

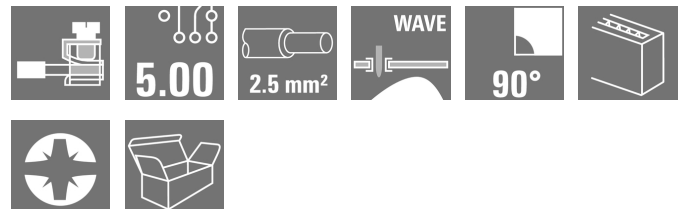
**PM 5.00/06/90 3.5SN BK BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

Similar to illustration

PCB terminal with leaf spring connection at 5.00 and 5.08 mm pitch. Conductor outlet direction 90°. Suitable for conductor cross-sections up to 2.5 mm<sup>2</sup>.

**General ordering data**

|              |                                                                                                 |
|--------------|-------------------------------------------------------------------------------------------------|
| Version      | Printed circuit board terminals, Number of poles: 6, Clamping range, max. : 2.5 mm <sup>2</sup> |
| Order No.    | <a href="#">2682120000</a>                                                                      |
| Type         | PM 5.00/06/90 3.5SN BK BX                                                                       |
| GTIN (EAN)   | 4050118697247                                                                                   |
| Qty.         | 100 pc(s).                                                                                      |
| Product data | IEC: / 24 A<br>UL: 300 V / 15 A / AWG 26 - AWG 14                                               |

Creation date April 16, 2021 8:02:10 AM CEST

Catalogue status 09.04.2021 / We reserve the right to make technical changes.

## PM 5.00/06/90 3.5SN BK BX

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Dimensions and weights

|                          |       |            |        |
|--------------------------|-------|------------|--------|
| Height of lowest version | 10 mm | Net weight | 4.85 g |
|--------------------------|-------|------------|--------|

## Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

## System parameters

|                                            |                                                |                                                   |                        |
|--------------------------------------------|------------------------------------------------|---------------------------------------------------|------------------------|
| Product family                             | OMNIMATE Signal - series PM                    | Pitch in inches (P)                               | 0.197 inch             |
| Number of poles                            | 6                                              | Pin series quantity                               | 1                      |
| Fitted by customer                         | Yes                                            | Max. adjacent poles per row                       | 24                     |
| Solder eyelet hole diameter (D)            | 1.3 mm                                         | Solder eyelet hole diameter tolerance (D)+ 0,1 mm |                        |
| Number of solder pins per pole             | 1                                              | Screwdriver blade                                 | 0.6 x 3.5              |
| Screwdriver blade standard                 | DIN 5264                                       | Tightening torque, min.                           | 0.4 Nm                 |
| Tightening torque, max.                    | 0.5 Nm                                         | Clamping screw                                    | M 2.5                  |
| Touch-safe protection acc. to DIN VDE 0470 | IP 20, above the PCB; with conductor connected | Touch-safe protection acc. to DIN VDE 57 106      | Safe from finger touch |

## Material data

|                           |        |                                      |                                    |
|---------------------------|--------|--------------------------------------|------------------------------------|
| Insulating material group | I      | Comparative Tracking Index (CTI)     | ≥ 600                              |
| Tinning type              | matt   | Layer structure of solder connection | 1.5...3.5 µm Ni / 4...6 µm Sn matt |
| Storage temperature, min. | -40 °C | Storage temperature, max.            | 70 °C                              |

## Conductors suitable for connection

|                                                                      |                      |
|----------------------------------------------------------------------|----------------------|
| Clamping range, min.                                                 | 0.13 mm <sup>2</sup> |
| Clamping range, max.                                                 | 2.5 mm <sup>2</sup>  |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.25 mm <sup>2</sup> min. |                      |
| w. plastic collar ferrule, DIN 46228 pt 4, 1.5 mm <sup>2</sup> max.  |                      |

## PM 5.00/06/90 3.5SN BK BX

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

|                     |                                                                                                                                                                        |                              |                              |      |  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|------|--|
| Clampable conductor | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired                   |      |  |
|                     |                                                                                                                                                                        | nominal                      | 0.5 mm <sup>2</sup>          |      |  |
|                     | wire end ferrule                                                                                                                                                       | Stripping length             | nominal                      | 8 mm |  |
|                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H0.5/12 OR</a>   |      |  |
|                     |                                                                                                                                                                        | Stripping length             | nominal                      | 6 mm |  |
|                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H0.5/6</a>       |      |  |
|                     | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired                   |      |  |
|                     |                                                                                                                                                                        | nominal                      | 0.75 mm <sup>2</sup>         |      |  |
|                     | wire end ferrule                                                                                                                                                       | Stripping length             | nominal                      | 8 mm |  |
|                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H0.75/12 W</a>   |      |  |
|                     |                                                                                                                                                                        | Stripping length             | nominal                      | 6 mm |  |
|                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H0.75/6</a>      |      |  |
|                     | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired                   |      |  |
|                     |                                                                                                                                                                        | nominal                      | 1 mm <sup>2</sup>            |      |  |
|                     | wire end ferrule                                                                                                                                                       | Stripping length             | nominal                      | 8 mm |  |
|                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H1.0/12 GE</a>   |      |  |
|                     |                                                                                                                                                                        | Stripping length             | nominal                      | 6 mm |  |
|                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H1.0/6</a>       |      |  |
|                     | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired                   |      |  |
|                     |                                                                                                                                                                        | nominal                      | 0.25 mm <sup>2</sup>         |      |  |
|                     | wire end ferrule                                                                                                                                                       | Stripping length             | nominal                      | 8 mm |  |
|                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H0.25/10 HBL</a> |      |  |
|                     |                                                                                                                                                                        | Stripping length             | nominal                      | 5 mm |  |
|                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H0.25/5</a>      |      |  |
|                     | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired                   |      |  |
|                     |                                                                                                                                                                        | nominal                      | 0.34 mm <sup>2</sup>         |      |  |
|                     | wire end ferrule                                                                                                                                                       | Stripping length             | nominal                      | 8 mm |  |
|                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H0.34/10 TK</a>  |      |  |
| Reference text      | Length of ferrules is to be chosen depending on the product and the rated voltage., 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)                  | 24 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 24 A                   | Rated voltage for surge voltage class / pollution degree III/3 | 250 V             |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV                   | Short-time withstand current resistance                        | 3 x 1s with 120 A |

## Rated data acc. to CSA

|                                   |        |                                   |        |
|-----------------------------------|--------|-----------------------------------|--------|
| Rated voltage (Use group B / CSA) | 300 V  | Rated voltage (Use group D / CSA) | 300 V  |
| Rated current (Use group B / CSA) | 15 A   | Rated current (Use group D / CSA) | 10 A   |
| Wire cross-section, AWG, min.     | AWG 26 | Wire cross-section, AWG, max.     | AWG 14 |

**PM 5.00/06/90 3.5SN BK BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Technical data****Rated data acc. to UL 1059**

|                                       |        |                                       |        |
|---------------------------------------|--------|---------------------------------------|--------|
| Rated voltage (Use group B / UL 1059) | 300 V  | Rated voltage (Use group D / UL 1059) | 300 V  |
| Rated current (Use group B / UL 1059) | 15 A   | Rated current (Use group D / UL 1059) | 10 A   |
| Wire cross-section, AWG, min.         | AWG 26 | Wire cross-section, AWG, max.         | AWG 14 |

**Packing**

|            |        |           |       |
|------------|--------|-----------|-------|
| VPE length | 150 mm | VPE width | 90 mm |
| VPE height | 48 mm  |           |       |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002643    | ETIM 7.0    | EC002643    |
| ECLASS 9.0  | 27-44-04-01 | ECLASS 9.1  | 27-44-04-01 |
| ECLASS 10.0 | 27-44-04-01 | ECLASS 11.0 | 27-46-01-01 |

**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>• Wire end ferrule without plastic collar to DIN 46228/1</li> <li>• Wire end ferrule with plastic collar to DIN 46228/4</li> <li>• The data given under CSA relates to a cUL approval - E60693</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>• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months</li> </ul> |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Downloads**

|                    |                                          |
|--------------------|------------------------------------------|
| Brochure/Catalogue | <a href="#">Catalogues in PDF-format</a> |
|--------------------|------------------------------------------|

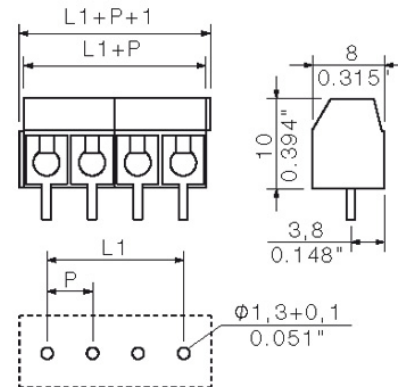
## PM 5.00/06/90 3.5SN BK BX

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

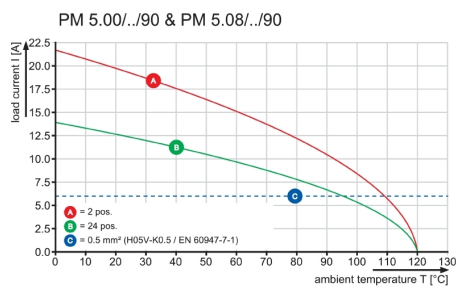
[www.weidmueller.com](http://www.weidmueller.com)

# Drawings

## Dimensional drawing



## Graph



## Graph

