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Distribution enclosures XL³ HP 6300

Cat.Nos: see catalogue pages



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1. GENERAL CHARACTERISTICS

XL³ HP 6300 enclosures are suitable for power distribution equipment. They can be assembled from a roof-base set, uprights, rear panel, side panels, plinth, and a door.
IP30 with perforated panels, with or without door
IP55 with solid panels, door, and sealing kit in case of coupling
IK07 without door
IK08 with glass door
IK10 with solid door

2. RANGE

2.1 Structure

- Structural uprights (4 vertical uprights): 2 in RAL 7035 and 2 in galvanized steel, with markings indicating the mounting positions for equipment (markings corresponding to the XLPro4 6300 software) : heights 1800mm, 2000mm or 2200mm
- Roof-base units in grey RAL 7004, equipped with earth connections and cable entry plates at the bottom :
depth 400mm, 600mm, 800mm, 1000mm or 1200mm
width 450mm, 600 mm, 700mm, 800mm, 1000mm, 1400mm
- Rear and side panels in grey RAL 7035, with or without vents, supplied with 2 retaining clips for easy installation
Can be fitted with a plinth, height 100 mm.

2.2 Door

- Curved metal or glass door
- Reversible door, grey RAL 7035, without dismantling the locking rods (2-point locking system, top and bottom).
Supplied with a lever handle. Interchangeable key barrels to be ordered separately

3. DIMENSIONS AND WEIGHT

Set of roof-base + uprights + rear panel				Curved solid door	Curved glass door	Side panel (x 1)	Side + front plinth
Height (mm)	Width. (mm)	Depth (1) (mm)	Weight (kg)	Weight (kg)	Weight (kg)	Weight (kg)	Weight (kg)
1800	450	400	39,3	11,5	12,3	7,1	4,6
		600	43,9	11,5	12,3	10,6	5,2
		800	48,6	11,5	12,3	14,1	5,8
		1000	53,2	11,5	12,3	17,6	6,4
		1200	58,1	11,5	12,3	21,2	7,0
	600	400	44,8	14.,6	15,5	7,1	5,0
		600	50,1	14.,6	15,5	10,6	5,6
		800	55,4	14.,6	15,5	14,1	6,2
		1000	60,7	14.,6	15,5	17,6	6,8
		1200	66,2	14.,6	15,5	21,2	7,4
	700	400	48,6	16,7	17,6	7,1	5,3
		600	54,4	16,7	17,6	10,6	5,9
		800	60,2	16,7	17,6	14,1	6,5
		1000	66	16,7	17,6	17,6	7,1
		1200	71,9	16,7	17,6	21,2	7,7
	800	400	52,4	18,7	19,7	7,1	5,6
		600	58,7	18,7	19,7	10,6	6,2
		800	65,0	18,7	19,7	14,1	6,8
		1000	71,3	18,7	19,7	17,6	7,4
		1200	77,7	18,7	19,7	21,2	8,0
	1000	400	60,0	22,8	23,9	7,1	6,2
		600	67,3	22,8	23,9	10,6	6,8
		800	74,5	22,8	23,9	14,1	7,4
		1000	81,8	22,8	23,9	17,6	8,0
		1200	89,2	22,8	23,9	21,2	8,6
	1400	800	98,6	-	-	14,1	8,6
		1000	108,1	-	-	17,6	9,2
		1200	118,1	-	-	21,2	9,8

1 : Depth with rear panel, without door: add 3 mm
Depth with curves door and rear panel: add 50 mm

3. DIMENSIONS AND WEIGHT (continued)

Set of roof-base + uprights + side panel				Curved solid door	Curved glass door	Side panel (x 1)	Side + front plinth
Height (mm)	Width. (mm)	Depth [1] (mm)	Weight (kg)	Weight (kg)	Weight (kg)	Weight (kg)	Weight (kg)
2000	450	400	41,7	12,6	13,5	7,9	4,6
		600	46,4	12,6	13,5	11,8	5,2
		800	51,1	12,6	13,5	15,7	5,8
		1000	55,7	12,6	13,5	19,6	6,4
		1200	60,6	12,6	13,5	23,6	7,0
	600	400	47,6	16,0	17,0	7,9	5,0
		600	52,9	16,0	17,0	11,8	5,6
		800	58,2	16,0	17,0	15,7	6,2
		1000	63,5	16,0	17,0	19,6	6,8
		1200	68,9	16,0	17,0	23,6	7,4
	700	400	51,6	18,3	19,3	7,9	5,3
		600	57,4	18,3	19,3	11,8	5,9
		800	63,2	18,3	19,3	15,7	6,5
		1000	68,9	18,3	19,3	19,6	7,1
		1200	74,9	18,3	19,3	23,6	7,7
	800	400	55,6	20,5	21,6	7,9	5,6
		600	61,9	20,5	21,6	11,8	6,2
		800	68,1	20,5	21,6	15,7	6,8
		1000	74,4	20,5	21,6	19,6	7,4
		1200	80,9	20,5	21,6	23,6	8,0
	1000	400	63,5	25,0	26,2	7,9	6,2
		600	70,8	25,0	26,2	11,8	6,8
		800	78,1	25,0	26,2	15,7	7,4
		1000	85,3	25,0	26,2	19,6	8,0
		1200	92,8	25,0	26,2	23,6	8,6
	1400	800	103,2	-	-	15,7	8,6
		1000	112,8	-	-	19,6	9,2
		1200	122,7	-	-	23,6	9,8
2200	450	400	44,3	13,7	14,7	8,7	4,6
		600	48,9	13,7	14,7	13,0	5,2
		800	53,6	13,7	14,7	17,2	5,8
		1000	58,3	13,7	14,7	21,5	6,4
		1200	63,1	13,7	14,7	25,9	7,0
	600	400	50,4	17,4	18,4	8,7	5,0
		600	55,7	17,4	18,4	13,0	5,6
		800	61,0	17,4	18,4	17,2	6,2
		1000	66,3	17,4	18,4	21,5	6,8
		1200	71,8	17,4	18,4	25,9	7,4
	700	400	54,6	19,8	20,9	8,7	5,3
		600	60,4	19,8	20,9	13,0	5,9
		800	66,2	19,8	20,9	17,2	6,5
		1000	71,9	19,8	20,9	21,5	7,1
		1200	77,9	19,8	20,9	25,9	7,7
	800	400	58,8	22,3	23,5	8,7	5,6
		600	65,1	22,3	23,5	13,0	6,2
		800	71,4	22,3	23,5	17,2	6,8
		1000	77,6	22,3	23,5	21,5	7,4
		1200	84,1	22,3	23,5	25,9	8,0
	1000	400	67,1	27,2	28,5	8,7	6,2
		600	74,4	27,2	28,5	13,0	6,8
		800	81,7	27,2	28,5	17,2	7,4
		1000	88,9	27,2	28,5	21,5	8,0
		1200	96,4	27,2	28,5	25,9	8,6
	1400	800	108,0	-	-	17,2	8,6
		1000	117,5	-	-	21,5	9,2
		1200	127,5	-	-	25,9	9,8

The data provided refers to IP55 panels, with weights being very similar to those of IP30 panels.

1 : Depth with rear panel, without door: add 3 mm
Depth with curves door and rear panel: add 50 mm

4. TECHNICAL CHARACTERISTICS

■ 4.1 Technical data

Rated current: 2000 A
Rated operational voltage (Ue): 415 V AC, 50/60 Hz
Rated insulation voltage (Ui): 800 V AC, 50/60 Hz
Rated impulse withstand voltage (Uimp): 8 kV
Short-circuit current (Icc): 100 kA, within the breaking capacity limit of the device installed in the base
Maximum limited peak current (Ipk): 220 kA
Rated short-time withstand current for t = 1 s (Icw): up to 100 kA
Storage and installation temperature: -10°C to +70°C
Operating temperature: -5°C to +40°C
Humidity resistance: 5–95%
Pollution degree: 3

■ 4.2 Degree of protection

IP according to IEC EN 60529
IK according to IEC EN 62262
- IP 30 with perforated panels (air vents)
- IP 55 with solid panels and door
- IK 07 without door
- IK 08 with glass door
- IK 10 with solid door

■ 4.3 Material characteristics

Color: Grey RAL 7035, epoxy-polyester powder coating applied by electrostatic spraying, coating thickness 50–70 µm
Rear panel in painted steel sheet, thickness 12/10 mm
Side panels in painted steel sheet, thickness 12/10 mm
Faceplate in painted steel sheet, thickness 10/10 mm
Mounting plate galvanized steel, thickness 15/10 mm or 20/10 mm
Top and base in painted steel sheet, thickness 15/10 mm
Solid metal door in painted steel sheet, thickness 12/10 mm
Glass door in painted steel sheet, thickness 12/10 mm, with tempered glass thickness 4 mm

■ 4.4 Mechanical characteristics

Maximum load: 1000 kg

■ 4.5 Resistance to climatic conditions

Storage and installation temperature: -10 °C to +70 °C
Operating temperature: -5 °C to +40 °C
Corrosivity class: C4-L
Indoor installation required

■ 4.6 Seismic Withstand Capability

Seismic test – Zone 4, K = 1.5 according to IEC 60068-3-3:2019

5. MAINTENANCE

Resistance to professional detergent and disinfectant solutions.

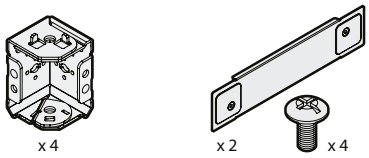
Ethyl-based liquid preparation with surfactant	++
Mild alkaline liquid preparation with surfactant	++
Strong alkaline liquid preparation with disinfectant properties	- -
Alkaline surfactant preparation with amphoteric antibacterial agent	+
Phosphoric acid-based surfactant preparation with disinfectant properties	++
Concentrated alkaline liquid preparation with strong ionic surfactant detergent	-
Concentrated alkaline liquid preparation with EDTA complexing agent	-

6. EQUIPMENTS

■ 6.1 Bases and accessories

Base to assemble: set of 4 feet, height 100 mm, Cat.No 3ZFRC + set of 2 plinths for installation on the enclosure width and set of 2 plinths for installation on the enclosure depth, Cat.No 3ZFRC..

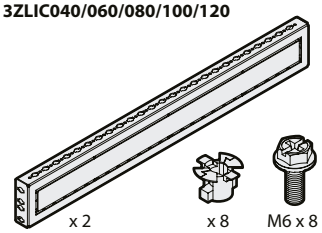
3ZFRC + **3ZFRC040/45/60/70/80/100/120**



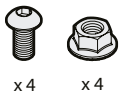
A monobloc plinth is also available for enclosure width 1400 mm and depth 800/1000/1200 mm : 3ZFRC140080, 3ZFRC140100 and 3ZFRC140120

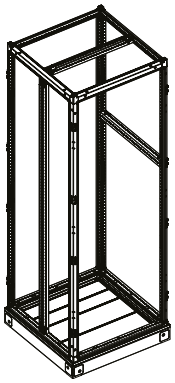
When two enclosures are coupled, internal plinths (set of 2) Cat.No 3ZLIC... allow cable routing (pre-cut central section).

3ZLIC040/060/080/100/120



It is possible to stack two bases using kit Cat.No 3ZFRD

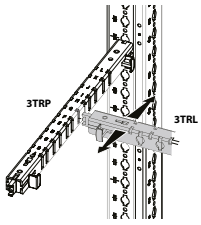




■ 6.2 Functional upright Cat.No 3PR...

Can be fixed horizontally, vertically, or in depth within the enclosure to create a partial frame
Set of 2
Supplied with mounting brackets

■ 6.3 Quick mounting depth crosspiece Cat. No 3TRP...



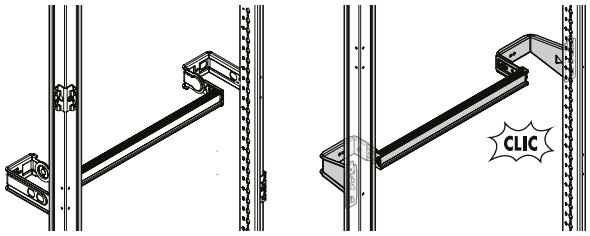
Tool-free mounting on enclosure structural uprights,
for depths up to 800 mm.
For greater depths, add an intermediate structural upright.
Includes markings to facilitate equipment installation
Set of 4 crosspieces

■ 6.4 Quick mounting width crosspiece Cat.No 3TRL...

Tool-free mounting on depth crosspieces of enclosures with a maximum width of 800 mm.
Includes markings to facilitate centering of the mounting plate
Set of 2 crossbars

■ 6.5 Rails

Allow the installation of modular devices or molded-case circuit breakers (DPX³160, DPX-IS 250, or DPX³250 etc). Possibility to mount both modular devices and molded-case circuit breakers on the same rail using a spacer

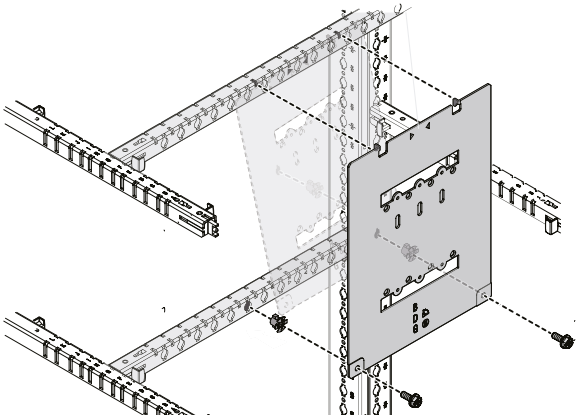


Cat.Nos 3DIN045 / 3DIN060 : screw mounting on the structural uprights of enclosure width 450 mm or 600 mm.

Cat.Nos 3DIN070 / 3DIN080 / 3DIN140 : Tool-free mounting on the structural uprights of enclosures width 700, 800, or 1400 mm

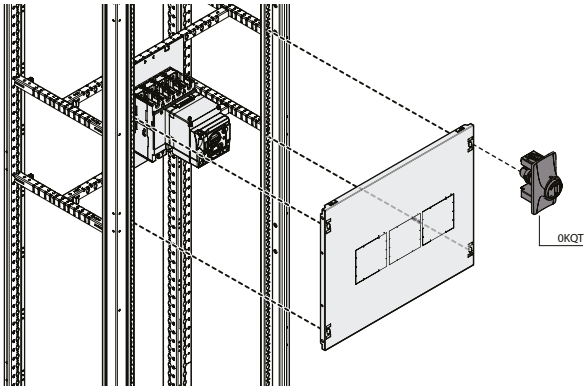
■ 6.6 Mounting plates

To be mounted on width corsspiece Cat.No 3TRL.. by clipping the mounting plate onto the upper crosspiece and screwing it onto the lower part of the plate.. The mounting plate is self-centering on the crosspiece using alignment marking



■ 6.7 Faceplate

To be mounted on the front plate supports using the 1/4 turn locking accessory, Cat.No 0KQT



6. EQUIPMENT (continued)

■ 6.8 Cable fastening crossbar

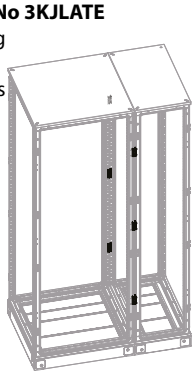
Set of 2 – Galvanized steel
Allow cable fastening using cable ties and the installation of supports for horizontal terminal blocks.
Pre-positioning by hooking before final screw fastening.

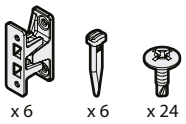
Cat.Nos	For enclosure width or depth (mm)
3TRC040	400
3TRC060	600
3TRC080	800
3TRC100	1000

Possible uses detailed in the instructions:
- Bracing bar for depth or width
- Rail support for terminal block with Cat.No 3DINR060/070/080

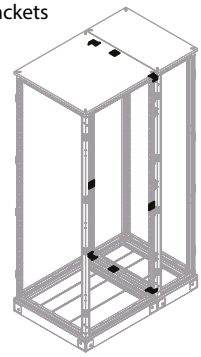
■ 6.9 Enclosure assembly kit

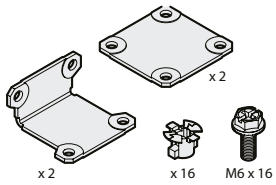
External assembly Cat.No 3KJLATE
Assembly set consisting of:
- 6 assembly components (right + left)
- 6 retaining shafts
- fasteners





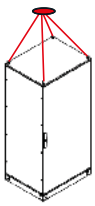
Inner assembly Cat. No 3KJLATI
Assembly set consisting of:
- 4 brackets
- 2 coupling brackets
- nut clips
- fasteners



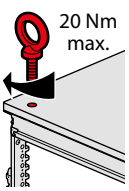


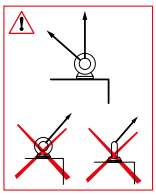
■ 6.10 Lifting

Lifting rings Cat.No 3KLIFTA
Set of 4 lifting rings

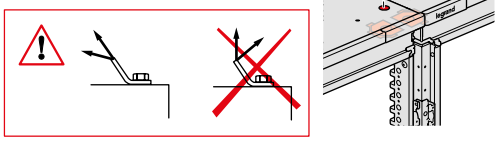


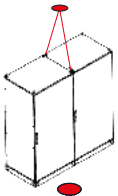
Max load: 1000 kg



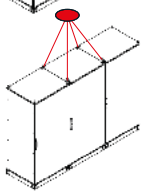


Lifting angles Cat.No 3KLIFTB
Set of 2
Balances the load between 2 enclosures during lifting.





Maximum load when 2 enclosure are joined: 930 kg

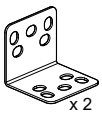


Maximum load when 3 enclosure are joined: 1400 kg

7. ACCESSORIES

■ 7.1 Wall mounting bracket Cat.No 3P47702

Direct mounting on the enclosure.
Accessories for wall mounting not supplied.
Stainless steel
Dimensions : 100 x 90 x 90 mm thickness 3 mm
Slot 20 x 16 mm



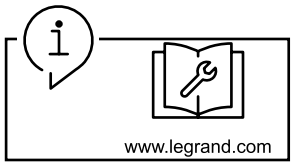
8. STANDARDS AND REGULATIONS

Compliant with regulations applicable to buildings and workplaces accessible to the public, and with the following standards:
IEC 61439-1
IEC 61439-2

RoHS
Compliance with the 2011/65/EU Directive (RoHS), as modified by the 2015/863/EU Delegated Directive, on the restriction of the use of certain hazardous substances in electrical and electronic equipment

REACH
The substances identified as SVHC (Substances of Very High Concern) according to the REACH Regulation (1907/2006), if present in the products at a concentration above 0.1% weight by weight, are declared inside the European SCIP database. At the date of publication of this document none of the substance listed in the annex XIV is found in this product.

9. OTHER INFORMATION



Instruction sheet : detailed mounting procedures, available on e-catalog

Workshop manual : mounting information, equipment, accessories and other information available on e-catalog

Logistics guide: handling and transport information for cabinets, available on e-catalog

PEP : available on e-catalog

XLPro4 Calcul : Calculation notes creation software, addressed to installers, design office and maintenance operators. Definition of the electrical characteristics of a low voltage installation in compliance with the applicable standards.

XLPro4 Panels : Distribution panel design software, addressed to panelbuilders and electrical panel designers. Design of the electrical distribution of the panel, production of electrical diagrams, establishment of products and overall costing of the project.