



Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Product image

























This PCB terminal provides connections for 1000 V, 76 A and 16 mm² conductor cross-section with proven clamping yoke connection at 12.7 mm pitch, conductor outlet direction in 90° design.

General ordering data

Printed circuit board terminals, 12.70 mm, Number of poles: 2, 90°, Solder pin length (I): 3.2 mm, tinned, Pebble grey, Clamping yoke connection, Clamping range, max.: 16 mm², Box
<u>1839180000</u>
LUP 12.70/02/90 3.2SN GY BX
4032248349289
20 items
IEC: 1000 V / 76 A / 0.5 - 16 mm ² UL: 600 V / 65 A / AWG 22 - AWG 6
Вох





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Technical data

Approvals

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

Dimensions and weights

Depth	25.1 mm	Depth (inches)	0.9882 inch
Height	34.7 mm	Height (inches)	1.3661 inch
Height of lowest version	31.5 mm	Width	23.66 mm
Width (inches)	0.9315 inch	Net weight	20.5 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 LUP	Wire connection method	Clamping yoke connection
Mounting onto the PCB	THT solder connection	Conductor outlet direction	90°
Pitch in mm (P)	12.70 mm	Pitch in inches (P)	0.500 "
Number of poles	2	Pin series quantity	1
Fitted by customer	Yes	Number of rows	1
Max. adjacent poles per row	12	Solder pin length (I)	3.2 mm
Solder pin dimensions	1.2 x 1.2 mm	Solder eyelet hole diameter (D)	1.6 mm
Solder eyelet hole diameter tolerance ([D)+ 0,1 mm	Number of solder pins per pole	2
Screwdriver blade	1.0 x 5.5, PZ 2	Screwdriver blade standard	DIN 5264
Tightening torque, min.	1.2 Nm	Tightening torque, max.	1.5 Nm
Clamping screw	M 4	Stripping length	12 mm
L1 in mm	12.70 mm	L1 in inches	0.500 "
Touch-safe protection acc. to DIN VDE 0470	IP20 plugged/ IP10 unplugged	Touch-safe protection acc. to DIN VDE 57 106	Safe from finger touch
Protection degree	IP20	Volume resistance	0.50 mΩ

Material data

Insulating material	Wemid (PA)	Colour	Pebble grey
Colour chart (similar)	RAL 7032	Insulating material group	I
Comparative Tracking Index (CTI)	≥ 600	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Layer structure of solder connection	1.53 μm Ni / 46 μm Sn matt
Storage temperature, min.	-40 °C	Storage temperature, max.	70 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	120 °C
Temperature range, installation, min.	-25 °C	Temperature range, installation, max.	120 °C

Conductors suitable for connection

Clamping range, min.	0.13 mm ²
Clamping range, max.	16 mm²
Wire connection cross section AWG,	AWG 22
min.	

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Wire connection cross section AWG,	AWG 6		
max.			
Solid, min. H05(07) V-U	0.5 mm ²		
Solid, max. H05(07) V-U	16 mm ²		
Stranded, min. H07V-R	6 mm ²		
Stranded, max. H07V-R	16 mm ²		
Flexible, min. H05(07) V-K	0.5 mm ²		
Flexible, max. H05(07) V-K	16 mm ²		
w. plastic collar ferrule, DIN 46228 pt 4 min.	4, 2.5 mm²		
w. plastic collar ferrule, DIN 46228 pt 4 max.	4, 10 mm²		
w. wire end ferrule, DIN 46228 pt 1, min.	2.5 mm ²		
w. wire end ferrule, DIN 46228 pt 1, max.	10 mm²		
Plug gauge in accordance with EN 60999 a x b; ø	5.4 mm x 5.1 mm; 5.3 mm		
Clampable conductor	Cross-section for conductor connection	Туре	fine-wired
-		nominal	2.5 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire-	H2,5/12
		Stripping length	nominal 14 mm
		Recommended wire-	H2,5/19D BL
	Cross-section for conductor connection	Type	fine-wired
		nominal	4 mm ²
	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 ²
	wire end ferrule	Stripping length	nominal 12 mm
	Who one for the	Recommended wire- end ferrule	H6,0/12
		Stripping length	nominal 14 mm
		Recommended wire-	H6,0/20 SW
	Cross-section for conductor connection	Туре	fine-wired
	The second secon	nominal	10 mm ²
	wire end ferrule	Stripping length	nominal 15 mm
		Recommended wire- end ferrule	H10,0/22 EB
		Stripping length	nominal 12 mm
		Recommended wire- end ferrule	H10,0/12
Reference text	Length of ferrules is to be chosen depending diameter of the plastic collar should not be lar	on the product and the rate	d voltage., The outside

Rated data acc. to IEC

tested acc. to standard	IEC 60664-1, IEC 61984	Rated current, min. number of poles (Tu=20°C)	76 A
Rated current, max. number of poles (Tu=20°C)	74 A	Rated current, min. number of poles (Tu=40°C)	76 A





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Rated current, max. number of poles 64 A (Tu=40°C)	Rated voltage for surge voltage class / 1000 V pollution degree II/2
Rated voltage for surge voltage class / 1000 V pollution degree III/2	Rated voltage for surge voltage class / 1000 V pollution degree III/3
Rated impulse voltage for surge voltage 6 kV class/ pollution degree II/2	Rated impulse voltage for surge voltage 8 kV class/ pollution degree III/2
Rated impulse voltage for surge voltage 8 kV class/ contamination degree III/3	Short-time withstand current resistance 1 x 1s with 700 A

Rated data acc. to CSA

Rated voltage (Use group B / CSA)	600 V	Rated voltage (Use group C / CSA)	600 V
Rated current (Use group B / CSA)	65 A	Rated current (Use group C / CSA)	65 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 6

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 current (Use group B / UL 1059)	65 A	Rated current (Use group C / UL 1059)	65 A
Wire cross-section, AWG, min.	AWG 22	Wire cross-section, AWG, max.	AWG 6
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	146.00 mm
VPE width	127.00 mm	VPE height	47.00 mm

Type tests

Test: Durability of markings	Standard	DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96	
	Test	mark of origin, type identification, type of material, approval marking UL, durability	
	Evaluation	available	
	Standard	DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96	
	Test	approval marking CSA, approval marking SEV	
Test: Clampable cross section	Standard	DIN EN 60999-1 section 7 and 9.1 / 12.00, D EN 60947-1 section 8.2.4.5.1 / 12.02	
	Conductor type	Type of conductor solid 0.5 mm ² and conductor cross-section	
		Type of conductor stranded 0.5 mm ² and conductor cross-section	
		Type of conductor solid 16 mm ² and conductor cross-section	
		Type of conductor stranded 16 mm ² and conductor cross-section	
		Type of conductor AWG 22/1 and conductor cross-section	
		Type of conductor AWG 22/19 and conductor cross-section	



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Technical data

		Type of conductor AWG 6/1 and conductor cross-section
		Type of conductor AWG 6/19 and conductor cross-section
	Evaluation	passed
est for damage to and accidental	Standard	DIN EN 60999-1 section 9.4 / 12.00
loosening of conductors	Requirement	0.2 kg
	Conductor type	Type of conductor AWG 22/1 and conductor cross-section
		Type of conductor AWG 22/19 and conductor cross-section
	Evaluation	passed
	Requirement	0.3 kg
	Conductor type	Type of conductor solid 0.5 mm ² and conductor cross-section
		Type of conductor stranded 0.5 mm ² and conductor cross-section
	Evaluation	passed
	Requirement	2.9 kg
	Conductor type	Type of conductor solid 16 mm ² and conductor cross-section
		Type of conductor stranded 16 mm ² and conductor cross-section
		Type of conductor AWG 6/7 and conductor cross-section
	Evaluation	passed
II-out test	Standard	DIN EN 60999-1 section 9.5 / 12.00
	Requirement	≥15 N
	Conductor type	Type of conductor AWG 22/1 and conductor cross-section
		Type of conductor AWG 22/19 and conductor cross-section
	Evaluation	passed
	Requirement	≥20 N
	Conductor type	Type of conductor H05V-U0.5 and conductor cross-section
		Type of conductor H05V-K0.5 and conductor cross-section
	Evaluation	passed
	Requirement	≥100 N
	Conductor type	Type of conductor H07V-K16 and conductor cross-section
		Type of conductor H07V-U16 and conductor cross-section
		Type of conductor AWG 6/7 and conductor cross-section
	Evaluation	passed





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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 The data given under CSA relates to a cUL approval - E60693 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. • Long term storage of the product with average temperature of 50 °C and maximum humidity

70%, 36 months

Classifications

			1
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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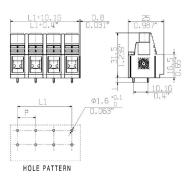
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Drawings

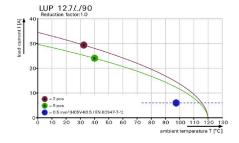
Product image

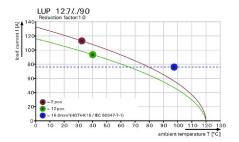


Dimensional drawing



Graph Graph







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Accessories

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

Туре	•	PS 2.0 MC	Version	
Orde	er No.	0310000000	PCB plug-in connector, Accessories, Test plug, red, Number of poles:	
GTIN	l (EAN)	4008190000059	1	
Qty.		20 ST		

Intermediate plates



The maximum voltage is based on the minimum distance. Intermediate plates increase the creepage and clearance distances between different potentials and permit higher rated voltages or a clear separation, e.g. between mains and low voltages or different protection zones.

The dovetail joint enables easy installation and guarantees a secure fit. Other characteristics include:

- Pitch extended by 1.27 or 2.54mm all other combinations possible
- Colour coding ensures visual differentiation
- Different geometries for standard designs. Incomplete individual assemblies avoided because separate terminal blocks combine to form a single holistic unit. Ready-assembled on request.

The advantages: efficient processing, increased stability, improved reliability.

General ordering data

Туре	LUP ZP 2.54 GY	Version
Order No.	<u>1837580000</u>	Printed circuit board terminals, Accessories, Intermediate plate,
GTIN (EAN)	4032248347315	Pebble grey, Number of poles: 1
Qty.	50 ST	

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