File E175531
Project 12CA46429

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REPORT

on

PROGRAMMABLE CONTROLLERS

Hirschmann Automation and Control GmbH
Neckartenzlingen, Germany

DESCRIPTION

PRODUCT COVERED:

USL, CNL - Listed Open Type, Programmable Controller, Cat. Nos. RSP20- , RSP25-, RSP30- and RSP35-,followed by a combination of up to 27 digits, letters, dashes and dots, and EAGLE20-, EAGLE30-, followed by a combination of up to 37 digits, letters, dashes and dots.

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. RSP20, RSP25, RSP30, RSP35, EAGLE20 and EAGLE30, can be rated as follow:

Power Supply Type KK		Power Supply Type CC		Power Supply Type K9		Power Supply Type TT (RSP only)	
Supply voltage	Input current	Supply voltage	Input current	Supply voltage	Input current	Supply voltage	Input Current
110-230Vac 50-60Hz, alternati-vely 60-250 Vdc	0.2-0.15 A (ac) 0.3-0.15 A (dc)	24-48 Vdc Class 2	0.7-0.4 A	110-230Vac 50-60Hz, alternati-vely 60-250 Vdc	0.2-0.1 A (ac) 0.3-0.1 A (dc)	12-24 V (dc) Class 2	2.0-0.8 A
	0.2-0.1 A (ac) 0.4-0.1 A (dc)		0.8-0.4 A		0.2-0.1 A (ac) 0.4-0.1 A (dc)		
			0.8-0.4 A				
			1.0-0.5 A				

Signal contact Output: 1 A, 30Vdc or 1A, 30Vac

Max. surrounding air temperature: 60°C for parameter “S”
70°C for parameter “T” or “E”
Refer to “Temperature range” of nomenclature breakdown.

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.

Any kind of Printed Wiring Board (ZPMV2/8) – suitable for direct support of live parts, rated min. V-0, 105°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:

For Models with Type CC **or TT** Power Supply must be marked, "For Use In Class 2 Circuits," "Class 2" or an equivalent statement. This may be provided in the installation instructions.

NOMENCLATURE BREAKDOWN (RSP Series):

RSP30-	11	03	3Z6	TT	E	CC	XX	HS	H	2R	01.0.	00
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII

I: MODEL:
RSP20- Rail Switch Power, up to 100 Mbps, Standard
RSP25- Rail Switch Power, up to 100 Mbps, Enhanced Redundancy and PTP
RSP30- Rail Switch Power, up to 1000 Mbps, Standard
RSP35- Rail Switch Power, up to 1000 Mbps, Enhanced Redundancy and PTP

II: No. of Ports Fast Ethernet:
08 – 8x10/100 Mbps Ethernet Ports
11 – 11x10/100 Mbps Ethernet Ports

III: No of Ports Gigabit Ethernet:
00 – 0x10/100/1000 Mbps Ethernet Ports
03 – 3x10/100/1000 Mbps Ethernet Ports

IV: Uplink Port Configuration:
3Z6 – all SFP Slot (100Mbps)
3O6 – all SFP Slot (1000Mbps)

V: Port Configuration:
TT- – all Twisted Pair /RJ45
ZT- – 4x SFP slot (100Mbps); remains Twisted Pair / RJ45

VI: Temperature range:
S – Standard 0°C up to 60°C
T – Extended –40°C up to 70°C
E - Extended –40°C up to 70°C inclusive conformal coating.

VII: Voltage range:
CC – (24 - 48) VDC, with redundant power supply connectivity
K9 – (60 – 250) VDC – alternatively (110 – 230 VAC);
(“9”: redundant Power supply connectivity not available)
KK – (60 – 250) VDC alternatively (110-230 VAC),
(**“K”:** redundant Power supply connectivity)
TT – (12-24) VDC, Class 2 supplied - with redundant power supply connectivity.

VIII: Approvals: (for information only)
Z9 – CE; FCC; EN61131; (EN60950 on request only)
Y9 - "Z9" + cUL508;
V9 - "Z9" + IEC 61850; IEEE1613
VY - "V9" + cUL508;
XX – customer specific (X: any number or letter)

IX: Redundancy Configuration:
HS – Hirschmann Standard
HM – Hirschmann Fast MRP
HP – Hirschmann PRP

X: Software Configuration:
H - Standard
E – Enhanced Encryption

XI: Software Level
2R – Layer 2 Rail Switch Power Software

XII: Software version:
01.0. – Software version 01.0.
xx.x. – Software version … (x : any number)

XIII: Bugfix
00 - Bugfix version 00
xx - Bugfix version … - (x: any number)

NOMENCLATURE BREAKDOWN (Eagle Series):

EAGLE20	04	00	2O6	TT	9	99	S	CC	xxx
I	II	III	IV	V	VI	VII	VIII	IX	X

I: Product:
EAGLE20 - Router without gigabit ports
EAGLE30 - Router with gigabit ports

II: Number of 10/100 Mbit/s ports:
04 – 4x 10/100-Mbit/s ports

III: Number of 100/1000 Mbit/s ports:
00 – 0x 100/1000-Mbit/s ports
02 – 2x 100/1000-Mbit/s ports

IV: Uplink Port Configuration:
206 – 2x SFP slot for 100/1000Mbit/s F/O connections
999 – Not present

V: Port Configuration:
TT- – all Twisted Pair /RJ45

VI: Cellular phone interface:
9 – Not present

VII: WAN port:
99 – Not present
H2 – 2x SHDSL

VIII: Temperature range:
S – Standard 0°C up to 60°C
T – Extended –40°C up to 70°C
E - Extended –40°C up to 70°C inclusive conformal coating.

IX: Voltage range:
CC – (24 - 48) VDC, with redundant power supply connectivity
K9 – (60 – 250) VDC – alternatively (110 – 230 VAC);
(“9”: redundant Power supply connectivity not available)
KK – (60 – 250) VDC alternatively (110-230 VAC),
(Redundant Power supply connectivity)

X: XXX- A combination of up to 14 suffixes, which represent the Approvals and Software (for information only)