



- Polyester GRP enclosure systems of polyester resin for industrial application
- Two level fitting possibility
- Combination of several enclosures by connecting flange

## Technical data

### Material:

glass fibre reinforced duroplastic Polyester

### Colour:

RAL 7000, squirrel grey

special colour on request

### Ingress protection:

IP 66, EN 60529

### Impact resistance:

7 Joule, EN 60079-0

### Flammability:

self-extinguishing, UL 94/V0

### Surface resistance:

$>10^{12}$  Ohm, IEC 60093

### Disruptive strength:

18 KV/mm, IEC 60243-1

### Insulation:

fully insulated to VDE 0100

### Toxicity:

halogen free

### Temperature range:

PU (polyurethane) seal: -40°C to +90°C

CR (chloroprene) seal: -40°C to +100°C

VMQ (silicone) seal (optional): -60°C to +130°C

### Including in delivery:

Enclosure consisting of lid and base with screws, individual system and height adjustment of mounting frame and mounting plate by 4 fixing elements

# Polyester CombiBox

## Product range

| Order No.          | Order No.<br>EMC version | Type       | Dimensions<br>(mm) |
|--------------------|--------------------------|------------|--------------------|
| <b>02.01 22 15</b> | <b>02.02 22 15</b>       | CombiBox 1 | 177 x 177 x 145    |
| <b>02.01 24 15</b> | <b>02.02 24 15</b>       | CombiBox 2 | 360 x 177 x 145    |
| <b>02.01 44 15</b> | <b>02.02 44 15</b>       | CombiBox 3 | 360 x 360 x 145    |

## Accessories

|                    |                                        |
|--------------------|----------------------------------------|
| <b>02.01 99 01</b> | Flange                                 |
| <b>02.01 99 02</b> | Mounting frame 177 x 177 mm CombiBox 1 |
| <b>02.01 99 03</b> | Mounting frame 177 x 360 mm CombiBox 2 |
| <b>02.01 99 04</b> | Mounting frame 360 x 360 mm CombiBox 3 |
| <b>02.01 99 05</b> | Mounting frame fastening set           |
| <b>02.01 99 06</b> | Lid safety strip                       |
| <b>02.01 99 07</b> | Well nut set                           |
| <b>02.01 99 10</b> | Mounting plate CombiBox 1              |
| <b>02.01 99 11</b> | Mounting plate CombiBox 2              |
| <b>02.01 99 12</b> | Mounting plate CombiBox 3              |
| <b>10.06 14 85</b> | DIN rail TS 35/7.5 160 mm              |
| <b>10.06 14 86</b> | DIN rail TS 35/7.5 110 mm              |
| <b>10.06 14 87</b> | DIN rail TS 35/7.5 145 mm              |
| <b>10.06 14 88</b> | DIN rail TS 35/7.5 293 mm              |
| <b>10.06 14 94</b> | Bearer plate CombiBox 110              |
| <b>10.06 14 95</b> | Bearer plate CombiBox 360              |
| <b>10.06 14 96</b> | Bearer plate CombiBox 360 long         |

## Terminal mounting

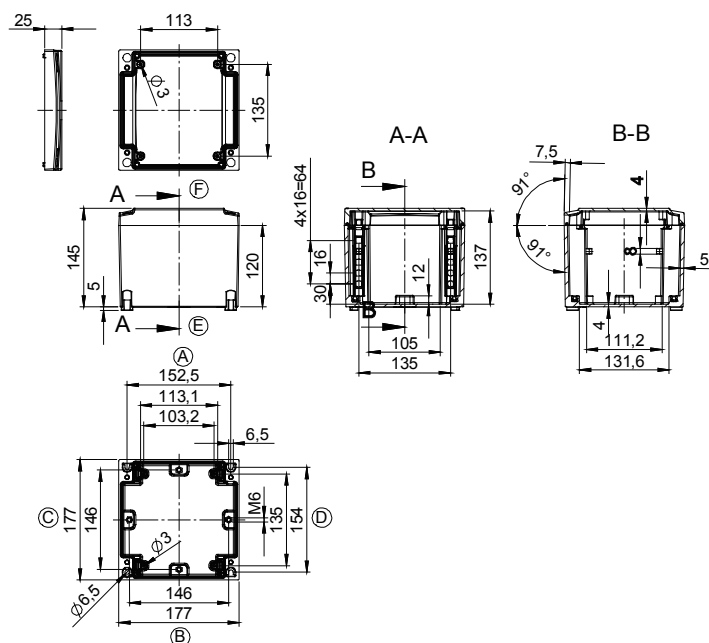
| Make                                  | Phoenix   |             |             |          |          |        |        |        |         |         |       |        |        |         |         | Earthing bar 2.5 mm <sup>2</sup> with cable lug max. 10 mm <sup>2</sup> | Earthing screw M4 with cable lug max. 6 mm <sup>2</sup> | M6 with cable lug max. 35 mm <sup>2</sup> | Earth connections as required |
|---------------------------------------|-----------|-------------|-------------|----------|----------|--------|--------|--------|---------|---------|-------|--------|--------|---------|---------|-------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------|-------------------------------|
| DIN rail TS 15                        | X         | X           | X           |          |          |        |        |        |         |         |       |        |        |         |         |                                                                         |                                                         |                                           |                               |
| DIN rail TS 35                        |           |             |             | X        | X        | X      | X      | X      | X       | X       | X     | X      | X      | X       |         |                                                                         |                                                         |                                           |                               |
| Voltage (V)                           | 250       | 500         | 500         | 500      | 800      | 800    | 800    | 800    | 800     | 800     | 1000  | 1000   | 1000   | 1000    |         |                                                                         |                                                         |                                           |                               |
| Current (A)                           | 24        | 24          | 32          | 17,5     | 24       | 24     | 32     | 41     | 57      | 76      | 125   | 150    | 232    | 309     | 415     |                                                                         |                                                         |                                           |                               |
| Nom. cross section (mm <sup>2</sup> ) | 2,5       | 2,5         | 4           | 1,5      | 2,5      | 2,5    | 4      | 6      | 10      | 16      | 35    | 50     | 95     | 150     | 240     |                                                                         |                                                         |                                           |                               |
| Terminal width (mm)                   | 5,2       | 5,2         | 6,2         | 4,2      | 5,2      | 5,2    | 6,2    | 8,2    | 10,2    | 12,2    | 16    | 20     | 25     | 31      | 36      |                                                                         |                                                         |                                           |                               |
| Terminal type                         |           |             |             |          |          |        |        |        |         |         |       |        |        |         |         |                                                                         |                                                         |                                           |                               |
| Type                                  | MBK 2,5 E | MBK 3 / E-Z | MBK 5 / E-Z | UK 1,5 N | UK 2,5 N | UK 3 N | UK 5 N | UK 6 N | UK 10 N | UK 16 N | UK 35 | UKH 50 | UKH 95 | UKH 150 | UKH 240 |                                                                         |                                                         |                                           |                               |
| <b>02.01 22 15</b>                    | 18        | 18          | 15          | 23       | 18       | 18     | 15     | 11     | 9       | 7       | 6     |        |        |         |         |                                                                         |                                                         |                                           |                               |
| <b>02.01 24 15</b>                    | 53        | 53          | 45          | 66       | 53       | 53     | 45     | 34     | 27      | 22      | 18    |        |        |         |         |                                                                         |                                                         |                                           |                               |
| <b>02.01 44 15</b>                    | 212       | 212         | 135         | 264      | 212      | 212    | 135    | 102    | 81      | 44      | 36    | 28     | 11     | 11      |         |                                                                         |                                                         |                                           |                               |

| Make                                  | Weidmüller    |               |                 |                 |         |         |       |           |         |       |       |        |        |        |          |          |             |                |               |         |
|---------------------------------------|---------------|---------------|-----------------|-----------------|---------|---------|-------|-----------|---------|-------|-------|--------|--------|--------|----------|----------|-------------|----------------|---------------|---------|
| DIN rail TS 15                        |               |               |                 | X               | X       | X       | X     |           |         |       |       |        |        |        |          |          |             |                |               |         |
| DIN rail TS 35                        |               |               |                 |                 |         |         |       | X         | X       | X     | X     | X      | X      | X      | X        | X        | X           | X              | X             | X       |
| Voltage (V)                           | 400           | 400           | 400             | 400             | 250     | 250     | 400   | 500       | 800     | 800   | 800   | 1000   | 1000   | 1000   | 1000     | 1000     | 1000        | 1000           | 1000          | 1000    |
| Current (A)                           | 32            | 32            | 32              | 17,5            | 17,5    | 24      | 32    | 24        | 24      | 32    | 41    | 57     | 76     | 125    | 150      | 192      | 232         | 269            | 309           | 415     |
| Nom. cross section (mm <sup>2</sup> ) | 4             | 4             | 4               | 1,5             | 1,5     | 2,5     | 4     | 2,5       | 2,5     | 4     | 6     | 10     | 16     | 35     | 50       | 70       | 95          | 120            | 150           | 240     |
| Terminal width (mm)                   | 38            | 52            | 92              | 3,5             | 5,1     | 5,1     | 6,1   | 5,1       | 5,1     | 6,1   | 7,9   | 9,9    | 11,9   | 16     | 18,5     | 20,5     | 27          | 27             | 32            | 36      |
| Terminal type                         |               |               |                 |                 |         |         |       |           |         |       |       |        |        |        |          |          |             |                |               |         |
| Type                                  | BK 4 (4-pole) | BK 6 (6-pole) | BK 12 (12-pole) | WDU 1,5 / R 3,5 | AKZ 1,5 | AKZ 2,5 | AKZ 4 | WDU 2,5 N | WDU 2,5 | WDU 4 | WDU 6 | WDU 10 | WDU 16 | WDU 35 | WDU 50 N | WDU 70 N | WDU 70 / 95 | WDU 95 / 120 N | WDU 120 / 150 | WDU 240 |
| <b>02.01 22 15</b>                    | 2             | 1             | 1               | 18              | 23      | 18      | 15    | 18        | 18      | 15    | 11    | 9      | 7      | 6      |          |          |             |                |               |         |
| <b>02.01 24 15</b>                    | 8             | 4             | 2               | 53              | 66      | 53      | 45    | 53        | 53      | 45    | 34    | 27     | 22     | 18     |          |          |             |                |               |         |
| <b>02.01 44 15</b>                    | 16            | 8             | 4               | 212             | 264     | 212     | 135   | 212       | 212     | 135   | 102   | 81     | 44     | 36     | 14       | 13       | 10          | 10             |               |         |

Earthing bar and earth connection see terminal mounting Phoenix

Type: **02.01 22 15**External dimensions: **177 x 177 x 145 mm**Weight: **1700 g**

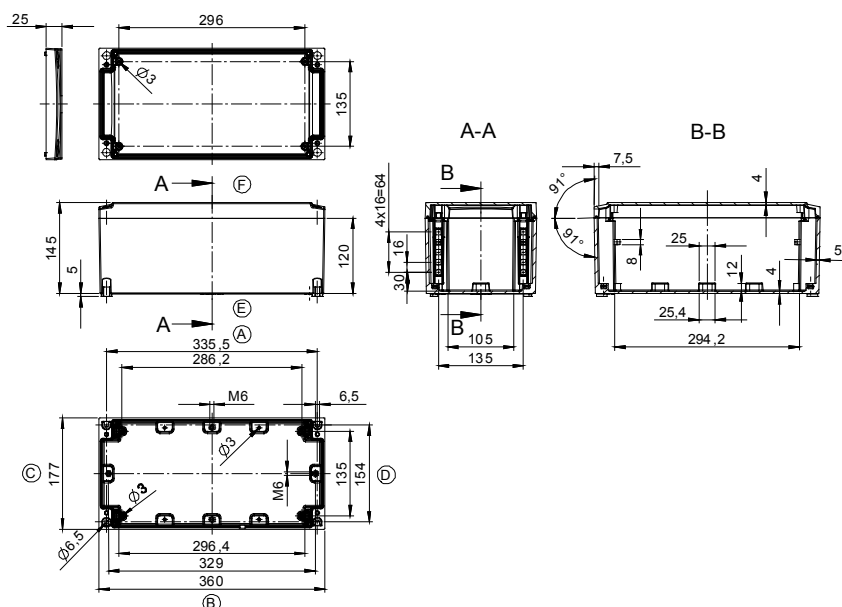
| DIN rail length in mm | max. fitting length in mm | Mounting plate (thickness in mm) | External mounting brackets | Lid safety strip | EMC version | Allen lid screws | Silicone lid seal | Sealable lid screws |
|-----------------------|---------------------------|----------------------------------|----------------------------|------------------|-------------|------------------|-------------------|---------------------|
| TS 35                 |                           |                                  |                            |                  |             |                  |                   |                     |
| 152                   | 115                       | 1,5                              |                            | •                | •           |                  | •                 |                     |



| Maximum number of cable glands to DIN 50262* |             |      |     |      |             |      |     |
|----------------------------------------------|-------------|------|-----|------|-------------|------|-----|
| <div style="text-align: center;"> </div>     |             |      |     |      |             |      |     |
| M                                            | Corner dim. | Side |     | PG   | Corner dim. | Side |     |
|                                              |             | A/B  | C/D |      |             | A/B  | C/D |
| 12                                           | 17,25       | 36   | 36  | 7    | 17,25       | 36   | 36  |
| 16                                           | 25,30       | 16   | 16  | 9    | 21,85       | 20   | 20  |
| 20                                           | 27,60       | 12   | 12  | 11   | 25,30       | 16   | 16  |
| 25                                           | 37,95       | 6    | 6   | 13,5 | 27,60       | 12   | 12  |
| 32                                           | 48,30       | 4    | 4   | 16   | 31,05       | 10   | 10  |
| 40                                           | 60,95       | 2    | 2   | 21   | 37,95       | 6    | 6   |
| 50                                           | 69,00       | 1    | 1   | 29   | 48,30       | 4    | 4   |
| 63                                           | 74,75       | 1    | 1   | 36   | 60,95       | 2    | 2   |
|                                              |             |      |     | 42   | 69,00       | 1    | 1   |
|                                              |             |      |     | 48   | 74,75       | 1    | 1   |

Type: **02.01 24 15**External dimensions: **360 x 177 x 145 mm**Weight: **2681 g**

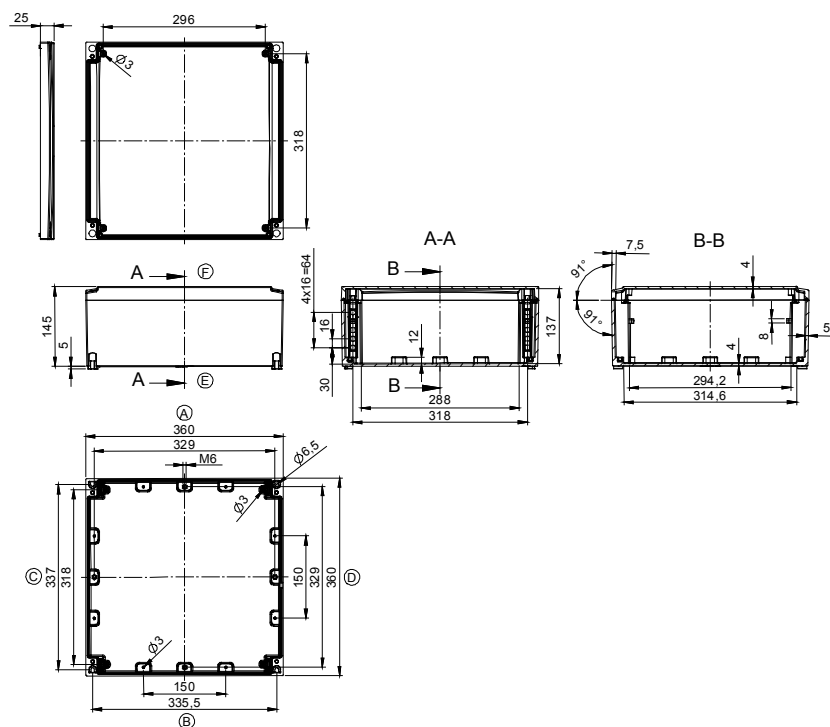
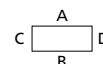
| DIN rail length in mm | max. fitting length in mm | Mounting plate (thickness in mm) | External mounting brackets | Lid safety strip | EMC version | Allen lid screws | Silicone lid seal | Sealable lid screws |
|-----------------------|---------------------------|----------------------------------|----------------------------|------------------|-------------|------------------|-------------------|---------------------|
| TS 35                 |                           |                                  |                            |                  |             |                  |                   |                     |
| 333                   | 285                       | 1,5                              |                            | •                | •           |                  | •                 |                     |



| Maximum number of cable glands to DIN 50262* |             |      |     |      |             |      |     |
|----------------------------------------------|-------------|------|-----|------|-------------|------|-----|
| <div style="text-align: center;"> </div>     |             |      |     |      |             |      |     |
| M                                            | Corner dim. | Side |     | PG   | Corner dim. | Side |     |
|                                              |             | A/B  | C/D |      |             | A/B  | C/D |
| 12                                           | 17,25       | 109  | 36  | 7    | 17,25       | 109  | 36  |
| 16                                           | 25,30       | 50   | 16  | 9    | 21,85       | 65   | 20  |
| 20                                           | 27,60       | 40   | 12  | 11   | 25,30       | 48   | 16  |
| 25                                           | 37,95       | 21   | 6   | 13,5 | 27,60       | 40   | 12  |
| 32                                           | 48,30       | 12   | 4   | 16   | 31,05       | 32   | 10  |
| 40                                           | 60,95       | 9    | 2   | 21   | 37,95       | 21   | 6   |
| 50                                           | 69,00       | 5    | 1   | 29   | 48,30       | 12   | 4   |
| 63                                           | 74,75       | 4    | 1   | 36   | 60,95       | 7    | 2   |
|                                              |             |      |     | 42   | 69,00       | 5    | 1   |
|                                              |             |      |     | 48   | 74,75       | 4    | 1   |

Type: **02.01 44 15**External dimensions: **360 x 360 x 145 mm**Weight: **4025 g**

| DIN rail length in mm | max fitting length in mm | Mounting plate (thickness in mm) | External mounting brackets | Lid safety strip | EMC version | Allen lid screws | Silicone lid seal | Sealable lid screws |
|-----------------------|--------------------------|----------------------------------|----------------------------|------------------|-------------|------------------|-------------------|---------------------|
| TS 35                 |                          |                                  |                            |                  |             |                  |                   |                     |
| 333                   | 285                      | 1,5                              |                            | •                | •           |                  | •                 |                     |

Maximum number of cable glands to **DIN 50262\***

| M  | Corner dim. | Side |     | PG   | Corner dim. | Side |     |
|----|-------------|------|-----|------|-------------|------|-----|
|    |             | A/B  | C/D |      |             | A/B  | C/D |
| 12 | 17,25       | 109  | 109 | 7    | 17,25       | 109  | 109 |
| 16 | 25,30       | 50   | 50  | 9    | 21,85       | 65   | 65  |
| 20 | 27,60       | 40   | 40  | 11   | 25,30       | 48   | 48  |
| 25 | 37,95       | 21   | 21  | 13,5 | 27,60       | 40   | 40  |
| 32 | 48,30       | 12   | 12  | 16   | 31,05       | 32   | 32  |
| 40 | 60,95       | 9    | 9   | 21   | 37,95       | 21   | 21  |
| 50 | 69,00       | 5    | 5   | 29   | 48,30       | 12   | 12  |
| 63 | 74,75       | 4    | 4   | 36   | 60,95       | 7    | 7   |
|    |             |      |     | 42   | 69,00       | 5    | 5   |
|    |             |      |     | 48   | 74,75       | 4    | 4   |