Industrial IT Certification

CERTIFICATE

Certificate Id: 2PAA108943_ABB_AFS67X

Category:	Managed Switch
Product Name:	AFS67X
Vendor:	ABB AB
Certification Test Report:	3BSE070193
Certification reference:	System 800xA Version 4.x, 5.x
Restrictions:	-

The certificate states that the product specified above has passed the test towards the specified integration category. The certification has been performed by an official certification center, approved by the official steering body for the Industrial IT Certification.

The basis for the certificate is documented according to the Industrial IT Certification – Document Number 3BSE037356. The certificate is valid for the above mentioned Product versions until the next major release of the certified product or the certification reference system with a major release of the certified product or the reference system, a new certification is required to keep the certificate current.

ABB AB
721 59 Vasteras, Sweden

Date: 2012-05-30

Representative for the official steering body for the Industrial IT Certification

Erik Oja

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Managed Switch

- 19" managed switch
- Metal housing, ports on front or on rear (typical substation configuration)
- Up to 4 GbE ports (optical, electrical or combo ports)
- Up to 4 PoE ports (only with power supply type H/Z)
- Low voltage (9.6 - 60 VDC) or high voltage (48 - 320 VDC
- or 90 - 265 VAC) power supply
- Redundant power supply possible
- Spring clamps or connectors available
- Typical power consumption without PoE: 10 - 40 W
- Modular concept, 1 module for 2 ports needed, any combination possible (except GbE & PoE); in total 12 slots
- High port density
- Up to 28 ports (electrical, optical or SFP cages)
- Huge variety on optical ports (e.g. SFP cages, SC, ST)
- MM and SM SFP's in various versions available (MM, SM, single fibre)
- IEC61850 approved

Certification results and product details are summarized below:

Product Overview	
Ethernet	Modular concept, up to 28 slots, up to 4 GbE slots
POE	Up to 4 slots
Compact Flash Interface	Auto Configuration Adapter ACA 21-USB
Console	V.24 Interface(serial interface on RJ11 socket)
System LED Indicator	PWR, Redundancy Manager, Stand by, Fault, Relay, Port status
Alarm Contact	Two Alarm contacts (2A at 230V AC, 2A at 30V DC)
Digital Inputs	No
Input Voltage	Redundant Input voltage 9.6 to 60 VDC ,48 to 320 VAC
Operating temperature	Standard 0 °C to +60 °C Extended -40 °C to +85 °C
Connection	3- Pin Spring Clip
Power Consumption	10.5 W Basic device 2.0 W for each additional Fast Ethernet FX module 0.4 W for each additional Fast Ethernet TX module
Casing	IP30
Installation	Fixing Brackets (Switch Cabinet or Wall Mount)

Family members	
AFS670	24 port Fast Ethernet Switch
AFS675	24 port Fast Ethernet Switch incl. 4 Gb Ethernet ports

Engineering	
Configuration and installation	Web server or terminal interface.

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Designed for Industrial Applications

The AFS67X devices are designed to handle demanding electrical power generation and distribution applications: IEC 61850-3 and IEEE 1613 conformity, extended temperature range (-40° C up to +85° C), extremely high RFI/EMI immunity.

They meet the relevant industry standards, provide high operational reliability even under extreme conditions, and also long-term reliability and flexibility.

It can be easily managed via a Web browser, via Telnet, with a management software product (such as AFS View) or locally on the switch (V.24 interface).

The ABB ASF67X switches closely supports the 800xA Extended Automation System Value Propositions as noted below:

800xA Value Proposition Mapping	
✓	**Reducing Time to Decision and Action** - Detailed performance information can be retrieved from the management interface
✓	**Engineering for Maximum Performance** - High level configuration via management modules - Number of options available for different configuration needs
✓	**Reducing Risk through High Integrity Automation** - Adapted for Industrial Ethernet - Mechanical form factor improves lifetime
✓	**Integrating Information for Improved Visibility** - Diagnostic information available via web interface - Auxiliary contact for independent error reporting
✓	**Investment Enhancement through Evolution** - Continuation in product development

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