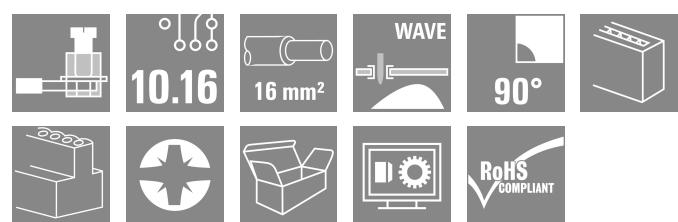
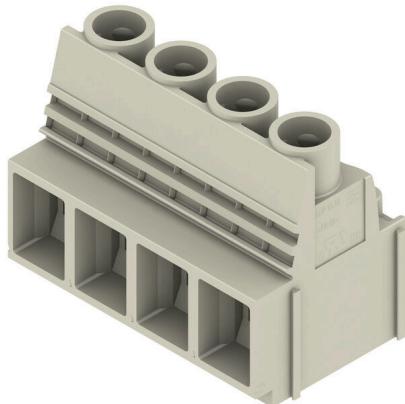


LUP 10.16/04/90 3.2SN GY BX

Weidmüller Interface GmbH & Co. KG
Klingenbergsstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image

This PCB terminal provides connections for 1000 V, test point, 76 A and 16 mm² conductor cross-section with proven clamping yoke connection at 10.16 mm pitch, conductor outlet direction in 90° design.

General ordering data

Version	Printed circuit board terminals, 10.16 mm, Number of poles: 4, 90°, Solder pin length (l): 3.2 mm, tinned, Pebble grey, Clamping yoke connection, Clamping range, max. : 16 mm ² , Box
Order No.	1839290000
Type	LUP 10.16/04/90 3.2SN GY BX
GTIN (EAN)	4032248349791
Qty.	20 items
Product data	IEC: 1000 V / 76 A / 0.5 - 16 mm ² UL: 300 V / 58 A / AWG 26 - AWG 6
Packaging	Box

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Technical data

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
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	41.44 mm
Width (inches)	1.6315 inch	Net weight	38.65 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)	10.16 mm	Pitch in inches (P)	0.400 "
Number of poles	4	Pin series quantity	1
Fitted by customer	Yes	Number of rows	1
Max. adjacent poles per row	12	Solder pin length (l)	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	30.48 mm	L1 in inches	1.200 "
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	1.5...3 µm Ni / 4...6 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 mm ²

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Technical data

Wire connection cross section AWG, min. AWG 22

Wire connection cross section AWG, max. AWG 6

Solid, min. H05(07) V-U 0.5 mm²

Solid, max. H05(07) V-U 16 mm²

Stranded, min. H07V-R 6 mm²

Stranded, max. H07V-R 16 mm²

Flexible, min. H05(07) V-K 0.5 mm²

Flexible, max. H05(07) V-K 16 mm²

w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm² min.

w. plastic collar ferrule, DIN 46228 pt 4, 10 mm² max.

w. wire end ferrule, DIN 46228 pt 1, 2.5 mm² min.

w. wire end ferrule, DIN 46228 pt 1, 10 mm² max.

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

Type fine-wired

nominal 2.5 mm²

wire end ferrule

Stripping length nominal 12 mm

Recommended wire-end ferrule [H2.5/12](#)

Stripping length nominal 14 mm

Recommended wire-end ferrule [H2.5/19D BL](#)

Cross-section for conductor connection

Type fine-wired

nominal 4 mm²

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 mm²

wire end ferrule

Stripping length nominal 12 mm

Recommended wire-end ferrule [H6.0/12](#)

Stripping length nominal 14 mm

Recommended wire-end ferrule [H6.0/20 SW](#)

Cross-section for conductor connection

Type fine-wired

nominal 10 mm²

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 on the product and the rated voltage., 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)	76 A
Rated current, max. number of poles (Tu=20°C)	72 A	Rated current, min. number of poles (Tu=40°C)	72 A

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Technical data

Rated current, max. number of poles (Tu=40°C)	62 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	800 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 impulse voltage for surge voltage class/ contamination degree III/3	8 kV	Short-time withstand current resistance	1 x 1s with 700 A

Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1198743
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group C / CSA)	300 V
Rated voltage (Use group D / CSA)	600 V	Rated current (Use group B / CSA)	58 A
Rated current (Use group C / CSA)	58 A	Rated current (Use group D / CSA)	5 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.		

Rated data acc. to UL 1059

Institute (cURus)	CURUS	Certificate No. (cURus)	E60693
Rated voltage (Use group B / UL 1059)	300 V	Rated voltage (Use group C / UL 1059)	300 V
Rated voltage (Use group D / UL 1059)	600 V	Rated current (Use group B / UL 1059)	58 A
Rated current (Use group C / UL 1059)	58 A	Rated current (Use group D / UL 1059)	5 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 6
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	225.00 mm
VPE width	105.00 mm	VPE height	39.00 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, DIN 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

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Technical data

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

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Technical data

	Type of conductor and conductor cross-section	H07V-U16
	Type of conductor and conductor cross-section	AWG 6/7
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
- 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.
- The test point can only be used as potential-pickup point.
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

ETIM 8.0	EC002643	ETIM 9.0	EC002643
ETIM 10.0	EC002643	ECLASS 14.0	27-46-01-01
ECLASS 15.0	27-46-01-01		

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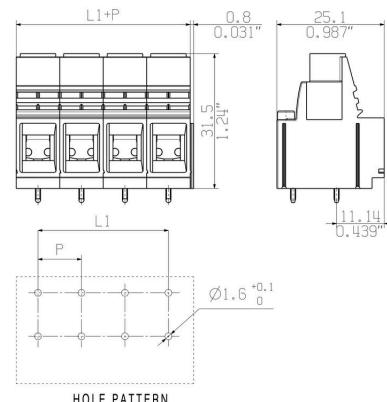
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Drawings

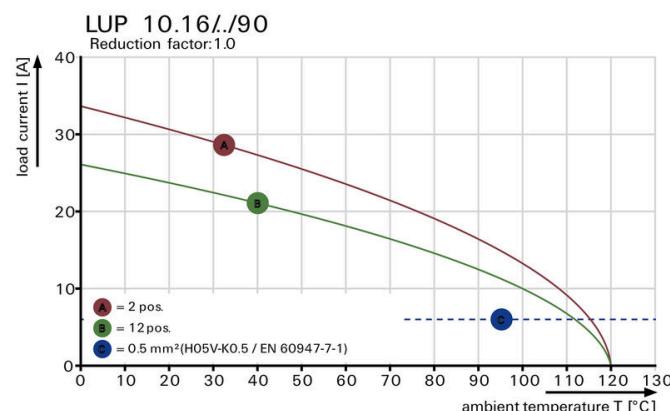
Product image



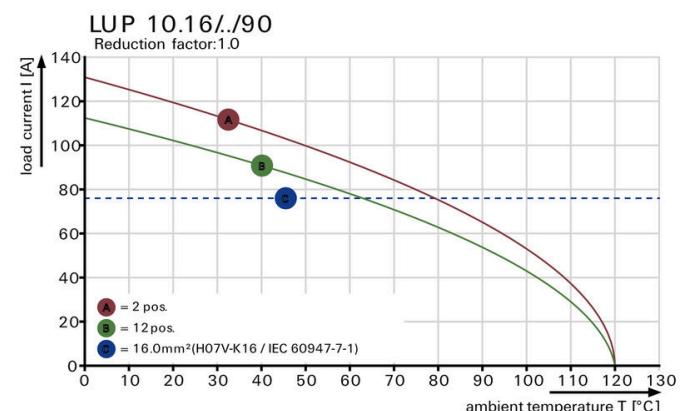
Dimensional drawing



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

Type	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	

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

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