

File E63492
Project 94ME79006

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REPORT

on

COMPONENT - TERMINAL BLOCKS

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

* Component - Terminal Block, Cat. No. RKW110, followed by a one or two digit number, may be followed by additional suffixes.

GENERAL CHARACTER AND USE:

The devices 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 -

<u>Front</u>	<u>Back</u>
Pressure Wire Connector	Open barrel

Type Wiring - Factory and field wiring.

RATINGS:

<u>Cat. No.</u>	<u>Max Voltage, V</u>	<u>Max Current, A</u>	<u>Wire Range Copper</u>	<u>Screw Torque lb/in</u>
RKW110/2	600	55	6-20 AWG sol/str.	45

TERMINAL BLOCK NOMENCLATURE CODE:

- * RKW110/2 XX
 I II III
 I Basic Construction
 II Number of Poles
 One or two digit number
- * III Optional Suffixes (Commercial Purposes Only) -
 Additional suffixes may be added.

J.P.

J.T.

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 Type 8WA1501 pressure wire connectors comply with field wiring requirements in UL 486A Standard for Wire Connectors and Soldering Lugs for use with Copper Wires, 8th Edition.

2. The insulating bodies are molded of polymeric materials, as specified in the following tabulation. The use of these materials shall be judged in the end use application.

<u>Manufacturer</u>	<u>Material</u>	<u>Flame Rating</u>	<u>Temp. Rating °C</u>
			125
			105 (generic)
			105 (generic)
			65 (generic)

3. 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.

4. The mounting suitability shall be determined in the end-use equipment.

5. The Types RKW110 ampere rating of 55 A max is based on tests performed using the max rated wire size, No. 6 AWG. When the device is used with wire sizes smaller than No. 6 AWG appropriate ampacity and heat rise shall be determined in the end use equipment.

6. Optional accessories which may be used with these terminal blocks such as test plugs, jumpers etc. shall be evaluated in the end use equipment.

7. The suitability of connections to the open barrel terminals shall be determined in the end-use equipment. These terminals are suitable for factory-wiring only.

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 or trademark 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, 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 (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.

	<u>Max V</u>	<u>Through Air</u>	<u>Over Surface</u>
Commercial appliance, including business equipment, electronic data processing equipment, etc.	600	3/8 (9.5)	1/2 (12.7)
General industrial	600	3/8 (9.5)	1/2 (12.7)

CAT. NO. RKW110/2

FIG. 1 (M94-12185)

1. Housing - Recognized Component plastic (QMFZ2), as outlined in "Engineering Considerations", 1.1 mm min thick. Refer to Ill. 1 for overall dimensions.
2. Connector Body - Tin-plated copper alloy 16 by 9 by 9 mm, provided with a 9 by 6.6 mm wire opening and a threaded tapped hole (min three full threads).
3. Pressure Plate - Tin-plated copper alloy 5.7 mm min wide by 2 mm thick, provided with serrations on wire entry end, terminating in an open barrel terminal.
4. Terminal Screw - Plated steel, socket head screw, dimensions as follows:

Size:	M6
Thread length:	8 mm
Overall screw length:	14.2 mm
Socket size across flats:	3 mm