

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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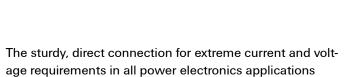












such as solar inverters, frequency converters, servo-con-

### **General ordering data**

trollers and power supplies.

Version	Printed circuit board terminals, 7.50 mm, Number of poles: 1, 180°, Solder pin length (I): 5 mm, tinned, black, PUSH IN without actuator, Clamping range, max.: 6 mm², Box
Order No.	<u>2491110000</u>
Туре	LLFS 7.50/01/180 5.0SN BK BX
GTIN (EAN)	4050118579420
Qty.	200 items
Product data	IEC: 1000 V / 41 A / 0.5 - 6 mm <sup>2</sup> UL: 1000 V / 37 A / AWG 24 - AWG 8
Packaging	Вох





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# **Technical data**

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	Dimensions and weights				
Depth (inches)	0.7283 inch				
Height (inches)	1.1476 inch				
Width	9.3 mm				
Net weight	3.78 g				
	Height (inches) Width				

#### **Environmental Product Compliance**

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

#### **System parameters**

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Product family	OMNIMATE Power - series LL	Wire connection method	PUSH IN without actuator
Mounting onto the PCB	THT solder connection	Conductor outlet direction	180°
Pitch in mm (P)	7.50 mm	Pitch in inches (P)	0.295 "
Number of poles	1	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	2	Stripping length	12 mm
L1 in mm	0.00 mm	L1 in inches	0.000 "
Touch-safe protection acc. to DIN VDE	IP 20	Touch-safe protection acc. to DIN VDE	Safe from finger touch
0470		57 106	
Protection degree	IP20		

#### **Material data**

Insulating material	Wemid (PA)	Colour	black
Colour chart (similar)	RAL 9011	Insulating material group	I
Moisture Level (MSL)		UL 94 flammability rating	V-0
Contact material	Cu-alloy	Contact surface	tinned
Layer structure of solder connection	410 μ Sn matt	Storage temperature, min.	-40 °C
Storage temperature, max.	70 °C	Operating temperature, min.	-40 °C
Operating temperature, max.	120 °C		

#### **Conductors suitable for connection**

Clamping range, min.	0.25 mm <sup>2</sup>
Clamping range, max.	6 mm <sup>2</sup>
Wire connection cross section AWG, min.	AWG 24
Wire connection cross section AWG, max.	AWG 8
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>
1 .: II ( 1 DIN 40000 :	4.0.05

w. plastic collar ferrule, DIN 46228 pt 4, 0.25 mm<sup>2</sup> min.





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w. plastic collar ferrule, DIN 46228 pt max.	4, 6 mm <sup>2</sup>		
w. wire end ferrule, DIN 46228 pt 1, min.	0.25 mm <sup>2</sup>		
w. wire end ferrule, DIN 46228 pt 1, max.	6 mm <sup>2</sup>		
Clampable conductor	Cross-section for conductor connection	Type	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	Туре	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	Туре	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	Type	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	Type	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- end ferrule	H6,0/12
Reference text	Length of ferrules is to be chosen depending diameter of the plastic collar should not be la	on the product and the rate rger than the pitch (P)	d voltage., The outside

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# **Technical data**

Rated data acc. to IEC

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)	41 A	Rated current, min. number of poles (Tu=40°C)	41 A
Rated current, max. number of poles (Tu=40°C)	41 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	600 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	6 kV
Rated impulse voltage for surge voltage class/ contamination degree III/3	6 kV		

#### Rated data acc. to CSA

Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	1000 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	37 A
Rated current (Use group C / CSA)	37 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8

### Rated data acc. to UL 1059

Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	150 V
Rated voltage (Use group D / UL 1059)	300 V	Rated voltage (Use group E / UL 1059)	1000 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)	10 A	Rated current (Use group E / UL 1059)	37 A
Wire cross-section, AWG, min.	AWG 24	Wire cross-section, AWG, max.	AWG 8

### **Packing**

Packaging	Box	VPE length	214.00 mm
VPE width	210.00 mm	VPE height	48.00 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 of material, pitch, durability, stripping length		
	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		
		Type of conductor AWG 24/1 and conductor cross-section		

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# **Technical data**

		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	
Test for damage to and accidental loosening of conductors	Standard	IEC 60999-1 section 9.4 / 11.99, IEC 60999-7 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	
Pull-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	
	Evaluation	passed	
	Requirement	≥50 N	



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# **Technical data**

Conductor type	Type of conductor and conductor cross-section	H07V-K2.5	
	Type of conductor and conductor cross-section	H07V-U2.5	
Evaluation	passed		
Requirement	≥60 N		
Conductor type	Type of conductor and conductor cross- section	H07V-K4	
	Type of conductor and conductor cross- section	H07V-U4.0	
Evaluation	passed		
Requirement	≥80 N		
Conductor type	Type of conductor and conductor cross- section	H07V-K6	
	Type of conductor and conductor cross-section	H07V-U6	
Evaluation	passed		
Requirement	≥35 N		
Conductor type	Type of conductor and conductor cross-section	H07V-K1	
	Type of conductor and conductor cross-section	H07V-U1	
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
- $\bullet$  Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

#### **Classifications**

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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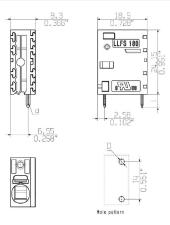
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# **Drawings**

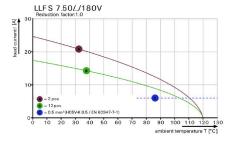
### **Product image**



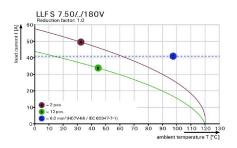
### **Dimensional drawing**



### **Derating curve**



### **Derating curve**



#### **Product benefits**



Power up to UL 600 VOffset solder pins

#### **Product benefits**



Tool-free wiringTop contact security