

File E63492
Project 01ME12329

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REPORT

on

COMPONENT - TERMINALS BLOCK

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DESCRIPTION

PRODUCT COVERED:

USR, CNR: Component terminal block Series LK 980 followed by -01 or -02 with or without RZ/ followed by 2, 3, 4 or 5 with or without Suffixes B, SK, SK B, ST, ST B or SU **B, followed by blank, GW or GW V0.**

GENERAL CHARACTER AND USE:

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

USR - Indicates investigation to United States Standard, UL 1059, Fourth Edition.

CNR - Indicates investigation to Canada National Standard C22.2 No. 158-1987

RATINGS:

Application -

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

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

Terminal Type -

Front

Push-In Type
(Wire Secured by Spring Type
Action)

Back

Push-In Type
(Wire Secured by Spring Type
Action)

Type Wiring - Factory and Field wiring for the main connections. Factory wiring only for the bottom connections

Types	Connections	Use Application	Voltage, V	Current, A	Wire Range, AWG, Copper	
					Factory	Field
LK 980 followed by -01 or -02 with or without RZ/followed by 2, 3, 4 or 5 with or without suffixes B, SK, SK B, ST, ST B or SU B.	Input Side	Commercial Appliances	600	15 (1)	14-20 SOL,	14-20 SOL,
		Industrial, general	600		14-18 STR	14-18 STR
	Output Side			7	18-20 SOL	-
*						

Wire strip length = 9mm

(1) 16A max. for factory-wiring only.

SERIES NOMENCLATURE CODE:

Example: $\frac{\text{LK 980}}{\text{A}}$ $\frac{-01}{\text{A1}}$ $\frac{\text{RZ/}}{\text{B}}$ $\frac{3}{\text{C}}$ $\frac{\text{SK}}{\text{D}}$ $\frac{\text{B}}{\text{E}}$ $\frac{\text{GW VO}}{\text{F}}$

A - Basic Construction

A1 - Number of release keys
01 - 1 release key
02 - 2 release keys

B - Mounting Variations
RZ - Snap on foot

C - Number of poles
2 - 2 poles
3 - 3 poles
4 - 4 poles
5 - 5 poles

D - Grounding connection options
SK - Bus for screw ground connection
ST - Screwless ground push-in connection
SU - Screwless ground claw connection

E - Circuit Identification Marking
B - Print on the top of the body

F - Plastic material

Blank -

GW -

GW VO -

ENGINEERING CONSIDERATIONS (NOT FOR FIELD 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 Series LK980-01/, single-hole bottom terminals are to be factory wired only and suitability of the connection (including spacings between factory connectors) shall be determined in the end use application.
2. The mounting suitability shall be determined in the end use.
3. The spring terminals are suitable for use with solid copper conductor. These devices have been investigated for use with copper conductor only.
4. The insulating bodies are molded of Recognized Component plastic (QMFZ2), as specified in the following tabulation. The use of these materials shall be judged in the end use application.

Series	Manufacturer	Material	Base material temp. rating, °C.
LK 980 followed by -01 or -02 with or without RZ followed by 2, 3, 4 or 5 with SK, SK B, ST, ST B or SU B			105 (generic)
LK 980 followed by -01 or -02 with or without RZ followed by 2, 3, 4 or 5 with SK, SK B, ST, ST B or SU B			105 (generic)
LK 980 followed by -01 or -02 with or without RZ followed by 2, 3, 4 or 5 with SK, SK B, ST, ST B or SU B			105 (generic)
LK 980 followed by -01 or -02 with or without RZ followed by 2, 3, 4 or 5 with SK, SK B, ST, ST B or SU B			105 (generic)
LK 980 followed by -01 or -02 with or without RZ followed by 2, 3, 4 or 5 with SK, SK B, ST, ST B or SU B			105 (generic)
LK 980 followed by -01 or -02 with or without RZ followed by 2, 3, 4 or 5 with SK, SK B, ST, ST B or SU B			65 (generic)

5. Protective Conductor Terminals - Types LK 980 followed by -01 or -02 with or without RZ followed by 2, 3, 4 or 5 with SK, SK B, ST, ST B or SU B have been evaluated for their suitability as a protective conductor terminal block and comply with the applicable grounding requirements in UL1059 for terminals for use in a protective circuit. (Commercial and Industrial Applications) with Solid wires only.

6. The Series LK 980 followed by -01 or -02 with or without RZ followed by 2, 3, 4 or 5 with or without Suffixes B, SK, SK B, ST, ST B or SU B (**output** terminals only) are to be factory wired only and the suitability of the connection (including spacings between factory connectors) shall be determined in the end use application.
7. The Series LK 980 followed by -01 or -02 with or without RZ followed by 2, 3, 4 or 5 with or without Suffixes B, SK, SK B, ST, ST B or SU B (**input** terminals only) are field wiring and have been evaluated using the Standard for Equipment Wiring Terminals For Use With Aluminum and/or Copper Conductors, UL 486E. The suitability of these terminals shall be determined in the end-use application.
8. **The spring terminals are suitable for use with stranded copper conductor at the front side of the block. These devices have been investigated for use with copper conductor only.**

*

MARKINGS - The marking of a terminal block shall include:

1. (USR) The recognized Company trade name or trademark on the terminal block.
2. (USR) Optional wire range, ampere and voltage.
3. (CNR) The cat. No., wire range, ampere and voltage rating on the terminal block, shipping carton, or stuffer sheet placed in the shipping carton.
4. A nominal strip length shall be provided on the terminal block, the unit container or an information sheet packed within the unit container.

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5. A protective conductor terminal block shall be marked with the symbol (IEC Publication 417, Symbol 5019) or with "G", "GR", "GND", "Ground", "Grounding", or the like.

CONSTRUCTION DETAILS:

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

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

Spacings - The following minimum spacing in inches (millimeters) 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.

Type	Through air, in. (mm)	Over surface, in. (mm)
Series LK 980 followed by -01 or -02 with or without RZ/ followed by 2, 3, 4 or 5 with or without Suffixes B, SK, SK B, ST, ST B or SU B.	9.5 (3/8)	12.7 (1/2)

* LK 980-01/ RZ 5 B (REPRESENT SERIES LK 980-01/), FIG. 1

General - See ILL. 1 through 2 for assembly and dimensional details.

1. Insulating Body - R/C plastic (QMFZ2), refer to "Engineering Consideration" for manufacturer and type, two parted constructions. Dimensions are noted below in millimeters for assembled.

Type	Overall Height	Overall Width	Overall Length	Minimum Thickness	Illustration
LK 980-01/ RZ 5 B	16.2	25.5	49.7	0.75	1
LK 980-01/ RZ 4 B	16.2	25.5	39.8	0.75	-
LK 980-01/ RZ 3 B	16.2	25.5	29.7	0.75	1
LK 980-01/ RZ 2 B	16.2	25.5	19.8	0.75	-

2. Terminal Part - three parted construction. Dimensions are noted below in millimeters.

Type	Overall Height	Overall Width	Overall Length	Illustration
LK 980-01/ RZ 5 B	8.0	8.5	19.0	2

3. Terminal Housing - Plated Steel. Dimensions are noted below in millimeters.

Type	Overall Height	Overall Width	Overall Length	Minimum Thickness
LK 980-01/ RZ 5 B	8.0	5.8	13.7	0.5

4. Spring Clamp - Plated Steel. Dimensions are noted below in millimeters.

Type	Overall Height	Overall Width	Overall Length	Minimum Thickness
LK 980-01/ RZ 5 B	6.7	5.6	19.0	0.3

5. Current Bar - Plated Copper. Dimensions are noted below in millimeters.

Type	Overall Height	Overall Width	Overall Length	Minimum Thickness
LK 980-01/ RZ 5 B	3.1	5.6	11.9	0.6

6. Grounding foot assembly - Plated Copper. Dimensions are noted below in millimeters.

Type	Overall Height	Overall Width	Overall Length	Minimum Thickness	ILL. No.
LK 980-01/ RZ 5 SK	3.4	7.4	27.8	0.7	3

7. Grounding foot assembly - Plated Copper. Dimensions are noted below in millimeters.

Type	Overall Height	Overall Width	Overall Length	Minimum Thickness	ILL. No.
LK 980-01/ RZ 5 SU	2.7	10.3	8.9	0.6	4

8. Grounding foot assembly -Plated steel. Dimensions are noted below in millimeters.

Type	Overall Height	Overall Width	Overall Length	Minimum Thickness	ILL. No.
LK 980-01/ RZ 5 ST	8.1	5.0	25.9	0.7	5