

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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This PCB terminal provides connections for 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: 3, 90°, Solder pin length (I): 3.2 mm, tinned, Pebble grey, Clamping yoke connection, Clamping range, max.: 16 mm², Box
Order No.	<u>1635930000</u>
Туре	LU 10.16/03/90 4STI 3.2SN GY BX
GTIN (EAN)	4008190273453
Qty.	20 items
Product data	IEC: 1000 V / 76 A / 0.5 - 16 mm ² UL: 300 V / 65 A / AWG 26 - AWG 6
Packaging	Вох



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Technical data

Approvals

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А	n	n	r	n١	/a	ıs



ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (UR)	E60693

Dimensions and weights

Depth	18.3 mm	Depth (inches)	0.7205 inch
Height	31.7 mm	Height (inches)	1.248 inch
Height of lowest version	28.5 mm	Width	30.48 mm
Width (inches)	1.2 inch	Net weight	26.93 g

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption	
REACH SVHC	No SVHC above 0.1 wt%	
Product Carbon Footprint	Cradle to gate	0.204 kg CO2eq.

System parameters

Product family	OMNIMATE Power - series LU	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	3	Pin series quantity	1
Fitted by customer	Yes	Number of rows	1
Max. adjacent poles per row	10	Solder pin length (I)	3.2 mm
Solder pin dimensions	1.2 x 1.2 mm	Solder pin dimensions = d tolerance	0 / -0,15 mm
Solder eyelet hole diameter (D)	1.6 mm	Solder eyelet hole diameter tolerance (D)+ 0,1 mm	
Number of solder pins per pole	4	Screwdriver blade	1.0 x 5.5
Screwdriver blade standard	DIN 5264	Tightening torque, min.	1.2 Nm
Tightening torque, max.	2.2 Nm	Clamping screw	M 4
Stripping length	12 mm	L1 in mm	20.32 mm
L1 in inches	0.800 "	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

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Conductors suitable for connection

Reference text	Length of ferrules is to be chosen depending	end ferrule	
		Recommended wire-	H10,0/12
		end ferrule Stripping length	nominal 12 mm
		Recommended wire-	H10,0/22 EB
	wire end ferrule	Stripping length	nominal 15 mm
		nominal	10 mm ²
	Cross-section for conductor connection	Туре	fine-wired
		end ferrule	110,0/20 000
		Recommended wire-	H6,0/20 SW
		Stripping length	nominal 14 mm
		Recommended wire- end ferrule	<u>H6,0/12</u>
	wire end ferrule	Stripping length	nominal 12 mm
		nominal	6 mm ²
	Cross-section for conductor connection	Туре	fine-wired
		end ferrule	
		Recommended wire-	H4,0/20D GR
		Stripping length	nominal 14 mm
		end ferrule	
	VIII O ONG TOTTUIO	Recommended wire-	H4,0/12
	wire end ferrule	Stripping length	nominal 12 mm
	Cross section for conductor confidential	nominal	4 mm ²
	Cross-section for conductor connection	Type	fine-wired
		Recommended wire- end ferrule	H2,5/19D BL
		Stripping length	nominal 14 mm
		end ferrule	
		Recommended wire-	H2,5/12
	wire end ferrule	Stripping length	nominal 12 mm
		nominal	2.5 mm ²
Clampable conductor	Cross-section for conductor connection	Туре	fine-wired
Plug gauge in accordance with EN 60999 a x b; ø	5.4 mm x 5.1 mm; 5.3 mm		
nax.	E 4 mans v E 1 mans E 2 mans		
min. w. wire end ferrule, DIN 46228 pt 1,	10 mm²		
v. wire end ferrule, DIN 46228 pt 1,	2.5 mm ²		
w. plastic collar ferrule, DIN 46228 pt a max.	4, 10 mm²		
min.			
w. plastic collar ferrule, DIN 46228 pt	4, 2.5 mm²		
Flexible, max. H05(07) V-K	16 mm ²		
Flexible, min. H05(07) V-K	0.5 mm ²		
Stranded, max. H07V-R	16 mm ²		
Stranded, min. H07V-R	6 mm ²		
Solid, min. H05(07) V-U	16 mm ²		
max. Solid, min. H05(07) V-U	0.5 mm ²		
min. Wire connection cross section AWG,	AWG 8		
Wire connection cross section AWG,	AWG 22		
Clamping range, max.	16 mm²		
Clamping range, min.	0.14 mm ²		





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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)	76 A
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	690 V	Rated voltage for surge voltage class / pollution degree III/3	690 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 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	Short-time withstand current resistance	2 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)	150 V
Rated voltage (Use group D / CSA)	300 V	Rated current (Use group B / CSA)	65 A
Rated current (Use group C / CSA)	65 A	Rated current (Use group D / CSA)	10 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 (UR)	UR	Certificate No. (UR)	E60693
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)	600 V	Rated current (Use group B / UL 1059)	65 A
Rated current (Use group C / UL 1059)	65 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	140.00 mm
VPE width	105.00 mm	VPE height	40.00 mm

Type tests

Test: Durability of markings	Test	mark of origin, type identification, type of material, rated cross-section, approval marking CSA, approval marking UL, pitch, durability	
	Evaluation	available	
Test: Clampable cross section	Standard	EN 60999/1993	
	Conductor type	Type of conductor H05V-K0.5 and conductor cross- section	
		Type of conductor H05V-U0.5 and conductor cross-section	
		Type of conductor H07V-K10 and conductor cross-section	
		Type of conductor H07V-U10 and conductor cross-section	

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LU 10.16/03/90 4STI 3.2SN GY BX

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Technical data

		Type of conductor H07V-U16 and conductor cross-section	
		Type of conductor AWG8/7 and conductor cross-section	
		Type of conductor AWG 8/19 and conductor cross-section	
		Type of conductor AWG 22/1 and conductor cross-section	
		Type of conductor AWG 22/19 and conductor cross-section	
	Evaluation	passed	
st for damage to and accidental	Standard	EN 60947-1/1991 section 8.2.4.3	
sening of conductors	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	
		Type of conductor AWG 22/1 and conductor cross-section	
		Type of conductor AWG 22/19 and conductor cross-section	
	Evaluation	passed	
	Requirement	2.0 kg	
	Conductor type	Type of conductor H07V-K10 and conductor cross-section	
		Type of conductor H07V-U10 and conductor cross-section	
		Type of conductor AWG8/7 and conductor cross-section	
		Type of conductor AWG 8/19 and conductor cross-section	
	Evaluation	passed	
	Requirement	2.9 kg	
	Conductor type	Type of conductor H07V-U16 and conductor cross-section	
	Evaluation	passed	
l-out test	Standard	EN 60947-1/1991 section 8.2.4.4	
	Requirement	≥20 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	≥30 N	
	Conductor type	Type of conductor H05V-K0.5 and conductor cross-section	



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Evaluation	Type of conductor and conductor cross- section passed	H05V-U0.5
Requirement	≥ 90N	
Conductor type	Type of conductor and conductor cross-section	H07V-K10
	Type of conductor and conductor cross-section	H07V-U10
	Type of conductor and conductor cross-section	AWG8/7
	Type of conductor and conductor cross-section	AWG 8/19
Evaluation	passed	
Requirement	≥100 N	
Conductor type	Type of conductor and conductor cross-section	H07V-U16
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.
- Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months

Classifications

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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		





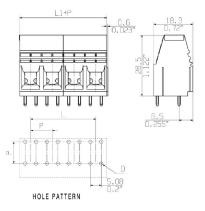
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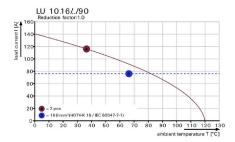
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Drawings

Dimensional drawing



Graph







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Accessories

Digits continuous



The dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a large range of ready-printed markers. Strips for fast installation in one work step. The printing is easy to read, rich in contrast, and is available in five widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terimal markers, suitable for all Weidmüller cable connectors
- Available as blank cards, MultiCard or as cards with standard printing

General ordering data

Туре	DEK 5 FW 2,4,100	Version
Order No.	<u>1358560000</u>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190075156	Weidmueller, white
Qty.	500 ST	