

# Certificate of Compliance

Certificate Number **20111219-E44653**  
Report Reference **E44653-20010813**  
Issue Date **2011-DECEMBER-19**

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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 Adapters, Type 3SF followed by 1., 2., 3., 5., 54, 55, 59 or 7., may be followed by Suffix Letters and/or numbers indicating used Listed Pushbutton Station Enclosures, Listed Limit Switches, Listed Optical Switches or single Pushbutton Switches for panel mounting.

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

*Standard(s) for Safety:* **Industrial Control Equipment: UL 508 and CSA-C22.2 No. 14**

*Additional Information:* See UL On-line Certification Directory at [WWW.UL.COM](http://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.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

## GENERAL:

The AS-Interface Fail Safe Adapters are intended for use with Pushbutton Station Enclosures Type 3SB38, Pushbutton Switches Type 3SB3, Limit Switches Type 3SE2, 3SE3, 3SE6 or 3SE7 or Optical Switches Type 3RG78 for single panel mounting providing fail safe inputs on the AS-Interface System.

All 3SF 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.

AS-Interface is a Single-Master-System. There is only one master per cable wire, which controls data exchange. It calls up to 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.

## RATINGS:

Class 2 circuits only, except Emergency Stop Contact type 3SB3 rated A600 / R300. Marking for this contact may be provided on the contact block.

Max. ambient temperature 70°C

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## NOMENCLATURE BREAKDOWN:

3SF31	..-.....-....
I	II

- I. Basic Type Fail Safe Adapter
  - 3SF1. - for use with magnetically - operated switches
  - 3SF2. - for use with cable - operated switches
  - 3SF3. – for use with limit switches
  - 3SF5. - for use with pushbutton station enclosure
  - 3SF54 - for use with single pushbutton, panel mounting
  - 3SF55 – single ASI-Slaves
  - 3SF59 - accessories
  - 3SF7. – for use with light curtains, barriers or optical switch strips
- II. Variation of used Listed or Recognized 3SB / 3SE devices

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