

File E103791
Project 4786833933

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REPORT

on

COMPONENT - RECEPTACLES FOR ATTACHMENT PLUGS AND PLUGS
SCHURTER, AG
Luzern, Switzerland

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D E S C R I P T I O N

PRODUCT COVERED:

USR/CNR Component Appliance Outlet, Series 4710, 4710-5, 4797 and 4797-5. Refer to Nomenclature Breakdown for type

GENERAL:

*These devices are either 2 pole, 3 wire or 2 pole 2 wire Appliance Outlets provided with mounting flanges or snap mount. The subject devices have been investigated to UL 60320-1, cold condition. The device configuration and voltage rating are as indicated below:

Series	Electrical Rating	Configuration
4710	20A, 250 Vac	Sheet J
4710-5	20A, 250 Vac	Sheet J
4797	20A, 250 Vac	Sheet J and Sheet L
4797-5	20A, 250 Vac	Sheet J

USR - Indicates investigation to United States Standards UL 60320-1.

CNR - Indicates investigation to Canadian National Standards C22.2 No. CSA C22.2 No. 60320-1-11.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

Use - For use only in complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Conditions of Acceptability - In order to be judged acceptable as a component of electrical equipment, the following conditions should be met.

1. Series 4710 has been investigated for a current of 20 A with a maximum temperature rise of 24.2_ degrees C.
2. The suitability of the mounting means shall be determined in the end use.

The snap panel mounting tabs have not been evaluated for mounting secureness.

3. The acceptability of the grounding connection shall be determined by the end product use engineer.

4. The IDC terminals have been evaluated to the requirements of UL 498, Heat Cycling & Vibration Test. These devices have been investigated for rated current (carried by each pole) with a maximum temperature rise as follows.

* Series	Current (A)	Wire type/size	Terminal Orientation	Temperature Rise
*4710	20	10)AWG Cu, Sol	Perpendicular	23
*4710	20	10)AWG Cu, Sol	Parallel	
*4710	20	12)AWG Cu, Sol	Perpendicular	24.2
*4710	20	12)AWG Cu, Sol	Parallel	

5. The placement of these devices within the equipment enclosure should be such that spacings between the live parts and the equipment are suitable for the particular application.

NOMENCLATURE BREAKDOWN SERIES 4710

4710	-	0	X	X	X	-	0	0	0	0	-	X	XX	-	X	1	00
			I	II	III							IV	V		VI		

I - Terminal L

- * 1 = **IDC-Contact** 10 AWG
- * 2 = **IDC-Contact** 12 AWG
- 4 = Solder Terminal
- 6 = Quick-connect 6.3 x 0.8 mm

II - Terminal N

- * 1 = **IDC-Contact** 10 AWG
- * 2 = **IDC-Contact** 12 AWG

III - Terminal PE

- * 1 = **IDC-Contact** 10 AWG
- * 2 = **IDC-Contact** 12 AWG

IV - Arrangement

- 1 = along
- 2 = cross

V - Panel mounting

- 10 = snap-in 1.0 mm
- 12 = snap-in 1.2 mm
- 15 = snap-in 1.2 mm
- 20 = snap-in 2.0 mm
- 25 = snap-in 2.5 mm
- 30 = snap-in 3.0 mm

VI - Color

- 1 = black
- 2 = grey
- 3 = white

NOMENCLATURE BREAKDOWN SERIES 4710-5

4710-5	X	X	X	-	X	X	X	X	-	X	XX	-	X	X	00
	I	II	III		IV	V	VI	VII		VIII	IX		X	XI	

I - Terminal L

- * 1 = **IDC-Contact** 10 AWG
- * 2 = **IDC-Contact** 12 AWG
- 4 = Solder Terminal
- 6 = Quick-connect 6.3 x 0.8 mm
- 7 = PCB terminal 2.8 x 0.8 mm

II - Terminal N

- * 1 = **IDC-Contact** 10 AWG
- * 2 = **IDC-Contact** 12 AWG

III - Terminal PE

- * 1 = **IDC-Contact** 10 AWG
- * 2 = **IDC-Contact** 12 AWG

IV - Light pipe position A

- 0 = without hole for light pipe
- 1 = with hole for light pipe

V - Light pipe position B

Same numbers as "IV - Light pipe position A"

VI - Light pipe position C

Same numbers as "IV - Light pipe position A"

VII - Light pipe position D

Same numbers as "IV - Light pipe position A"

VIII - Arrangement

- 1 = along
- 2 = cross

IX - Panel mounting

- 10 = snap-in 1.0 mm
- 12 = snap-in 1.2 mm
- 15 = snap-in 1.5 mm
- 20 = snap-in 2.0 mm
- 25 = snap-in 2.5 mm
- 30 = snap-in 3.0 mm

X - Color

- 1 = black
- 2 = grey
- 3 = white

XI - Glow wire requirements (IEC)

- 0 = GWIT standard
- 1 = GWIT enhanced

NOMENCLATURE BREAKDOWN SERIES 4797

4797	-	0	X	X	X	-	0	0	0	0	-	XX	X	-	00
			I	II	III							IV	V		

I - Terminal L

- 1 = Solder terminal
- 2 = Quick-connect 6.3 x 0.8 mm

II - Terminal N

- 1 = Solder terminal
- 2 = Quick-connect 6.3 x 0.8 mm

III - Terminal PE

- 0 = without terminal (PC II)
- 1 = Solder terminal
- 2 = Quick-connect 6.3 x 0.8 mm

IV - Panel mounting

- 00 = screw mounting
- 10 = snap-in 1.0 mm
- 12 = snap-in 1.2 mm
- 15 = snap-in 1.5 mm
- 20 = snap-in 2.0 mm
- 25 = snap-in 2.5 mm
- 30 = snap-in 3.0 mm

V - Color

- 1 = black
- 2 = grey
- 3 = white

NOMENCLATURE BREAKDOWN SERIES 4797-5

*4797- 5	X	X	X	-	X	X	X	X	-	X	XX	X	-	XX
	I	II	III		IV	V	VI	VII		VIII	IX	X		XI

I - Terminal L

- 4 = PCB terminal, **L = 34.0 mm**
5 = PCB terminal, L = 30.6 mm

II - Terminal N

- 4 = PCB terminal, **L = 34.0 mm**
5 = PCB terminal, L = 30.6 mm

III - Terminal PE

- 4 = PCB terminal, **L = 34.0 mm**
5 = PCB terminal, L = 30.6 mm

IV - Light pipe position A

- 0 = without hole for light pipe
1 = with hole for light pipe
3 = Light pipe, L = 27.5 mm
4 = Light pipe, L = 32.7 mm
5 = Light pipe, L = 37.4 mm
6 = Light pipe, L = 50.0 mm
7 = Light pipe, L = 28.5 mm

V - Light pipe position B

Same numbers as "IV - Light pipe position A"

VI - Light pipe position C

Same numbers as "IV - Light pipe position A"

VII - Light pipe position D

Same numbers as "IV - Light pipe position A"

IX - Panel mounting

- 10 = snap-in 1.0 mm
12 = snap-in 1.2 mm
15 = snap-in 1.5 mm
17 = snap-in 1.7 mm
20 = snap-in 2.0 mm
25 = snap-in 2.5 mm
30 = snap-in 3.0 mm

X - Color

- 1 = black
2 = grey
3 = white

XI - Customer specific type

- 00 = standard**
01 = customer specific light pipe length