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Technical Data

Rev.

Material data

Insulation material type	PA 66
Insulation material colours	orange/black
Insulation material flammability class	UL94 V - 2
Insulation resistance	10 ³ MOhm
Conatct base material	Cu-alloy
Contact plating	tin-plated

System characteristic values

Pitch P	mm/inch	3.5/0.138
Number of rows		2
Dielectric strength (r.m.s withstand voltage)	kV	>1.5
Through resistance (typical)	mOhm	2.2
Operating temperature range	°C	-55°...+100°
Degree of protection acc. to VDE 0106		finger safe
Degree of protection acc. to DIN EN 60529		IP20
Conductor connection method		clamping yoke
Screw size		M2
Screw torque max. acc. to EN 60999	Nm	0.2
Screw driver type		SDI 0.4x2.5
Solder pin length L	mm/inch	3.2/0.126
PCB hole diameter D (wave soldering)	mm/inch	1.3+0.1/0.051+0.004
PCB hole diameter D (reflow soldering)	mm/inch	n.a.
Resistance to soldering heat acc. to DIN IEC 60512-6	°C/sec	260/10
Resistance to soldering heat acc. to EN 61760-1	°C/sec	n.a.
Solderability classification acc. to EN 61760-1		n.a.
Solder connection type		wave soldering
Solder pin diameter d (max.)	mm/inch	1.22/0.048

Application notes

Coding possibility	yes/no	no
Joinable without loss of pitch	yes/no	no
Manual assembly of modules	yes/no	yes
Max. number of poles	n	48

Conductor

Clamping range	mm ²	0.08...1.5
"e" solid H05(07) V-U	mm ²	0.08...1.5
"f" flexible H05(07) V-K	mm ²	0.08...1.5
"f" with ferrule acc. to DIN 46228/1	mm ²	n.a.
... with plastic collar acc. to DIN 46228/4	mm ²	n.a.
Conductor insulation stripping length	mm/inch	5/0.197
Conductor insulation diameter max.	mm/inch	n.a.
Two wire clamping range	mm ²	0.5
Gauge to EN 60999 (a x b ; Ø)	mm	2.4x1.5

IEC 664-1 / VDE0110 (4.97) rated data

Rated cross section acc. to EN 60999	mm ²	1.5
Rated current @ 20°C ambient	A	10
Rated current @ 40°C ambient	A	8,5

Overvoltage category / Pollution degree

	III/3	III/2	II/2
Rated voltage	160	160	320
Rated impulse voltage	2.5	2.5	2.5

UL 1059 rated data



File No.: E60693

Rated voltage	B	C	D
	300	---	300
Rated current	10	---	10
AWG wire range (field wiring / factory wiring)	28...14		

CSA C22.2 rated data



File No.: LR12400

Rated voltage	B	C	D
	300	---	300
Rated current	10	---	10
AWG wire range (field wiring / factory wiring)	28...14		

Packaging

carton

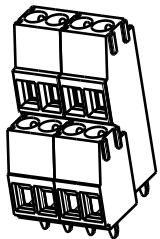
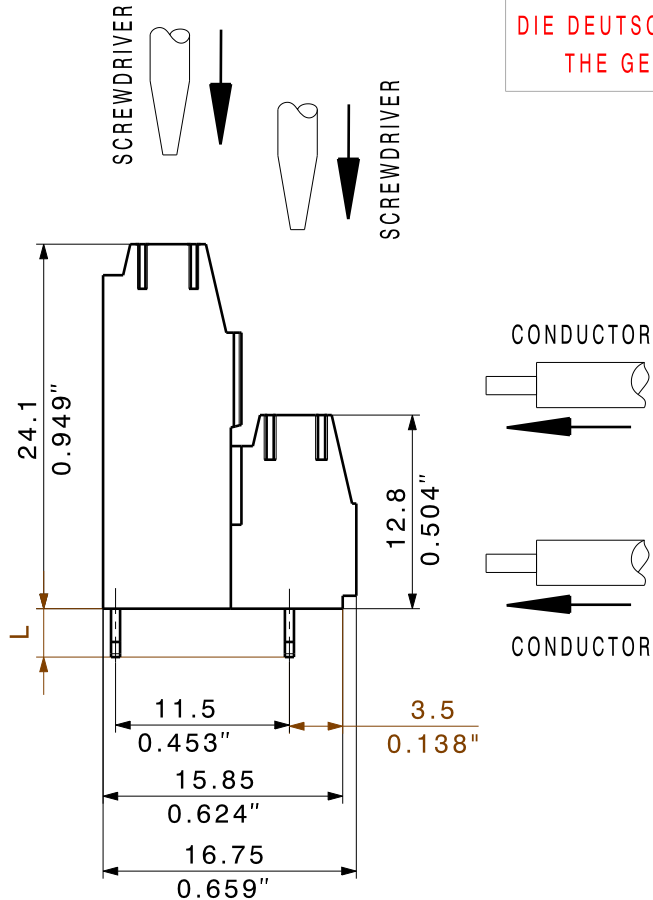
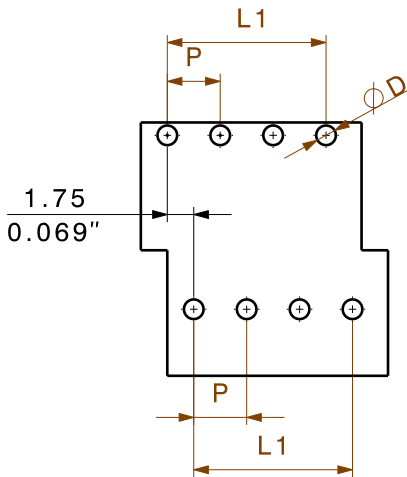
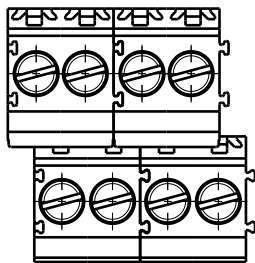
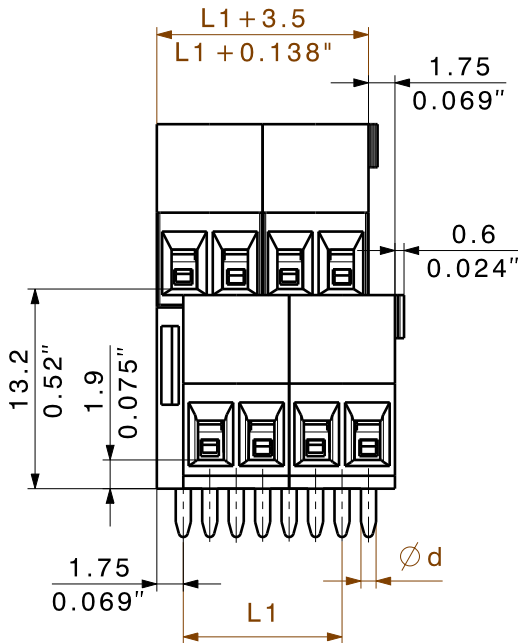
Downloads

www.weidmueller.de

- 1) Sum of ambient temperature and temperature rise
- 2) Recommendation for manual assembly
- 3) Recommendation for automatic assembly
- 4) Recommendation for wave soldering
- 5) Recommendation for reflow soldering
- 6) Referred to rated cross section and 12 pole number

n.a. = not applicable

Subject to technical changes



DIE DEUTSCHE VERSION IST VERBINDLICH
THE GERMAN VERSION IS BINDING

48	80,50	3,169
46	77,00	3,031
44	73,50	2,894
42	70,00	2,756
40	66,50	2,618
38	63,00	2,480
36	59,50	2,343
34	56,00	2,205
32	52,50	2,067
30	49,00	1,929
28	45,50	1,791
26	42,00	1,654
24	38,50	1,516
22	35,00	1,378
20	31,50	1,240
18	28,00	1,102
16	24,50	0,965
14	21,00	0,827
12	17,50	0,689
10	14,00	0,551
8	10,50	0,413
6	7,00	0,276
4	3,50	0,138
n	L1 [mm]	L1 [Inch]

SHOWN LM2N3.5/8/90

 METRIC TOLERANCES X. = ±0.3 X.X = ±0.1 X.XX = ±0.05	43264/5 17.06.09 HELIS_MA 00		Weidmüller  DRAWING NO. C 23209 08 SHEET 02 OF 03 SHEETS		
	MODIFICATION				
		DATE	NAME	LM2N 3.5/././90 LEITERPLATTENANSCHLUSSKLEMME PCB TERMINAL PRODUCT FILE: LM1N 3.5 1111	
	DRAWN	23.09.2008	HELIS_MA		
RESPONSIBLE		KRUG_M			
CHECKED	18.06.2009	HECKERT_M			
SCALE: 5/1	CHECKED	18.06.2009	HECKERT_M		
SUPERSEDES: .	APPROVED		HECKERT_M		

For the mounting of PCBs, it should be noted that the rated data stated here relates only to the PCB components alone.
The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 664 / VDE 0110.
The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller PCB components are tested to the DIN EN 61984 standard, and are valid for its field of application.
Provided that the components are used to the intended purpose, all requirements with respect to the occuring of electrical, mechanical, thermic and corrosive stress will be satisfied.