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REPORT

On

COMPONENT - Terminal Blocks - Component

Adels-Contact Elektrotechnische Fabrik Gmbh & Co Kg

Buchholzstrasse 40-46
Bergisch Gladbach, 51469 DE

DESCRIPTION

PRODUCT COVERED:

USR and CNR Recognized Component - Terminal Blocks, Series 900.

GENERAL CHARACTER AND USE:

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

RATINGS:

Application -

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

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

Terminal Type -

Input	Output
Pressure Wire Connector	Push-In Type (Wire Secured by Spring Type Action)

Type Wiring - Factory and Field wiring

Series	Wire Range AWG/kcmil	Wire Type, Cu	FW*	Torque [N·m]	Voltage V	Current A	UG	CA
900 (input)	18-14	Sol/str	2	0.5	300	10	B,D	2(105),4
900 (output)	20-16	sol		--				

Note (*) - *1 for Factory Wiring only and 2 for Factory and Field Wiring*.

Strip length:
Input – 8 - 8.5 mm
Output – 7 – 7.5 mm

NOMENCLATURE:

Example:

900	Q	RZ/	12	DS	GW	B
A	B	C	D	E	F	G

A - Basic Construction

B - Version
-07 = 2 spring connection points
Q = 4 spring connection points

C - Mounting
RZ = snap on foot for 0.5 through 1.2 mm
LRZ = snap on foot for 1.3 through 2.5 mm

D - Number of poles
01 through 12

E - Wire protector option
DS = provided with wire protector
Blank = without wire protector

F - Plastic material
GW = Glow wire
Blank = Standard

G - Identification marking
B = print on the top of the body
Blank = without print

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Products designated USR have been investigated using requirements contained in UL 1059, the Standard for Terminal Blocks.

Products designated CNR have been investigated using requirements contained in Canadian Standard CSA C22.2 No. 158, Terminal Blocks.

Conditions of Acceptability –

For use only in (or with) Applicant's complete equipment where the acceptability is determined by UL LLC.

1. Series AC 900 may be used only where steel is acceptable for current-carrying parts.

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

Series	Material Manufacturer Name and Grade Designation	Base material Temperature Rating, °C
900	[redacted]	105
		105
		105

3. The field wiring terminals of this terminal block 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 investigation.

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

5. The spring terminals are suitable for use with solid copper conductor at the output side of the block. These devices have been investigated for use with copper conductor only.

MARKING:

The marking of a terminal block shall include:

The Recognized Company, trade name or trademark on the terminal block.

The catalog numbers, wire range, ampere and voltage rating on the terminal block, shipping carton, or stuffer sheet placed in the shipping carton.

The assigned torque values on the device, on the shipping carton, on a stuffer sheet within the shipping carton, or in the manufacturer’s catalogue.

A nominal strip length shall be provided on the terminal block, the unit container, or an information sheet packed within the unit container.

A procedure that must be followed for preparation of the conductors such as pre-twisting or tinning shall appear on the unit container or on an information sheet packed within the unit container.

The procedure that must be followed for proper assembly of a conductor into the terminal block such as the use of a specific tool, multiple crimping operations, and the like shall be clearly provided on the unit container or on an information sheet packed within the unit container.

CONSTRUCTION DETAILS:

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

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

Spacings - The following minimum spacings in inches and millimeters shall be maintained between uninsulated live parts of opposite polarity; and between an uninsulated live part and a grounded part including any mounting surface or exposed metal part.

UG	Through Air		Over Surface	
	in.	mm	in.	mm
B	3/32	2.4	3/32	2.4
C	1/4	6.4	3/8	9.5

Series 900,

1. Insulating Body – R/C plastic (QMFZ2), refer to “Engineering Consideration” for manufacturer and type, length will vary with numbers of poles. Plastic parts do not contain more than 25% regrind. Dimensions are noted below in millimeters for assembled.

   When the insulation parts are molded or fabricated from a material with a percentage of regrind materials higher than specified on the QMFZ2 card, blending of material, use of pigment, colorants, flame retardants, or similar means, the parts shall be Recognized Component Fabricated Parts (QMMY2) and meet the following criteria. When a Recognized Component Fabricated Part is involved, the molder’s ID should be on the part, on the parts carton or on a specification sheet with the carton when not molded in the same factory as that for the terminal block. Also, on the part, shipping carton, specification sheet with the carton or invoice should be a parts ID (original equipment manufacturer’s part designation), molding date and material ID.

Type	Overall Height	Overall Width	Minimum Thickness	Figure	Illustration
900-07	18.62	21.09	0.75 mm	1	--
900-Q	18.33	21.51	0.75 mm	2	1

2. Connector body – plated steel. One piece contact, top is tapped, provided with a M3 hole for screw at the input side and clamping means and spring at the load side. For shape and dimensions see Illustrations.

Type	Figure	Illustration
900-07	1	2
900-Q	2	3

3. Terminal Screw – Slotted plated steel M3x7 screw. For shape and dimensions see Illustration 4.