

## Terminal Boxes Series 8125

- Explosion protection to
  - CENELEC
  - IEC
  - NEC
- Can be used in Zone 1 and Zone 2
- Fitting with terminals up to max. 240 mm<sup>2</sup>
- Painted sheet steel or stainless steel enclosures
- 6 basic enclosure sizes with various heights
- Degree of protection IP 66

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Series 8125 terminal boxes are supplied with Phoenix Thermoplast terminals as standard. Terminals from other manufacturers can be fitted.

The terminal boxes are fitted to order with terminals and cable entries.

# Zone 1 and Zone 2



### Selection table

for terminal boxes up to max. 35 mm<sup>2</sup>

| Size [mm <sup>2</sup> ] | Max. number of line-up terminals which can be fitted |        |         |         |         |          |        |        |        |       |        |       |         |        | Ordering code | Weight |          |        |               |      |
|-------------------------|--|--------|---------|---------|---------|----------|--------|--------|--------|-------|--------|-------|---------|--------|---------------|--------|----------|--------|---------------|------|
|                         | 1,5  | 2,5    | 4       | 6       | 10      | 16       | 35     |        |        |       |        |       |         |        |               |        |          |        |               |      |
| Arrangements            | 280-991  | UK 3 N | 264-120 | 281-991 | WDU 2,5 | MXK 4 Ex | AK 4/1 | UXKK 4 | UK 5 N | WDU 4 | UK 6 N | WDU 6 | UK 10 N | WDU 10 | UK 16 N       | WDU 16 | UK 35-Ex | WDU 35 |               | [kg] |
|                         | -  | 18     | 16      | -       | -       | 16       | 16     | -      | 14     | -     | -      | -     | -       | -      | -             | -      | -        | -      | 8125/□041 - □ | 1,0  |
|                         | 18   | 21     | 18      | 18      | 21      | 18       | 18     | 18     | 18     | 18    | 13     | 13    | 11      | 11     | 8             | 8      | -        | -      | 8125/□051 - □ | 1,5  |
|                         | -  | -      | 30      | -       | -       | 30       | 30     | -      | -      | -     | -      | -     | -       | -      | -             | -      | -        | -      | 8125/□051 - □ | 1,6  |
|                         | 23   | 27     | 23      | 23      | 27      | 23       | 23     | 23     | 23     | 23    | 17     | 17    | 14      | 13     | 12            | 11     | -        | -      | 8125/□061 - □ | 2,1  |
|                         | -  | -      | 46      | -       | -       | 46       | 46     | -      | -      | -     | -      | -     | -       | -      | -             | -      | -        | -      | 8125/□061 - □ | 2,3  |
|                         | -  | -      | 46      | -       | -       | 46       | 46     | -      | -      | -     | -      | -     | -       | -      | -             | -      | -        | -      | 8125/□063 - □ | 3,0  |
|                         | 37   | 44     | -       | 37      | 41      | -        | -      | 35     | 37     | 35    | 26     | 26    | 22      | 20     | 17            | 17     | -        | -      | 8125/□071 - □ | 3,1  |
|                         | -  | -      | 72      | -       | -       | 72       | 74     | -      | -      | -     | -      | -     | -       | -      | -             | -      | -        | -      | 8125/□071 - □ | 3,3  |
|                         | 37   | 44     | 37      | 37      | 44      | 37       | 37     | 35     | 37     | 35    | 26     | 26    | 22      | 20     | 17            | 17     | -        | -      | 8125/□073 - □ | 4,0  |
|                         | 16   | 21     | -       | 16      | 21      | -        | -      | 16     | 16     | 17    | 13     | 13    | 10      | 10     | 8             | 8      | 7        | 5      | 8125/□071 - □ | 3,1  |

### Add. to ordering code:

Version:

EEx e

EEx i

1

2

Material:

Sheet steel

Stainless steel

1

2

### Note:

The ordering codes contain the enclosure with carrier rails and PE or PA rail.

### State with order:

**Terminal strips:** number and type

**Cable glands:** number, type and side for fitting in enclosure

**Flanges:** Flanges can be fitted to order; please indicate the side on which they are to be fitted.

Terminal boxes fitted with terminals > 35 mm<sup>2</sup> bis 240 mm<sup>2</sup> on request

## Terminal Boxes in Sheet Steel or Stainless Steel Series 8125

| Selection table         |              | for terminal boxes with terminals up to max. 35 mm <sup>2</sup> |        |         |         |         |          |        |        |        |       |        |       |         |      | Ordering code | Weight  |        |          |               |      |
|-------------------------|--------------|---|--------|---------|---------|---------|----------|--------|--------|--------|-------|--------|-------|---------|------|---------------|---------|--------|----------|---------------|------|
| Size [mm <sup>2</sup> ] | Arrangements | Max. number of line-up terminals which can be fitted            |        |         |         |         |          |        |        |        |       |        |       |         |      |               |         |        |          |               |      |
|                         |              | 1,5   | 2,5    |         | 4       |         | 6        |        | 10     |        | 16    |        | 35    |         | [kg] |               |         |        |          |               |      |
|                         |              | 280-991   | UK 3 N | 264-120 | 281-991 | WDU 2,5 | MXK 4 Ex | AK 4/1 | UXKK 4 | UK 5 N | WDU 4 | UK 6 N | WDU 6 | UK 10 N |      | WDU 10        | UK 16 N | WDU 16 | UK 35-Ex | WDU 35        |      |
|                         |              | 42  | 50     | -       | 42      | 50      | -        | -      | 42     | 42     | 42    | 31     | 31    | 25      | 25   | 21            | 21      | 17     | 16       | 8125/□081 - □ | 5,5  |
|                         |              | 80  | 94     | 80      | 80      | 94      | 80       | 80     | 80     | 80     | 80    | 58     | 60    | 48      | 48   | 39            | -       | -      | -        | 8125/□081 - □ | 5,7  |
|                         |              | 120   | 141    | 120     | 120     | 141     | 120      | 120    | -      | 120    | -     | -      | -     | -       | -    | -             | -       | -      | -        | 8125/□081 - □ | 6,0  |
|                         |              | 42  | 50     | 42      | 42      | 50      | 42       | 42     | 42     | 42     | 42    | 31     | 31    | 25      | 25   | 21            | 21      | 17     | 16       | 8125/□083 - □ | 6,5  |
|                         |              | 80  | 94     | 80      | 80      | 94      | 80       | 80     | 80     | 80     | 80    | 58     | 60    | 48      | 48   | 39            | -       | -      | -        | 8125/□083 - □ | 6,7  |
|                         |              | 120   | 141    | 120     | 120     | 141     | 120      | 120    | -      | 120    | -     | -      | -     | -       | -    | -             | -       | -      | -        | 8125/□083 - □ | 7,0  |
|                         |              | 84  | 100    | -       | 84      | 100     | 84       | 84     | 84     | 84     | 84    | 62     | 62    | 50      | 50   | 42            | 41      | 34     | 32       | 8125/□093 - □ | 10,0 |
|                         |              | 160   | 188    | 160     | 160     | 188     | 160      | 160    | 160    | 160    | 160   | 116    | 120   | 96      | 96   | 80            | -       | -      | -        | 8125/□093 - □ | 10,5 |
|                         |              | 240   | 282    | 240     | 240     | 282     | 240      | 240    | -      | 240    | -     | -      | -     | -       | -    | -             | -       | -      | -        | 8125/□093 - □ | 11,0 |

**Add. to ordering code:**

|                  |                                |        |  |        |
|------------------|--------------------------------|--------|--|--------|
| <b>Version:</b>  | EEx e<br>EEx i                 | 1<br>2 |  |        |
| <b>Material:</b> | Sheet steel<br>Stainless steel |        |  | 1<br>2 |

**Note:** The ordering codes contain the enclosure with carrier rails and PE or PA rail.

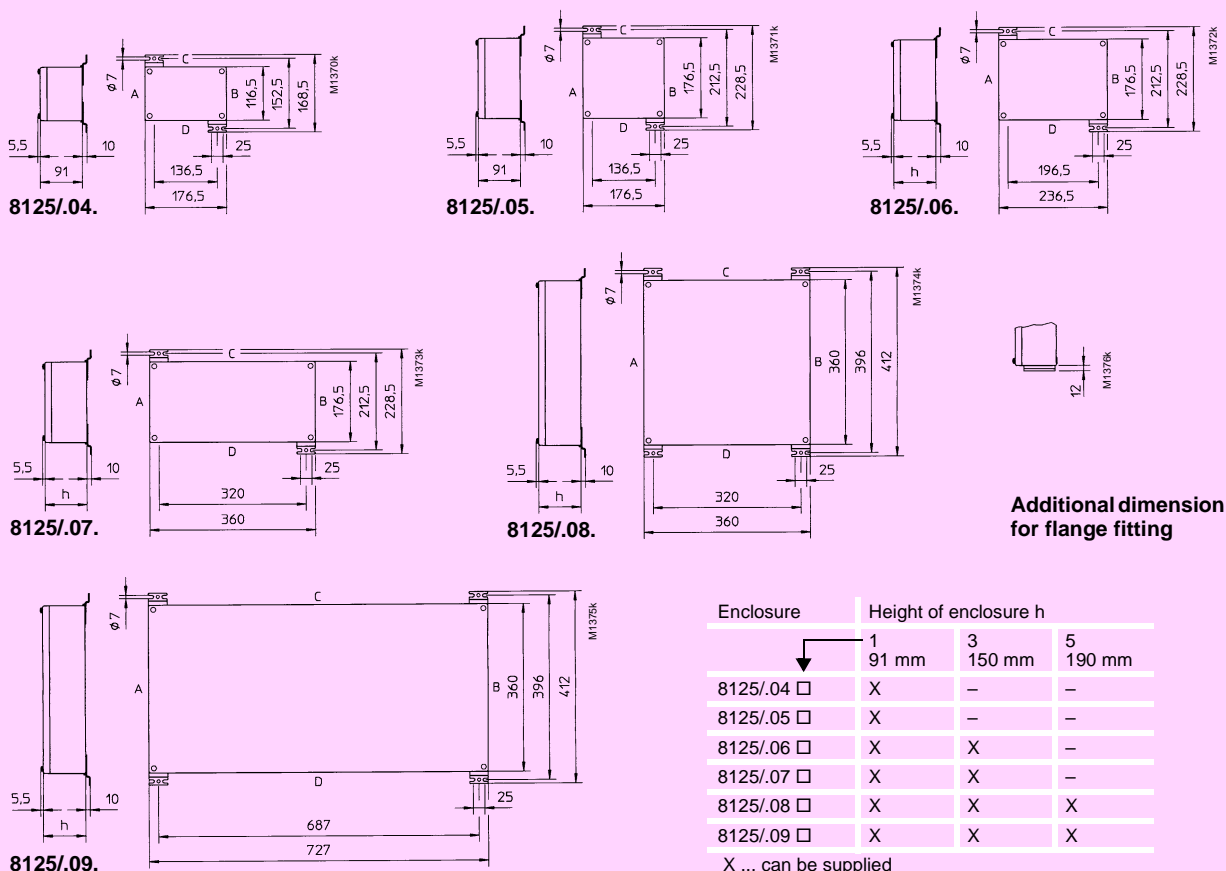
**State with order:** **Terminal strips:** number and type  
**Cable glands:** number, type and side for fitting in enclosure  
**Flanges:** Flanges can be fitted to order; please indicate the side on which they are to be fitted.

Terminal box fitted with terminals > 35 mm<sup>2</sup> bis 240 mm<sup>2</sup> on request.



| Technical data                      |  |
|-------------------------------------|--|
| Explosion protection                | EEx e II T6/T5   |
| Test certificate                    | PTB Nr. Ex-96.D.3147<br>Other certificates: VDE (Germany), BKI (Hungary), CSA (Canada), FTZU (Czech Republic), SEV (Switzerland), UL (USA)   |
| Material Enclosure                  | Depending on the version<br>sheet steel, galvanised, painted light grey, RAL 7032 or<br>stainless steel 1.4571, elektro-polished, without paint (painting possible to order)   |
| Gasket                              | EPDM, foam   |
| Flange<br>Standard<br>Special       | In the standard version enclosures are supplied without flange.<br>If ordered, enclosures may have flanges fitted on one or more sides, flange material galvanised or stainless steel  |
| Cover fixing<br>Standard<br>Special | M 6, cheese-head screws with combined slot; captive; stainless steel<br>lid hinged   |
| Rated voltage                       | max. 1100 V, AC/DC (depending on terminals fitted)   |
| Degree of protection                | IP 66  |
| Ambient temperature                 | – 20° C ... + 40° C (T6) with glands 8161<br>– 20° C ... + 55° C (T5) with glands 8161<br>– 40° C ... + 40° C (T6) with metal glands (depending on gasket)<br>– 40° C ... + 55° C (T5) with metal glands (depending on gasket) |
| Line-up terminals                   | Max. nominal cross-section 240 mm <sup>2</sup>   |

### Dimensions, all dimensions in mm – subject to alteration



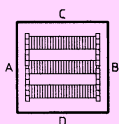
| Enclosure  | Height of enclosure h |             |             |
|------------|-----------------------|-------------|-------------|
|            | 1<br>91 mm            | 3<br>150 mm | 5<br>190 mm |
| 8125/.04 □ | X                     | –           | –           |
| 8125/.05 □ | X                     | –           | –           |
| 8125/.06 □ | X                     | X           | –           |
| 8125/.07 □ | X                     | X           | –           |
| 8125/.08 □ | X                     | X           | X           |
| 8125/.09 □ | X                     | X           | X           |

X ... can be supplied



### Cable entries

Table for max. number of entries possible with cable glands 8161



#### Caution:


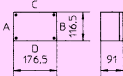
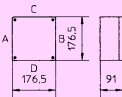
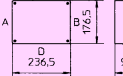
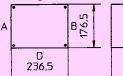

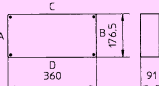
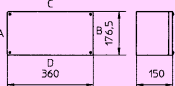
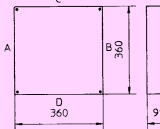
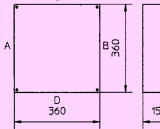

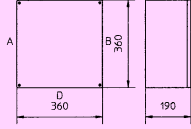
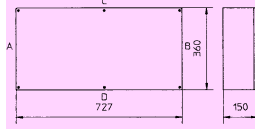
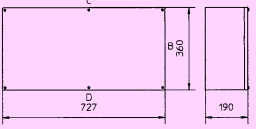
The maximum possible number of cable entries which can be fitted in the sides of the enclosures depends on the number of support rails fitted in the enclosure:

with support rails fitted from side A to side B:

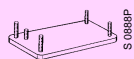
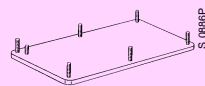
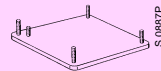
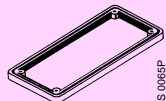
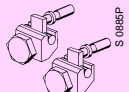
sides A and B cannot be fitted with cable entries, or only to a limited extent;

with support rails from side C to D:

sides C and D cannot be fitted with cable entries, or only to a limited extent.

| Gland   | Enclosure size  |                 |              |              |   |                 |              |              |  |                 |              |              |   |                 |              |              |
|---|---|-----------------|--------------|--------------|---|-----------------|--------------|--------------|--|-----------------|--------------|--------------|---|-----------------|--------------|--------------|
|   | 8125/.041   |                 |              |              | 8125/.051   |                 |              |              | 8125/.061  |                 |              |              | 8125/.063   |                 |              |              |
|    |    |                 |              |              |    |                 |              |              |    |                 |              |              |    |                 |              |              |
|   | Size  | without flanges |              | with flanges |   | without flanges |              | with flanges |  | without flanges |              | with flanges |   | without flanges |              | with flanges |
|   | A/B   | C/D             | A/B          | C/D          | A/B   | C/D             | A/B          | C/D          | A/B  | C/D             | A/B          | C/D          | A/B   | C/D             | A/B          | C/D          |
| M 16  | 9   | 15              | –            | 4            | 15  | 15              | 4            | 4            | 15   | 21              | 4            | 4            | 27  | 36              | 12           | 12           |
| M 20  | 4   | 7               | –            | 3            | 7   | 7               | 3            | 3            | 7  | 10              | 3            | 3            | 16  | 23              | 7            | 7            |
| M 25  | 3   | 6               | –            | 3            | 6   | 6               | 3            | 3            | 6  | 9               | 3            | 3            | 12  | 18              | 6            | 6            |
| M 32  | 2   | 4               | –            | 2            | 4   | 4               | 2            | 2            | 4  | 5               | 2            | 2            | 10  | 14              | 3            | 3            |
| M 40  | 1   | 2               | –            | –            | 2   | 2               | –            | –            | 2  | 3               | –            | –            | 4   | 6               | 2            | 2            |
| M 50  | 1   | 2               | –            | –            | 2   | 2               | –            | –            | 2  | 2               | –            | –            | 3   | 3               | 1            | 1            |
| M 63  | –   | –               | –            | –            | –   | –               | –            | –            | –  | –               | –            | –            | 2   | 2               | 1            | 1            |
|  | 8125/.071   |                 |              |              | 8125/.073   |                 |              |              | 8125/.081  |                 |              |              | 8125/.083   |                 |              |              |
|   |  |                 |              |              |  |                 |              |              |  |                 |              |              |  |                 |              |              |
| Size  | without flanges   |                 | with flanges |              | without flanges   |                 | with flanges |              | without flanges  |                 | with flanges |              | without flanges   |                 | with flanges |              |
|   | A/B   | C/D             | A/B          | C/D          | A/B   | C/D             | A/B          | C/D          | A/B  | C/D             | A/B          | C/D          | A/B   | C/D             | A/B          | C/D          |
| M 16  | 15  | 34              | 4            | 8            | 26  | 57              | 12           | 33           | 34   | 34              | 8            | 8            | 57  | 57              | 33           | 33           |
| M 20  | 7   | 18              | 3            | 6            | 16  | 37              | 7            | 18           | 18   | 18              | 6            | 6            | 37  | 37              | 18           | 18           |
| M 25  | 6   | 14              | 3            | 6            | 12  | 29              | 6            | 14           | 14   | 14              | 6            | 6            | 29  | 29              | 14           | 14           |
| M 32  | 4   | 7               | 2            | 4            | 10  | 23              | 3            | 9            | 7  | 7               | 4            | 4            | 22  | 23              | 9            | 9            |
| M 40  | 2   | 5               | –            | –            | 4   | 10              | 2            | 4            | 5  | 5               | –            | –            | 10  | 10              | 4            | 4            |
| M 50  | 2   | 4               | –            | –            | 3   | 5               | 1            | 3            | 4  | 4               | –            | –            | 5   | 5               | 3            | 3            |
| M 63  | –   | –               | –            | –            | 2   | 3               | 1            | 2            | –  | –               | –            | –            | 4   | 3               | 2            | 2            |
|  | 8125/.085   |                 |              |              | 8125/.093   |                 |              |              | 8125/.095  |                 |              |              |   |                 |              |              |
|   |  |                 |              |              |  |                 |              |              |  |                 |              |              |   |                 |              |              |
| Size  | without flanges   |                 | with flanges |              | without flanges   |                 | with flanges |              | without flanges  |                 | with flanges |              | without flanges   |                 | with flanges |              |
|   | A/B   | C/D             | A/B          | C/D          | A/B   | C/D             | A/B          | C/D          | A/B  | C/D             | A/B          | C/D          | A/B   | C/D             | A/B          | C/D          |
| M 16  | 80  | 80              | 33           | 33           | 57  | 121             | 33           | 66           | 170  | 170             | 33           | 66           |   |                 |              |              |
| M 20  | 47  | 47              | 18           | 18           | 37  | 78              | 18           | 36           | 97   | 97              | 18           | 36           |   |                 |              |              |
| M 25  | 37  | 37              | 14           | 14           | 29  | 63              | 14           | 28           | 82   | 82              | 14           | 28           |   |                 |              |              |
| M 32  | 30  | 31              | 9            | 9            | 22  | 47              | 9            | 18           | 63   | 63              | 9            | 18           |   |                 |              |              |
| M 40  | 14  | 15              | 4            | 4            | 10  | 20              | 4            | 8            | 31   | 31              | 4            | 8            |   |                 |              |              |
| M 50  | 9   | 9               | 3            | 3            | 5   | 10              | 3            | 6            | 20   | 20              | 3            | 6            |   |                 |              |              |
| M 63  | 5   | 5               | 2            | 2            | 3   | 8               | 2            | 4            | 12   | 12              | 2            | 4            |   |                 |              |              |

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| Accessories and spare parts |   |   |   |   |                       |             |
|-----------------------------|---|---|---|---|-----------------------|-------------|
| Designation                 | Illustration  | Description                                 |   |   | Ordering code         | Weight [kg] |
| Flange                      | <br>S 0888P  | Size 1                                      | Version   | Sheet steel   | <b>81 250 01 49 0</b> | 0,35        |
|                             |   |   | can be fitted to enclosure                                    | Stainless steel                                     | <b>81 259 02 49 0</b> | 0,35        |
|                             |   |   | 8125/_051<br>8125/_061<br>8125/_071<br>8125/_S71<br>8125/_081 | Side<br>C/D<br>A/B/C/D<br>A/B/C/D<br>C/D<br>A/B/C/D |                       |             |
|                             | <br>S 0886P  | Size 2                                      | Version   | Sheet steel   | <b>81 250 02 49 0</b> | 0,70        |
|                             |   |   | 8125/_063<br>8125/_073<br>8125/_083;/_085<br>8125/_093;/_095  | Stainless steel                                     | <b>81 259 04 49 0</b> | 0,70        |
|                             |   |   |   | C/D<br>C/D<br>A/B/C/D<br>A/B/C/D                    |                       |             |
|                             |   |   |   |   |                       |             |
|                             | <br>S 0887P  | Size 3                                      | Version   | Sheet steel   | <b>81 250 03 49 0</b> | 1,40        |
|                             |   |   | can be fitted to enclosure                                    | Stainless steel                                     | <b>81 259 06 49 0</b> | 1,40        |
|                             |   | 8125/_073                                   | Side<br>A/B   |   |                       |             |
| Spacers                     | <br>S 0085P  | Size  | 0 (68 mm x 68 mm)   |   | <b>81 460 03 10 0</b> | 0,02        |
|                             |   |   | 1 (128 mm x 68 mm)  |   | <b>81 460 01 10 0</b> | 0,03        |
|                             |   |   | 2 (266 mm x 126 mm)   |   | <b>81 460 04 10 0</b> | 0,04        |
|                             |   |   | 3 (126 mm x 126 mm)   |   | <b>81 460 11 10 0</b> | 0,03        |
|                             |   |   |   |   |                       |             |
| Lid hinges                  | <br>S 0086P | Kit for subsequent mounting, consisting of: |   |   |                       |             |
|                             |   |   | 2 hinges  | <b>81 258 02 29 0</b>                               | 0,04                  |             |
|                             |   |   | 3 hinges  | <b>81 258 03 29 0</b>                               | 0,05                  |             |