

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	ABB Automation Products GmbH
Address	Eppelheimer Strasse 82, 69123 Heidelberg, Germany
Type	Control Units
Description	AC500, S500, AC700F, S700 F, AC500-XC, S500-XC, AC500-S, AC500-S-XC refer to the Appendix for details
Trade Name	Programmable Logic Controller
Application	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2015 for general power distribution zones.
Specified Standard	EN 61131-2 (2007)
Other Conditions	The product designation of components may be followed by "XC" (extreme condition). Tests were carried out as required for the assigned environmental category if not stated otherwise.

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This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. HTS/ETS 39615-20/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

TYPES

AC500, S500, AC700F, S700 F, AC500-XC, S500-XC, AC500-S, AC500-S-XC

Comprising the following modules:

CPUs:

PM571, PM571-ETH, PM571-ARCNET,
PM581, PM581-ETH, PM581-ARCNET, EC581-ARCNET
PM582, PM582-ETH, PM582-ARCNET,
PM585-ETH* (FW: 2.7.x),
PM590*, PM590-ETH*, PM590-ARCNET* (up to Index A9)
PM591*, PM591-ETH*, PM591-ARCNET*
PM572, PM573-ETH*, PM583-ETH*, PM592-ETH*, PM783F-ETH
SM560-S* (Firmware/FW: V2.x.x)
SM560-S-FD-1* (FW: 2.x.x), SM560-S-FD-4* (FW: 2.x.x)

PM595-4ETH-F*, PM595-4ETH-M-XC*, PM591-2ETH* (FW: V2.7.x)
PM5630-2ETH*, PM5650-2ETH*, PM5670-2ETH*, PM5675-2ETH* (FW: V3.1.x)

Terminal Bases:

TB511*, TB511-ETH*, TB511-ARCNET*,
TB521*, TB521-ETH*, TB521-ARCNET*,
TB541, TB541-ETH, TB541-ARCNET
TB711
TB523-2ETH*, TF501-CMS*, TF521-CMS*,
TB5600-2ETH*, TB5610-2ETH*, TB5620-2ETH*

I/O-Modules:

DC505-FBP/DC 705F-FBP	Decentralised I/O - Station with fieldbus interface
AX522/AX 722F	Analogue I/O with 8 channels
AX521/AX 721F	Analogue I/O with 4 channels
AO523/AO 723F	Analogue output
AI523/AI 723F	Analogue input
AC522/AC 722F	Analogue I/O with 8 channels
DI524*/DI 724F	Digital inputs
DC532*/DC 732F	Digital I/O
DC522*/DC 722F	Digital I/O 16 channels
DC523*/DC 723F	Digital I/O 24 channels
DX522/DX 722F	Digital inputs/relay outputs

DC551-CS31	Decentralised I/O - Station with CS 31- interface
DX531/DX 731F	Digital inputs/230V relay outputs
DC541	Digital inputs/ digital in-outputs
DA501/DA 701	Digital I/O module
DA502*	
DO524*	Digital output module
DO526*	Digital output module
CD522*/CD 722F	Encoder and PWM expansion module
PD501	Positioning module/analogue inputs, 24VDC-motor outputs
AI531*/AI 731F	Analogue input module
CI501-PNIO*	Ethernet bus module
CI502-PNIO*	Ethernet bus module
CI511-ETHCAT	Ethernet-bus module
CI512-ETHCAT	Ethernet-bus module
CI521-MODTCP	Communication interface module
CI522-MODTCP	Communication interface module
CI590*	High availability CS31 bus module
CI592*	CS31 bus module with digital and analogue I/O's
TA524/TA 724F	Housing
CI541-DP*	PROFIBUS DP bus module
CI542-DP*	PROFIBUS DP bus module
CI581-CN*	CANopen bus module
CI582-CN*	CANopen bus module
CI504-PNIO*	PROFINET IO bus module
CI506-PNIO*	PROFINET IO bus module
AI581-S*	Analogue input module (FW: V3.x)
DI581-S*	Digital input module (FW: V3.x)
DX581-S*	Digital input/output module (FW: V3.x)
FM502-CMS*,	Condition monitoring module
Terminal Units:	TU515*, TU516*, TU531*, TU532*, TU541*, TU542*, TU505-FBP, TU506-FBP, TU551-CS31, TU552-CS31, TU507-ETH, TU508-ETH, TU 705F, TU 706F, TU 715F, TU 716F, TU 731F, TU 732F TU509-DP*, TU510-DP*, TU517*, TU518*, TU520- ETH*, TU582-S*

Communication Couplers:	
CM572-DP/CM 572F-DP, CM592-DP*	Profibus coupler
CM575-DN	Device net coupler
CM577-ETH, CM597-ETH*, CM578-CN*, CM598-CN*, CM574-RCOM*	Ethernet coupler CanOpen coupler Communication module RCOM/RCOM+
CM574-RS*	Communication module serial
CM579-PNIO*	Communication module PROFINET IO
CM589-PNIO*, CM589-PNIO-4*, CM579-ETHCAT*	Communication module EtherCAT®
CM588-CN*	Communication module CANopen
Accessories:	MC502 memory card

**PLACE OF
PRODUCTION**ABB Stotz-Kontakt GmbH
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