

TECNO

IP66 Steel terminal boxes

The terminal boxes range is available in various versions to satisfying all the fitter's needs. They come in cold rolled steel, in AISI 304L and AISI 316L stainless steel, and in ATEX-marked stainless steel.

They are intended for the industrial sector as a machine tool and automation system control box. They are available in a wide variety of sizes, with plain sides or lids for cable entries (see rolled steel version).

They have a closing system that uses quick-release screws with watertight caps to ensure greater security.

The design and manufacture of this line is perfectly suited to special applications that require particular dimensions or the specific mechanisation of a product to meet the requirements of the installation.

TECNO Technical Specifications (Rolled steel)

- **Degree of protection:** IP66 / NEMA 1, 4, 12.
- **Resistance to impact:** IK10.
- **Ambient temperature range:** -25 ºC / +60 ºC.
- **Maximum operating voltage:** 1000 V AC / 1500 V DC.

TECNO Certifications

Compliant with the Low Voltage Directive 2014/35/EU.
Standard: UNE-EN 62208.
UL508A certificate (Rolled steel boxes).

TECNO

IP66 rolled steel terminal boxes



Product series (Rolled steel)

Standard

- Boxes with plain sides and screw-on cover with depths of 90 mm and 135 mm.
- Boxes with cable entry and screw-on cover with a depth of 135 mm.

To order

- Special boxes, dimensions, cut-outs, colours, etc.

Supply

Supplied in individual packaging containing the enclosure, lid and the accessory bag.

Accessory bag:

- Screws plus caps for enclosure-lid fixing.
- Side and central brackets (central bracket only for boxes with height of 600 mm and 800 mm).
- Cable entry lid plus screws (only included in EXA type references).
- Ø9 mm caps for wall mounting and drainage.
- Assembly instructions.

Aimed at industrial environments requiring a high degree of protection against dust, splashes and impacts

Material

- Cold-rolled steel EN 10130+A1.
- Injected polyurethane sealing gasket.

Finish

- Coated with hardened RAL 7035 embossed polyester paint, with UV protection.

Protection

- Corrosion resistance according to the UNE-EN 62208 standard. For outdoor installations, the effect of the corrosion must be taken into consideration.

Standard painting cycle

- **Degreasing:** Removal of remains of contaminants by means of a neutral stripper and tensoactive concentrate.
- **Rinsing:** Two rinses, the first one with mains water and the second one with demineralised water.
- **Passivation:** Thin-coat conversion agent.
- **Drying:** With hot air (in a tunnel at 100 °C).
- **Painting:** Coated with hardened RAL 7035 polyester paint.
- **Firing:** Furnace polymerisation adherence at 180 °C for 15-20 min.







Enclosure

- Manufactured in cold-rolled steel from a single cross-shaped part.
- Sheet steel with a thickness of 1.2 mm.
- Wall-mounting by means of four Ø9 mm cut-out holes 20x20 mm located from the outside. They can also be wall-mounted by means of a bracket that leaves a gap of 11 mm (supplied as an accessory).
- Double tilt fold improving the contact with the lid to ensure the exact tightening and increasing the opening frame space of the box.
- There is a Ø9 mm drainage cut-out at the base of the box in order to prevent condensation on the inside.
- For the version of boxes with cable entry, the entry space is 65x195 mm in all references. The entry is compatible with FL21-type frame.
- M6x10 bolts, two or four pieces depending on the versions, located at the base of the box to secure the side and central brackets used to fix plates, profiles or accessories. One of the bolts can be used to earth the unit.

Mounting brackets

- The side and central mounting brackets are secured by the M6x10 bolts located in the base of the box by means of M6 nuts.
- They permit multiple rail and plate positioning combinations, adapting to the needs of the installer. These accessories will be joined by means of 4 mm sheet metal screws inserted into the existing housings in the brackets intended for this purpose.
- The boxes with a height of 150 to 500 mm have 2 side brackets.
- The boxes with a height of 600 to 800 mm have 2 side brackets plus 1 central bracket.







Lid

- The lid is totally flat, thus permitting the attachment of pilot lights, control elements or silkscreen printing of internal systems.
- The inside of the lid is coated by a injected polyurethane sealing gasket that guarantees IP66 protection against water and foreign bodies.
- M6x10 bolt for connection guaranteeing mass continuity.
- The lid is fastened with fast jackscrews with watertight caps to guarantee perfect fixing.
- Sloping sides increasing the contact with the enclosure guaranteeing the exact tightening.

Mounting plate

- Plate not included in the unit, supplied as an accessory.
- Made from galvanised sheet steel with a thickness of 2 mm.
- It is fixed to the brackets by means of 4-mm sheet metal screws.
- For bases with a central bracket, a single plate, double plate or a plate occupying half of the base may be fitted.

Hinges

- Possibility of installing hinges, both in height and width, thanks to the built-in slit incorporated both in the enclosure and cover for screw insertion. Hinges are supplied as accessories.

TECNO

IP66 rolled steel terminal boxes

IP66 boxes with cable entry and screw-on lid. Rolled steel

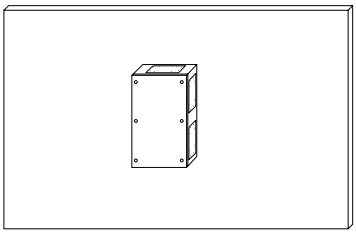
Reference No.	Dimensions			Opening frame space		Drawing	Sheet thickness		Cable entry		Plate brackets		Weight	Power dissipation according to temperature increase °C P(W)				
	A	B	C	D	E		ENCL.	LID	ENT. IN A	ENT. IN B	SIDE	CENT.	kg	20	25	30	35	40
EXA3015135	300	150	135	275	125	Drawing 3	1.2	1.2	1	0	2	-	2.9	17.2	21.5	25.8	30.1	34.4
EXA3020135	300	200	135	275	175	Drawing 3	1.2	1.2	1	0	2	-	3.5	21.4	26.8	32.1	37.5	42.8
EXA3030135	300	300	135	275	275	Drawing 3	1.2	1.2	1	1	2	-	5.0	28.1	35.1	42.2	49.2	56.2
EXA4020135	400	200	135	375	175	Drawing 3	1.2	1.2	1	0	2	-	4.0	27.2	34.0	40.8	47.5	54.3
EXA4030135	400	300	135	375	275	Drawing 3	1.2	1.2	1	1	2	-	5.9	35.4	44.3	53.1	62.0	70.8
EXA4040135	400	400	135	375	375	Drawing 3	1.2	1.2	1	1	2	-	7.3	43.6	54.6	65.5	76.4	87.3
EXA5020135	500	200	135	475	175	Drawing 3	1.2	1.2	2	0	2	-	5.3	32.9	41.2	49.4	57.6	65.8
EXA5030135	500	300	135	475	275	Drawing 3	1.2	1.2	2	1	2	-	7.2	42.7	53.4	64.1	74.7	85.4
EXA6020135	600	200	135	575	175	Drawing 4	1.2	1.2	2	0	2	1	6.3	38.7	48.3	58.0	67.7	77.4
EXA6030135	600	300	135	575	275	Drawing 4	1.2	1.2	2	1	2	1	7.2	50.0	62.5	75.0	87.5	100.0
EXA6040135	600	400	135	575	375	Drawing 4	1.2	1.2	2	1	2	1	10.5	61.3	76.6	92.0	107.3	122.6
EXA8020135	800	200	135	775	175	Drawing 4	1.2	1.2	3	0	2	1	8.2	50.2	62.7	75.3	87.8	100.4
EXA8040135	800	400	135	775	375	Drawing 4	1.2	1.2	3	1	2	1	13.3	79.0	98.7	118.5	138.2	158.0

IP66 boxes with plain sides and screw-on lid. Rolled steel

Reference No.	Dimensions			Opening frame space		Drawing	Sheet thickness		Plate brackets		Weight	Power dissipation according to temperature increase °C P(W)				
	A	B	C	D	E		ENCL.	LID	SIDE	CENT.	kg	20	25	30	35	40
ELA151590	150	150	90	125	125	Drawing 1	1.2	1.2	2	-	1.3	8.5	10.6	12.7	14.8	17.0
ELA201590	200	150	90	175	125	Drawing 1	1.2	1.2	2	-	1.6	10.6	13.2	15.9	18.5	21.2
ELA202090	200	200	90	175	175	Drawing 1	1.2	1.2	2	-	2.0	12.8	16.1	19.3	22.5	25.7
ELA301590	300	150	90	275	125	Drawing 1	1.2	1.2	2	-	2.1	14.8	18.5	22.2	25.8	29.5
ELA302090	300	200	90	275	175	Drawing 1	1.2	1.2	2	-	2.6	17.8	22.3	26.7	31.2	35.6
ELA402090	400	200	90	375	175	Drawing 1	1.2	1.2	2	-	3.3	22.8	28.5	34.2	39.8	45.5
ELA1515135	150	150	135	125	125	Drawing 1	1.2	1.2	2	-	1.6	10.6	13.2	15.9	18.5	21.2
ELA2015135	200	150	135	175	125	Drawing 1	1.2	1.2	2	-	1.9	13.1	16.4	19.6	22.9	26.2
ELA2020135	200	200	135	175	175	Drawing 1	1.2	1.2	2	-	2.4	15.7	19.6	23.5	27.4	31.3
ELA3015135	300	150	135	275	125	Drawing 1	1.2	1.2	2	-	2.5	18.1	22.6	27.1	31.6	36.1
ELA3020135	300	200	135	275	175	Drawing 1	1.2	1.2	2	-	3.1	21.4	26.8	32.1	37.5	42.8
ELA3030135	300	300	135	275	275	Drawing 1	1.2	1.2	2	-	4.2	28.1	35.1	42.2	49.2	56.2
ELA4020135	400	200	135	375	175	Drawing 1	1.2	1.2	2	-	3.8	27.2	34.0	40.8	47.5	54.3
ELA4030135	400	300	135	375	275	Drawing 1	1.2	1.2	2	-	5.2	35.4	44.3	53.1	62.0	70.8
ELA4040135	400	400	135	375	375	Drawing 1	1.2	1.2	2	-	6.5	43.6	54.6	65.5	76.4	87.3
ELA5020135	500	200	135	475	175	Drawing 1	1.2	1.2	2	-	4.5	32.9	41.2	49.4	57.6	65.8
ELA5030135	500	300	135	475	275	Drawing 2	1.2	1.2	2	-	6.1	42.7	53.4	64.1	74.7	85.4
ELA6020135	600	200	135	575	175	Drawing 2	1.2	1.2	2	1	5.6	38.7	48.3	58.0	67.7	77.4
ELA6040135	600	400	135	575	375	Drawing 2	1.2	1.2	2	1	9.4	61.3	76.6	92.0	107.3	122.6
ELA8020135	800	200	135	775	175	Drawing 2	1.2	1.2	2	1	7.0	50.2	62.7	75.3	87.8	100.4

IP66 / NEMA 1, 4, 12.
RAL 7035 rolled steel.
Injected polyurethane sealing gasket.
Boxes supplied without mounting plates.

UL certificate available for heights up to 600 mm.
For special boxes, check availability of UL certificate.



SEE ACCESSORIES ON PAGE 62.



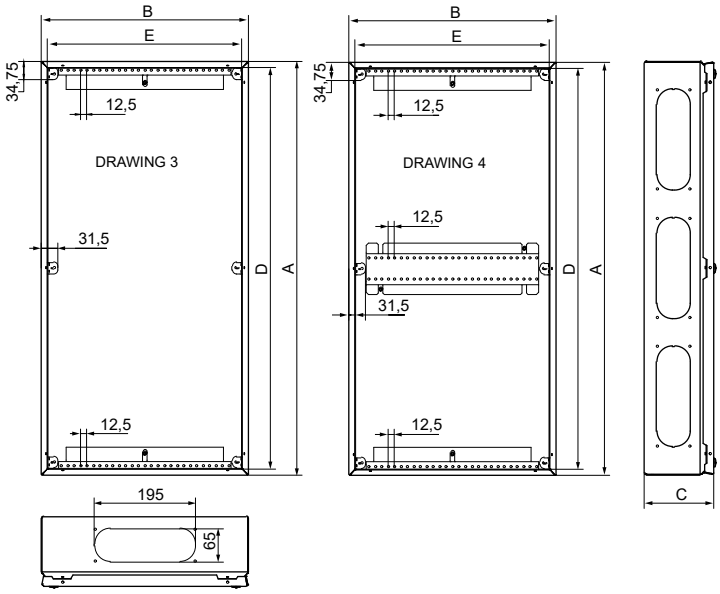
Box with plain sides



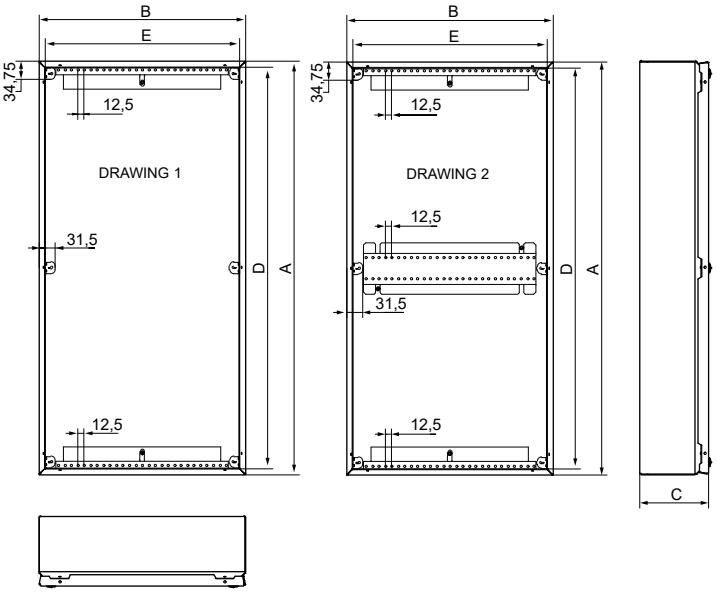
Box with cable entry

Dimensions: Tecno rolled steel

With cable entry



With plain sides



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