

File E63492  
Project 87NK26932

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REPORT

on

COMPONENT - TERMINAL BLOCKS

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Bergisch Gladbach, Fed. Rep. Germany

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

\* Component terminal blocks, Cat. Nos. 930, 935 followed by -00, -01, or -02, followed by one or two digit number, with or without Suffix B may be followed by additional suffixes. Cat. No. 950 with or without RZ, followed by /3, or /5, with or without Suffixes SK, ST, and/or B.

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

Terminal Type -FrontBack

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

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by Spring Type Action)

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

RATINGS:

* Cat Nos.	Max Voltage V	Max Current A	Wire Range AWG Copper-Sol	Strip Length, mm
930, 935, 950	300	16	14-20 Main Connections	8
			18-20 Bottom Connections	8

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CAT. NO. NOMENCLATURE CODE:

\*Example: 930 01 /12 B XX  
A B C D E

- A - Basic Cat. No.  
930 - Refer to Fig. 1  
935 - same as 930 except for Body Construction.  
Refer to Fig. 2
- \*B - Locking Features  
00 - No release key. Screwdriver release only.  
01 - One release key, one screwdriver release.  
02 - Two release keys.
- \*C - Number of Poles  
One or two digit number.
- \*D - Circuitry Identification Marking  
with Suffix B - Provided on top of Body  
without Suffix B - Not provided
- \*E - Optional Suffixes (Commercial Purposes Only) -  
additional suffixes may be provided

CAT. NO. NOMENCLATURE CODE:

950 RZ /3 SK B  
A B C D E

- A - Basic Cat. No. - 950
- B - Mounting Variations  
  
RZ - Snap-in posts molded in base of body.  
None - Screw hole mounting hole.
- C - Number of Poles  
  
/3 - 3 - poles  
/5 - 5 - poles
- D - Grounding Connection Options  
  
SK - Bus for screw ground connection.  
ST - Screwless ground connection.

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E - Circuit Identification Marking

Suffix B - Provided on top of body.  
Without Suffix B - Not provided.

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 - The Series 930, single-hole bottom terminals are to be factory wired only and the suitability of the connection (including spacings between factory connectors) shall be determined in the end use.

1. The insulating base materials shall not exceed their assigned max operating temperature rating.
2. The insulating bodies are molded of Recognized Component plastic (QMFZ2), specified in the following tabulation.

Material Manufacturer	Material Designation	Base Material Temperature
		Rating, °C
[REDACTED]	[REDACTED]	105
		105 (generic)
		125
		130
		130
		105
		<b>65 (generic)</b>

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

3. The wire connectors (main terminals only), used in these Terminal Blocks have been evaluated in accordance with the requirements for Equipment Wiring Terminals, UL 486E.

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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 trade name on the terminal block.
2. The catalog numbers which may be marked on the terminal block, shipping carton, or stuffer sheet placed in the shipping carton.
3. Wire range, strip length ampere, and voltage ratings are optional.

\* The suitability of grounding options for Cat. No. 950 with Suffixes SK, or ST has not been determined and shall be evaluated in the end-product investigation.

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

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

Through Air

Over Surface

6.4 (1/4)

9.5 (3/8)

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CAT. NO. 930-01/12 (REPRESENTS CAT. NO. 950)

FIG. 1 (C88-5866)

General - Cat. No. 950 is similar to Cat. No. 930 except 3 or 5 poles configuration and may be provided with optional grounding bus as shown in Ills. 2 and 3. Cat. No. 950 with Suffix RZ provides snap-in mounting posts integrally molded in base. See Ill. 3 for details.

1. Base - Min 1.0 mm thick. Length varies with number of terminals, dimensions as noted below.

<u>Series</u>	<u>Dimensions, mm</u>			
	<u>Single Pole Length</u>	<u>Space Between Poles</u>	<u>Width</u>	<u>Height</u>
	930	8.3	1.7	24

Main conductor holes are 2 by 2 mm. Bottom connector holes are approximately 1 mm dia. 4 by 1 mm slots are provided for snap fit of cover. 3 mm dia mounting hole is provided between poles.

2. Cover - Each pole is 6 mm wide, 20 mm long, with slots for screwdriver or key release. The screwdriver slot is 4.3 by 1.3 mm, the key slot is 6.7 by 1.3 mm. The cover snaps into place in the base.
3. Wire Connectors - Tin-plated brass, 0.6 mm thick with 0.3 in thick plated steel spring. Both parts are grooved where the main wire connection is formed. The two parts fit into the base and are kept in place with the cover.

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CAT. NO. 935-02/10  
(REPRESENTS ENTIRE 935 SERIES)

FIG. 2 (M90-21938)

General - Terminal block series 935 is identical to Terminal block series 930 except for the shape of the molded body. For overall dimensions refer to Ill. 1.

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