

File E175531
Project 09CA31809

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REPORT

on

PROGRAMMABLE CONTROLLERS

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DESCRIPTION

PRODUCT COVERED:

USL, CNL - Listed Open Type, Programmable Controller, Cat. Nos. RSR20 and RSR30, followed by combination of 17 digits and letters.

GENERAL:

This device is an industrial Gigabit Ethernet Switch for DIN rail installation and for use in industrial automation applications. It is microcomputer-based and communicates via interfaces through wire or optical ports.

ELECTRICAL RATINGS:

All Cat. Nos. RSR20 and RSR30 can be rated as follow:

*

			Power Supply Type C		Power Supply Type K	
MODEL	Ports designation		Supply Voltage	Input Current	Supply Voltage	Input Current
RSR20-	0900	xx	24-48Vdc	0.58-0.29A	110-230Vac 50-60Hz	0.13-0.06A
	0800	yy		0.50-0.25A		0.11-0.05A
	0800	T1		0.42-0.21A		0.09-0.04A
RSR30-	0603	xx		0.63-0.31A		0.14-0.07A
	0802	CC		0.67-0.33A		0.15-0.07A
	0802	O7		0.58-0.29A		0.13-0.06A
	0802	OO	0.58-0.29A	0.13-0.06A		
	0806	O6	0.50-0.25A	0.11-0.05A		
	0703	xx	n.a.			0.19-0.09A

x = any kind of character

y = any kind of character except T1

Max. surrounding air temperature: 85°C

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE'S USE):

CNL - Indicates investigation to Canadian National Standard(s)
C22.2 No. 142-M1987.

USL - Indicates investigation to United States Standard UL 508,
(Industrial Control Equipment).

Note: CNL = Canadian National Standards - Listed.

USL = United States Standards - Listed.

CONSTRUCTION DETAILS:

General - The details of construction are covered in the following photographs and accompanying descriptive pages and illustrations.

Corrosion Protection - All metal parts are made of aluminum and are painted or plated as corrosion protection.

Limited Voltage/ Limited Current circuit - Since CPU and Ethernet boards are supplied by R/C (QQGQ2/8) power supply which fulfill requirements described in Par. 32.4 from UL 508 and is confirmed by appropriate test results the investigation has been conducted under consideration of the LV/LC requirements.

Any kind of Printed Wiring Board (ZPMV2/8) - suitable for direct support of live parts, rated min. 94 V-0, 125°C can be used.

Installation Instructions - Shall be provided and include a wiring diagram.

Marking - Markings may be provided in French or English for Canadian markets. Ink-stamped label permanently secured to the device, including Listee's name or File Number, device catalog number, the electrical ratings and max. surrounding temperature. In addition diagrams and instructions for installation shall be provided. Markings in the instruction manual:

- (i) Use 75°C copper wire only" for every model of this section.
- (ii) Tightening torque for field wiring terminals.
- (iii) "For Use in a pollution degree 2 environment" or equivalent.

* **Ethernet connection can be marked on product or information can be attached to instruction manual provided with product.**

NOMENCLATURE BREAKDOWN:

RCR30-	09	02	S2	M2	T1	U	C	C	H	P	H	H
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII

I: MODEL:

RSR20 Rail Switch Rugged Fast Ethernet

RSR30 Rail Switch Rugged Gigabit Ethernet uplink ports

II: Ports Fast Ethernet:

06 - 6x100 Mbps Ethernet

08 - 8x100 Mbps Ethernet

07 - 7x100 Mbps Ethernet

09 - 9x100 Mbps Ethernet

III: Ports Gigabit Ethernet:

00 - 0x1000 Mbps Ethernet

03 - 3x1000 Mbps Ethernet

02 - 2x100 Mbps Ethernet

IV: Ports type 1. uplink:

CC - 2x Combo Port Gigabit Ethernet

07 - Combo Port Gigabit Ethernet

OO - 2x SFP Slot Gigabit Ethernet

06 - SFP Slot Gigabit Ethernet

TT - 2x Twisted Pair (Tx)/RJ45

T1 - Twisted Pair (Tx)/RJ45

MM - 2x Multimode FX SC

M2 - Multimode FX SC

JJ - 2x Multimode FX MTRJ

M3 - Multimode FX MTRJ

NN - 2x Multimode FX ST

M4 - Multimode FX ST

VV - 2x Singlemode FX SC

S2 - Singlemode FX SC

UU - 2x Singlemode FX ST

S4 - Singlemode FX ST

LL - 2x Singlemode Long Haul FX SC

L2 - Singlemode Long Haul FX SC

GG - 2x Singlemode Long Haul+ FX SC(200km) SC(200km)

G2 - Singlemode Long Haul+ FX

ZZ - 2x SFP Slot (100Mbps)

Z6 - SFP Slot (100Mbps)

V: Ports type 2. uplink:

ZZ - 2x SFP Slot (100 Mbps)

M4 - Multimode FX ST

07 - Compo port Gigabit Ethernet

S2 - Singlemode FX SC

06 - SFP Slot Gigabit Ethernet

S4 - Singlemode FX ST

T1 - Twisted Pair (Tx)/RJ45

L2 - Singlemode Long Haul FX SC

M2 - Multimode FX SC

G2 - Singlemode Long Haul+ FX SC(200km)

M3 - Multimode FX MTRJ

Z6 - SFP Slot (100Mbps)

VI: Remaining ports:

T1 - Twisted Pair (Tx)/RJ45

Z6 - SFP Slot (100 Mbps)

VII: Temperature range:

S - Standard 0 up to 60

U - Extended -40 up to 85

F - Extended -40 up to 85 inclusive conformal coating(coating is used to provide additional protection against dust only)

VIII: Voltage range 1:

C - 24 - 48 V dc

K - 100 - 240 Vac

IX: Voltage range 2:

9 - Not available

K - 100 - 240 Vac

C - 24 - 48 V dc

X: Approvals:

H - UL508, GL, IEC61850, IEEE1613, EN50121

XI: Software version:

P - Professional

XII: Configuration:

H - Hirschmann

XIII: OEM-Type:

H - Hirschmann

The following pages have been removed
