relays, contactors	10 kHz...200 MHz
Switching power sources	10 kHz...30 MHz
Computers (internal clock)	50 kHz...200 MHz
Variable speed drives	10 kHz...100 MHz
Induction furnaces	0...10 kHz
Power cables, etc.	0...10 kHz



DB300006

Attenuation level of EMC fields

The waves of electrical or magnetic fields are reflected when they meet the sheet metal of the enclosure.
The effective rate of the screening or dampening "a" of the incident wave is measured in decibels (dB) using the following formulae:

$$a = 20 \log \frac{E_0}{E_1} \text{ (dB) for electrical fields,}$$

$$a = 20 \log \frac{H_0}{H_1} \text{ (dB) for magnetic fields,}$$

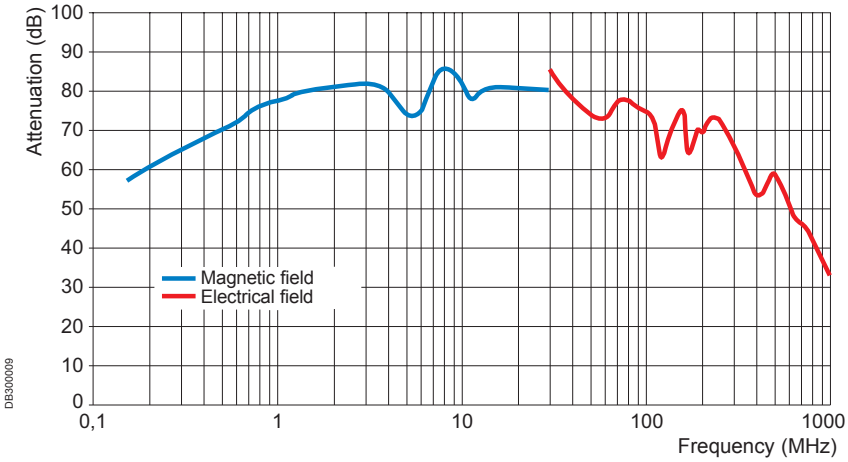
E0 and E1 are the current values of the electrical field, before entering and after entering the enclosure respectively.

H0 and H1 are the magnetic field values.

Electromagnetic compatibility

Example of attenuation level of S3HF enclosures

The presence of 55% aluminium on the surface of the sheet metal ensures good reflection of electromagnetic waves.
The graphic next to these lines shows the attenuation curves (dB) according to the frequency (MHz).



Installation

According to the type of interference generated by the devices:
- Low frequencies, "conducted interference" (up to 30 MHz).
- High frequencies, "radiated interference" (higher than 1 MHz).

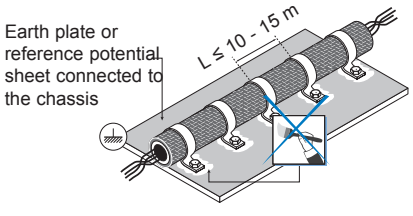
the rules to be taken into account relate to the choice of components that provide the most economical solution to complete the installation.

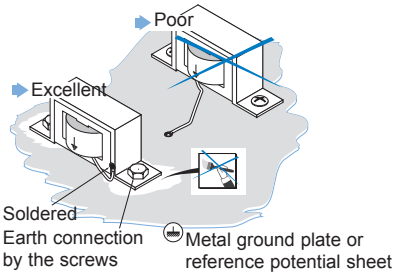
Low-frequency interference

- Importance of the protection systems:
  – Filters, overvoltage suppressor, isolating transformer for the power supply.
  – Cable length.

High-frequency interference

- Importance of the installation method:
  – Earth connections, cable length and section.
  – Cable selection and rules, cable runs, connections.
  – Enclosures and installation.





Specifics

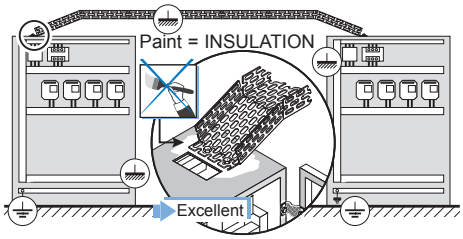
Screen connections

It is recommended to earth screens at both ends. In addition, it is advisable to increase the number of intermediate earth connections.
If the screen is only earthed at one end, there can be a considerable difference in potential between the two ends. In addition, this screen will be ineffective against external high-frequency interference.

Transformers

The transformer chassis must be mounted, metal to metal, on the reference potential plate, that is, on a plain chassis supporting the equipment.

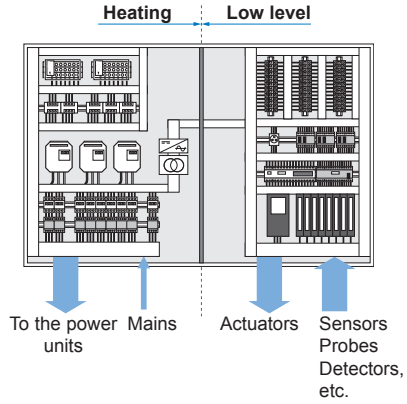
Electromagnetic compatibility



DB300010

Cable runs

The metal ducts and conduits, when correctly connected, provide an extremely effective second screen for the cables.
Cable ends must be screwed to the metal enclosures in order to provide an effective connection.



DB300011

Enclosures

The interfering and sensitive components, cables etc. should be installed in separate enclosures or located at some distance from each other.

Note: For further information, consult your local sales office or our educational leaflet entitled "Electromagnetic compatibility".

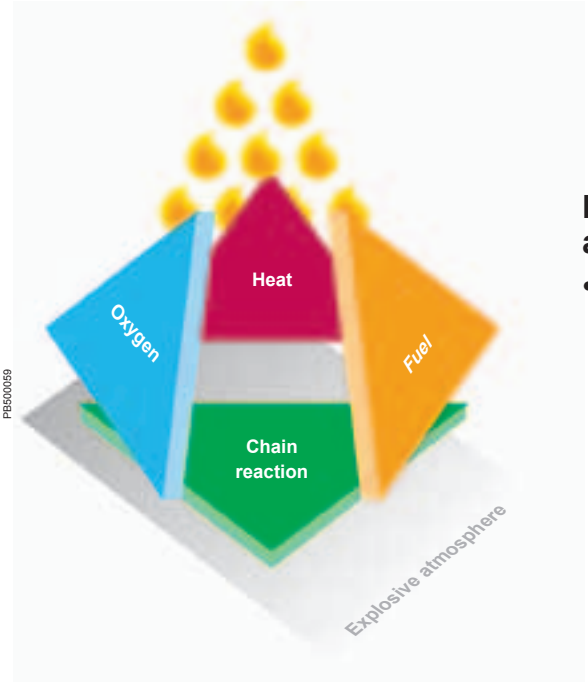
Potentially explosive atmospheres: important information

Product directive 94/9/CE: defines the manufacturers' obligations.

Personal protection directive 99/92/CE: defines the users' obligations.

What is ATEX?

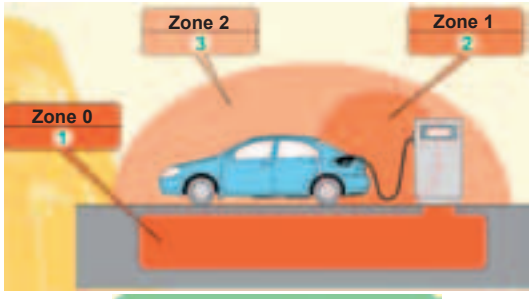
- It is a term commonly used to describe potentially EXplosive ATmospheres and standards for protection systems and equipment.
- Two European directives, ATEX 99/92/CE and ATEX 94/9/CE, and international standards IEC 60079 and IEC 61241, harmonized with EN European standards, apply to this field.



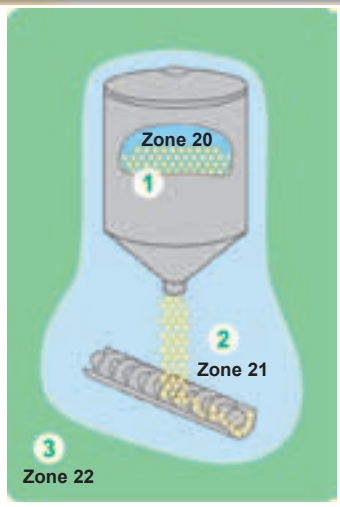
PB500059

How is a potentially explosive atmosphere defined according to ATEX?

- An potentially explosive atmosphere is defined as a mix of flammable substances in the form of gas, vapour, dust (cloud or deposit) which, in air and under normal atmospheric conditions, can completely or partially catch fire in the form of an explosion when exposed to a source of ignition.



PB500060



PB500061

Classification of an explosive atmosphere

- They are classified into groups and zones according to directive 99/92/CE and IEC standards as follows:

Destination	Categories/presence of potentially explosive atmosphere	Hazardous zones	Atmosphere
Group I Mines	**M1 and M2**	**Gas and dust (G & D)**	
Group II surface Industries	1 Permanent or frequent	**Zone 0:** gas and vapour	G
		Zone 20: mist and dust	D
	2 Occasional	**Zone 1:** gas and vapour	G
		Zone 21: mist and dust	D
	3 Rare	**Zone 2:** gas and vapour	G
		Zone 22: mist and dust	D

Equipment for potentially explosive atmospheres

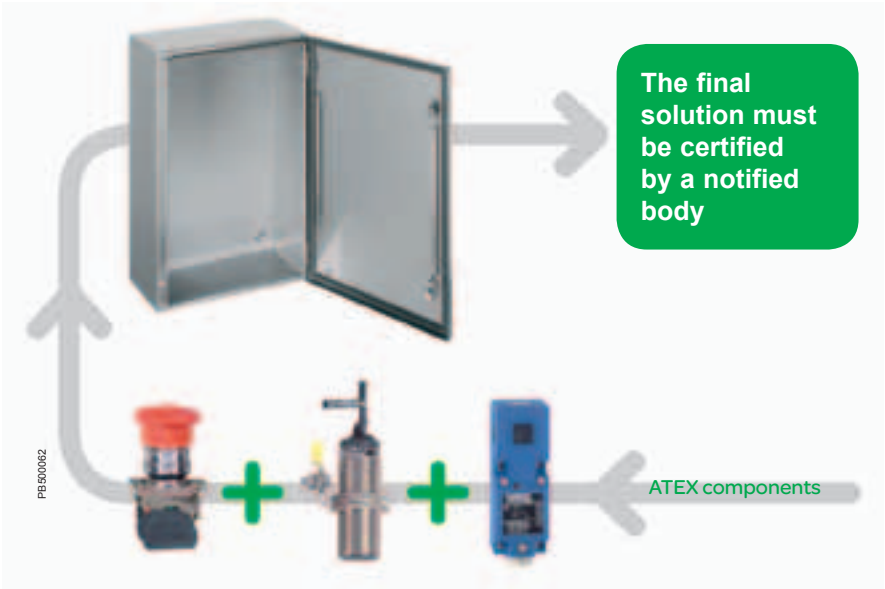
- Since 1st July 2003, European directive ATEX 94/9/CE has made it compulsory to use certified electric or non-electric equipment when it must be installed in zones with explosive atmospheres (gas or dust).
- Certification must be provided by a body which is notified according to the same directive.
- The body notifies its assessment of the quality of the production and certifies that the product complies with the health and safety demands defined in the directive and the international standards.
- The certificate shows the category of the product by marking, and thus the zone and atmosphere in which it can be used.
- The standards define the following types of protection for electric equipment:

Electrical equipment				
CENELEC	**IEC**	**Gas: symbol of the types of protection**	**CENELEC/IEC**	**Powder: symbol of the types of protection**
EN 60079-0	IEC 60079-0	General rules	IEC/EN 61241-0	General rules
EN 50015	IEC 60079-6	**0**-oil immersion	IEC/EN 61241-1	**tD**-protection by enclosures
EN 50016	IEC 60079-2	**p**-pressurised enclosures	IEC/EN 61241-4	**pD**-protection by pressurisation
EN 50017	IEC 60079-5	**q**-powder filling	IEC/EN 61241-11	**iD**-protection by intrinsic safety
EN 60079-1	IEC 60079-1	**d**-flameproof enclosures	IEC/EN 61241-18	**mD**-protection by encapsulation
EN 60079-7	IEC 60079-7	**e**-increased safety		
EN 50020	IEC 60079-11	**i**-intrinsic safety		
EN 60079-15	IEC 60079-15	**n**-type of protection “n”		

Degree of protection

In hazardous areas, equipment is required to offer a minimum degree of protection of IP 54, but it can be tested or certified with a higher degree of protection.

- Enclosures are certified as components. They will be assembled with other ATEX electrical, pneumatic and hydraulic components, among others to form a final solution which, in turn, must be ATEX-certified and subject to a declaration of conformity.



Fields of application of Schneider Electric ATEX enclosures

3 Material solutions for wall-mounting enclosures

Steel

Stainless-steel

Polyester

Zone of application of Schneider Electric ATEX wall-mounting enclosures

Three types of enclosures

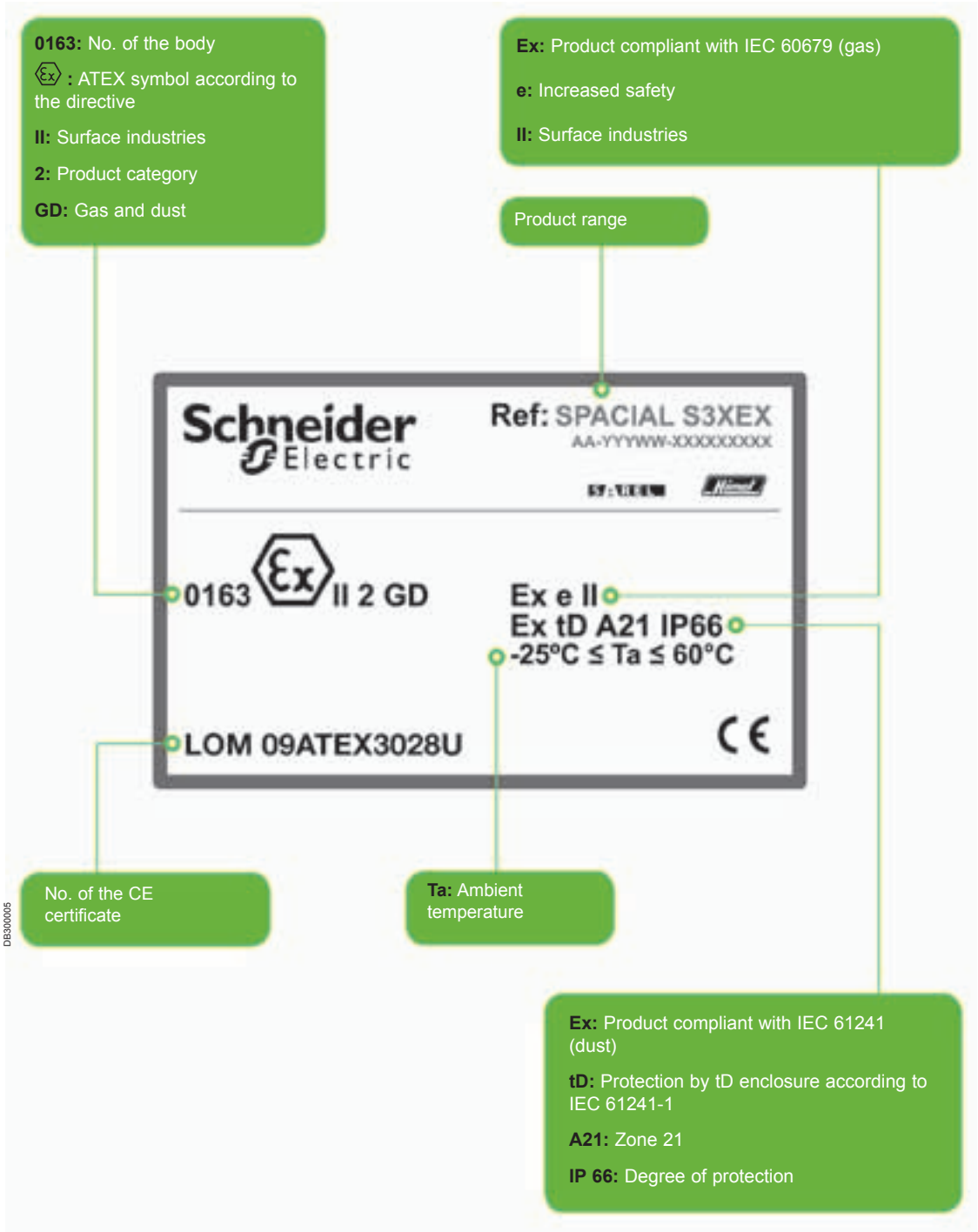
- All the wall-mounting enclosures presented in this brochure comply with standards for protection against the increased risk of explosion in atmospheres charged with gas (G) and/or dust (D).
- The Schneider Electric offer, designed to be used in group II, is classified as category 2.

Destination	Categories/presence of potentially explosive atmosphere	Hazardous zones	Atmosphere
Group I Mines	**M1 and M2**	**Gas and dust (G & D)**	
Group II Surface industries	1 Permanent or frequent	**Zone 0:** gas and vapour	G
		Zone 20: mist and dust	D
	2 Occasional	**Zone 1:** gas and vapour	G
		Zone 21: mist and dust	D
	3 Rare	**Zone 2:** gas and vapour	G
		Zone 22: mist and dust	D

- Category 2 products can be used as category 3.
- Our products are qualified for increased safety “e” (Ex e) but not for explosion-proof safety “d” (Ex d).
- The wall-mounting enclosures have the following marks:
  Ⓔx II 2 GD Ex e II Ex tD A21 IP 66 according to directive 94/9/CE and standards EN 60079-0 (2004), EN 60079-7 (2006), EN 61241-0 (2005) and EN 61241-1 (2004).
- The wall-mounting enclosures offer a degree of protection IP 66 according to EN 60529, exceeding the recommendations of the ATEX directive.
- Certification of our production sites and inspection procedures guarantees observance and consistency of the quality level.

Description of the marking label affixed to ATEX certified wall-mounting enclosures

Download our ATEX certificates from our site.



Spare parts
Selection table

Description	Type	Steel													Reference
		Wall-mounting							Floor-standing						
		S3D	S3DM	S3DC	S3DCD	S3DB	CRN	CRNG	OLN	CMO	S6000	S18500	SF	SM	
Standard door hinges and pins. 4 units. OLN/S6000	Door accessories								●		●				NSYDHS6
Standard door hinges and pins. 4 units. CMO/S18500	Door accessories									●		●			NSYDHS18
Standard gasket for gland plate, 2000 mm. OLN/CMO/S6000/S18500	Door accessories								●	●	●	●			NSYGKTS6
Set of 4 Hinges & fixing elements for SF/SM	Door accessories												●	●	NSYDHSF
Standard Spacial hinge CRN	Door accessories						●								NSYBICRN
Gasket double door encl. for S3D	Door accessories	●													NSYGDD
Set of 5 taps and latches S3D	Door accessories	●													NSYS3DTL
Glazed door H300xW250 CRN	Doors						●								NSYDCRN3025T
Glazed door H300xW300 CRN	Doors						●								NSYDCRN33T
Glazed door H300xW400 CRN	Doors						●								NSYDCRN34T
Glazed door H400xW300 CRN	Doors						●								NSYDCRN43T
Glazed door H400xW400 CRN	Doors						●								NSYDCRN44T
Glazed door H400xW600 CRN	Doors						●								NSYDCRN46T
Glazed door H500xW400 CRN	Doors						●								NSYDCRN54T
Glazed door H500xW500 CRN	Doors						●								NSYDCRN55T
Glazed door H600xW400 CRN	Doors						●								NSYDCRN64T
Glazed door H600xW500 CRN	Doors						●								NSYDCRN65T
Glazed door H600xW600 CRN	Doors						●								NSYDCRN66T
Glazed door H600xW800 CRN	Doors						●								NSYDCRN68T
Glazed door H700xW500 CRN	Doors						●								NSYDCRN75T
Glazed door H800xW600 CRN	Doors						●								NSYDCRN86T
Glazed door H800xW800 CRN	Doors						●								NSYDCRN88T
Glazed door H1000xW600 CRN	Doors						●								NSYDCRN106T
Glazed door H1000xW800 CRN	Doors						●								NSYDCRN108T
Plain door 300x200 S3D	Doors	●													NSYDS3D32
Plain door 300x250 S3D	Doors	●													NSYDS3D325
Plain door 300x300 S3D	Doors	●													NSYDS3D33
Plain door 300x400 S3D	Doors	●													NSYDS3D34
Plain door 400x300 S3D	Doors	●													NSYDS3D43
Plain door 400x400 S3D	Doors	●													NSYDS3D44
Plain door 400x600 S3D	Doors	●													NSYDS3D46
Plain door 500x300 S3D	Doors	●													NSYDS3D53
Plain door 500x400 S3D	Doors	●													NSYDS3D54
Plain door 500x500 S3D	Doors	●													NSYDS3D55
Plain door 600x400 S3D	Doors	●													NSYDS3D64
Plain door 600x500 S3D	Doors	●													NSYDS3D65
Plain door 600x600 S3D	Doors	●													NSYDS3D66
Plain door 600x800 S3D	Doors	●													NSYDS3D68
Plain door 700x500 S3D	Doors	●													NSYDS3D75
Plain door 800x600 S3D	Doors	●													NSYDS3D86
Plain door 800x800 S3D	Doors	●													NSYDS3D88
Plain door 800x1000 S3D	Doors	●													NSYDS3D810
Plain door 800x500 right S3D	Doors	●													NSYDS3D85R
Plain door 800x500 left S3D	Doors	●													NSYDS3D85L
Plain door 800x600 right S3D	Doors	●													NSYDS3D86R
Plain door 800x600 left S3D	Doors	●													NSYDS3D86L
Plain door 1000x600 S3D	Doors	●													NSYDS3D106
Plain door 1000x800 S3D	Doors	●													NSYDS3D108
Plain door 1000x1000 S3D	Doors	●													NSYDS3D1010
Plain door 1200x1000 S3D	Doors	●													NSYDS3D1210
Plain door 1000x500 right S3D	Doors	●													NSYDS3D105R
Plain door 1000x500 left S3D	Doors	●													NSYDS3D105L
Plain door 1000x600 right S3D	Doors	●													NSYDS3D106R
Plain door 1000x600 left S3D	Doors	●													NSYDS3D106L
Plain door 1200x600 S3D	Doors	●													NSYDS3D126
Plain door 1200x800 S3D	Doors	●													NSYDS3D128
Plain door 1200x500 right S3D	Doors	●													NSYDS3D125R
Plain door 1200x500 left S3D	Doors	●													NSYDS3D125L
Plain door 1200x600 right S3D	Doors	●													NSYDS3D126R
Plain door 1200x600 left S3D	Doors	●													NSYDS3D126L
Plain door 1400x500 right S3D	Doors	●													NSYDS3D145R
Plain door 1400x500 left S3D	Doors	●													NSYDS3D145L
Plain door 500x500 S3DCD	Doors				●										NSYDS3DCD55
Plain door 600x600 S3DCD	Doors				●										NSYDS3DCD66
Plain door 700x500 S3DCD	Doors				●										NSYDS3DCD75
Plain door 800x600 S3DCD	Doors				●										NSYDS3DCD86
Plain door 1000x600 S3DCD	Doors				●										NSYDS3DCD106
Plain door 1000x800 S3DCD	Doors				●										NSYDS3DCD108
Plain door 1000x1000 S3DCD	Doors				●										NSYDS3DCD1010
Plain door 1200x1000 S3DCD	Doors				●										NSYDS3DCD1210
Plain door 300x200 S3DC	Doors			●											NSYDS3DC32
Plain door 300x300 S3DC	Doors			●											NSYDS3DC33
Plain door 400x300 S3DC	Doors			●											NSYDS3DC43
Plain door 400x400 S3DC	Doors			●											NSYDS3DC44
Plain door 500x400 S3DC	Doors			●											NSYDS3DC54
Plain door 500x500 S3DC	Doors			●											NSYDS3DC55
Plain door 600x400 S3DC	Doors			●											NSYDS3DC64
Plain door 600x600 S3DC	Doors			●											NSYDS3DC66
Plain door 700x500 S3DC	Doors			●											NSYDS3DC75
Plain door 800x600 S3DC	Doors			●											NSYDS3DC86
Plain door 800x800 S3DC	Doors			●											NSYDS3DC88
Plain door 1000x600 S3DC	Doors			●											NSYDS3DC106
Plain door 1000x800 S3DC	Doors			●											NSYDS3DC108
Plain door 1000x1000 S3DC	Doors			●											NSYDS3DC1010
Plain door 1200x800 S3DC	Doors			●											NSYDS3DC128
Plain door 1200x1000 S3DC	Doors			●											NSYDS3DC1210
Plain door 250x300 S3DB	Doors					●									NSYDS3DB2530

Spare parts
Selection table

Description	Type	Steel													Reference
		Wall-mounting							Floor-standing						
		S3D	S3DM	S3DC	S3DCD	S3DB	CRN	CRNG	OLN	CMO	S6000	S18500	SF	SM	
Plain door 250x400 S3DB	Doors					●									NSYDS3DB2540
Plain door 250x500 S3DB	Doors					●									NSYDS3DB2550
Plain door 300x300 S3DB	Doors					●									NSYDS3DB33
Plain door 300x400 S3DB	Doors					●									NSYDS3DB34
Plain door 300x500 S3DB	Doors					●									NSYDS3DB35
Plain door 300x600 S3DB	Doors					●									NSYDS3DB36
Plain door 400x300 S3DB	Doors					●									NSYDS3DB43
Plain door 400x800 S3DB	Doors					●									NSYDS3DB48
Plain door 500x400 S3DB	Doors					●									NSYDS3DB54
Plain door 600x400 S3DB	Doors					●									NSYDS3DB64
Glazed door 300x250 S3D	Doors	●													NSYDS3D325T
Glazed door 300x300 S3D	Doors	●													NSYDS3D33T
Glazed door 300x400 S3D	Doors	●													NSYDS3D34T
Glazed door 300x600 S3D	Doors	●													NSYDS3D36T
Glazed door 400x300 S3D	Doors	●	●												NSYDS3D43T
Glazed door 400x400 S3D	Doors	●													NSYDS3D44T
Glazed door 400x600 S3D	Doors	●													NSYDS3D46T
Glazed door 500x300 S3D	Doors	●													NSYDS3D53T
Glazed door 500x400 S3D	Doors	●	●												NSYDS3D54T
Glazed door 500x500 S3D	Doors	●													NSYDS3D55T
Glazed door 500x600 S3D	Doors	●													NSYDS3D56T
Glazed door 600x400 S3D	Doors	●	●												NSYDS3D64T
Glazed door 600x500 S3D	Doors	●													NSYDS3D65T
Glazed door 600x600 S3D	Doors	●	●												NSYDS3D66T
Glazed door 600x800 S3D	Doors	●													NSYDS3D68T
Glazed door 700x500 S3D	Doors	●	●												NSYDS3D75T
Glazed door 700x600 S3D	Doors	●													NSYDS3D76T
Glazed door 800x600 S3D	Doors	●	●												NSYDS3D86T
Glazed door 800x800 S3D	Doors	●													NSYDS3D88T
Glazed door 1000x600 S3D	Doors	●	●												NSYDS3D106T
Glazed door 1000x800 S3D	Doors	●	●												NSYDS3D108T
Glazed door 1000x1000 S3D	Doors	●													NSYDS3D1010T
Glazed door 1200x600 S3D	Doors	●													NSYDS3D126T
Glazed door 1200x800 S3D	Doors	●													NSYDS3D128T
Glazed door 1200x1000 S3D	Doors	●													NSYDS3D1210T
Glazed door 1000x500 right S3D	Doors	●													NSYDS3D105TR
Glazed door 1000x500 left S3D	Doors	●													NSYDS3D105TL
Glazed door 1200x500 right S3D	Doors	●													NSYDS3D125TR
Glazed door 1200x500 left S3D	Doors	●													NSYDS3D125TL
Plain door H200xW200 CRN	Doors						●								NSYDCRN22
Plain door H200xW300 CRN	Doors						●								NSYDCRN23
Plain door H250xW200 CRN	Doors						●								NSYDCRN2520
Plain door H300xW250 CRN	Doors						●								NSYDCRN3025
Plain door H300xW300 CRN	Doors						●								NSYDCRN33
Plain door H300xW400 CRN	Doors						●								NSYDCRN34
Plain door H300xW450 CRN	Doors						●								NSYDCRN3045
Plain door H400xW300 CRN	Doors						●								NSYDCRN43
Plain door H400xW400 CRN	Doors						●								NSYDCRN44
Plain door H400xW600 CRN	Doors						●								NSYDCRN46
Plain door H500xW400 CRN	Doors						●								NSYDCRN54
Plain door H500xW500 CRN	Doors						●								NSYDCRN55
Plain door H600xW400 CRN	Doors						●								NSYDCRN64
Plain door H600xW500 CRN	Doors						●								NSYDCRN65
Plain door H600xW600 CRN	Doors						●								NSYDCRN66
Plain door H600xW800 CRN	Doors						●								NSYDCRN68
Plain door H700xW500 CRN	Doors						●								NSYDCRN75
Plain door H800xW600 CRN	Doors						●								NSYDCRN86
Plain door H800xW800 CRN	Doors						●								NSYDCRN88
Plain door H1000xW600 CRN	Doors						●								NSYDCRN106
Plain door H1000xW800 CRN	Doors						●								NSYDCRN108
Roof trim neutral 1000 mm CMO/S18500	Doors									●		●			NSYTRIM10S18
Plain door H1800xW600 mm for OLN/S6000/CMO/S18500	Doors								●	●	●	●			OLPU186
Plain door H1800xW800 mm for OLN/S6000/CMO/S18500	Doors								●	●	●	●			OLPU188
Plain door H2000xW600 mm for OLN/S6000/CMO/S18500	Doors								●	●	●	●			OLPU206
Plain door H2000xW800 mm for OLN/S6000/CMO/S18500	Doors								●	●	●	●			OLPU208
Plain door H2000xW1000 mm for OLN/S6000/CMO/S18500	Doors								●	●	●	●			OLPU2010
Transparent door H1800xW800 mm for OLN/S6000/CMO/S18500	Doors								●	●	●	●			OLPU188KT
Transparent door H2000xW800 mm for OLN/S6000/CMO/S18500	Doors								●	●	●	●			OLPU208KT
Set of 500 earthing labels	Earthing accessories	●	●	●		●	●	●							NSYSWMEL
100 screws cable gland plate S3D	Fixing hardware	●	●					●							NSYS3DCGSB
Standard screw bag cable gland plate	Fixing hardware	●	●					●							NSYS3DCGPSTDSB
Standard handle in RAL 7011 OLN/CMO/S6000/S18500	Locking accessories								●	●	●	●			NSYSDH
Flat escutcheon DB 5 mm insert for OLN/CMO/S6000/S18500/Spacial SD	Locking accessories								●	●	●	●			NSYEMPOLN
Locking system for enclosures 1 single door version 1200H	Locking accessories								●	●	●	●			NSYLCK12S6
Locking system for enclosures 1 single door version 1600H	Locking accessories								●	●	●	●			NSYLCK16S6

Spare parts
Selection table

Description	Type	Steel													Reference
		Wall-mounting							Floor-standing						
		S3D	S3DM	S3DC	S3DCD	S3DB	CRN	CRNG	OLN	CMO	S6000	S18500	SF	SM	
Locking system for enclosures 1 single door version 1800H	Locking accessories								•	•	•	•			NSYLCK18S6
Locking system for enclosures 1 single door version 2000H	Locking accessories								•	•	•	•			NSYLCK20S6
Locking system for enclosures 1 single door version 2200H	Locking accessories								•	•	•	•			NSYLCK22S6
Locking system for enclosures 1 single door version 1200H (right side door for double door version) Spacial SF/SM	Locking accessories												•	•	NSYLCK12SF
Locking system for enclosures 1 single door version 1600H (right side door for double door version) Spacial SF/SM	Locking accessories												•	•	NSYLCK16SF
Locking system for enclosures 1 single door version 1800H (right side door for double door version) Spacial SF/SM	Locking accessories												•	•	NSYLCK18SF
Locking system for enclosures 1 single door version 2000H (right side door for double door version) Spacial SF/SM	Locking accessories												•	•	NSYLCK20SF
Locking system for enclosures 1 single door version 2200H (right side door for double door version) Spacial SF/SM	Locking accessories												•	•	NSYLCK22SF
Locking system for double door enclosures. Secondary door. Spacial SF/SM	Locking accessories												•	•	NSYLCKSF
Set of 10 linkage guides S3D	Locking accessories	•	•	•											NSYS3DLG
Standard lock enclosures for S3DC	Locking accessories			•	•										NSYAEDLS3DC
Standard key DB3 S3D	Locking accessories	•	•			•									NSYAEDLS3DKDB3
3 point lock linkage H 600 mm S3D	Locking accessories	•	•	•											NSYBTAS3D60
3 point lock linkage H 700 mm S3D	Locking accessories	•	•	•	•										NSYBTAS3D70
3 point lock linkage H 800 mm S3D	Locking accessories	•	•	•	•										NSYBTAS3D80
3 point lock linkage H 1000 mm S3D	Locking accessories	•	•	•	•										NSYBTAS3D100
3 point lock linkage H 1200 mm S3D	Locking accessories	•		•	•										NSYBTAS3D120
3 point lock linkage H 1400 mm S3D	Locking accessories	•													NSYBTAS3D140
2244E key handle S3D	Locking accessories	•													NSYAEDL2244S3D
4322A key handle S3D	Locking accessories	•													NSYAEDL4322S3D
1332E key handle S3D	Locking accessories	•													NSYAEDL1332S3D
3132A key handle S3D	Locking accessories	•													NSYAEDL3132S3D
2132A key handle S3D	Locking accessories	•													NSYAEDL2132S3D
2124E key handle S3D	Locking accessories	•													NSYAEDL2124S3D
2314E key handle S3D	Locking accessories	•													NSYAEDL2314S3D
2241A key handle S3D	Locking accessories	•													NSYAEDL2241S3D
2322A key handle S3D	Locking accessories	•													NSYAEDL2322S3D
3432E key handle S3D	Locking accessories	•													NSYAEDL3432S3D
520 key handle S3D	Locking accessories	•													NSYAEDL520S3D
4324E key handle S3D	Locking accessories	•													NSYAEDL4324S3D
3123E key handle S3D	Locking accessories	•													NSYAEDL3123S3D
2131A key handle S3D	Locking accessories	•													NSYAEDL2131S3D
610E key handle S3D	Locking accessories	•													NSYAEDL610S3D
1344E key handle S3D	Locking accessories	•													NSYAEDL1344S3D
601 key handle S3D	Locking accessories	•													NSYAEDL601S3D
705E key handle S3D	Locking accessories	•													NSYAEDL705S3D
2432E key handle S3D	Locking accessories	•													NSYAEDL2432S3D
2133A key handle S3D	Locking accessories	•													NSYAEDL2133S3D
5124A key handle S3D	Locking accessories	•													NSYAEDL5124S3D

Spare parts
Selection table

Description	Type	Steel													Reference
		Wall-mounting							Floor-standing						
		S3D	S3DM	S3DC	S3DCD	S3DB	CRN	CRNG	OLN	CMO	S6000	S18500	SF	SM	
TCRE1 Lock for CRN	Locking accessories						●								NSYTCRE1
TCRE12 Lock for CRN	Locking accessories						●								NSYTCRE12
50 caps for holes of hinges WM	Panels	●	●	●	●	●		●							NSYSWMCH
Set of 50 back plugs WM	Panels	●	●	●	●	●	●	●							NSYSWMBP
Roof trim neutral 600 mm OLN/S6000	Panels								●		●				NSYTRIM6S6
Roof trim neutral 800 mm OLN/S6000	Panels								●		●				NSYTRIM8S6
Roof trim neutral 1000 mm OLN/S6000	Panels								●		●				NSYTRIM10S6
Roof trim neutral 600 mm CMO/S18500	Panels									●		●			NSYTRIM6S18
Roof trim neutral 800 mm CMO/S18500	Panels									●		●			NSYTRIM8S18
Side panel H1800xW500 for OLN/S6000/CMO/S18500	Panels								●	●	●				2PLOL185
Side panel H1800xW600 for OLN/S6000/CMO/S18500	Panels								●	●	●				2PLOL186
Side panel H2000xW500 for OLN/S6000/CMO/S18500	Panels								●	●	●				2PLOL205
Side panel H2000xW600 for OLN/S6000/CMO/S18500	Panels								●	●	●				2PLOL206
Side panel H2000xW800 for OLN/S6000/CMO/S18500	Panels								●	●	●				2PLOL208

Spare parts
Selection table

Description	Type	Stainless steel			Insulating materials		Applicative offer						Reference
		Wall-mounting	Floor-standing		Wall-mounting	Floor-standing	HMI				EMC	ATEX	
		S3X	SFX	SMX	PLM	PLA	S3CM	SD	SDX	SMXPC	S3HF	S3DEX	
Cable gland plate SFX64	Cable gland plates		●										NSYCEX1
Cable gland plate SMX64/SFX65	Cable gland plates		●	●									NSYCEX2
Cable gland p. SDX85/SMX85/SFX86	Cable gland plates		●	●					●				NSYCEX7
Cable gland plate SFX84	Cable gland plates		●										NSYCEX4
Cable gland plate SMX103	Cable gland plates			●									NSYCEX10
Cable gland plate SMX104	Cable gland plates			●									NSYCEX11
Cable gland plate SMX104 316L	Cable gland plates			●									NSYCEX12
Cable gland plate SMX124	Cable gland plates			●									NSYCEX14
Cable gland plate SMX124 316L	Cable gland plates			●									NSYCEX15
Cable gland plate SMX125 316L	Cable gland plates			●									NSYCEX17
Cable gland plate SMX84/SMX164	Cable gland plates			●									NSYCEX5
Cable gland plate SMX166	Cable gland plates			●									NSYCEX8
Cable gland plate SMX166 316L	Cable gland plates			●									NSYCEX9
Cable gland plate SMX84/SMX164 316L	Cable gland plates			●									NSYCEX6
Cable gland plate SDX105/SFX106	Cable gland plates		●						●				NSYCEX13
Cable gland plate SDX125/SMX125	Cable gland plates			●					●				NSYCEX16
Cable gland plate SDX65/SFX126	Cable gland plates		●						●				NSYCEX3
Cable gland plate 800x400 mm SFX	Cable gland plates		●										NSYCEX84A
Cable gland pl. 1 entry W600 mm SD	Cable gland plates							●					NSYCESD6R
Cable gland pl. 1 entry W800 mm SD	Cable gland plates							●					NSYCESD8R
Cable gland pl. 1 entry W1000 mm SD	Cable gland plates							●					NSYCESD10R
Cable gland pl. 1 entry W1200 mm SD	Cable gland plates							●					NSYCESD12R
Cable gland pl. 1 entry W600xD800 mm SD	Cable gland plates							●					NSYFCESD68
Cable gland pl. 1 entry W800xD800 mm SD	Cable gland plates							●					NSYFCESD88
Cable gland pl. 1 entry W1000xD800 mm SD	Cable gland plates							●					NSYFCESD108
Cable gland pl. 1 entry W1200xD800 mm SD	Cable gland plates							●					NSYFCESD128
Cable gland pl. 1 entry W1600xD800 mm SD	Cable gland plates							●					NSYFCESD168
Cable gland pl. 1 entry W800xD1000 mm SD	Cable gland plates							●					NSYFCESD810
Cable gland pl. 1 entry W1000xD1000 mm SD	Cable gland plates							●					NSYFCESD1010
Cable gland pl. 1 entry W1200xD1000 mm SD	Cable gland plates							●					NSYFCESD1210
Cable gland pl. 1 entry W1600xD1000 mm SD	Cable gland plates							●					NSYFCESD1610
Hinges compact control desk SD	Door accessories							●					NSYHSD
Hinges control desk w/console SD	Door accessories							●					NSYHSDF
Standard Spacial hinge CRN	Door accessories						●						NSYBICRN
Hinge PLA (120° opening)	Door accessories					●							NSYAEDPLA004
Axes of door PLAZT (180° opening)	Door accessories					●							NSYAEDPLA005
Rod guide inside the door PLA (set of 2)	Door accessories					●							NSYAEDPLA001
Rod guide on 1 door PLA (set of 2)	Door accessories					●							NSYAEDPLA002
Rod guide on 2 doors PLA (set of 2)	Door accessories					●							NSYAEDPLA003
Door hinge for NSYPLM32	Door accessories				●								NSYAEDHPLM32
Door hinge for NSYPLM3025	Door accessories				●								NSYAEDHPLM3025
Door hinge for NSYPLM43 to 86	Door accessories				●								NSYAEDHPLM
Door hinge for NSYPLM108	Door accessories				●								NSYAEDHPLM108
Set of 2 hinges for S3X	Door accessories	●											NSYHS3X
Set of 3 hinges for SFX	Door accessories		●										NSYHSMX
Set of 3 hinges stainless 316L SMX	Door accessories			●									NSYHSMXH
Left door 304L 1000x1000 mm for S3X	Doors	●											NSYDS3X1010L
Left door 316L 1000x1000 mm for S3X	Doors	●											NSYDS3X1010LH
Right door 304L 1000x1000 mm S3X	Doors	●											NSYDS3X1010R
Right door 316L 1000x1000 mm S3X	Doors	●											NSYDS3X1010RH
Plain door 304L 1000x800 mm for S3X	Doors	●											NSYDS3X108
Plain door 316L 1000x800 mm for S3X	Doors	●											NSYDS3X108H
Left door 304L 1200x1000 mm for S3X	Doors	●											NSYDS3X1210L
Left door 316L 1200x1000 mm for S3X	Doors	●											NSYDS3X1210LH
Right door 304L 1200x1000 mm S3X	Doors	●											NSYDS3X1210R
Right door 316L 1200x1000 mm S3X	Doors	●											NSYDS3X1210RH
Plain door 304L 1200x800 mm S3X	Doors	●											NSYDS3X128
Plain door 316L 1200x800 mm S3X	Doors	●											NSYDS3X128H
Plain door 304L 300x200 mm for S3X	Doors	●											NSYDS3X32
Plain door 304L 300x250 mm for S3X	Doors	●											NSYDS3X325
Plain door 316L 300x250 mm for S3X	Doors	●											NSYDS3X325H
Plain door 316L300x200 mm for S3X	Doors	●											NSYDS3X32H
Plain door 304L 300x300 mm for S3X	Doors	●											NSYDS3X33
Plain door 316L 300x300 mm for S3X	Doors	●											NSYDS3X33H
Plain door 304L 400x300 mm for S3X	Doors	●											NSYDS3X43
Plain door 316L 400x300 mm for S3X	Doors	●											NSYDS3X43H
Plain door 304L 400x400 mm for S3X	Doors	●											NSYDS3X44
Plain door 316L 400x400 mm for S3X	Doors	●											NSYDS3X44H
Plain door 304L 400x600 mm for S3X	Doors	●											NSYDS3X46
Plain door 316L 400x600 mm for S3X	Doors	●											NSYDS3X46H
Plain door 304L 500x400 mm for S3X	Doors	●											NSYDS3X54
Plain door 316L 500x400 mm for S3X	Doors	●											NSYDS3X54H
Plain door 304L 600x400 mm for S3X	Doors	●											NSYDS3X64
Plain door 316L 600x400 mm for S3X	Doors	●											NSYDS3X64H
Plain door 304L 600x600 mm for S3X	Doors	●											NSYDS3X66
Plain door 316L 600x600 mm for S3X	Doors	●											NSYDS3X66H
Plain door 304L 700x500 mm for S3X	Doors	●											NSYDS3X75
Plain door 316L 700x500 mm for S3X	Doors	●											NSYDS3X75H
Plain door 304L 800x600 mm for S3X	Doors	●											NSYDS3X86
Plain door 316L 800x600 mm for S3X	Doors	●											NSYDS3X86H
Plain door 304L 800x800 mm for S3X	Doors	●											NSYDS3X88
Plain door 316L 800x800 mm for S3X	Doors	●											NSYDS3X88H
Left door 304L 1400x1000 mm SMX	Doors			●									NSYDSFX1410L
Right door 304L 1400x1000 mm SMX	Doors			●									NSYDSFX1410R
Door 304L 1600x800 mm SMX	Doors			●									NSYDSFX168
Door 304L 1800x600 mm SMX SFX	Doors		●	●									NSYDSFX186
Left door 1800x1200 mm SMX SFX	Doors		●	●									NSYDSFX1812L
Left door 316L 1800x1200 mm SMX	Doors			●									NSYDSFX1812LH
Right door 1800x1200 mm SMX SFX	Doors		●	●									NSYDSFX1812R

Spare parts
Selection table

Description	Type	Stainless steel			Insulating materials		Applicative offer						Reference
		Wall-mounting	Floor-standing		Wall-mounting	Floor-standing	HMI				EMC	ATEX	
		S3X	SFX	SMX	PLM	PLA	S3CM	SD	SDX	SMXPC	S3HF	S3DEX	
Right door 316L 1800x1200 mm SMX	Doors			●									NSYDSFX1812RH
Door 304L 1800x800 mm SMX SFX	Doors		●	●									NSYDSFX188
Door 316L 1800x800 mm SMX	Doors			●									NSYDSFX188H
Left door 304L 1800x1600 mm SMX	Doors			●									NSYDSFX1816L
Left door 316L 1800x1600 mm SMX	Doors			●									NSYDSFX1816LH
Right door 304L 1800x1600 mm SMX	Doors			●									NSYDSFX1816R
Right door 316L 1800x1600 mm SMX	Doors			●									NSYDSFX1816RH
Left door 2000x1000 mm SMX SFX	Doors		●	●									NSYDSFX2010L
Left door 316L 2000x1000 mm SMX	Doors			●									NSYDSFX2010LH
Right door 2000x1000 mm SMX SFX	Doors		●	●									NSYDSFX2010R
Right door 316L 2000x1000 mm SMX	Doors			●									NSYDSFX2010RH
Door 1800x800 mm SMX SFX	Doors		●	●									NSYDSFX206
Left door 2000x1200 mm SMX SFX	Doors		●	●									NSYDSFX2012L
Left door 316L 2000x1200 mm SMX	Doors			●									NSYDSFX2012LH
Right door 2000x1200 mm SMX SFX	Doors		●	●									NSYDSFX2012R
Right door 316L 2000x1200 mm SMX	Doors			●									NSYDSFX2012RH
Door 2000x800 mm SMX SFX	Doors		●	●									NSYDSFX208
Left door 2000x1600 mm SMX SFX	Doors		●	●									NSYDSFX2016L
Left door 316L 2000x1600 mm SMX	Doors			●									NSYDSFX2016LH
Right door 2000x1600 mm SMX SFX	Doors		●	●									NSYDSFX2016R
Right door 316L 2000x1600 mm SMX	Doors			●									NSYDSFX2016RH
Door without locking for NSYPLM32	Doors				●								NSYDPLM32
Door without locking for NSYPLM3025	Doors				●								NSYDPLM3025
Transp. door without locking for NSYPLM32T	Doors				●								NSYDPLM32T
Glazed door without locking for NSYPLM3025T	Doors				●								NSYDPLM3025T
Plain door 300x200 S3D	Doors											●	NSYDS3D32
Plain door 300x300 S3D	Doors											●	NSYDS3D33
Plain door 400x300 S3D	Doors											●	NSYDS3D43
Plain door 400x400 S3D	Doors											●	NSYDS3D44
Plain door 500x400 S3D	Doors											●	NSYDS3D54
Plain door 600x400 S3D	Doors											●	NSYDS3D64
Plain door 600x600 S3D	Doors											●	NSYDS3D66
Plain door 700x500 S3D	Doors											●	NSYDS3D75
Plain door 800x600 S3D	Doors											●	NSYDS3D86
Plain door 1000x800 S3D	Doors											●	NSYDS3D108
Plain door H400xW300 S3HF	Doors										●		NSYDS3HF43
Plain door H400xW600 S3HF	Doors										●		NSYDS3HF46
Plain door H500xW400 S3HF	Doors										●		NSYDS3HF54
Plain door H600xW400 S3HF	Doors										●		NSYDS3HF64
Plain door H600xW600 S3HF	Doors										●		NSYDS3HF66
Plain door H700xW500 S3HF	Doors										●		NSYDS3HF75
Plain door H800xW600 S3HF	Doors										●		NSYDS3HF86
Plain door H1000xW800 S3HF	Doors										●		NSYDS3HF108
Plain door H1200xW800 S3HF	Doors										●		NSYDS3HF128
Door 500x500 PLA	Doors					●							NSYDPLA55
Door 500x750 PLA	Doors					●							NSYDPLA57
Door 750x500 PLA	Doors					●							NSYDPLA75
Door 750x750 PLA	Doors					●							NSYDPLA77
Door 1000x500 PLA	Doors					●							NSYDPLA105
Door 1000x750 PLA	Doors					●							NSYDPLA107
Door 1250x500 PLA	Doors					●							NSYDPLA125
Door 1250x750 PLA	Doors					●							NSYDPLA127
Door 1500x500 PLA	Doors					●							NSYDPLA155
Door 1500x750 PLA	Doors					●							NSYDPLA157
Door 500x500 with handle PLA	Doors					●							NSYDPLA55H
Door 500x750 with handle PLA	Doors					●							NSYDPLA57H
Door 750x500 with handle PLA	Doors					●							NSYDPLA75H
Door 750x750 with handle PLA	Doors					●							NSYDPLA77H
Door 1000x500 with handle PLA	Doors					●							NSYDPLA105H
Door 1000x750 with handle PLA	Doors					●							NSYDPLA107H
Door 1250x500 with handle PLA	Doors					●							NSYDPLA125H
Door 1250x750 with handle PLA	Doors					●							NSYDPLA127H
Door 1500x500 with handle PLA	Doors					●							NSYDPLA155H
Door 1500x750 with handle PLA	Doors					●							NSYDPLA157H
Plain door H200xW200 CRN	Doors						●						NSYDCRN22
Plain door H200xW300 CRN	Doors						●						NSYDCRN23
Plain door H250xW200 CRN	Doors						●						NSYDCRN2520
Plain door H300xW250 CRN	Doors						●						NSYDCRN3025
Plain door H300xW300 CRN	Doors						●						NSYDCRN33
Plain door H300xW400 CRN	Doors						●						NSYDCRN34
Plain door H300xW450 CRN	Doors						●						NSYDCRN3045
Plain door H400xW300 CRN	Doors						●						NSYDCRN43
Plain door H400xW400 CRN	Doors						●						NSYDCRN44
Plain door H400xW600 CRN	Doors						●						NSYDCRN46
Plain door H500xW500 CRN	Doors						●						NSYDCRN55
Plain door H600xW600 CRN	Doors						●						NSYDCRN66
Plain door H600xW800 CRN	Doors						●						NSYDCRN68
Plain door H800xW600 CRN	Doors						●						NSYDCRN86
Transp. door 304L 1000x800 mm S3X	Doors	●											NSYDS3X108T
Transp. door 304L 400x300 mm S3X	Doors	●											NSYDS3X43T
Transp. door 304L 500x400 mm S3X	Doors	●											NSYDS3X54T
Transp. door 304L 600x400 mm S3X	Doors	●											NSYDS3X64T
Transp. door 304L 700x500 mm S3X	Doors	●											NSYDS3X75T
Transp. door 304L 400x304 mm S3X	Doors	●											NSYDS3X86T
Frontal door 600 mm for SDX	Doors								●				NSYDSDX6
Frontal door 800 mm for SDX	Doors								●				NSYDSDX8
Frontal right door 1000 mm for SDX	Doors								●				NSYDSDX10R
Frontal right door 1200 mm for SDX	Doors								●				NSYDSDX12R
Frontal lest door 1000 mm for SDX	Doors								●				NSYDSDX10L

Spare parts
Selection table

Description	Type	Stainless steel			Insulating materials		Applicative offer						Reference
		Wall-mounting	Floor-standing		Wall-mounting	Floor-standing	HMI				EMC	ATEX	
		S3X	SFX	SMX	PLM	PLA	S3CM	SD	SDX	SMXPC	S3HF	S3DEX	
Frontal left door 1200 mm for SDX	Doors								•				NSYDSDX12L
Desk lid 1000 mm for SDX	Doors								•				NSYDLSDX10
Desk lid 1200 mm for SDX	Doors								•				NSYDLSDX12
Desk lid 600 mm for SDX	Doors								•				NSYDLSDX6
Desk lid 800 mm for SDX	Doors								•				NSYDLSDX8
Door without locking for NSYPLM43	Doors				•								NSYDPLM43
Door without locking for NSYPLM54	Doors				•								NSYDPLM54
Door without locking for NSYPLM64	Doors				•								NSYDPLM64
Door without locking for NSYPLM75	Doors				•								NSYDPLM75
Door without locking for NSYPLM86	Doors				•								NSYDPLM86
Door without locking for NSYPLM108	Doors				•								NSYDPLM108
Glazed door without locking for NSYPLM43T	Doors				•								NSYDPLM43T
Glazed door without locking for NSYPLM54T	Doors				•								NSYDPLM54T
Glazed door without locking for NSYPLM64T	Doors				•								NSYDPLM64T
Glazed door without locking for NSYPLM75T	Doors				•								NSYDPLM75T
Glazed door without locking for NSYPLM86T	Doors				•								NSYDPLM86T
Glazed door without locking for NSYPLM108T	Doors				•								NSYDPLM108T
Desk lid W600 mm SD	Doors							•					NSYDLSD6
Desk lid W800 mm SD	Doors							•					NSYDLSD8
Desk lid W1000 mm SD	Doors							•					NSYDLSD10
Desk lid W1200 mm SD	Doors							•					NSYDLSD12
Desk lid for w/console W800 mm SD	Doors							•					NSYDLSDF8
Desk lid for w/console W1000 mm SD	Doors							•					NSYDLSDF10
Desk lid for w/console W1200 mm SD	Doors							•					NSYDLSDF12
Desk lid for w/console W1600 mm SD	Doors							•					NSYDLSDF16
Folding console cover W800 mm SD	Doors							•					NSYCCSDF8
Folding console cover W1000 mm SD	Doors							•					NSYCCSDF10
Folding console cover W1200 mm SD	Doors							•					NSYCCSDF12
Folding console cover W1600 mm SD	Doors							•					NSYCCSDF16
Cover W400 mm for modular console	Doors							•					NSYMCCSD4
Cover W600 mm for modular console	Doors							•					NSYMCCSD6
Frontal door W600 mm SD	Doors							•					NSYDSD6
Frontal door W800 mm SD	Doors							•					NSYDSD8
Frontal right door W1000 mm SD	Doors							•					NSYDSD10R
Frontal left door W1000 mm SD	Doors							•					NSYDSD10L
Frontal right door W1200 mm SD	Doors							•					NSYDSD12R
Frontal left door W1200 mm SD	Doors							•					NSYDSD12L
Frontal door w/console W800 mm SD	Doors							•					NSYDSDF8
Front. R door w/console W1000 mm SD	Doors							•					NSYDSDF10R
Front. L door w/console W1000 mm SD	Doors							•					NSYDSDF10L
Front. R door w/console W1200 mm SD	Doors							•					NSYDSDF12R
Front. L door w/console W1200 mm SD	Doors							•					NSYDSDF12L
Front. R door w/console W1600 mm SD	Doors							•					NSYDSDF16R
Front. L door w/console W1600 mm SD	Doors							•					NSYDSDF16L
Set of 500 earthing labels	Earthing accessories						•				•	•	NSYSWMEL
Acc. bag for 1 door PLA	Fixing hardware					•							NSYASPLA001
Acc. bag for 2 door h 500-750 PLA	Fixing hardware					•							NSYASPLA002
Acc. bag for 2 door h 1000-1250-1500 PLA	Fixing hardware					•							NSYASPLA003
Acc. bag NSYPLM32	Fixing hardware				•								NSYASPLM32
Acc. bag NSYPLM43 to 86	Fixing hardware				•								NSYASPLM
100 screws cable gland plate S3D	Fixing hardware											•	NSYS3DCGSB
Standard screw bag cable gland plate	Fixing hardware											•	NSYS3DCGPSTDSB
Standard handle in RAL 7011 OLN/CMO/S6000/S18500	Locking accessories							•					NSYSDH
Flat escutcheon DB 5 mm insert for OLN/CMO/S6000/S18500/Spacial SD	Locking accessories							•					NSYEMPOLN
Lock w/DB 3 mm for frontal doors SD	Locking accessories							•					NSYFDLSD
Lock w/DB 3 mm desk lids & covers SD	Locking accessories							•					NSYDLLSDF
Flat escutcheon with DB 5 mm SD	Locking accessories							•					NSYSDFLOCKDB5
Set of 10 linkage guides S3D	Locking accessories											•	NSYS3DLG
Standard Locking system S3HF	Locking accessories										•		NSYAEDLS3HFDB3
Standard key DB3 S3D	Locking accessories											•	NSYAEDLS3DKDB3
3 point lock linkage H 600 mm S3D	Locking accessories											•	NSYBTAS3D60
3 point lock linkage H 700 mm S3D	Locking accessories											•	NSYBTAS3D70
3 point lock linkage H 800 mm S3D	Locking accessories											•	NSYBTAS3D80
3 point lock linkage H 1000 mm S3D	Locking accessories											•	NSYBTAS3D100
Locking system for SDX	Locking accessories								•				NSYLSSDX
Locking system 1000 mm for S3X	Locking accessories	•											NSYLSS3X10
Locking system 1200 mm for S3X	Locking accessories	•											NSYLSS3X12
Locking and rods h 500 for PLA	Locking accessories					•							NSYVPLA5
Locking and rods h 750 for PLA	Locking accessories					•							NSYVPLA7

Spare parts
Selection table

Description	Type	Stainless steel			Insulating materials		Applicative offer						Reference
		Wall-mounting	Floor-standing		Wall-mounting	Floor-standing	HMI				EMC	ATEX	
		S3X	SFX	SMX	PLM	PLA	S3CM	SD	SDX	SMXPC	S3HF	S3DEX	
Locking and rods h 1000 for PLA	Locking accessories					•							NSYVPLA10
Locking and rods h 1250 for PLA	Locking accessories					•							NSYVPLA12
Locking and rods h 1500 for PLA	Locking accessories					•							NSYVPLA15
Handle locking and rods h 500 for PLA	Locking accessories					•							NSYVPLA5M
Handle locking and rods h 750 for PLA	Locking accessories					•							NSYVPLA7M
Handle locking and rods h 1000 for PLA	Locking accessories					•							NSYVPLA10M
Handle locking and rods h 1250 for PLA	Locking accessories					•							NSYVPLA12M
Handle locking and rods h 1500 for PLA	Locking accessories					•							NSYVPLA15M
Locking and rods for NSYPLM108	Locking accessories				•								NSYVPLM108
Locking system 1400 mm for SFX	Locking accessories		•										NSYLSSFX14
Locking system 1600 mm for SFX	Locking accessories		•										NSYLSSFX16
Locking system 1800 mm for SFX	Locking accessories		•										NSYLSSFX18
Locking system 2000 mm for SFX	Locking accessories		•										NSYLSSFX20
50 caps for holes of hinges WM	Panels											•	NSYSWMCH
Aluminium plate H300xW300 S3CM	Panels						•						NSYDAS3CM33
Aluminium plate H300xW400 S3CM	Panels						•						NSYDAS3CM34
Aluminium plate H400xW400 S3CM	Panels						•						NSYDAS3CM44
Aluminium plate H400xW600 S3CM	Panels						•						NSYDAS3CM46
Aluminium plate H500xW500 S3CM	Panels						•						NSYDAS3CM55
Aluminium plate H600xW600 S3CM	Panels						•						NSYDAS3CM66
Aluminium plate H600xW800 S3CM	Panels						•						NSYDAS3CM68
Aluminium plate H800xW600 S3CM	Panels						•						NSYDAS3CM86
Set of 50 back plugs WM	Panels											•	NSYSWMBP
Rear panel 1000 mm for SDX	Panels								•				NSYBPSDX10
Rear panel 1200 mm for SDX	Panels								•				NSYBPSDX12
Rear panel 600 mm for SDX	Panels								•				NSYBPSDX6
Rear panel 800 mm for SDX	Panels								•				NSYBPSDX8
Rear panel W600 mm SD	Panels							•					NSYBPSD6
Rear panel W800 mm SD	Panels							•					NSYBPSD8
Rear panel W1000 mm SD	Panels							•					NSYBPSD10
Rear panel W1200 mm SD	Panels							•					NSYBPSD12

Make the most of your energy

www.schneider-electric.com

Hispano Mecano Eléctrica, S.A.U.

Llobregat, 9
Pol. Ind. El Pla
08750 Molins de Rei (Barcelona)
Spain
Tel.: +34 93 484 33 33
Fax: +34 93 484 34 89

Sarel Appareillage Electrique

BP 106
52, Route de Phalsbourg
67269 Sarre-Union Cedex
France
Tel.: +33 3 88 01 63 95
Fax: +33 3 88 00 18 91

Publication : Schneider Electric
Photos: Schneider Electric Industries
Design-Layout: SEDOC

Due to the evolution of standards and materials, the characteristics indicated by the text and images of this document are not binding for us until our services have confirmed them.
Sarel Appareillage Electrique. Trade register number : 675 680 458 RCS Saverne • Capital: 10 524 800 €

Legal Deposit: B. 3.748-2010