XCFR2.E170166
Terminal Blocks - Component

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Guide Information

WEIDMUELLER INTERFACE GMBH & CO E170166
KLINGENBERGSTRASSE 16
32758 DETMOLD, GERMANY

Cat. No.	Wire Range	Wire Type	FW	TQ Lb In.	V	A	UG	CA
LM1H5.08/2 3.5 OR	12-24	CU	2	4.4	300	10	B,D	1,2(65),4
LM1H6.08/3 3.5 OR	12-24	CU	2	4.4	300	10	B,C	1,2(65),4
LM1H5.08/23.5SW								
LM1H5.08/33.5SW								
LM1H5.08/23.5GN								
LM1H5.08/33.5GN								
LM1N5.08/2 3.5 OR	12-24	CU	2	4.4	300	10	B,D	1,2(65),4
LM1N5.08/2 3.5 OR	12-24	CU	2	4.4	300	10	B,D	1,2(65),4
LM1N5.08/3 3.5 OR	12-24	CU	2	4.4	600	10	D	1,2(65),4
LM1N5.08/23.5SW								
LM1N5.08/33.5SW								
LM1N5.08/23.5GN								
LM1N5.08/33.5GN								
LM5.00/135	22-14	CU	1	7	300	10	D	1,2(65)
LM5.00/90,	22-14	CU	1	7	300	10	D	1,2(65)
LM5.00/180								
LL9.5/X/90	26-10	CU	2	7.0	300	30	B,C,D	2(130),4
LM5.00/X/90,	12-24	CU	2	4.4	300	10	B,D	1,2(65),4

LM5.00/X/180,								
LM5.00/X/135,								
LM5.08/X/90,								
LM5.08/X/180,								
LM5.08/X/135								
PM5.08/2/903.5GN,	14-24	CU	2	3.5	300	16	B,D	1,2(65),4
PM5.08/3/903.5GN,								
PM5.08/2/903.5OR,								
PM5.08/3/903.5OR,								
PM5.08/2/903.5SW,								
PM5.08/3/903.5SW								
PM5.00/2/903.5 OR	14-24	Cu	2	3.5	300	16	B,D	1,2(65),4
PM5.00/3/903.5 OR								
PM5.00/2/903.5 SW								
PM5.00/3/903.5 SW								
PM5.00/2/903.5 GN								
PM5.00/3/903.5 GN								
LMZF5.00/135	28-12	Cu	2	na	150	15	C	2(65),4

Marking: Company name and catalog designation (catalog designation may appear on shipping carton).

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The devices covered under this category are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN COMPLETE EQUIPMENT SUBMITTED TO UNDERWRITERS LABORATORIES INC.

USE

This category covers assemblies of wiring terminals and supporting blocks intended to provide a means for the connection of wiring. These terminal blocks may employ pressure terminal connectors, wire binding screws, quick-disconnect terminals and similar friction fit terminals, which are intended for factory wiring and/or field wiring connections.

Protective Conductor Terminal Blocks (PCTB) are for connecting protective earthing (grounding) *conductors to supports, such as mounting nails and the like. A PCTB is marked with the international* symbol for ground, "G," "GR," "GND," "Ground," "Grounding" or the like. In addition, the insulation of a partially insulated PCTB is colored green or green/yellow.

These terminal blocks have been tested in accordance with UL 1059, "Terminal Blocks," to define performance levels in order to facilitate evaluation of their use in end-product applications. These performance levels include ratings for voltage, current, wire size and type, torque (if applicable), suitability for factory-wiring only or field wiring, and use group. Certain Conditions of Acceptability are also specified.

The suitability of the connections to the terminal block shall be determined in the end-use application.

Power Distribution Blocks for field installation in a building to separate units such as apartments, separate heaters and air conditioning units are investigated to Subject 1953, "Outline of Investigation for Power Distribution Blocks." Also see Power Distribution Blocks (QPQS) in the Electrical Construction Equipment Directory.

The following statements explain the tabular information:

Wire Range — The wire size or range of wire sizes for which a terminal block has been evaluated. Unless specifically noted for solid or stranded only, the wire size or range specified is for both solid and stranded.

Wire Type — The conductor material for which the terminal block has been investigated. "CU" represents copper wire only, "AL" represents aluminum wire only. "AL-CU" or "CU-AL" indicates use with aluminum, copper or copper-clad aluminum conductors. The "7" or "9" associated with the wire type represents the temperature rating (75°C or 90°C) of the wire connector.

Factory and/or Field Wiring (FW) — These terminal blocks are rated for: Code 1, factory wiring only, or Code 2, both factory and field wiring. When used with Listed terminal connectors, such as spade and ring types (See CA #5), the termination is for factory wiring only, Code 1. The suitability of the connection (including spacings between factory connectors) shall be determined in the end-use application.

Unless noted with a CA 4 in the last column, a pressure wire terminal connector suitable for field wiring has been evaluated using UL 486A, "Wire Connectors and Soldering Lugs for Use with Copper Conductors" or UL 486B, "Wire Connectors for Use with Aluminum Conductors."

When Code 1 and Code 2 terminals are intermixed on the same terminal block, both codes will be used with suitable indication for which terminal each code applies, i.e., 1/2.

Torque (TQ) — The tightening torque(s) for a field-wiring pressure wire connector terminal other than a wire-binding screw, stud and nut type, or quick-connect type. If rated for factory wiring, this torque is only the manufacturer's recommended value.

Voltage (V) — Terminal blocks have voltage ratings for which they have been found acceptable. A terminal block may have several voltage ratings that relate to the different use groups and spacing levels as tabulated under "Use Group."

Current (A) — A maximum value of per-pole current for which the terminal block has been found acceptable.

Use Group (UG) — The type of end-use application for which the specified voltage and spacing level applies.

Use Group	Application	Max V Rating	Spacing * In.	
			Through Air or Oil	Over Surface
A	Service, including deadfront switchboards, panelboards, service equipment, and the like	150	1/2	3/4**
		300	3/4**	1-1/4**
		600	1	2**
B	Commercial appliances, including business equipment, electronic data processing equipment, and the like	150	1/16***	1/16***
		300	3/32***	3/32***
		600	3/8	1/2
C	Industrial, general	150	1/8***	1/4
		300	1/4***	3/8

		600	3/8	1/2
D	Industrial, devices having limited ratings****	300	1/16***	1/8***
		600	3/16***	3/8
E	Greater than 600 V	1000	0.55	0.70
		1500	0.85	1.20

*Spacings between (1) uninsulated live parts of opposite polarity and (2) uninsulated live parts and uninsulated grounded parts other than the enclosure or exposed metal parts.

**The spacing through air and over surface between live parts and grounded metal parts including the enclosure is not less than 1/2 in. for 51-250 V and 1 in. for 251-600 V.

***The spacing between wiring terminals of opposite polarity and the spacing between a wiring terminal and a grounded dead metal part is not less than 1/4 in. if short-circuiting or grounding of such terminals may result from projecting strands of wire.

****These spacings are applicable to a terminal block for use only in or with industrial control equipment where the load on any single circuit of the terminal block does not exceed 15 A at 51-150 V, 10 A at 151-300 V, 5 A at 301-600 V, or the maximum amp rating, whichever is less.

CONDITIONS OF ACCEPTABILITY

Unless specified otherwise in the individual Recognitions, consideration is to be given to the following Conditions of Acceptability when these components are employed in end-use products. The following Conditions of Acceptability apply when the item number is specified in the last column. The number in parentheses following an item number is used in that Condition of Acceptability statement. Unique Conditions of Acceptability are indicated in the individual Recognition reports.

1. This terminal block may be used only where steel is acceptable for current-carrying parts.

2. The insulating bodies are molded of materials having a maximum temperature rating of ( )C. The use of these materials shall be judged in the end-use application.

3. These terminal blocks use a No. ( ) wire binding screw. The suitability of this size screw shall be considered during the end-use product investigation.

4. The field wiring terminals of this terminal block have been evaluated using UL 486E, "Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors." The suitability of these terminals shall be determined in the end-use investigation.

5. The terminal block is intended to be used with Listed pressure terminal connectors, such as ring and fork types, on the end of the conductor before attachment to the terminal block.

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