CERTIFICATE OF COMPLIANCE

Certificate Number E Report Reference E Date 20

E63492 E63492-19770222 2022-January-05

Issued to: Adels-Contact Elektrotechnische Fabrik GmbH & Co. KG Buchholzstrasse 40-46 Bergisch Gladbach 51469 DE

This is to certify that representative samples of

TERMINAL BLOCKS - COMPONENT See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety:	UL1059, Terminal Blocks	
Additional Information:	See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information	

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Date

E63492 E63492-19770222 2022-January-05

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Product Designation(s)

Cat. No. 500, may be followed by Suffix K, II, RZ, LRZ, SKII, KUS or blank, may be followed by a one or two digit number, may be followed by 31 or 35, followed by M, SL or blank, followed by DS or blank, may be followed by MS or blank, may be followed by suffix GW, HT or blank, may be followed by additional suffixes.

Cat. No. 1000, with or without Suffix K or US, may be followed by one or two digit number, may be followed by M or blank, with or without suffix DS, may be followed by MS or blank, may be followed by suffix GW or HT or blank, may be followed by additional suffixes.

Bamples



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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File E63492 Project 73ME10448

February 22, 1977

REPORT

On

COMPONENT - TERMINAL BLOCKS

Adels-Contact Elektrotechnische Fabrik GmbH & Co. KG Buchholzstrasse 40-46 *

*

51469 Bergisch Gladbach, Germany

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DESCRIPTION

PRODUCT COVERED:

* Cat. No. 500, may be followed by Suffix K, II, RZ, LRZ, SKII, KUS or blank, may be followed by a one or two digit number, may be followed by 31 or 35, followed by M, SL or blank, followed by DS or blank, may be followed by **MS or blank**, may be followed by suffix GW, HT or blank, may be followed by additional suffixes.

* Cat. No. 1000, with or without Suffix K or US, may be followed by one or two digit number, may be followed by M or blank, with or without suffix DS, may be followed by MS or blank, may be followed by suffix GW or HT or blank, may be followed by additional suffixes.

GENERAL:

The terminal blocks are formed into multicircuit terminal strips from 2 to 12 positions which provide screw-tightening pressure wire connectors from conductor termination. They are suitable for factory or field wiring in general industrial or commercial application within the ratings specified below.

	Wire	Maximum	Maximum Voltage	Torque For
	Range	Ampere	Gen. Ind.+/	Field Wiring
Cat. No.	AWG	Rating	Commercial	in. lb (N-m)
500, 500II	10-22	40	150/250	5 (0.57)
500DS	10-22	30	150/250	5 (0.57)
500RZ, 500K	10-22	40	300/250	5 (0.57)
500LRZ	12-22	30	300/250	5 (0.57)
500RZDS,	12-22	30	300/250	5 (0.57)
500KDS,	12-22	30	300/250	5 (0.57)
500LRZDS, 500IIDS	12-22	30	300/250	5 (0.57)
500SKII, 500SKIIMDS	12-22	30	600/600	5 (0.57)
500KUS, 500KUSDS	10-22	30	600/600	5 (0.57)
1000, 1000K	8-22	50	150/250	7 (0.8)
1000DS,	10-22	40	150/250	7 (0.8)
1000KDS, 1000MDS				
1000US, 1000USDS	10-22	40	600/600	7 (0.8)
+ - May be used at 300 V	application	n, 10 A maxi	Imum for limited	ratings.

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TERMI	NAL BLOCK NO	MENCLA	TURE	CODE:						
*	Example 1:	<u>500</u> 1	<u>II</u> 2	<u>/2</u> 3	<u>31 M</u> 4 5	DS 6	MS 7	<u>GW</u> 8	<u>XX</u> 9	
1.	Basic Const 500	ructio	n –							
2.	Constructio No Suffix - K - Same II - Same RZ - Prov LRZ - Same SKII - Same KUS - Same	n Vari Stand as st as st ided w as Su as Su as st	ation ard andar andar ith 4 ffix ffix andar	d exce d exce .6 mm o RZ exce II exce d exce	ot provi ot overa catch pi ept cato ept heig ot provi	.ded wi all boo ns for ch pins ght dim .ded wi	ith a ly di c mou s are mensi ith a	3.0 mensi nting 5.7 ons a 4.3	mm raised ons are la means mm long re larger mm raised	base rger base
3.	Number of P 1 or 2 digi	oles - t numb	er							
4.	Fixing hole 31 - 3.1 mm 35 - 3.5 mm	diame	ter (Option	al) -					
5.	Constructio M - Center SL - sack h No suffix -	n Vari stop p ole, c Cente	ation rovid enter r sto	ed stop p not j	provideo	1				
6.	Wire Guard DS - Provid No suffix -	- ed wit: No wi	h a w re gu	ire gua ard pro	ard ovided					
7.	Screw Mater No suffix - MS -	ial steel brass	scre scre	ws, zi: ws, unj	nc-plate plated	ed				
8.	Plastic Mat GW HT	erial - Gl - Hi	ow Wi gh Te	re m perat	ure					
*	No suf	fix -	Sta	ndard 🛛						
+ 0		c c :	10		1					

*9. Optional Suffixes (Commercial Purposes Only) Additional suffixes may be provided

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TERM	INAL BLOCK NC	MENCLATURI	E CODE:				
	Example 2:	<u>1000</u> <u>K</u> 1 2	$\frac{/2}{3} \frac{M}{4} \frac{DS}{5}$	<u>MS</u> <u>GW</u> 6 7	<u>XX</u> 8		
1.	Basic Const 1000	ruction -					
2.	Constructic No suffix - K - Same as US - Same a	on Variatio Standard standard as standard	on - except provid d except provi	ded with a ided with	2.0 mr a 4.0 r	n raised bas nm raised ba	se Ise
3.	Number of F 1 or 2 digi	Poles - .t number					
4.	Constructic M - Center No suffix -	on Variatio stop prov Center st	on ided top not provid	led			
5.	Wire Guard DS - Provid No suffix -	- led with a · No wire o	wire guard guard provided	t			
6.	Screw Mater No suffix - MS - bra	ial steel sc ss screws	rews, zinc-pla , unplated	ated			
*7.	Plastic Mat GW HT Blank	erial - Glow T - High T - Standa	Wire Temperature				
*8.	Optional Su	ffixes (Co	ommercial Purp	poses Only	7)		

Additional suffixes may be provided

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		and Report		Revised:	2012-01-03

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

<u>Use</u> - For use only with products where the acceptability of the combination has been determined by Underwriters Laboratories Inc.

Conditions of Acceptability -

1. The mounting suitability should be determined in the end use.

2. The insulating base materials assigned max operating temperature rating.

2A. The insulating bodies are molded of Recognized Component plastic (QMFZ2) as specified in the following tabulation.



The materials above may be used interchangeably at 105°C.

3. These devices are suitable for 600 V applications if barriers, standoffs or other suitable means are used to provide acceptable spacing, 1/2 in (12.7 mm) from live parts to uninsulated grounded metal.

4. These devices may be suitable for other than commercial or general industrial use, providing spacing, insulating materials, heat rise, etc. are acceptable in the end use.

5. Terminal Blocks using grade as insulating base material, shall be molded only in

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CONSTRUCTION DETAILS:

Spacing - The following min spacing in inches (mm) are maintained between uninsulated live parts of opposite polarity, uninsulated live parts and uninsulated grounded parts other than the enclosure or exposed metal parts.

*Model Nos.	Max Volts	Throug	gh Air	Over Surface	
		In	(mm)	In	(mm)
	Commercial	Use			
*500, 500K, 500II, 500RZ,	250	3/32	(2.4) ^b	3/32	(2.4) ^b
500LRZ, 500KUS (1)					
1000 (2)					
*500SKII (1)	600	3/8	(9.5)	1/2	(12.7)
1000K, 1000US (2)					
Ge	neral Indust	rial Use			
*500, 500II (1)	150	1/8	(3.2) ^b	1/4	(6.4)
1000, 1000K (2)					
*500K, 500RZ, 500LRZ,	300	1/4	(6.4)	3/8	(9.5)
500II(1)					
*500SKII, 500KUS (1)	600	3/8	(9.5)	1/2	(12.7)
1000US (2)					
^b The spacing between wiring	terminals of	E opposite	e polarity	y and the	spacing
between a wiring terminal	and a ground	ed dead-m	etal part	shall no	t be
less than 1/4 in if short-	circuiting of	r groundi	ng of sucl	h termina	ls may

NOTE

1 may be followed by a one or two digit number, may be followed by 31 or 35, followed by M, SL or blank, followed by DS or blank, may be followed by MS or blank, may be followed by suffix GW, HT or blank, may be followed by additional suffixes.

result from projecting strands of wire.

2 may be followed by one or two digit number, may be followed by M or blank, with or without suffix DS, may be followed by MS or blank, may be followed by suffix GW or HT or blank, may be followed by additional suffixes.

Marking - Company name or trademark and catalog number or type designation on device or shipping carton.

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

Tolerance - Unless otherwise specified, all dimensions are nominal.

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*CAT NO. 500 (REPRESENTS 500II) FIG. 1 (M71-9685)

<u>General</u> - Fig. 1 shows 12 integrally molded terminal blocks. This device may be molded into continuous strips of one or more units. This gang may be *cut to smaller gang sizes including a single terminal block. Cat. Nos. 500 and 500II are similar except for body dimensions.

- *1. <u>Body</u> See Ill. 1 for dimensional details for Cat. No. 500. See Ill. 1A for Cat. No. 500II.
- 2. <u>Wire Connector</u> Plated copper alloy body and two plated steel or brass screws. For dimensions, see Ill. 1 and Ill. 7.

*

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A. CAT. NO. 500 (REPRESENTS 500SKII, 500SKIIMDS, 500KUS)

- B. CAT. NO. 500K
- C. CAT. NO. 500KDS

D. CAT. NO. 500DS (REPRESENTS 500IIDS, 500KUSDS) - FIG. 2 (M78-12796)

General - This page serves to record an addition to this manufacturer's line of terminal blocks. Cat. No. 500 (covered on Page 3, Fig. 1) is illustrated again for comparison purposes.

Cat. No. 500SKII is similar to Cat. No. 500 (same terminals), except with a larger insulating body. See Ill. 4 for dimensions.

Cat. No. 500SKIIMDS is similar to Cat. No. 500SKII (same insulating body), except with the terminals described in Item 5 below.

Cat. No. 500IIDS employs the body described in Fig. 1, Item 1 referencing Ill. 1A, and the wire connector with wire guard described below.

Cat. No. 500KUS and 500KUSDS are similar to Cat. No. 500 and 500DS respectively (same terminals), except with a larger insulating body. See Ill. 5 for dimensions.

- 1. Cat. No. 500 See Page 3, Fig. 1 for description.
- Cat. No. 500K Same as Cat. No. 500 except provided with approx 5/32 in high (overall) base projections.
- Cat. No. 500KDS Same as Cat. No. 500K except provided with wire guard, as detailed in Item 5 below.
- Cat. No. 500DS Same as Cat. No. 500 except provided with wire guard, as detailed in Item 5 below.
- 5. Wire Connector (Cat. Nos. 500DS, 500IIDS, 500KDS, 500KUSDS). Plated copper alloy body and two plated steel or brass screws, refer to Ill. 1 and Ill. 7 for dimensions. Provided with one stainless steel pressure plate under screw base, approx 0.010 in thick, 3/32 in wide, 17/32 in long; held in position by two indents at mid-section (one on each side) of connector body, as illustrated.

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- A. 500RZDS B. 500LRZ
- (REPRESENTS 500LRZDS) C. 500RZ

FIG. 3 (M85-10987)

<u>General</u> - Cat. Nos. 500RZ, -RZDS, -LRZ, -LRZDS are intended for push in plate mounting. See Ill. 3 for mounting details. Cat. Nos. 500RZDS and 500LRZDS employ wire connectors with wire guards.

*

- *1. <u>Body</u> One mm min material thickness. See Ill. 3 for dimensional details.
- 2. Wire Connector (500RZ, 500LRZ) Same as Fig. 1, Item 2.
- 3. <u>Wire Connectors (500RZDS, 500LRZDS)</u> Same as Fig. 2, Item 5.

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- A. 1000DS (REPRESENTS 1000USDS)
- B. 1000K
- C. 1000KDS (REPRESENTS 1000MDS)
- D. 1000 (REPRESENTS 1000US) FIG. 4 (M85-10989)

General - Cat. No. 1000MDS is the same as Cat. No. 1000KDS except the wire connector is provided with a center stop.

Cat. No. 1000US and 1000USDS are similar to Cat. No. 1000 and 1000DS respectively (same terminals), except with a larger insulating body. See Ill. 6 for dimensions.

- Body One mm min material thickness. See Ill. 2 for dimensional details.
- Wire Connector (Cat. Nos. 1000, 1000K, 1000US) Plated copper alloy body and two plated steel or brass screws. For dimensions, see Ill. 2 and Ill. 8.
- 3. Wire Connector (Cat. Nos. 1000DS, 1000KDS, 1000MDS, 1000USDS) Same as Item 2 except provided with one stainless steel wire protector under screw base; approx 0.3 mm thick, 2.8 mm wide, 14.3 mm long; held in position by two indents at midsection (one on each side) of connector body.