



TÜV Rheinland Group

TÜV Industrie Service GmbH
Automation, Software und Informationstechnologie

ZERTIFIKAT CERTIFICATE

Nr./No. 968/EZ 187.00/04

Prüfgegenstand Product tested	Triple Modular Redundant (TMR), Fault Tolerant Safety and Critical Control System 2-out- of-3 with diagnostics and 3-2-0 or 3-2-3-2-0 mode of operation	Zertifikatsinhaber Licence Holder	ABB Limited Howard Road St. Neots UK-Cambridgeshire PE19 8EU United Kingdom
Typbezeichnung Type designation	Plantguard Version 3.4	Verwendungszweck Intended application	Safety Related Programmable Electronic System for process control, emergency shut down, burner management, fire and gas where the safe state is the de-energized or energized state
Prüfgrundlagen Codes and standards forming the basis of testing	IEC 61508, Part 1 - 7:2000 EN 298:1994, (Chapter 9, 10) NFPA 85:2001, NFPA 86:1999 EN 61131-2:1994 and Amendment A11:1996, A12:2000 EN 61000-6-2:2000, EN 50082-2:1996, EN 50081-2:1993 EN 54-2:1997 NFPA 72:1999		
Prüfungsergebnis Test results	The system is suitable for safety related applications up to SIL 3 (IEC 61508).		
Besondere Bedingungen Specific requirements	For the use of the systems, the Safety Manual, the User Manual and the actual revision of the valid list of product documentation, hardware modules and software components released by the manufacturer and TÜV Rheinland have to be considered.		



Der Prüfbericht-Nr. 968/EZ 187.00/04 vom 2004-12-15 ist Bestandteil dieses Zertifikates.

Der Inhaber eines für den Prüfgegenstand gültigen Genehmigungs-Ausweises ist berechtigt, die mit dem Prüfgegenstand übereinstimmenden Erzeugnisse mit dem abgebildeten Prüfzeichen zu versehen.

The test report-no. 968/EZ 187.00/04 dated 2004-12-15 is an integral part of this certificate.

The holder of a valid licence certificate for the product tested is authorised to affix the test mark shown opposite to products which are identical with the product tested.

TÜV Industrie Service GmbH
Geschäftsfeld ASI
Automation, Software und Informationstechnologie
Am Grauen Stein, 51105 Köln
Postfach 91 09 51, 51101 Köln

2004-12-15

Datum/Date

Firmenstempel/Company seal

Unterschrift/Signature