

**MPS 7S/03-5/03**
**Weidmüller Interface GmbH & Co. KG**

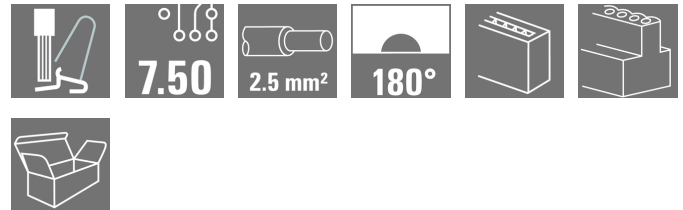
Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**
**SNAP IN**


**OMNIMATE® 4.0 - the next evolution step**

OMNIMATE® 4.0 follows the trend of One Cable Technology (OCT). The modular concept enables the fast configuration of hybrid interfaces, which transmit data, signals and energy in a single connector. As a result, you can reduce the cabling effort in a wide variety of applications, simplify maintenance and accelerate automation processes. The unique SNAP IN connection is the backbone and speeds up the wiring process.

**The fastest connection yet**

- Fast, safe, and tool-free wiring due to unique SNAP IN connection
- Ready for Robot through "wire ready" delivery with open clamping point
- Optical and acoustic feedback indicates proper wiring

**Create your own configuration**

- Flexible configuration and ordering via the Weidmüller Configurator (WMC)
- Dispatch within three days – even for individually configured products
- Automatic offer preparation for the configured product

**Simply configuration of modular hybrid connectors**

- Flexible combination options for power, signal and data transmission
- Future-proof Single-Pair Ethernet technology

**General ordering data**

|              |                                                                                       |
|--------------|---------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, female plug, Pitch in mm (P): 7.50 mm, Number of poles: 6, Box |
| Order No.    | <a href="#">8000078348</a>                                                            |
| Type         | MPS 7S/03-5/03                                                                        |
| GTIN (EAN)   | 4064675622567                                                                         |
| Qty.         | 48 pc(s).                                                                             |
| Product data | IEC: 1000 V / 26.8 A / 0.5 - 4 mm²<br>UL: / 18.5 A / AWG 20 - AWG 12                  |
| Packaging    | Box                                                                                   |

## MPS 7S/03-5/03

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## Technical data

## Dimensions and weights

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Depth      | 34.95 mm | Depth (inches)  | 1.376 inch |
| Height     | 15.5 mm  | Height (inches) | 0.61 inch  |
| Net weight | 3.108 g  |                 |            |

## Material data

|                                  |          |                             |        |
|----------------------------------|----------|-----------------------------|--------|
| Insulating material              | PBT GF   | Colour                      | black  |
| Colour chart (similar)           | RAL 9011 | Insulating material group   | I      |
| Comparative Tracking Index (CTI) | ≥ 600    | UL 94 flammability rating   | V-0    |
| Contact material                 | CuSn     | Contact surface             | tinned |
| Storage temperature, min.        | -25 °C   | Storage temperature, max.   | 55 °C  |
| Operating temperature, min.      | -50 °C   | Operating temperature, max. | 100 °C |

## Conductors suitable for connection

|                                                                     |                     |
|---------------------------------------------------------------------|---------------------|
| Clamping range, min.                                                | 0.5 mm <sup>2</sup> |
| Clamping range, max.                                                | 4 mm <sup>2</sup>   |
| Wire connection cross section AWG, min.                             | AWG 20              |
| Wire connection cross section AWG, max.                             | AWG 12              |
| Solid, min. H05(07) V-U                                             | 0.5 mm <sup>2</sup> |
| Solid, max. H05(07) V-U                                             | 2.5 mm <sup>2</sup> |
| Flexible, min. H05(07) V-K                                          | 0.5 mm <sup>2</sup> |
| Flexible, max. H05(07) V-K                                          | 4 mm <sup>2</sup>   |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm <sup>2</sup> min. |                     |
| w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm <sup>2</sup> max. |                     |
| w. wire end ferrule, DIN 46228 pt 1, 0.5 mm <sup>2</sup> min.       |                     |
| w. wire end ferrule, DIN 46228 pt 1, 2.5 mm <sup>2</sup> max.       |                     |
| Outer diameter of insulation, max.                                  | 4 mm                |

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## Technical data

|                     |                                        |                              |                             |
|---------------------|----------------------------------------|------------------------------|-----------------------------|
| Clampable conductor | Cross-section for conductor connection | nominal                      | 0.5 mm <sup>2</sup>         |
|                     |                                        | Stripping length             | nominal 12 mm               |
|                     | wire end ferrule                       | Recommended wire-end ferrule | <a href="#">H0.5/16 OR</a>  |
|                     |                                        | Stripping length             | nominal 10 mm               |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H0.5/10</a>     |
|                     | Cross-section for conductor connection | nominal                      | 0.75 mm <sup>2</sup>        |
|                     |                                        | Stripping length             | nominal 12 mm               |
|                     | wire end ferrule                       | Recommended wire-end ferrule | <a href="#">H0.75/16 W</a>  |
|                     |                                        | Stripping length             | nominal 10 mm               |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H0.75/10</a>    |
|                     | Cross-section for conductor connection | nominal                      | 1 mm <sup>2</sup>           |
|                     |                                        | Stripping length             | nominal 12 mm               |
|                     | wire end ferrule                       | Recommended wire-end ferrule | <a href="#">H1.0/16 GE</a>  |
|                     |                                        | Stripping length             | nominal 10 mm               |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H1.0/10</a>     |
|                     | Cross-section for conductor connection | nominal                      | 1.5 mm <sup>2</sup>         |
|                     |                                        | Stripping length             | nominal 12 mm               |
|                     | wire end ferrule                       | Recommended wire-end ferrule | <a href="#">H1.5/16 R</a>   |
|                     |                                        | Stripping length             | nominal 10 mm               |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H1.5/10</a>     |
|                     | Cross-section for conductor connection | nominal                      | 2.5 mm <sup>2</sup>         |
|                     |                                        | Stripping length             | nominal 10 mm               |
|                     | wire end ferrule                       | Recommended wire-end ferrule | <a href="#">H2.5/15D BL</a> |
|                     |                                        | Stripping length             | nominal 10 mm               |
|                     |                                        | Recommended wire-end ferrule | <a href="#">H2.5/10</a>     |

Reference text The outside diameter of the plastic collar should not be larger than the pitch (P)

## Rated data acc. to IEC

|                                                                       |                        |                                                                      |         |
|-----------------------------------------------------------------------|------------------------|----------------------------------------------------------------------|---------|
| tested acc. to standard                                               | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                        | 26.8 A  |
| Rated current, max. number of poles (Tu=20°C)                         | 19.7 A                 | Rated current, min. number of poles (Tu=40°C)                        | 23.1 A  |
| Rated current, max. number of poles (Tu=40°C)                         | 16.9 A                 | Rated voltage for surge voltage class / pollution degree II/2        | 1,000 V |
| Rated voltage for surge voltage class / pollution degree III/2        | 1,000 V                | Rated impulse voltage for surge voltage class/ pollution degree II/2 | 4 kV    |
| Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV                   |                                                                      |         |

## Rated data acc. to UL 1059

|                                       |        |                                       |        |
|---------------------------------------|--------|---------------------------------------|--------|
| Rated current (Use group B / UL 1059) | 18.5 A | Rated current (Use group C / UL 1059) | 18.5 A |
| Rated current (Use group D / UL 1059) | 10 A   | Wire cross-section, AWG, min.         | AWG 20 |
| Wire cross-section, AWG, max.         | AWG 12 |                                       |        |

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## Technical data

## Technical data - hybrid (power)

|                                                                               |                     |                                                                              |                     |
|-------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------|---------------------|
| Number of poles (Power)                                                       | 3                   | Number of rows (Power)                                                       | 1                   |
| Pitch in mm (Power)                                                           | 7.5 mm              | Pitch in inches (Power)                                                      | 0.295 inch          |
| Contact material (Power)                                                      | CuSn                | Contact surface (Power)                                                      | tinned              |
| Clamping range, min. (Power)                                                  | 0.5 mm <sup>2</sup> | Clamping range, max. (Power)                                                 | 4 mm <sup>2</sup>   |
| w. wire end ferrule, DIN 46228 pt 1, min. (Power)                             | 0.5 mm <sup>2</sup> | w. wire end ferrule, DIN 46228 pt 1, max. (Power)                            | 2.5 mm <sup>2</sup> |
| Wire cross-section, AWG, min. (Power)                                         | AWG 20              | Wire cross-section, AWG, max. (Power)                                        | AWG 12              |
| w. plastic collar ferrule, DIN 46228 pt 4, min. (Power)                       | 2.5 mm <sup>2</sup> | w. plastic collar ferrule, DIN 46228 pt 4, max. (Power)                      | 0.5 mm <sup>2</sup> |
| Flexible, min. H05(07) V-K (Power)                                            | 0.5 mm <sup>2</sup> | Flexible, max. H05(07) V-K (Power)                                           | 4 mm <sup>2</sup>   |
| Solid, min. H05(07) V-U (Power)                                               | 0.5 mm <sup>2</sup> | Solid, max. H05(07) V-U (Power)                                              | 2.5 mm <sup>2</sup> |
| Outside diameter of the insulation, max. (Power)                              | 4 mm                | Stripping length (Power)                                                     | 9 mm                |
| Rated current (Use group B / UL 1059) (Power)                                 | 18.5 A              | Rated current (Use group C / UL 1059) (Power)                                | 18.5 A              |
| Rated current (Use group D / UL 1059) (Power)                                 | 10 A                | Rated current, min. number of poles (Tu=20°C) (Power)                        | 26.8 A              |
| Rated current, max. number of poles (Tu=20°C) (Power)                         | 19.7 A              | Rated current, min. number of poles (Tu=40°C) (Power)                        | 23.1 A              |
| Rated current, max. number of poles (Tu=40°C) (Power)                         | 16.9 A              | Rated impulse voltage for surge voltage class/ pollution degree II/2 (Power) | 4 kV                |
| Rated impulse voltage for surge voltage class/ pollution degree III/2 (Power) | 4 kV                | Rated voltage (Use group B / UL 1059) (Power)                                | 600 V               |
| Rated voltage (Use group C / UL 1059) (Power)                                 | 600 V               | Rated voltage (Use group D / UL 1059) (Power)                                | 600 V               |
| Rated voltage for surge voltage class / pollution degree II/2 (Power)         | 1,000 V             | Rated voltage for surge voltage class / pollution degree III/2 (Power)       | 1,000 V             |
| Rated voltage for surge voltage class / pollution degree III/3 (Power)        | 630 V               | Clearance distance, min. (Power)                                             | 9.96 mm             |

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## Technical data

## Technical data - hybrid (signal)

|                                                                                |                     |                                                                                |                     |
|--------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------|---------------------|
| Number of poles (Signal)                                                       | 3                   | Number of rows (Signal)                                                        | 1                   |
| Pitch in mm (Signal)                                                           | 5 mm                | Pitch in inches (Signal)                                                       | 0.197 inch          |
| Contact material (Signal)                                                      | CuSn                | Contact surface (Signal)                                                       | tinned              |
| Clamping range, min. (Signal)                                                  | 0.5 mm <sup>2</sup> | Clamping range, max. (Signal)                                                  | 4 mm <sup>2</sup>   |
| Wire cross-section, AWG, min. (Signal)                                         | AWG 20              | Wire cross-section, AWG, max. (Signal)                                         | AWG 12              |
| w. plastic collar ferrule, DIN 46228 pt 4, min. (Signal)                       | 0.5 mm <sup>2</sup> | w. plastic collar ferrule, DIN 46228 pt 4, max. (Signal)                       | 2.5 mm <sup>2</sup> |
| w. wire end ferrule, DIN 46228 pt 1, min. (Signal)                             | 0.5 mm <sup>2</sup> | w. wire end ferrule, DIN 46228 pt 1, max. (Signal)                             | 2.5 mm <sup>2</sup> |
| Flexible, min. H05(07) V-K (Signal)                                            | 0.5 mm <sup>2</sup> | Flexible, max. H05(07) V-K (Signal)                                            | 4 mm <sup>2</sup>   |
| Solid, min. H05(07) V-U (Signal)                                               | 0.5 mm <sup>2</sup> | Solid, max. H05(07) V-U (Signal)                                               | 2.5 mm <sup>2</sup> |
| Outside diameter of the insulation, max. (Signal)                              | 4 mm                | Stripping length (Signal)                                                      | 9 mm                |
| Rated current (Use group B / UL 1059) (Signal)                                 | 18.5 A              | Rated current (Use group C / UL 1059) (Signal)                                 | 18.5 A              |
| Rated current (Use group D / UL 1059) (Signal)                                 | 10 A                | Rated current, min. number of poles (Tu=20°C) (Signal)                         | 26.8 A              |
| Rated current, max. number of poles (Tu=20°C) (Signal)                         | 19.7 A              | Rated current, min. number of poles (Tu=40°C) (Signal)                         | 23.1 A              |
| Rated current, max. number of poles (Tu=40°C) (Signal)                         | 16.9 A              | Rated impulse voltage for surge voltage class/ pollution degree II/2 (Signal)  | 4 kV                |
| Rated impulse voltage for surge voltage class/ pollution degree III/2 (Signal) | 4 kV                | Rated impulse voltage for surge voltage class/ pollution degree III/3 (Signal) | 4 kV                |
| Rated voltage (Use group B / UL 1059) (Signal)                                 | 600 V               | Rated voltage (Use group C / UL 1059) (Signal)                                 | 600 V               |
| Rated voltage (Use group D / UL 1059) (Signal)                                 | 600 V               | Rated voltage for surge voltage class / pollution degree II/2 (Signal)         | 400 V               |
| Rated voltage for surge voltage class / pollution degree III/2 (Signal)        | 320 V               | Rated voltage for surge voltage class / pollution degree III/3 (Signal)        | 250 V               |
| Clearance distance, min. (Signal)                                              | 7.5 mm              | Creepage distance, min. (Signal)                                               | 7.5 mm              |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002638    | ETIM 7.0    | EC002638    |
| ETIM 8.0    | EC002638    | ECLASS 9.0  | 27-44-03-09 |
| ECLASS 9.1  | 27-44-03-09 | ECLASS 10.0 | 27-44-03-09 |
| ECLASS 11.0 | 27-46-02-02 | ECLASS 12.0 | 27-46-03-02 |

## Important note

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IPC conformity | Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.                                                                                                                                                                                                   |
| Notes          | <ul style="list-style-type: none"> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>P on drawing = pitch</li> <li>Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.</li> <li>Wire end ferrule without plastic collar to DIN 46228/1</li> <li>Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months</li> </ul> |

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## Technical data

### Downloads

Engineering Data

[CAD data – STEP](#)

Catalogues

[Catalogues in PDF-format](#)

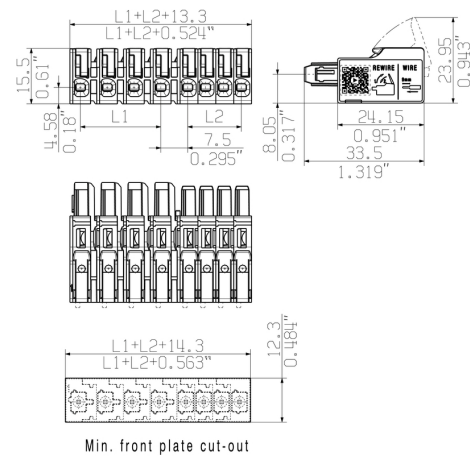
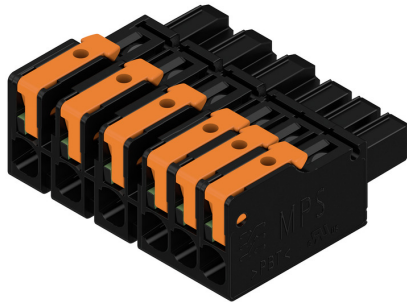
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## Drawings

### Product image



### Product benefits

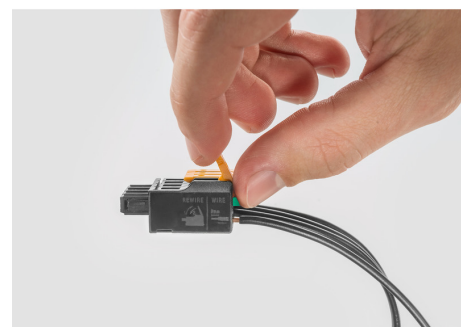


Fastest connection technology SNAP IN

### Product benefits



Acoustic and visual feedback



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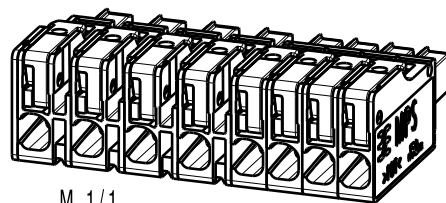
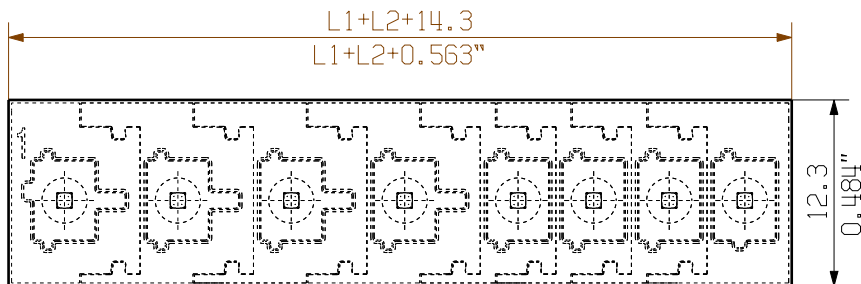
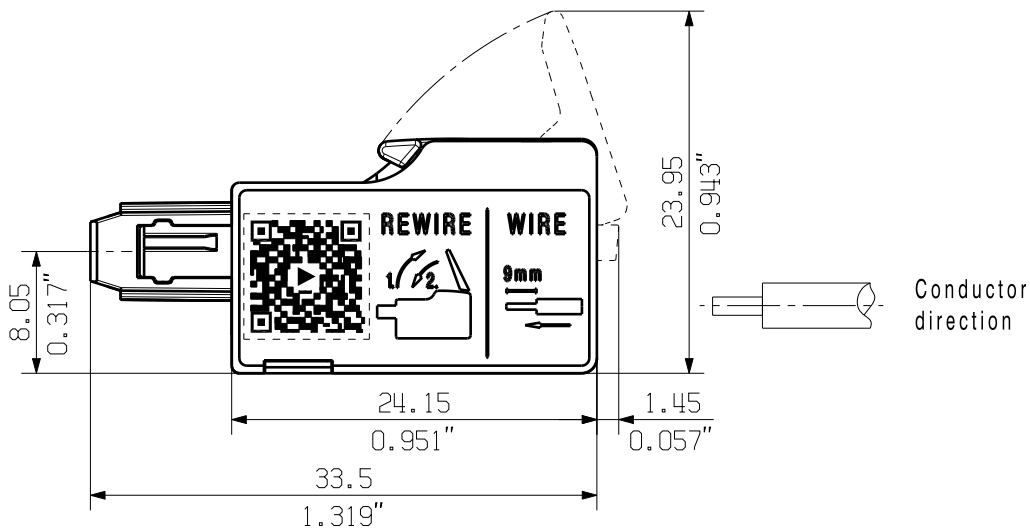
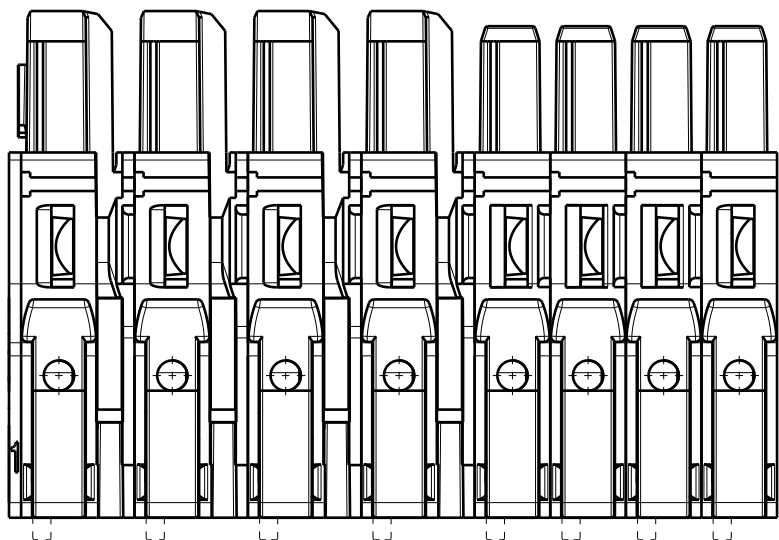
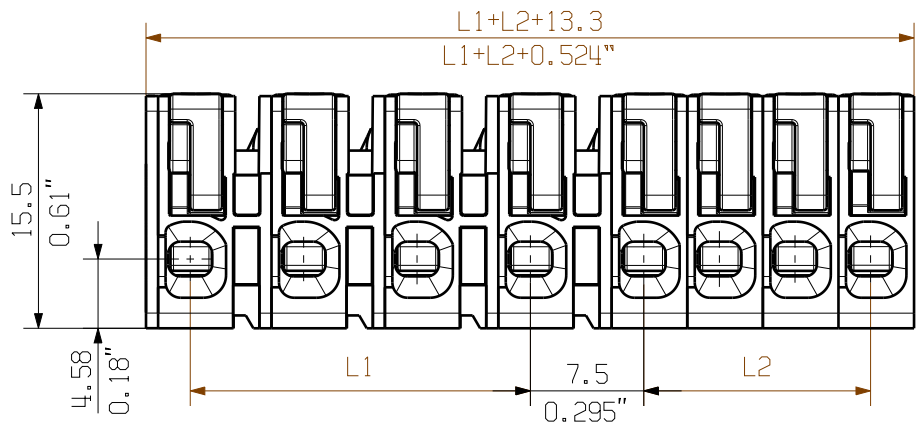
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Dimensions without tolerances are no check dimensions

The English version is binding

Allgemeinguetliche Kundenzeichnung, aktueller Stand nur auf Anfrage  
General customer drawing, topical version only if required

Shown: MPS 7S/04-5/04 S



M 1/1

Further dim. & info. see data sheet

|                |                  |            |              |                |            |              |
|----------------|------------------|------------|--------------|----------------|------------|--------------|
| MPS 7S/01-5/09 | 1                | .          | .            | 9              | 40.00      | 1.575        |
| MPS 7S/02-5/08 | 2                | 7.50       | 0.295        | 8              | 35.00      | 1.378        |
| MPS 7S/01-5/08 | 1                | .          | .            | 8              | 35.00      | 1.378        |
| MPS 7S/02-5/07 | 2                | 7.50       | 0.295        | 7              | 30.00      | 1.181        |
| MPS 7S/01-5/07 | 1                | .          | .            | 7              | 30.00      | 1.181        |
| MPS 7S/03-5/06 | 3                | 15.00      | 0.591        | 6              | 25.00      | 0.984        |
| MPS 7S/02-5/06 | 2                | 7.50       | 0.295        | 6              | 25.00      | 0.984        |
| MPS 7S/01-5/06 | 1                | .          | .            | 6              | 25.00      | 0.787        |
| MPS 7S/04-5/05 | 4                | 22.50      | 0.886        | 5              | 20.00      | 0.787        |
| MPS 7S/03-5/05 | 3                | 15.00      | 0.591        | 5              | 20.00      | 0.787        |
| MPS 7S/02-5/05 | 2                | 7.50       | 0.295        | 5              | 20.00      | 0.787        |
| MPS 7S/01-5/05 | 1                | .          | .            | 5              | 20.00      | 0.787        |
| MPS 7S/04-5/04 | 4                | 22.50      | 0.886        | 4              | 15.00      | 0.591        |
| MPS 7S/03-5/04 | 3                | 15.00      | 0.591        | 4              | 15.00      | 0.591        |
| MPS 7S/02-5/04 | 2                | 7.50       | 0.295        | 4              | 15.00      | 0.591        |
| MPS 7S/01-5/04 | 1                | .          | .            | 4              | 15.00      | 0.591        |
| MPS 7S/05-5/03 | 5                | 30.00      | 1.181        | 3              | 10.00      | 0.394        |
| MPS 7S/04-5/03 | 4                | 22.50      | 0.886        | 3              | 10.00      | 0.394        |
| MPS 7S/03-5/03 | 3                | 15.00      | 0.591        | 3              | 10.00      | 0.394        |
| MPS 7S/02-5/03 | 2                | 7.50       | 0.295        | 3              | 10.00      | 0.394        |
| MPS 7S/01-5/03 | 1                | .          | .            | 3              | 10.00      | 0.394        |
| MPS 7S/06-5/02 | 6                | 37.50      | 1.476        | 2              | 5.00       | 0.197        |
| MPS 7S/05-5/02 | 5                | 30.00      | 1.181        | 2              | 5.00       | 0.197        |
| MPS 7S/04-5/02 | 4                | 22.50      | 0.886        | 2              | 5.00       | 0.197        |
| MPS 7S/03-5/02 | 3                | 15.00      | 0.591        | 2              | 5.00       | 0.197        |
| MPS 7S/02-5/02 | 2                | 7.50       | 0.295        | 2              | 5.00       | 0.197        |
| MPS 7S/01-5/02 | 1                | .          | .            | 2              | 5.00       | 0.197        |
| Name           | n Poles<br>P=7.5 | L1<br>[mm] | L1<br>[inch] | n Poles<br>P=5 | L2<br>[mm] | L2<br>[inch] |

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmueller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

|                   |                                |                        |                        |                                             |                      |  |
|-------------------|--------------------------------|------------------------|------------------------|---------------------------------------------|----------------------|--|
|                   | First Issue Date<br>19.04.2021 | Max. nos.              | Prim PLM Part No.: .   |                                             | Prim ERP Part No.: . |  |
|                   |                                | Modification           | <b>Weidmüller</b>      |                                             | <b>74516</b>         |  |
|                   | Drawn<br>19.04.2021            | Date<br>19.04.2021     | Name<br>Tauber-Reglin, | Drawing no. <b>74516</b> Issue no. <b>0</b> |                      |  |
|                   | Responsible                    | Approved<br>06.05.2021 | Name<br>Sapina, Svetos | Sheet 3 of 4 sheets                         |                      |  |
| Scale: 2/1        |                                | Size: A3               |                        | MPS 7S/...-5/... S                          |                      |  |
| Drawings Assembly |                                |                        |                        | Product file: .                             |                      |  |

# Mouser Electronics

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