

File E63492
Project 88NK26045

March 15, 1989

REPORT

on

COMPONENT - TERMINAL BLOCK

Adels-Contact Elektrotechnische
Fabrik GmbH & Co., KG
Bergisch Gladbach, Federal Republic of Germany

Copyright © 1989 Underwriters Laboratories Inc.

Underwriters Laboratories Inc. authorizes the above named company to reproduce this Report provided it is reproduced in its entirety.

Underwriters Laboratories Inc. authorizes the above named company to reproduce that portion of this Report consisting of this Cover Page through Page 2.

D E S C R I P T I O NPRODUCT COVERED:

* Component terminal blocks, Cat. Nos. 1500, 2000, followed by one or two digit number, **followed by K or blank, followed by M or blank, followed by DS or blank**, followed by suffix HT, GW **or blank**.

GENERAL CHARACTER AND USE:

The terminal blocks covered by this Report are intended for use in the following applications and within the ratings specified.

Application -

Commercial appliances (such as business and EDP equipment, etc.)

General industrial (such as motor controllers, pushbutton stations, etc.)

Terminal Type - Pressure Wire Connector

Type Wiring - Factory and field wiring.

RATINGS:

Cat. No.	Max	Max	Wire Range	Torque, lb-in
	Voltage, V	Current, A	AWG Copper	
1500	300	50	18-8	11
1500DS	300	40	18-10	11
2000(1)	600	65	14-6	18
2000DS(1)	600	65	14-6	18

Note (1) for use with two No. 12 AWG Sol/Str wires for field and factory-wiring. Solid and stranded wires are not to be intermixed.

CATALOG NUMBER NOMENCLATURE CODE:

* Example: $\frac{1500}{A}$ $\frac{/2}{B}$ $\frac{K}{C}$ **M** **D** $\frac{DS}{E}$ $\frac{GW}{F}$

A - Basic Construction - 1500 or 2000

B - Number of Poles
One or two digit number

C-K - Provided with standoffs.
None - Standoffs not provided

D - M - with center stop, material: bronze (greater than 85% copper)
blank - center stop not provided

* **E - DS - Provided with wire protector**
None - No wire protector

* **F - Plastic material**

GW - glow wire [REDACTED]
HT - high temperature [REDACTED],

Blank - standard [REDACTED]

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE) :

Use - For use only in or with products where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Conditions of Acceptability -

1. The insulating base materials shall not exceed their assigned max operating temperature rating.

1A. The insulating bodies are molded of Recognized Component plastic (QMFZ2), as specified in the following tabulation.

<u>Temperature</u>	<u>Material Manufacturer</u>	<u>Material Designation</u>	<u>Base Material</u> Rating, °C
			105
			105 (generic)
			105 (generic)
			130
			105 (generic)
			105
			120
			105 (generic)
			115 (@)
			105 (generic)
			120

Note : @ - This material is suitable only for series 2000
The materials above may be used interchangeably at 105°C.

2. The tightening torque for field wiring pressure wire connector terminals is recorded in the Ratings section of this Report. This torque value shall be marked on the end-use product for those categories which require torque markings for field terminated conductors.

3. The field wiring terminals on these terminal blocks have been evaluated using the Standard For Equipment Wiring Terminals, UL 486E. the suitability of these terminals shall be determined in the end-use investigation. The need for conducting additional tests (i.e. Short Circuit Test, etc.) shall be considered.

4. Terminal Blocks using grade [REDACTED] as insulating base material, shall be molded only in [REDACTED].

CONSTRUCTION DETAILS:

The product shall be constructed in accordance with the following description.

Marking - The marking of a terminal block shall include:

1. The manufacturer's name or trademark on the terminal block.
2. The catalog number, which may be marked on the terminal block, shipping carton, or stuffer sheet placed in the shipping carton.
3. Wire range, tightening torque, ampere and voltage rating are optional.

Corrosion Protection - All parts are of corrosion resistant material or are suitably plated to resist corrosion.

Spacings - The following minimum spacings in inches (mm) shall be maintained between uninsulated live parts of opposite polarity, uninsulated live parts, and uninsulated grounded parts other than the enclosure or exposed metal parts.

<u>Applications</u>	<u>Cat. No.</u>	<u>Max Voltage</u>	<u>Through Air</u>	<u>Over Surface</u>
Commercial appliances, including business equipment, electronic data processing, etc.	1500, 1500DS	250	3/32 (2.4) #	3/32 (2.4) #
	2000, 2000DS	600	3/8 (9.5)	1/2 (12.7)
Industrial General	1500, 1500DS	300	1/4 (6.4) #	3/8 (9.5)
	2000, 2000DS	600	3/8 (9.5)	1/2 (12.7)

- The spacing between wiring terminals of opposite polarity and the spacing between a wiring terminal and a grounded dead metal part shall not be less than 1/4 in (6.4 mm) if short-circuiting or grounding of such terminals may result from projecting strands of wire.

J.P.

J.T.

1500, 1500DS, 2000, AND 2000DS

FIG. 1 (C89-3352)

General - The general design, shape, and arrangement shall be as illustrated except where variations are specifically described.

1. Base - Min 1.2 mm thick. Length varies with number of terminals, dimensions as noted below.

<u>Series</u>	<u>Dimensions, mm</u>					<u>Overall Height</u>	<u>Overall Length</u>
	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>		
1500	25.4	9.4	4.9	7.4	4.1	25	10.6
2000	30.2	11.2	6	8.4	3.3	25.3	10.8

- *2. Connector Body - Plated copper alloy. See Ills. 1 and 2 for dimensions.

- *3. Clamping Screw - Plated steel. See Ills. 3 and 4 for dimensions.

- * Wire Protector - Not visible. Stainless steel, provided only on DS Suffixed cat. nos. Dimensions for 1500 DS are 0.2 mm thick, 3.5 mm wide, 17 mm long with a bump in the center. 2000DS protector is 0.25 mm thick, 4 mm wide, 20 mm long with a bump in the center. The center of each protector is crimped in the connector body.

T.F.
C.K.