

## MHS 7S/04-5/03 H T3 B T

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

### Product image



### 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, male header, THT/THR solder connection, Pitch in mm (P): 7.50 mm, Number of poles: 7, 90°, Tube
Order No.	<a href="#">8000078340</a>
Type	MHS 7S/04-5/03 H T3 B T
GTIN (EAN)	4064675622024
Qty.	11 pc(s).
Product data	IEC: 630 V / 30.4 A UL: 300 V / 18.5 A
Packaging	Tube

Creation date August 25, 2023 6:52:17 PM CEST

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## Technical data

## Dimensions and weights

Depth	14 mm	Depth (inches)	0.551 inch
Height	15.1 mm	Height (inches)	0.594 inch
Height of lowest version	11.9 mm	Net weight	6.3 g

## Temperatures

Operating temperature, min.	-50 °C	Operating temperature, max.	100 °C
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## System specifications

Product family	OMNIMATE 4.0	Type of connection	Board connection
Mounting onto the PCB	THT/THR solder connection	Pitch in mm (P)	7.5 mm
Outgoing elbow	90°	Number of poles	7
Number of solder pins per pole	1	Solder pin length (l)	3.2 mm
Solder pin dimensions	1.0 x 1.0 mm	Solder eyelet hole diameter (D)	1.4 mm
Solder eyelet hole diameter tolerance (D)+	0,1 mm	Outside diameter of solder pad	2.3 mm
Template aperture diameter	2.1 mm	L1 in mm	22.5 mm
L1 in inches	0.886 inch	L2 in mm	10 mm
L2 in inch	0.394 inch	Number of rows	1
Pin series quantity	1	Plugging cycles	≥ 25
Plugging force/pole, max.	9 N	Pulling force/pole, max.	8 N

## Material data

Insulating material	PA 9T	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	Moisture Level (MSL)	1
UL 94 flammability rating	V-0	Contact base material	CuMg
Contact material	CuSn	Contact surface	tinned
Tinning type	matt	Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C		

## Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	30.4 A
Rated current, max. number of poles (Tu=20°C)	26.9 A	Rated current, min. number of poles (Tu=40°C)	27 A
Rated current, max. number of poles (Tu=40°C)	23.9 A	Rated voltage for surge voltage class / pollution degree II/2	630 V
Rated voltage for surge voltage class / pollution degree III/2	500 V	Rated voltage for surge voltage class / pollution degree III/3	400 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	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV		

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## Technical data

## Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (Use group B / UL 1059)	300 V
Rated voltage (Use group D / UL 1059)	600 V
Rated current (Use group B / UL 1059)	18.5 A
Rated current (Use group D / UL 1059)	5 A

Rated voltage (Use group C / UL 1059)	300 V
Rated voltage (Use group F / UL 1059)	760 V
Rated current (Use group C / UL 1059)	18.5 A
Rated current (Use group F / UL 1059)	18.5 A

Reference to approval values

Specifications are maximum values, details - see approval certificate.

## Technical data - hybrid (power)

Number of rows (Power)	1	Number of rows (Signal)	1
Contact material (Power)	CuMg	Contact surface (Power)	tinned
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)	30.4 A
Rated current, max. number of poles (Tu=20°C) (Power)	26.9 A	Rated current, min. number of poles (Tu=40°C) (Power)	27 A
Rated current, max. number of poles (Tu=40°C) (Power)	23.9 A	Rated voltage (Use group B / UL 1059) (Power)	300 V
Rated voltage (Use group C / UL 1059) (Power)	300 V	Rated voltage (Use group D / UL 1059) (Power)	300 V
Rated voltage for surge voltage class / pollution degree II/2 (Power)	630 V	Rated voltage for surge voltage class / pollution degree III/2 (Power)	500 V
Rated voltage for surge voltage class / pollution degree III/3 (Power)	400 V	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 impulse voltage for surge voltage class/ pollution degree III/3 (Power)	4 kV
Volume resistance (Power)	≤5 mΩ	Creepage distance, min. (Power)	7.09 mm
Clearance distance, min. (Power)	6.5 mm	Solder pin length (Power)	3.2 mm
Solder pin dimensions (Power)	1.0 x 1.0 mm	Tolerance of the diameter of the solder eyelet (Power)	+ 0,1 mm
Diameter of solder eyelet (Power)	1.4 mm	Outside diameter of solder pad (Power)	2.3 mm
Template aperture diameter (Power)	2.1 mm		

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## Technical data

## Technical data - hybrid (signal)

Number of poles (Signal)	3	Number of solder pins per pole (Signal)	1
Contact material (Signal)	CuMg	Contact surface (Signal)	tinned
Rated current (Use group B / UL 1059) (Signal)	14 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 voltage (Use group B / UL 1059) (Signal)	300 V	Rated voltage (Use group D / UL 1059) (Signal)	300 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	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
Volume resistance (Signal)	≤5 mΩ	Creepage distance, min. (Signal)	5.4 mm
Clearance distance, min. (Signal)	4 mm	Solder pin length (Signal)	3.2 mm
Solder pin dimensions (Signal)	1.0 x 1.0 mm	Tolerance of the diameter of the solder eyelet (Signal)	+ 0,1 mm
Diameter of solder eyelet (Signal)	1.4 mm	Outside diameter of solder pad (Signal)	2.3 mm
Template aperture diameter (Signal)	2.1 mm		

## Classifications

ETIM 6.0	EC002637	ETIM 7.0	EC002637
ETIM 8.0	EC002637	ECLASS 9.0	27-44-04-02
ECLASS 9.1	27-44-04-02	ECLASS 10.0	27-44-04-02
ECLASS 11.0	27-46-02-01	ECLASS 12.0	27-46-03-01

## 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>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>Diameter of solder eyelet D = 1.4+0.1mm</li> <li>Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months</li> </ul>

## Approvals

Approvals



UL File Number Search	UL Website
Certificate No. (cURus)	E60693

Creation date August 25, 2023 6:52:17 PM CEST

Catalogue status 18.08.2023 / We reserve the right to make technical changes.

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**Data sheet****MHS 7S/04-5/03 H T3 B T****Weidmüller Interface GmbH & Co. KG**  
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D-32758 Detmold  
Germany[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Downloads**

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Approval/Certificate/Document of Conformity	<a href="#">Declaration of the Manufacturer</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

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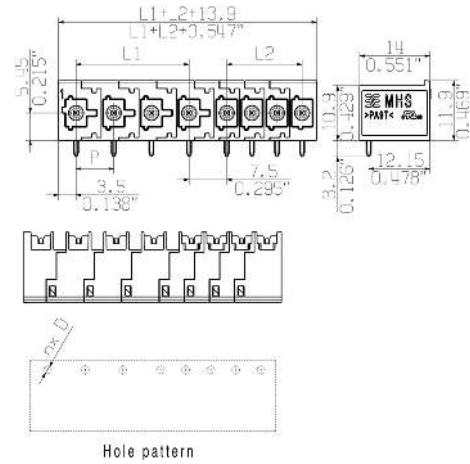
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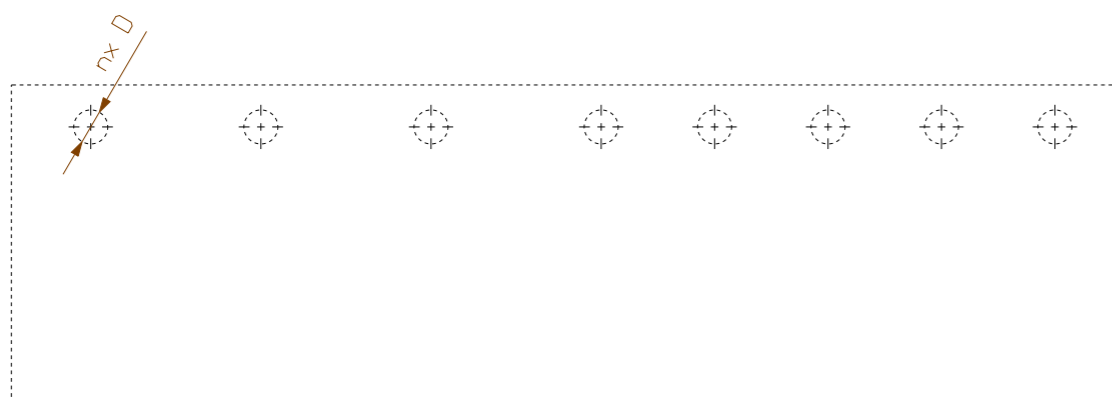
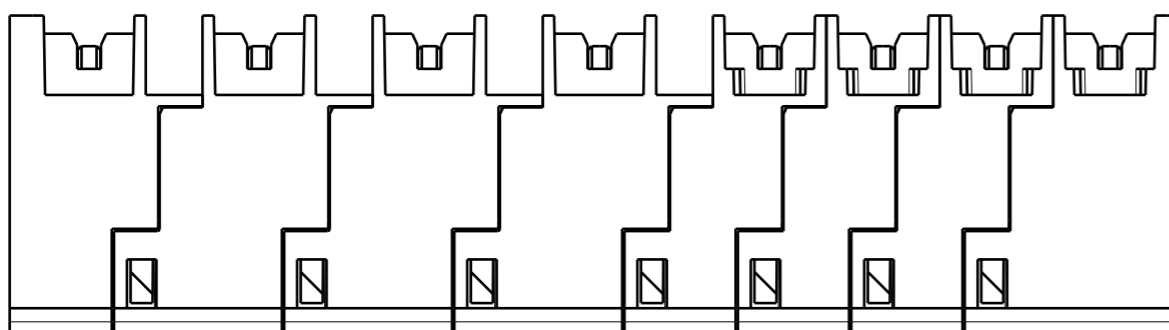
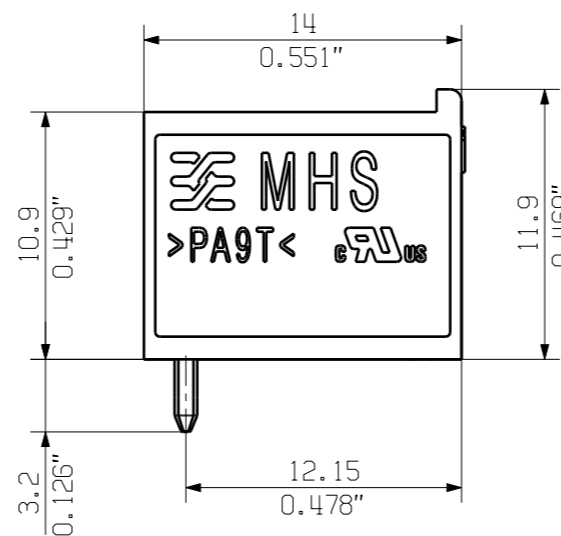
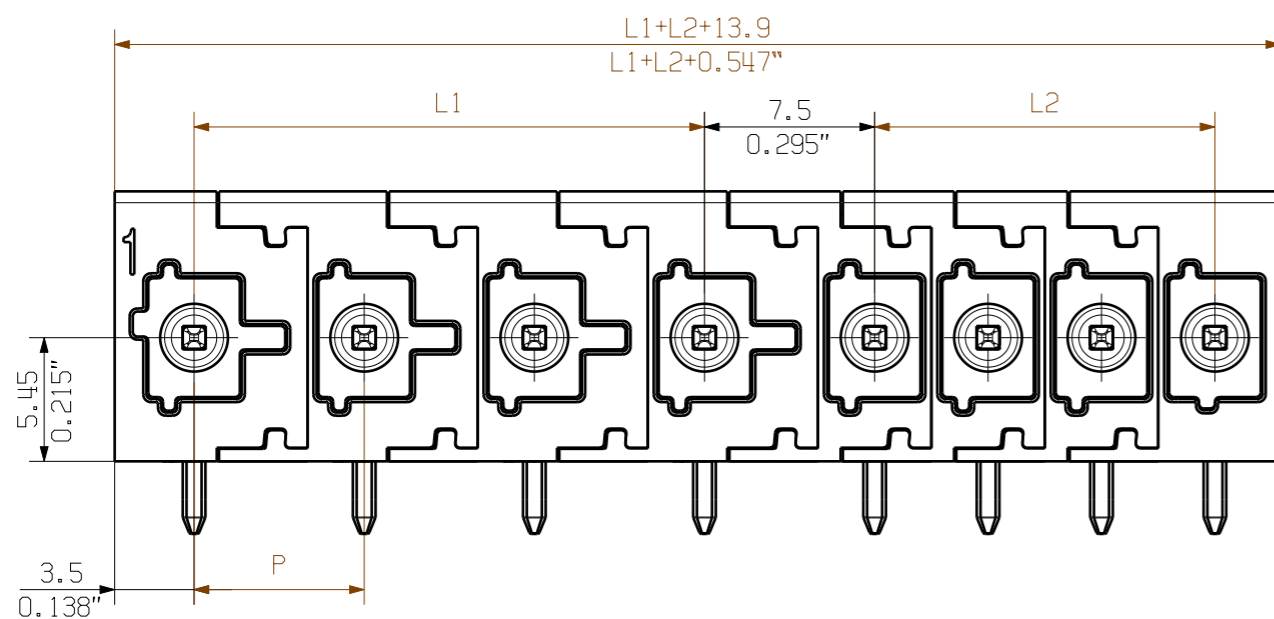
**Drawings**

**Product image**



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

Shown: MHS 7S/04-5/04 H T3

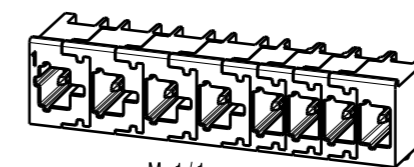


Hole pattern

For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components alone.  
 The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.  
 The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested according to the DIN EN 61984 or to the DIN EN 60947-7-4 standard, and are valid for its field of application.  
 Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

MHS 7S/01-5/09	1	.	.	9	40.00	1.575
MHS 7S/02-5/08	2	7.50	0.295	8	35.00	1.378
MHS 7S/01-5/08	1	.	.	8	35.00	1.378
MHS 7S/02-5/07	2	7.50	0.295	7	30.00	1.181
MHS 7S/01-5/07	1	.	.	7	30.00	1.181
MHS 7S/03-5/06	3	15.00	0.591	6	25.00	0.984
MHS 7S/02-5/06	2	7.50	0.295	6	25.00	0.984
MHS 7S/01-5/06	1	.	.	5	20.00	0.787
MHS 7S/04-5/05	4	22.50	0.886	5	20.00	0.787
MHS 7S/03-5/05	3	15.00	0.591	5	20.00	0.787
MHS 7S/02-5/05	2	7.50	0.295	5	20.00	0.787
MHS 7S/01-5/05	1	.	.	5	20.00	0.787
MHS 7S/04-5/04	4	22.50	0.886	4	15.00	0.591
MHS 7S/03-5/04	3	15.00	0.591	4	15.00	0.591
MHS 7S/02-5/04	2	7.50	0.295	4	15.00	0.591
MHS 7S/01-5/04	1	.	.	4	15.00	0.591
MHS 7S/05-5/03	5	30.00	1.181	3	10.00	0.394
MHS 7S/04-5/03	4	22.50	0.886	3	10.00	0.394
MHS 7S/03-5/03	3	15.00	0.591	3	10.00	0.394
MHS 7S/02-5/03	2	7.50	0.295	3	10.00	0.394
MHS 7S/01-5/03	1	.	.	3	10.00	0.394
MHS 7S/06-5/02	6	37.50	1.476	2	5.00	0.197
MHS 7S/05-5/02	5	30.00	1.181	2	5.00	0.197
MHS 7S/04-5/02	4	22.50	0.886	2	5.00	0.197
MHS 7S/03-5/02	3	15.00	0.591	2	5.00	0.197
MHS 7S/02-5/02	2	7.50	0.295	2	5.00	0.197
MHS 7S/01-5/02	1	.	.	2	5.00	0.197



M 1/1

Further dim. & info. see data sheet

Name	n Poles P=7.5	L1 [mm]	L1 [inch]	n Poles P=5	L2 [mm]	L2 [inch]
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	First Issue Date 21.04.2021	Max. nos.	Prim PLM Part No.:		Prim ERP Part No.:	
	Modification	Modification			<b>74534</b>	
	Drawn 21.04.2021 Tauber-Reglin,	Date	Name	Drawing no. <b>74534</b> Issue no. <b>0</b> Sheet 2 of 2 sheets		
	Responsible	21.04.2021	Tauber-Reglin,	<b>MHS 7S/...-5/... H T3</b>		
Scale: 3/1	Size: A3	Approved 06.05.2021	Schwiertz, Dom	Product file:		
Drawings Assembly						