

Technical Data 06

Rev.

Material data

Insulation material type	PA 66/6(WEMID)
Insulation material colours	orange,black,green,grey
Insulation material flammability class	UL94
Insulation resistance	MOhm
Conatct base material	Cu-alloy
Contact plating	Tin-plated

System characteristic values

Pitch P	mm/inch	5.00/0.197 ; 5.08 / 0.200
Number of rows		1
Dielectric strength (r.m.s withstand voltage)	kV	>2.5
Through resistance (typical)	mOhm	1.7
Operating temperature range	°C	-55°...+120° 1)
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		M2.5
Screw torque max. acc. to EN 60999	Nm	0.4 - 0.5
Screwdriver type	⊖/⊕	SD 0.6 x 3.5 / SDK PZ0
Solder pin length L	mm/inch	3.5 / 0.138
PCB hole diameter D (wave soldering)	mm/inch	1.3+0.10/0.051+0.004 2)
PCB hole diameter D (reflow soldering)	mm/inch	n.a. 3)
Resistance to soldering heat acc. to DIN IEC 60512-6	°C/sec	260/10 4)
Resistance to soldering heat acc. to EN 61760-1	°C/sec	n.a. 5)
Solderability classification acc. to EN 61760-1		n.a.
Solder connection type		wave soldering
Solder pin diameter d (max.)	mm/inch	1.24/0.049

Application notes

Coding possibility	yes/no	no
Joinable without loss of pitch	yes/no	yes
Manual assembly of modules	yes/no	yes
Max. number of poles	n	24

Conductor

Clamping range	mm ²	0.20-2.5
"e" solid H05(07) V-U	mm ²	0.20-2.5
"f" flexible H05(07) V-K	mm ²	0.20-1.5
"f" with ferrule acc. to DIN 46228/1	mm ²	0.25-1.5
... with plastic collar acc. to DIN 46228/4	mm ²	0.25-1.5
Conductor insulation stripping length	mm/inch	6.0
Conductor insulation diameter max.	mm/inch	n.a.
Two wire clamping range	mm ²	n.a.
Gauge to EN 60999 (a x b ; Ø)	mm	2.4x1.5 (A1); Ø1.9 (B1)

IEC 664-1 / VDE0110 (4.97) rated data

Rated cross section acc. to EN 60999	mm ²	1.5	
Rated current @ 20°C ambient (min. pole , max. wire)	A	17.5	6)
Rated current @ 40°C ambient (min. pole , max. wire)	A	17.5	6)

Overvoltage category / Pollution degree

Rated voltage	V	250	320	630
Rated impulse voltage	kV	4.0	4.0	4.0

UL 1059 rated data **CFR** US File No.: E60693

Rated voltage	V	300	n.a.	300
Rated current	A	15	n.a.	10
AWG wire range (field wiring / factory wiring)		24-14		

CSA C22.2 rated data File No.: LR12400

Rated voltage	V	300	n.a.	300
Rated current	A	18	n.a.	10
AWG wire range (field wiring / factory wiring)		24-14		

Packaging

cardboard box

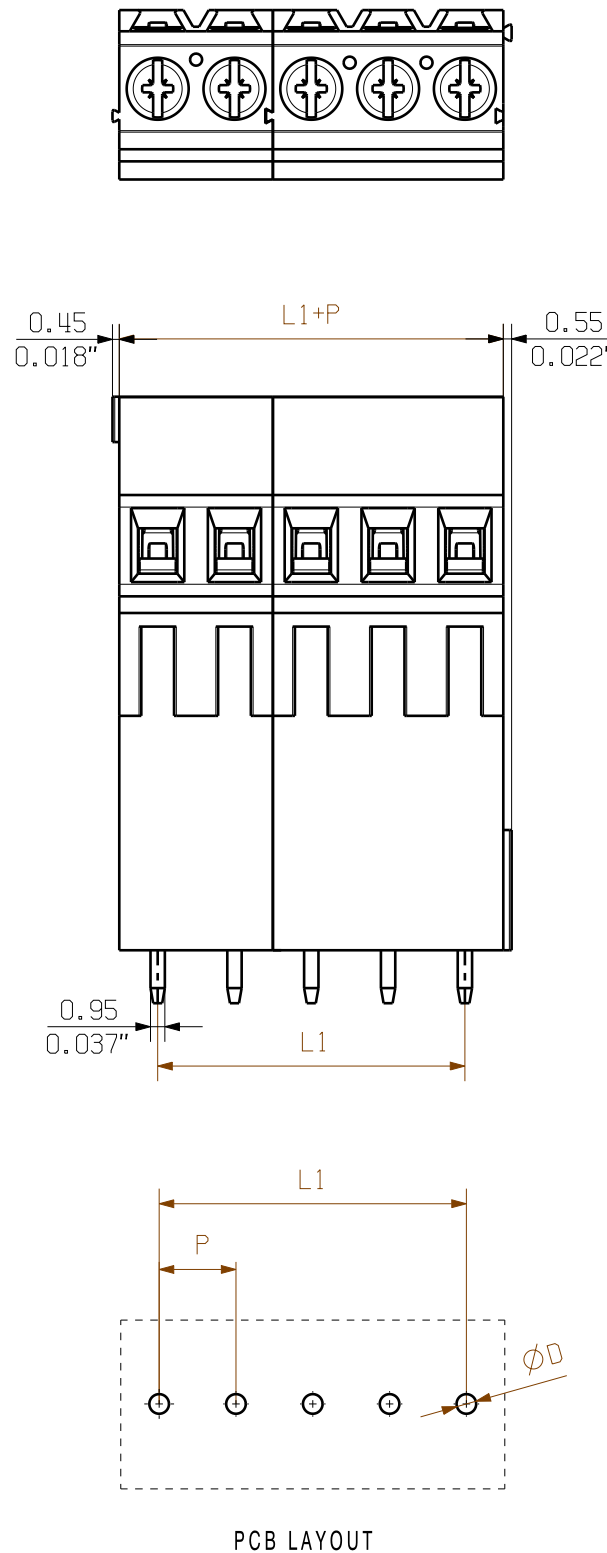
Downloads

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 minimum pole number

n.a. = not applicable

Subject to technical changes



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 occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

SHOWN: LM1H 5.08/5

METRIC TOLERANCES X. = ± 0.3 X.X = ± 0.1 X.XX = ± 0.05		71907/4 25.09.13 XIANG_K 00		CAT.NO.:	
		MODIFICATION		Weidmüller 	
SCALE: 2/1		DATE		C 41720 07	
SUPERSEDES: 4 29160/01		NAME		DRAWING NO. ISSUE NO.	
SUPERSEDED BY:		DRAWN		LM1H 5.08/... LEITERPLATTENKLEMME PCB TERMINAL	
APPROVED		RESPONSIBLE		PRODUCT FILE: LM1H 5.08 7065	
CHECKED		XU_S			
		GE_G			
		UDE_J			