

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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# **Product image**



















The sturdy, direct connection for extreme current and voltage requirements in all power electronics applications such as solar inverters, frequency converters, servo-controllers and power supplies.

## **General ordering data**

Version	Printed circuit board terminals, 7.50 mm, Number of poles: 3, 90°, Solder pin length (I): 5 mm, tinned, black, PUSH IN without actuator, Clamping range, max.: 6 mm², Box
Order No.	<u>2473010000</u>
Туре	LLFS 7.50/03/90V 5.0SN BK BX
GTIN (EAN)	4050118658132
Qty.	80 items
Product data	IEC: 1000 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 600 V / 37 A / AWG 24 - AWG 8
Packaging	Вох





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# **Technical data**

Approvals	c <b>FL</b> *us
ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (cURus)	E60693

## **Dimensions and weights**

Depth	20.05 mm	Depth (inches)	0.7894 inch
Height	30.56 mm	Height (inches)	1.2031 inch
Height of lowest version	25.56 mm	Width	23.5 mm
Width (inches)	0.9252 inch	Net weight	11.25 g

## **Environmental Product Compliance**

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

### **System parameters**

Product family	OMNIMATE Power - series LL	Wire connection method	PUSH IN without actuator
Mounting onto the PCB	THT solder connection	Conductor outlet direction	90°
Pitch in mm (P)	7.50 mm	Pitch in inches (P)	0.295 "
Number of poles	3	Pin series quantity	1
Fitted by customer	No	Number of rows	1
Solder pin length (I)	5 mm	Solder pin dimensions	d = 1.5 mm
Solder eyelet hole diameter (D)	2 mm	Solder eyelet hole diameter tolerance ([	D)+ 0,1 mm
Number of solder pins per pole	1	Stripping length	12 mm
L1 in mm	15.00 mm	L1 in inches	0.590 "
Touch-safe protection acc. to DIN VDE 0470	IP 20	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Protection degree	IP20		

### **Material data**

Wemid (PA)	Colour	black
RAL 9011	Insulating material group	I
≥ 108 Ω	Moisture Level (MSL)	
V-0	Contact material	Cu-alloy
tinned	Layer structure of solder connection	410 μ Sn matt
-40 °C	Storage temperature, max.	70 °C
-40 °C	Operating temperature, max.	120 °C
	RAL 9011 ≥ 108 Ω V-0 tinned -40 °C	RAL 9011       Insulating material group         ≥ 108 Ω       Moisture Level (MSL)         V-0       Contact material         tinned       Layer structure of solder connection         -40 °C       Storage temperature, max.

## **Conductors suitable for connection**

Clamping range, min.	0.25 mm <sup>2</sup>
Clamping range, max.	6 mm <sup>2</sup>
Solid, min. H05(07) V-U	0.5 mm <sup>2</sup>
Solid, max. H05(07) V-U	6 mm <sup>2</sup>
Stranded, min. H07V-R	0.5 mm <sup>2</sup>
Flexible, min. H05(07) V-K	0.5 mm <sup>2</sup>
Flexible, max. H05(07) V-K	6 mm <sup>2</sup>

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w.	рl	astic	col	lar	ferrule	, DIN	46228	pt 4,	0.25 n	nm²
mi	n.									

w. plastic collar ferrule, DIN 46228 pt 4, 6 mm<sup>2</sup>

max.

w. wire end ferrule, DIN 46228 pt 1, 0.25 mm<sup>2</sup>

min

w. wire end ferrule, DIN 46228 pt 1, 6 mm<sup>2</sup>

max.

Clampable conductor

Cross-section for conductor connection	Туре	fine-wired
	nominal	0.5 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 14 mm
	Recommended wire- end ferrule	H0,5/18 OR
Cross-section for conductor connection	Type	fine-wired
	nominal	1 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 15 mm
	Recommended wire- end ferrule	H1,0/18 GE
Cross-section for conductor connection	Туре	fine-wired
	nominal	1.5 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 15 mm
	Recommended wire- end ferrule	H1,5/18D SW
	Stripping length	nominal 12 mm
	Recommended wire- end ferrule	H1,5/12
Cross-section for conductor connection	Туре	fine-wired
	nominal	0.75 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 14 mm
	Recommended wire- end ferrule	H0,75/18 W
Cross-section for conductor connection	Type	fine-wired
	nominal	2.5 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 14 mm
	Recommended wire- end ferrule	H2,5/19D BL
	Stripping length	nominal 12 mm
	Recommended wire- end ferrule	H2,5/12
Cross-section for conductor connection	Туре	fine-wired
	nominal	4 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 12 mm
	Recommended wire- end ferrule	H4,0/12
	Stripping length	nominal 14 mm
	Recommended wire- end ferrule	H4,0/20D GR
Cross-section for conductor connection	Туре	fine-wired
	nominal	6 mm <sup>2</sup>
wire end ferrule	Stripping length	nominal 14 mm
	Recommended wire- end ferrule	H6,0/20 SW
	Stripping length	nominal 12 mm
	Recommended wire-	H6,0/12

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)





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# **Technical data**

Rated data acc. to IE	(	ΙF	ı	to	1	c	c	a	ta	la	6	d	te	at	R
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tested acc. to standard	In accordance with IEC 60947-7-1	Rated current, min. number of poles (Tu=20°C)	41 A
Rated current, max. number of poles (Tu=20°C)	34 A	Rated current, min. number of poles (Tu=40°C)	37 A
Rated current, max. number of poles (Tu=40°C)	29 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	1000 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	8 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	8 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	8 kV		

## Rated data acc. to CSA

Rated voltage (Use group B / CSA)	600 V	Rated voltage (Use group C / CSA)	600 V
Rated voltage (Use group D / CSA)	600 V	Rated current (Use group B / CSA)	37 A
Rated current (Use group C / CSA)	37 A	Rated current (Use group D / CSA)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8

## 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 current (Use group B / UL 1059)	37 A
Rated current (Use group C / UL 1059)	37 A	Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

## **Packing**

Packaging	Box	VPE length	220.00 mm
VPE width	211.00 mm	VPE height	46.00 mm

## Type tests

Test: Durability of markings	Standard	IEC 60947-7-4 section 7.1.4 / 08.13	
	Test	mark of origin, type identification, type o material, pitch, durability, stripping lengtl	
	Evaluation	available	
Test: Clampable cross section	Standard	IEC 60999-1 section 7 and 9.1 / 11.99, IEC 60947-1 section 8.2.4.5.1 / 03.11	
	Conductor type	Type of conductor solid 0.5 mm <sup>2</sup> and conductor cross-section	
		Type of conductor stranded 0.5 mm <sup>2</sup> and conductor cross-section	
		Type of conductor solid 6 mm <sup>2</sup> and conductor cross-section	
		Type of conductor stranded 6 mm <sup>2</sup> and conductor cross-section	
		Type of conductor AWG 24/19 and conductor cross-section	

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		Type of conductor AWG 24/1 and conductor cross-section
		Type of conductor AWG 10/1 and conductor cross-section
		Type of conductor AWG 10/19 and conductor cross-section
		Type of conductor H07V-K10 and conductor cross-section
	Evaluation	passed
est for damage to and accidental cosening of conductors	Standard	IEC 60999-1 section 9.4 / 11.99, IEC 60999-1 section 9.5 / 11.99
	Requirement	0.3 kg
	Conductor type	Type of conductor H05V-K0.5 and conductor cross-section
		Type of conductor H05V-U0.5 and conductor cross-section
	Evaluation	passed
	Requirement	0,4 kg
	Conductor type	Type of conductor H07V-K1 and conductor cross-section
		Type of conductor H07V-U1 and conductor cross-section
	Evaluation	passed
	Requirement	0.7 kg
	Conductor type	Type of conductor H07V-K2.5 and conductor cross-section
		Type of conductor H07V-U2.5 and conductor cross-section
	Evaluation	passed
	Requirement	0.9 kg
	Conductor type	Type of conductor H07V-K4 and conductor cross-section
		Type of conductor H07V-U4.0 and conductor cross-section
	Evaluation	passed
	Requirement	1.4 kg
	Conductor type	Type of conductor H07V-K6 and conductor cross-section
		Type of conductor H07V-U6 and conductor cross-section
	Evaluation	passed
ull-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Requirement	≥20 N
	Conductor type	Type of conductor H05V-K0.5 and conductor cross-section
		Type of conductor H05V-U0.5 and conductor cross-section



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# **Technical data**

Evaluation	passed	
Requirement	≥50 N	
Conductor type	Type of conductor H07V-K2.5 and conductor cross-section	
	Type of conductor H07V-U2.5 and conductor cross-section	
Evaluation	passed	-
Requirement	≥60 N	
Conductor type	Type of conductor H07V-K4 and conductor cross-section	
	Type of conductor H07V-U4.0 and conductor cross-section	
Evaluation	passed	
Requirement	≥80 N	
Conductor type	Type of conductor H07V-K6 and conductor cross-section	
	Type of conductor H07V-U6 and conductor cross-section	
Evaluation	passed	
Requirement	≥35 N	
Conductor type	Type of conductor H07V-K1 and conductor cross-section	
	Type of conductor H07V-U1 and conductor cross-section	
Evaluation	passed	

## 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

- Additional variants on request
- Rated current related to rated cross-section & min. No. of poles.
- Wire end ferrule without plastic collar to DIN 46228/1
- Wire end ferrule with plastic collar to DIN 46228/4
- 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.
- The test point can only be used as potential-pickup point.
- The single-position PCB terminal block can be used for voltages up to 1500 V (DC) and 1000 V (AC). The relevant device standard and the appropriate required clearances and creepage distances should be observed in the application
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

#### Classifications

			<u>'</u>
ETIM 6.0	EC002643	ETIM 7.0	EC002643
ETIM 8.0	EC002643	ETIM 9.0	EC002643
ETIM 10.0	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	ECLASS 12.0	27-46-01-01
ECLASS 13.0	27-46-01-01	ECLASS 14.0	27-46-01-01
ECLASS 15.0	27-46-01-01		

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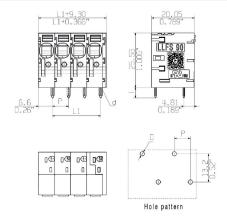
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# **Drawings**

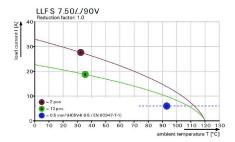
## **Product image**



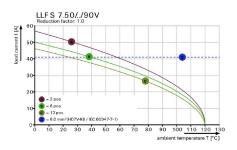
# **Dimensional drawing**



# **Derating curve**



## **Derating curve**



### **Product benefits**



Power up to UL 600 VOffset solder pins

### **Product benefits**



Tool-free wiringTop contact security



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# **Accessories**

#### Slotted screwdriver



VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

### **General ordering data**

Туре	SDIS 0.5X3.0X100	Version
Order No.	9008380000	Screwdriver, Screwdriver
GTIN (EAN)	4032248056347	
Qty.	1 ST	
Туре	SDS 0.5X3.0X80	Version
Type Order No.	SDS 0.5X3.0X80 9008320000	Version Screwdriver, Screwdriver

### **Additional accessories**



No task is too small when creating the perfect solution. Connections form just one part of the overall process. Small details are often the key to the perfect solution in applications where potentials are tested, grouped or even isolated.

A system is not a system without small but essential details:

Test plugs ensure reliable pick-up from diagnostic sockets

In tandem with the manufacturing process and application.

#### **General ordering data**

	- · · · <b>J</b> · · · · ·	
Туре	PS 2.0 MC	Version
Order No.	0310000000	PCB plug-in connector, Accessories, Test plug, red, Number of poles:
GTIN (EAN)	4008190000059	1
Qty.	20 ST	

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# **Accessories**

#### **Tools**



- Stripping tools with automatic self-adjustment
- For flexible and solid conductors
- Ideally suitable for mechanical and plant engineering, railway and rail traffic, wind energy, robot technology, explosion protection as well as marine, offshore and ship building sectors
- Stripping length adjustable via end stop
- Automatic opening of clamping jaws after stripping
- No fanning-out of individual conductors
- Adjustable to diverse insulation thicknesses
- Double-insulated cables in two process steps without special adjustment
- No play in self-adjusting cutting unit
- Long service life
- · Optimised ergonomic design

### **General ordering data**

Туре	STRIPAX
Order No.	9005000000
GTIN (EAN)	4008190072506
Qty.	1 ST

Version

Tools, Stripping and cutting tool