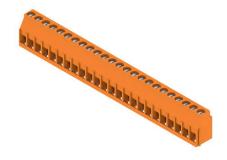


Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Product image























This PCB terminal provides connections for 32 A and 6 mm² conductor cross-section with the proven clamping-yoke connection, in 5.00 and 5.08 mm pitch. 90° conductor outlet direction.

General ordering data

Printed circuit board terminals, 5.08 mm, Number of poles: 24, 90°, Solder pin length (I): 3.2 mm, tinned, orange, Clamping yoke connection, Clamping range, max.: 6 mm², Box
1002050000
LL 5.08/24/90 3.2SN OR BX
4032248694013
20 items
IEC: 500 V / 32.5 A / 0.5 - 6 mm ² UL: 300 V / 20 A / AWG 26 - AWG 12
Вох



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Technical data

Approvals

Approvals



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

Dimensions and weights

Depth	11 mm	Depth (inches)	0.4331 inch
Height	20.3 mm	Height (inches)	0.7992 inch
Height of lowest version	17.1 mm	Width	122.57 mm
Width (inches)	4.8256 inch	Net weight	28.29 g

Environmental Product Compliance

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

System parameters

Product family	OMNIMATE Signal - series LL	Wire connection method	Clamping yoke connection
Property, clamping point	WireReady	Mounting onto the PCB	THT solder connection
Conductor outlet direction	90°	Pitch in mm (P)	5.08 mm
Pitch in inches (P)	0.200 "	Number of poles	24
Pin series quantity	1	Fitted by customer	Yes
Number of rows	1	Max. adjacent poles per row	24
Solder pin length (I)	3.2 mm	Solder pin dimensions	0.75 x 0.9 mm
Solder eyelet hole diameter (D)	1.3 mm	Solder eyelet hole diameter tolerance (D)+ 0,1 mm	
Number of solder pins per pole	1	Screwdriver blade	0.6 x 3.5
Screwdriver blade standard	DIN 5264	Tightening torque, min.	0.5 Nm
Tightening torque, max.	0.6 Nm	Clamping screw	M 3
Stripping length	6 mm	L1 in mm	116.84 mm
L1 in inches	4.600 "	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
Volume resistance	1.20 mΩ		

Material data

Insulating material	Wemid (PA)	Colour	orange
Colour chart (similar)	RAL 2000	Insulating material group	1
Comparative Tracking Index (CTI)	≥ 600	Moisture Level (MSL)	
UL 94 flammability rating	V-0	Contact material	Cu-alloy
Contact surface	tinned	Coating	4-6 μm SN
Tinning type	matt	Layer structure of solder connection	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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Technical data

Conductors suitable for connection

Conductors suitable for conn	ection	
Clamping range, min.	0.13 mm ²	
Clamping range, max.	6 mm ²	
Wire connection cross section AWG, min.	AWG 26	
Wire connection cross section AWG, max.	AWG 12	
Solid, min. H05(07) V-U	0.5 mm ²	
Solid, max. H05(07) V-U	6 mm ²	
Flexible, min. H05(07) V-K	0.5 mm ²	
Flexible, max. H05(07) V-K	4 mm ²	
w. plastic collar ferrule, DIN 46228 pt of min.	4, 0.5 mm ²	
w. plastic collar ferrule, DIN 46228 pt a max.	4, 2.5 mm ²	
w. wire end ferrule, DIN 46228 pt 1, min.	0.5 mm ²	
w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm ²	
Plug gauge in accordance with EN 60999 a x b; ø	2.8 mm x 2.4 mm; 3.0 mm	
Clampable conductor	Cross-section for conductor connection	Type fine-wired
		nominal 0.5 mm ²
	wire end ferrule	Stripping length nominal 8 mm
		Recommended wire- end ferrule
		Stripping length nominal 6 mm
		Recommended wire- end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 0.75 mm ²
	wire end ferrule	Stripping length nominal 8 mm
		Recommended wire- H0,75/12 W end ferrule
		Stripping length nominal 6 mm
		Recommended wire- end ferrule
	Cross-section for conductor connection	Type fine-wired
		nominal 1 mm ²
	wire end ferrule	Stripping length nominal 8 mm
		Recommended wire- H1,0/12 GE end ferrule
		Stripping length nominal 6 mm
		Recommended wire- H1,0/6 end ferrule
Reference text	Length of ferrules is to be chosen depending diameter of the plastic collar should not be lar	on the product and the rated 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)	32.5 A
Rated current, max. number of poles (Tu=20°C)	26 A	Rated current, min. number of poles (Tu=40°C)	27.5 A
Rated current, max. number of poles (Tu=40°C)	22 A	Rated voltage for surge voltage class / pollution degree II/2	500 V
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree III/3	250 V

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Technical data

Rated impulse voltage for surge voltage 4 kV class/ pollution degree II/2	Rated impulse voltage for surge voltage 4 kV class/ pollution degree III/2
Rated impulse voltage for surge voltage 4 kV	Short-time withstand current resistance 3 x 1s with 120 A
class/ contamination degree III/3	

Rated data acc. to CSA

Institute (CSA)	CSA	Certificate No. (CSA)	200039-1202191
Rated voltage (Use group B / CSA)	300 V	Rated voltage (Use group D / CSA)	300 V
Rated current (Use group B / CSA)	20 A	Rated current (Use group D / CSA)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
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 D / UL 1059)	300 V
Rated current (Use group B / UL 1059)	20 A	Rated current (Use group D / UL 1059)	10 A
Wire cross-section, AWG, min.	AWG 26	Wire cross-section, AWG, max.	AWG 12
Reference to approval values	Specifications are maximum values, details - see approval certificate.		

Packing

Packaging	Box	VPE length	140.00 mm
VPE width	86.00 mm	VPE height	67.00 mm

Type tests

Test: Durability of markings	Test	mark of origin, type identification, type of material, approval marking UL, approval markin CSA, durability		
	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 0.14 mm ² and conductor cross-section		
		Type of conductor stranded 0.14 mm ² and conductor cross-section		
		Type of conductor H07V-U4.0 and conductor cross-section		
		Type of conductor H07V-K4 and conductor cross-section		
		Type of conductor AWG 26/1 and conductor cross-section		
		Type of conductor AWG 26/19 and conductor cross-section		
		Type of conductor AWG 12/1 and conductor cross-section		
		Type of conductor AWG 12/19 and conductor cross-section		

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Technical data

	Evaluation	passed		
Test for damage to and accidental	Standard	IEC 60999-1 section 9.4 / 11.99		
loosening of conductors	Requirement	0.2 kg		
	Conductor type	Type of conductor AWG 26/1 and conductor cross-section		
		Type of conductor AWG 26/19 and conductor cross-section		
	Evaluation	passed		
	Requirement	0.3 kg		
	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	0.9 kg		
	Conductor type	Type of conductor H07V-U4.0 and conductor cross-section		
		Type of conductor H07V-K4.0 and conductor cross-section		
		Type of conductor AWG 12/1 and conductor cross-section		
		Type of conductor AWG 12/19 and conductor cross-section		
	Evaluation	passed		
ull-out test	Standard	IEC 60999-1 section 9.5 / 11.99		
	Requirement	≥10 N		
	Conductor type	Type of conductor AWG 26/1 and conductor cross-section		
		Type of conductor AWG 26/19 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	≥60 N		
	Conductor type	Type of conductor H07V-U4.0 and conductor cross-section		
		Type of conductor H07V-K4.0 and conductor cross-section		
		Type of conductor AWG 12/1 and conductor cross-section		
		Type of conductor AWG 12/19 and conductor cross-section		



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Technical data

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	 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

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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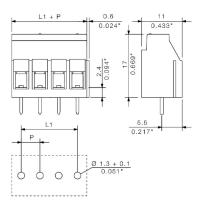
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Drawings

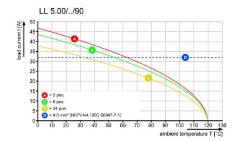
Product image

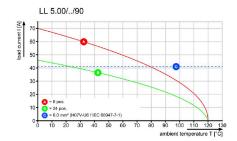


Dimensional drawing



Graph Graph





Graph

