

CERTIFICATE

No. Z10 03 12 51752 001



ABB AS
Automation Technologies Division
Hasleveien 50
N-0501 Oslo

with the production facility
51752

is authorized to label the following product with the

"TÜV Mark"

in accordance with the attachment to this certificate. See also notes over-leaf.



Product: **Safety-Related Automation System**

Model: **S800 I/O High Integrity**

Parameters: AI880
 High Integrity Analog Input Module
 DI880
 High Integrity Digital Input Module
 DO880
 High Integrity Digital Output Module

hints: For the certification mark the following text is assigned:
 "Functional Safety"

The report no. AO 63111 C, is a mandatory part of this certificate. The product complies with the following listed safety requirements only, if the specifications documented in the currently valid revision of this report are met.

The compliance of the above-mentioned product with the essential requirements of the following directive(s) and/or other relevant safety requirements was tested on a voluntary basis:

- IEC 61508:2000, parts 1 to 4, SIL 1-3 (to the extent applicable)
- DIN V 19250:1994
- DIN V VDE 0801:1990 with Amendment A1:1994, AK 1-6
- EN 954-1:1997, pr EN 954-2 Safety Categories 2-4 (to the extent applicable)
- EN 61131-2:2003
- EN 60204-1:1997 (to the extent applicable)
- DIN VDE 0116:1989, chapter 8.7
- EN 298: 1993, chapter 8, 9, 10
- prENV 1954:1995, chapter 4-8
- NFPA85, chapter 4.3 and 4.5
- ISA S84.01:1996 to the extent applicable
- FM 7605: 1999
- EN 50178: 1997
- prEN 50156-1: 1997

Test report No.: AO 63111 C

Released with the above certificate number by the
Certification Body of TÜV PRODUCT SERVICE GMBH.

Department: TA-ES/MUC / A. Beer
Date: 2003-12-11