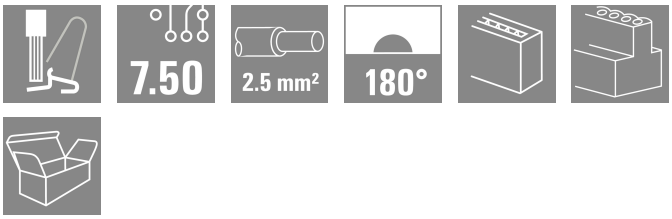
Data sheet

MPS 7S/08 S F4 TN B B

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

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Simply configuration of modular hybrid connectors

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- 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: 8, Box
Order No.	8000078359
Type	MPS 7S/08 S F4 TN B B
GTIN (EAN)	4064675622185
Qty.	30 items
Product data	IEC: 1000 V / 34.6 A / 0.5 - 4 mm² UL: 600 V / 18.5 A / AWG 20 - AWG 12
Packaging	Box

Data sheet

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Technical data

Approvals

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

Dimensions and weights

Depth	34.95 mm	Depth (inches)	1.376 inch
Height	17.5 mm	Height (inches)	0.689 inch
Width	58.3 mm	Width (inches)	2.2953 inch
Net weight	26.32 g		

Temperatures

Ambient temperature	-50 °C...125 °C

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

System Parameters

Product family	OMNIMATE 4.0	
Type of connection	Field connection	
Wire connection method	SNAP IN with lever	
Pitch in mm (P)	7.50 mm	
Pitch in inches (P)	0.295 "	
Conductor outlet direction	180°	
Number of poles	8	
L1 in mm	52.50 mm	
L1 in inches	2.067 "	
Number of rows	1	
Pin series quantity	1	
Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch	
Touch-safe protection acc. to DIN VDE 0470	IP 20	
Protection degree	IP20	
Stripping length	9 mm	
Stripping length tolerance	min.	8 mm
	max.	10 mm
Plugging cycles	25	
Plugging force/pole, max.	9 N	
Pulling force/pole, max.	8 N	

Material data

Insulating material	PBT GF	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy

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Contact surface	tinned	Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	125 °C		

Conductors suitable for connection

Clamping range, min.	0.34 mm²			
Clamping range, max.	4 mm²			
Wire connection cross section AWG, min.	AWG 20			
Wire connection cross section AWG, max.	AWG 12			
Solid, min. H05(07) V-U	0.5 mm²			
Solid, max. H05(07) V-U	2.5 mm²			
Flexible, min. H05(07) V-K	0.5 mm²			
Flexible, max. H05(07) V-K	4 mm²			
w. plastic collar ferrule, DIN 46228 pt 4, min.	0.34 mm²			
w. plastic collar ferrule, DIN 46228 pt 4, max.	2.5 mm²			
w. wire end ferrule, DIN 46228 pt 1, min.	0.34 mm²			
w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm²			
Outer diameter of insulation, max.	4.00 mm			
Clampable conductor	Cross-section for conductor connection	nominal	0.34 mm²	
	wire end ferrule	Stripping length	nominal	10 mm
		Recommended wire-end ferrule	H0,34/12 TK	
	Cross-section for conductor connection	nominal	0.5 mm²	
	wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H0,5/16 OR	
		Stripping length	nominal	10 mm
		Recommended wire-end ferrule	H0,5/10	
	Cross-section for conductor connection	nominal	0.75 mm²	
	wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H0,75/16 W	
		Stripping length	nominal	10 mm
		Recommended wire-end ferrule	H0,75/10	
	Cross-section for conductor connection	nominal	1 mm²	
	wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H1,0/16 GE	
		Stripping length	nominal	10 mm
		Recommended wire-end ferrule	H1,0/10	
	Cross-section for conductor connection	nominal	1.5 mm²	
	wire end ferrule	Stripping length	nominal	12 mm
		Recommended wire-end ferrule	H1,5/16 R	
		Stripping length	nominal	10 mm
		Recommended wire-end ferrule	H1,5/10	
	Cross-section for conductor connection	nominal	2.5 mm²	
	wire end ferrule	Stripping length	nominal	10 mm

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		Recommended wire-end ferrule	H2,5/15D BL
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	H2,5/10
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)	34.6 A
Rated current, max. number of poles (Tu=20°C)	29.1 A	Rated current, min. number of poles (Tu=40°C)	30.7 A
Rated current, max. number of poles (Tu=40°C)	25.9 A	Rated voltage for surge voltage class / pollution degree II/2	1000 V
Rated voltage for surge voltage class / pollution degree III/2	1000 V	Rated voltage for surge voltage class / pollution degree III/3	630 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	6 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	8 kV

Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	600 V	Rated voltage (Use group C / UL 1059)	600 V
Rated voltage (Use group D / UL 1059)	600 V	Rated voltage (Use group F / UL 1059)	1000 V
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	Rated current (Use group F / UL 1059)	18.5 A
Wire cross-section, AWG, min.	AWG 20	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

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	• Rated current related to rated cross-section & min. No. of poles. • P on drawing = pitch • 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. • Wire end ferrule without plastic collar to DIN 46228/1 • In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load • Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

ETIM 8.0	EC002638	ETIM 9.0	EC002638
ETIM 10.0	EC002638	ECLASS 14.0	27-46-02-02
ECLASS 15.0	27-46-02-02		

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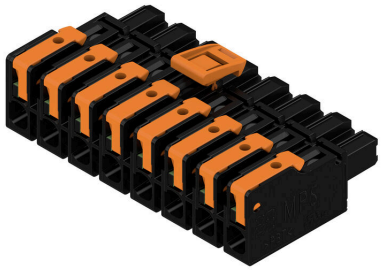
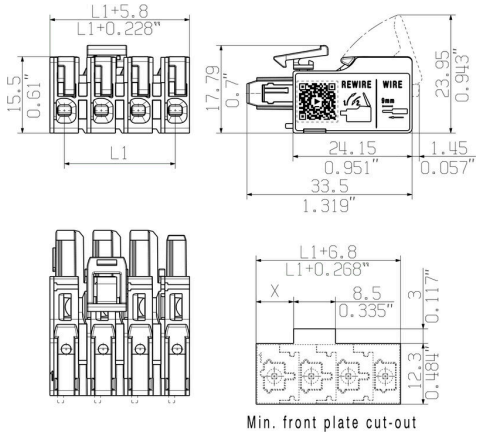
Drawings

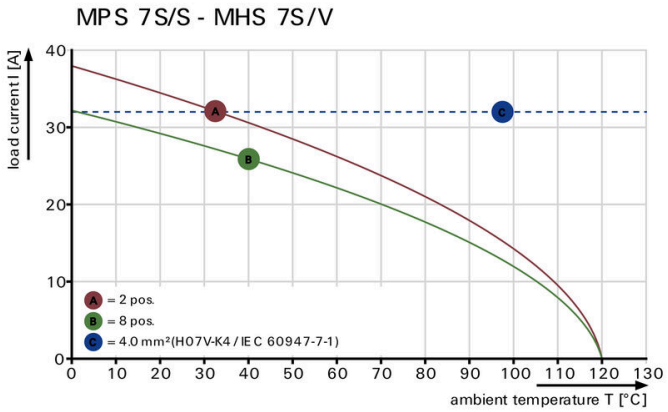
Product image



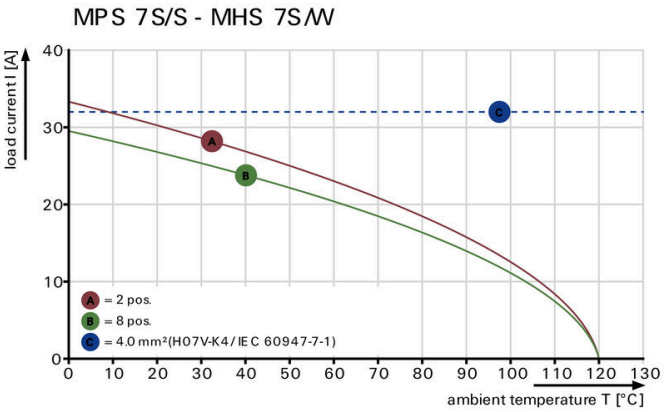
Dimensional drawing



Derating curve

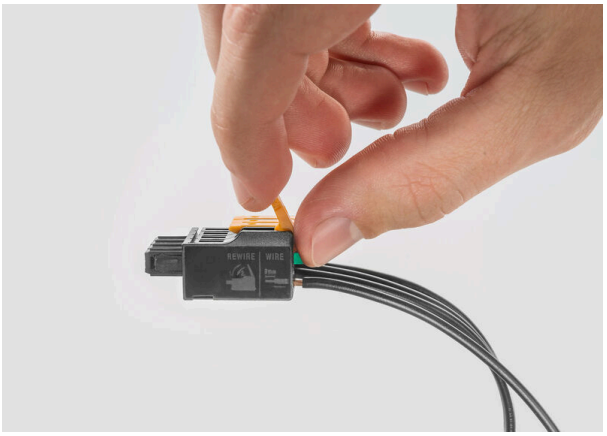


Derating curve



Product benefits

Product benefits



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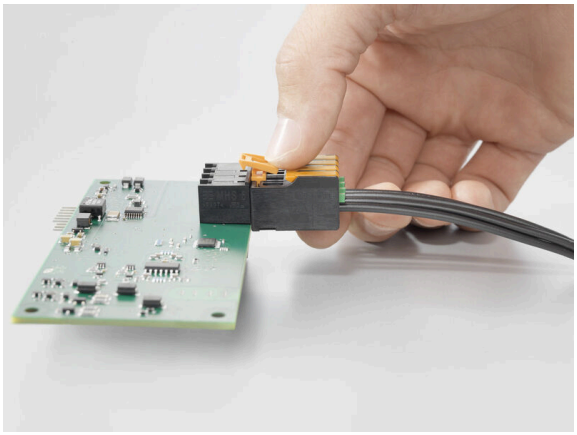
Product benefits



Easy one-handed use of top-fixation

Product benefits

Fastest connection technology SNAP IN

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Counterpart

180° / Vertical

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General ordering data

Type	MHS 7S/08 V T3 B T	Version
Order No.	8000078320	PCB plug-in connector, male header, THT/THR solder connection,
GTIN (EAN)	4064675620983	Pitch in mm (P): 7.50 mm, Number of poles: 8, 180°, Tube
Qty.	9 ST	

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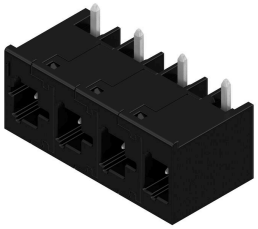
Counterpart

270° / Horizontal



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General ordering data

Type	MHS 7S/08 W T3 B T	Version
Order No.	8000078327	PCB plug-in connector, male header, THT/THR solder connection,
GTIN (EAN)	4064675622543	Pitch in mm (P): 7.50 mm, Number of poles: 8, 270°, Tube
Qty.	9 ST	

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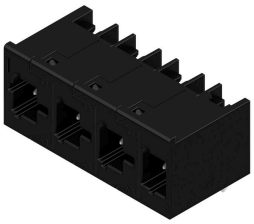
Counterpart

90° / Horizontal



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General ordering data

Type	MHS 7S/08 H T3 B T	Version
Order No.	8000078313	PCB plug-in connector, male header, THT/THR solder connection,
GTIN (EAN)	4064675622383	Pitch in mm (P): 7.50 mm, Number of poles: 8, 90°, Tube
Qty.	9 ST	