

MARINE DIVISION

17 bis Place des Reflets - La Défense 2
92400 Courbevoie - France

Tel. 33 1 42 91 52 91
Fax. 33 1 42 91 28 94
www.veristar.com



Certificate number: 20371/A0 BV

File number : AP 3904

Product code : 4501H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Classification Rules

This certificate is issued to

ABB STOTZ KONTAKT GmbH

Heidelberg - GERMANY

for the type of product

PROGRAMMABLE LOGIC CONTROL UNITS

AC500/S500

Regulations and standards :

BUREAU VERITAS Rules for the Classification of Steel Ships.

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.

This certificate is valid until : 02 Jul 2013

At Paris la Défense, on : 02 Jul 2008

For BUREAU VERITAS,
By order of the Secretary

Approval office

Local office : BV HAMBURG
Surveyor : D. Hoepfner

L.COUREGELONGUE



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

I. PRODUCT DESCRIPTION :

The AC500/S500 Scalable Programmable Logic Controller and I/O System may consist of following components:

CPUs

PM571, PM571-ETH, PM571-ARCNET
 PM581, PM581-ETH, PM581-ARCNET
 PM582, PM582-ETH, PM582-ARCNET
 PM590, PM590-ETH, PM590-ARCNET
 PM591, PM591-ETH, PM591-ARCNET
 EC581-ARCNET

Terminal Bases

TB511, TB511-ETH, TB511-ARCNET
 TB521, TB521-ETH, TB521-ARCNET
 TB541, TB541-ETH, TB541-ARCNET

I/O-Modules

DC505 FBP	Decentral I/O-Station with Fieldbus Interface
DC551- CS31	Decentral I/O-Station with CS31 Interface
AX522	Analog In/Out 8 Channels
AX521	Analog In/Out 4 Channels
AC522	Configurable analog I/O 8 channels
AO523	Analog In
AI523	Analog Out
DI524	Digital Inputs
DC541- CM	Digital Inputs Digital In/Outputs
DC532	Digital Inputs Digital In/Outputs
DC522	16 Digital In/Outputs
DC523	24 Digital In/Outputs
DX522	Digital Inputs Relays Outputs
DX531	Digital Inputs 230V Relay Outputs
PD501-4CH	Positioning module ; analog inputs ; 24VDC-Motor outputs

Terminal Units

TU505-FBP, TU506-FBP	
TU515, TU516	
TU531, TU532	
TU541, TU542	Terminal Units for PD501
TU551-CS31, TU552-CS-3I	Terminal Units for DC551

Communication Couplers

CM572-DP	Profibus Coupler
CM575-DN	DeviceNet Coupler
CM577-ETH	Ethernet Coupler
CM578-CN	CanOpen Coupler

Accessories

MC502	Memory Card
-------	-------------