

Certificate of Compliance

Certificate Number **20111220- E44653**
Report Reference **E44653-20050620**
Issue Date **2011-DECEMBER-20**

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Issued to: SIEMENS AG
I IA CE CP R&D-VI 4
WERNER-VON-SIEMENS-STRASSE 48
92220 AMBERG, GERMANY

*This is to certify that
representative samples of*

Auxiliary Devices

Auxiliary Devices, AS-Interface Fail-Safe Monitor, Type 3RK1105, followed by -1A or -1B, followed by E or G, followed by 04, followed by -0CA0, -1CA0, -2CA0, -3CA0, or -4CA0.


ASIsafe DP / AS-i F-Link, Type 3RK3141-1CD10, 3RK3141-2CD10.

*Have been investigated by Underwriters Laboratories in accordance with
the Standard(s) indicated on this Certificate.*

Standard(s) for Safety: Industrial Control Equipment - UL508 and CSA C22.2 No. 14

Additional Information: See UL On-line Certification Directory at WWW.UL.COM for additional information.

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers:  the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product

William R. Carney
Director, North American Certification Programs

Underwriters Laboratories Inc.

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The AS-Interface is a Single-Master-System. This is only one master per cable wire, which controls data exchange. It “calls” up all the slaves sequentially and awaits their “responses”. This device can have a maximum of 16 inputs, 16 outputs or 16 inputs/outputs. Also, it can be used with no inputs or outputs simply to send or receive information from more than one location.

All 3RK1105 modules are intended for use with the AS-Interface System which has a system rating of 30 V dc, +1.6 / -1.5 V, with a max permissible voltage drop of 3.0 V over the line.

Other listed equipment such as proximity switches, position switches, PLC’s and contactors can use the AS-Interface system.

The ASIsafe DP / AS-i F-Link is concurrent PROFIBUS DP-Slave and AS-I master which controls relevant safety input data from ASIsafe-slaves via PROFIsafe-protocol to a fail save CPU with PROFIBUS DP-master. The operation of the DP/AS-I F-link is also possible downstream a PROFInet/PROFIBUS-Gateway. Transfer of binary and analog values is also possible.

RATINGS:

Supply voltage: 24 V dc, -15% max.

System voltage: AS-Interface

Output: R300, 6A/250V ac resistive (3RK1105 only)

Open Type

Ambient temperature (3RK3141 only): 60°C

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NOMENCLATURE BREAKDOWN

FAIL-SAFE MONITOR 3RK1105-

<u>3RK1105</u>	<u>-1A</u>	<u>E</u>	<u>04</u>	<u>-0CA0</u>
I	II	III	IV	V

- I. Basic Type
3RK1105 - AS-Interface fail-safe monitor
- II. Arrangement for output
-1A - one fail-safe output
-1B - two fail-safe outputs
- III. Type of terminals
E - Screw terminals
G - Spring terminals
- IV. Manufacturers Identification
04 - Basic Type

(Nomenclature Breakdown continued on next page)

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V. Functionality

- 0CA0 - Standard, 40 ms reaction time
- 1CA0 - Standard, 50 ms reaction time
- 2CA0 - Enhanced, 40 ms reaction time
- 3CA0 - Enhanced, 50 ms reaction time
- 4CA0 - Enhanced, 40 ms reaction time, with connection for AS-I

ASIsafe DP / AS-i F-Link 3RK3141-

3RK3141-1CD10
3RK3141-2CD10

ASIsafe DP / AS-i F-Link, Screw terminals
ASIsafe DP / AS-i F-Link, Spring terminals

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