

# JUNCTION BOX

## Supreme SERIES

### SPM 4



Zone 1,2,21,22

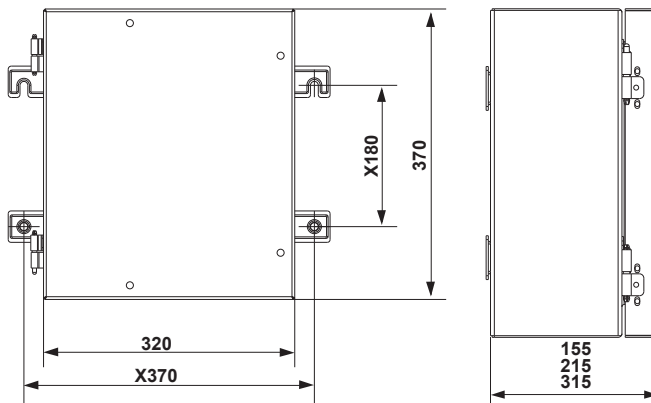


### SPECIFICATION

|                     |   |
|---------------------|---|
| Type                | SPM 4   |
| Application         | Terminal box or marshaling box  |
| Protection          | Ex e IIC GB-Ex t IIIC Db  |
| Marking (ATEX)      | ⊕ II 2 GD   |
| Certificat No.      | TÜV 13 ATEX 7439X - IECEx TUR 13.0012X  |
| Standards           | IEC 60079-0, IEC 60079-7, IEC 60079-11, IEC 60079-31  |
| Material            | A) Stainless steel<br>B) Painted mild steel   |
| Finish              | Stainless steel may be coated or painted to suit customer application<br>Mild steel may be coated or painted to suit customer application |
| Ingress protection  | IP 66 to IEC 60529  |
| Temperature class   | T6 / T5 / T4  |
| Ambient temperature | -30°C to 55°C / -20°C to 40°C   |
| lid fixing          | Hinged by 4 x M12 stainless steel screws  |
| Earthing            | M10 Internal / External stainless steel stud  |
| Enclosure mounting  | 4 slotted fixing brackets for M10 screws  |
| Drain plug          | M20 breather/drain plug as an option  |
| Entries             | Through gland plates or through walls   |

### SIDE CABLE ENTRY SELECTION

| THREAD SIZE        | M20(O) | M20(A)  | M25(B)  | M32(C)  | M40(C2) | M50(D)  | M63(E)  | M75(F) | M90   | M100  | M110  |       |       |
|--------------------|--------|---------|---------|---------|---------|---------|---------|--------|-------|-------|-------|-------|-------|
| ACROSS FLATS       | 25     | 30      | 36      | 46      | 55      | 65      | 80      | 95     | -     | -     | -     |       |       |
| ACROSS CORNERS     | 27.7   | 34.6    | 41.6    | 53.1    | 63.5    | 75.1    | 92.4    | 109.7  | -     | -     | -     |       |       |
| Height             | L<br>R |         |         |         |         |         |         |        |       |       |       |       |       |
| MAX.NO. OF ENTRIES | 140    | 20 (33) | 8 (18)  | 6 (14)  | 5 (6)   | - (5)   | - (4)   | - (3)  | - -   | - -   | - -   |       |       |
|                    |        | T<br>B  | 15 (27) | 7 (16)  | 5 (12)  | 4 (5)   | - (4)   | - (3)  | - (3) | - -   | - -   | - -   |       |
| Height             | 200    | L<br>R  | 39 (55) | 24 (36) | 13 (21) | 10 (12) | 7 (10)  | 4 (8)  | 3 (3) | 2 (3) | - (2) | - (1) | - -   |
|                    |        | T<br>B  | 31 (45) | 21 (28) | 10 (18) | 8 (10)  | 4 (8)   | 3 (6)  | 2 (3) | 2 (2) | - (1) | - (1) | - -   |
| Height             | 300    | L<br>R  | 70 (88) | 48 (54) | 29 (35) | 19 (24) | 12 (15) | 8 (12) | 6 (6) | 4 (6) | 2 (2) | 2 (2) | 1 (1) |
|                    |        | T<br>B  | 56 (72) | 42 (42) | 25 (30) | 15 (20) | 11 (12) | 6 (9)  | 4 (6) | 3 (4) | 2 (1) | 1 (1) | 1 (1) |



\* Values in brackets are valid when no gland plate is installed

\*\* The number of entries indicated above is for reference only, and may vary depend on application requirement e.g.: type of cable entries, number of terminals, ...

\*\*\*Dimensions in mm

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| SPM 4 TERMINAL CAPACITY DATA |                                   |     |                     |       |                 |            |
|------------------------------|-----------------------------------|-----|---------------------|-------|-----------------|------------|
| TERMINAL TYPE                | CONDUCTOR SIZE<br>mm <sup>2</sup> |     | MAX NO OF TERMINALS |       | MAX NO OF RAILS |            |
|                              | MIN                               | MAX | PER RAIL            | TOTAL |                 |            |
| WDU 1.5/ZZ*                  | 0.13                              | 2.5 | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WDU 2.5 / 1.5/ ZR            | 0.13                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WDU 2.5                      | 0.13                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WDU 2.5N                     | 0.13                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WDU 4                        | 0.13                              | 6   | 29                  | 58    | 2               | HORIZONTAL |
|                              |                                   |     | 37                  | 74    | 2               | VERTICAL   |
| WDU 6                        | 0.5                               | 10  | 23                  | 46    | 2               | HORIZONTAL |
|                              |                                   |     | 28                  | 56    | 2               | VERTICAL   |
| WDU 10                       | 1.31                              | 16  | 18                  | 36    | 2               | HORIZONTAL |
|                              |                                   |     | 23                  | 46    | 2               | VERTICAL   |
| WDU 16                       | 1.5                               | 25  | 15                  | 30    | 2               | HORIZONTAL |
|                              |                                   |     | 19                  | 38    | 2               | VERTICAL   |
| WDU 35                       | 2.5                               | 50  | 11                  | 22    | 2               | HORIZONTAL |
|                              |                                   |     | 14                  | 28    | 2               | VERTICAL   |
| WDU 50N                      | 5.26                              | 70  | 9                   | 18    | 2               | HORIZONTAL |
|                              |                                   |     | 12                  | 24    | 2               | VERTICAL   |
| WDU 70/95                    | 16                                | 120 | 6                   | 6     | 1               | HORIZONTAL |
|                              |                                   |     | 8                   | 8     | 1               | VERTICAL   |
| WDU 120/150                  | 35                                | 150 | 5                   | 5     | 1               | HORIZONTAL |
|                              |                                   |     | 7                   | 7     | 1               | VERTICAL   |
| WDU 240                      | 70                                | 240 | 5                   | 5     | 1               | HORIZONTAL |
|                              |                                   |     | 6                   | 6     | 1               | VERTICAL   |
| WDK2.5*                      | 0.05                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WDK ZQV                      | 0.05                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WDK 2.5 V                    | 0.05                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WDK 2.5 DU-PE                | 0.05                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WDK 2.5 / 800V               | 0.05                              | 4   | 29                  | 58    | 2               | HORIZONTAL |
|                              |                                   |     | 37                  | 74    | 2               | VERTICAL   |
| WDK 2.5N                     | 0.05                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WDK 2.5N V                   | 0.05                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WDK 2.5N DU-PE               | 0.05                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WDK 4N                       | 0.13                              | 6   | 29                  | 58    | 2               | HORIZONTAL |
|                              |                                   |     | 37                  | 74    | 2               | VERTICAL   |
| WDK 4N V                     | 0.13                              | 6   | 29                  | 58    | 2               | HORIZONTAL |
|                              |                                   |     | 37                  | 74    | 2               | VERTICAL   |
| WDK 4N DU-PE                 | 0.13                              | 6   | 29                  | 58    | 2               | HORIZONTAL |
|                              |                                   |     | 37                  | 74    | 2               | VERTICAL   |
| WDK 2.5 PE                   | 0.05                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WDK 2.5N PE                  | 0.05                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WPE 1.5/ZZ                   | 0.13                              | 2.5 | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WPE 2.5/1.5/ZR               | 0.05                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WPE 2.5                      | 0.05                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WPE 2.5N                     | 0.05                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|                              |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| WPE 4                        | 0.13                              | 6   | 29                  | 58    | 2               | HORIZONTAL |
|                              |                                   |     | 37                  | 74    | 2               | VERTICAL   |

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SPM 4



Zone 1,2,21,22



## SPM 4 TERMINAL CAPACITY DATA (Continued)

| TERMINAL TYPE | CONDUCTOR SIZE<br>mm <sup>2</sup> |     | MAX NO OF TERMINALS |       | MAX NO OF RAILS |            |
|---------------|-----------------------------------|-----|---------------------|-------|-----------------|------------|
|               | MIN                               | MAX | PER RAIL            | TOTAL |                 |            |
| WPE 6         | 0.33                              | 10  | 23                  | 46    | 2               | HORIZONTAL |
|               |                                   |     | 28                  | 56    | 2               | VERTICAL   |
| WPE 10        | 1.31                              | 16  | 18                  | 36    | 2               | HORIZONTAL |
|               |                                   |     | 23                  | 46    | 2               | VERTICAL   |
| WPE 16        | 1.5                               | 25  | 15                  | 30    | 2               | HORIZONTAL |
|               |                                   |     | 19                  | 38    | 2               | VERTICAL   |
| WPE 35        | 2.5                               | 50  | 11                  | 22    | 2               | HORIZONTAL |
|               |                                   |     | 14                  | 28    | 2               | VERTICAL   |
| WPE 50N       | 10                                | 70  | 9                   | 18    | 2               | HORIZONTAL |
|               |                                   |     | 12                  | 24    | 2               | VERTICAL   |
| WPE 70N/35    | 10                                | 95  | 8                   | 8     | 1               | HORIZONTAL |
|               |                                   |     | 11                  | 11    | 1               | VERTICAL   |
| WPE 95N/120N  | 16                                | 150 | 6                   | 6     | 1               | HORIZONTAL |
|               |                                   |     | 8                   | 8     | 1               | VERTICAL   |
| WPE 70/95     | 13.3                              | 120 | 6                   | 6     | 1               | HORIZONTAL |
|               |                                   |     | 8                   | 8     | 1               | VERTICAL   |
| WPE 120/150   | 33.62                             | 150 | 5                   | 10    | 2               | HORIZONTAL |
|               |                                   |     | 7                   | 14    | 2               | VERTICAL   |
| WFF35*        | 2.5                               | 50  | 6                   | 12    | 2               | HORIZONTAL |
|               |                                   |     | 8                   | 16    | 2               | VERTICAL   |
| WFF70         | 2.5                               | 95  | 5                   | 5     | 1               | HORIZONTAL |
|               |                                   |     | 7                   | 7     | 1               | VERTICAL   |
| WFF120        | 6                                 | 150 | 4                   | 4     | 1               | HORIZONTAL |
|               |                                   |     | 5                   | 5     | 1               | VERTICAL   |
| WFF185        | 10                                | 240 | 3                   | 3     | 1               | HORIZONTAL |
|               |                                   |     | 4                   | 4     | 1               | VERTICAL   |
| WFF300        | 25                                | 300 | 3                   | 3     | 1               | HORIZONTAL |
|               |                                   |     | 4                   | 4     | 1               | VERTICAL   |
| SAK 2.5*      | 0.5                               | 4   | 30                  | 60    | 2               | HORIZONTAL |
|               |                                   |     | 38                  | 76    | 2               | VERTICAL   |
| SAK 4         | 0.5                               | 6   | 28                  | 56    | 2               | HORIZONTAL |
|               |                                   |     | 35                  | 70    | 2               | VERTICAL   |
| SAK 6N        | 0.5                               | 10  | 22                  | 44    | 2               | HORIZONTAL |
|               |                                   |     | 28                  | 56    | 2               | VERTICAL   |
| SAK 10        | 1.5                               | 16  | 18                  | 36    | 2               | HORIZONTAL |
|               |                                   |     | 22                  | 44    | 2               | VERTICAL   |
| SAK 16        | 2.5                               | 16  | 15                  | 30    | 2               | HORIZONTAL |
|               |                                   |     | 19                  | 38    | 2               | VERTICAL   |
| SAK 35        | 6                                 | 50  | 10                  | 20    | 2               | HORIZONTAL |
|               |                                   |     | 12                  | 24    | 2               | VERTICAL   |
| ZDU 2.5*      | 0.08                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|               |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| ZDU2.5/3AN    | 0.08                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|               |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| ZDU2.5/4AN    | 0.08                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|               |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| ZDU2.5/2x2AN  | 0.08                              | 4   | 35                  | 70    | 2               | HORIZONTAL |
|               |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| ZDU 4         | 0.21                              | 6   | 30                  | 60    | 2               | HORIZONTAL |
|               |                                   |     | 38                  | 76    | 2               | VERTICAL   |
| ZDU 6         | 0.21                              | 6   | 22                  | 44    | 2               | HORIZONTAL |
|               |                                   |     | 28                  | 56    | 2               | VERTICAL   |
| ZDK2.5/1.5*   | 0.08                              | 2.5 | 35                  | 70    | 2               | HORIZONTAL |
|               |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| UK 1.5N**     | 0.14                              | 0.7 | 43                  | 86    | 2               | HORIZONTAL |
|               |                                   |     | 54                  | 108   | 2               | VERTICAL   |
| UK 2.5N       | 0.2                               | 2.5 | 35                  | 70    | 2               | HORIZONTAL |
|               |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| UK 3N         | 0.2                               | 2.5 | 35                  | 70    | 2               | HORIZONTAL |
|               |                                   |     | 44                  | 88    | 2               | VERTICAL   |
| UK 5N         | 0.2                               | 4   | 29                  | 58    | 2               | HORIZONTAL |
|               |                                   |     | 36                  | 72    | 2               | VERTICAL   |

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SPM 4



Zone 1,2,21,22

## SPM 4 TERMINAL CAPACITY DATA (Continued)

| TERMINAL TYPE | CONDUCTOR SIZE<br>mm <sup>2</sup> |     | MAX NO OF TERMINALS |       | MAX NO OF RAILS |            |
|---------------|-----------------------------------|-----|---------------------|-------|-----------------|------------|
|               | MIN                               | MAX | PER RAIL            | TOTAL |                 |            |
| UK 6N         | 0.2                               | 6   | 22                  | 44    | 2               | HORIZONTAL |
|               |                                   |     | 27                  | 54    | 2               | VERTICAL   |
| UK 10N        | 0.5                               | 10  | 17                  | 34    | 2               | HORIZONTAL |
|               |                                   |     | 22                  | 44    | 2               | VERTICAL   |
| UK 16N        | 0.75                              | 16  | 14                  | 28    | 2               | HORIZONTAL |
|               |                                   |     | 18                  | 36    | 2               | VERTICAL   |
| UK 35         | 0.75                              | 35  | 11                  | 22    | 2               | HORIZONTAL |
|               |                                   |     | 15                  | 30    | 2               | VERTICAL   |
| UKH 50        | 10                                | 50  | 9                   | 18    | 2               | HORIZONTAL |
|               |                                   |     | 11                  | 22    | 2               | VERTICAL   |
| UKH 95        | 16                                | 95  | 7                   | 7     | 1               | HORIZONTAL |
|               |                                   |     | 9                   | 9     | 1               | VERTICAL   |
| UKH 150       | 25                                | 150 | 5                   | 5     | 1               | HORIZONTAL |
|               |                                   |     | 7                   | 7     | 1               | VERTICAL   |
| RTP 2.5***    | 0.5                               | 4   | 30                  | 60    | 2               | HORIZONTAL |
|               |                                   |     | 38                  | 76    | 2               | VERTICAL   |
| RTP 4         | 0.5                               | 4   | 28                  | 56    | 2               | HORIZONTAL |
|               |                                   |     | 35                  | 70    | 2               | VERTICAL   |
| RTP 6         | 0.5                               | 10  | 22                  | 44    | 2               | HORIZONTAL |
|               |                                   |     | 28                  | 56    | 2               | VERTICAL   |
| RTP 10        | 0.5                               | 16  | 18                  | 36    | 2               | HORIZONTAL |
|               |                                   |     | 22                  | 44    | 2               | VERTICAL   |
| RTP 16        | 0.5                               | 16  | 14                  | 28    | 2               | HORIZONTAL |
|               |                                   |     | 18                  | 36    | 2               | VERTICAL   |
| RTP 25        | 0.5                               | 25  | 13                  | 26    | 2               | HORIZONTAL |
|               |                                   |     | 16                  | 32    | 2               | VERTICAL   |
| RTP 35        | 1.5                               | 35  | 28                  | 56    | 2               | HORIZONTAL |
|               |                                   |     | 35                  | 70    | 2               | VERTICAL   |
| RTP 50        | 10                                | 50  | 9                   | 18    | 2               | HORIZONTAL |
|               |                                   |     | 11                  | 22    | 2               | VERTICAL   |
| RTP 95        | 6                                 | 95  | 6                   | 6     | 1               | HORIZONTAL |
|               |                                   |     | 8                   | 8     | 1               | VERTICAL   |

\* SAK & WDU & WDK & ZDU & ZDK & WFF ARE WEIDMULLER / KLIPPON RANGE OF TERMINALS.

\*\* UK & UKH ARE PHOENIX CONTACT RANGE OF TERMINALS.

\*\*\* RTP IS RAAD RANGE OF TERMINALS.

ALL TERMINALS INCREASED SAFETY AND ALL CODED Exe II.

### NOTES

- 1- THE NUMBER AND COMBINATION OF DIFFERENT SIZES OF TERMINALS WHICH CAN BE FITTED TO THE ENCLOSURE IS LIMITED BY THE MAXIMUM POWER DISSIPATION OF ENCLOSURE FOR ASSISTANCE CALL THE "S.E.M.C." REPRESENTATIVE.
- 2- ROWS OF TERMINALS ARE FITTED BETWEEN END STOPS ON TERMINALS RAILS.
- 3- PARTITIONS ARE FITTED BETWEEN TERMINALS OF DIFFERENT TYPES OR SIZES, AND BETWEEN LINKED AND UNLINKED TERMINALS.
- 4- THE TABLE SHOWN IS GIVEN AS A GUIDE ONLY, ALLOWANCE HAVE BEEN MADE FOR THE FITTING OF ONE END SECTION AND TWO END BRACKETS ON EACH RAIL.
- 5- THE NUMBER OF TERMINALS MUST BE REDUCED IF PARTITIONS OR EXTRA END SECTION SPACE ARE REQUIRED.