

Type Approval Certificate



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

Certificate No.	32 860 - 06 HH
Company	ABB Automation Products GmbH Eppelheimer Straße 82 69123 Heidelberg, GERMANY
Product Description	Scalable Programmable Logic Controller and I/O System
Type	AC500 / S500, AC500 XC / S500 XC, AC 700F / S 700F AC500-S / S500-S, AC500-S XC / S500-S XC
Environmental Category	C, EMC2
Technical Data / Range of Application	The system may consist of following components: (type designation may be followed by the extension XC) CPUs: PM571, PM571-ETH, PM572, PM573-ETH PM581, PM581-ETH, PM581-ARCNET PM582, PM582-ETH, PM582-ARCNET, PM583-ETH PM590, PM590-ETH, PM590-ARCNET PM591, PM591-ETH, PM591-ARCNET, PM592-ETH PM 783F , EC581-ARCNET SM560-S Terminal Bases: TB511-ETH, TB511-ARCNET TB521-ETH, TB521-ARCNET TB541-ETH, TB541-ARCNET TB 711F Continued on pages 2 and 3
Test Standard	Guidelines for the Performance of Type Approvals, Chapter 2 - Edition 2003 IACS E10, Edition 2006
Documents	Test reports: paconsult No. 0790-05, No. 1094-05, No. 09-2475B Test reports: EMV Rhein-Neckar No. 3893-365, No. 3893-395 Circuit diagrams (GL File 70.70 328606); Software Development Documentation System Description: 2CDC125017M0201; Module Descr. 3BDD
Remarks	Power supply filter FN610/03-06 for modules DC505 and DC551 required
Valid until	2016-12-07
Page	1 of 4
File No.	I.B.07
Hamburg,	2014-05-14

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Terminal Units:

TU505-FBP, TU 705F, TU515, TU531, TU541, TU551-CS31, TU 731F, TU 732F, TU507-ETH
TU506-FBP, TU 706F, TU516, TU532, TU542, TU552-CS31, TU 715F, TU 716F, TU508-ETH
TU509, TU510, TU517, TU518, TU520-ETH, TU582-S

I/O-Modules:

DC505-FBP, DC 705F: Decentral I/O-Station with Fieldbus Interface
DC522, DC 722F: 16 Digital In/Outputs
DC523, DC 723F: 24 Digital In/Outputs
DC532, DC 732F: Digital Inputs Digital In/Outputs
DC541: Digital Inputs Digital In/Outputs
DC551-CS31: Decentral I/O-Station with CS31-Interface
DI524, DI 724F: Digital Inputs
DA501, DA 701F: Digital Inputs Digital In/Outputs Analog Inputs Analog Outputs
DX522, DX 722F: Digital Inputs Relay Outputs
DX531, DX 731F: Digital Inputs 230V Relay Outputs
AX521, AX 721F: Analog In-/Out 4 Channels
AX522, AX 722F: Analog In-/Out 8 Channels
AC522, AC 722F: Configurable Analog In-/Out 8 Channels
AI531, AI 731F: Analog In
AI523, AI 723F: Analog In
AO523, AO 723F: Analog Out
PD501: positioning module; analog inputs; 24V DC-Motor outputs
CD522, CD 722F: Encoder and PWM expansion module
DI581-S: Safety Digital Inputs
DX581-S: Safety Digital In/Output
AI581-S: Safety Analog Inputs In

Communication Couplers:

CM572-DP, CM 772F: Profibus DP Coupler
CM575-DN: DeviceNet Coupler
CM577-ETH: Ethernet Coupler; TCP/IP with integrated 2-port switch
CM578-CN: CanOpen Coupler
CM574-RCOM: RCOM/RCOM+ Coupler (RS-232/RS-485)
CM574-RS: Communication Module Serial - Programmable
CM579-PNIO: Profinet Communication Module
CM579-ETHCAT: EtherCAT® Communication Module
CM588-CN: CANopen Communication Module

Valid until **2016-12-07**

Page **2 of 4**

File No. **I.B.07**

Hamburg, 2014-05-14

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Decentralized I/O Modules

- CI501: PROFINET Bus Module with 22 I/O channels
- CI502: PROFINET Bus Module with 24 I/O channels
- CI511: EtherCAT® Bus Module with 22 I/O channels
- CI512: EtherCAT® Bus Module with 24 I/O channels
- CI590 CS31 HA: High Availability CS31 Bus Module with 16 I/O channels
- CI592: CS31 Bus Module with 22 I/O channels
- 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

Accessories:

- MC502: SD Memory Card 128 MB
- TA524, TA 724F: housing

Power supply: 24V DC or (100V and 240V AC)

Degree of protection: IP 20

Requirement class: 3

Requirement class: 3 SM560-S, DI581-S (16 inputs), DX581-S (8 outputs), AI581-S (4 inputs)

Requirement class: 4 SM560-S, DI581-S (8 dual channel inputs), DX581-S (4 dual channel inputs, 8 outputs), AI581-S (2 dual channel inputs), TU582-S

Firmware: V 1.0.0 (Safety CPU), V 3.0.13 (Safety I/O-Modules)

* Refers to the following modules:

- CI590 CS31 HA, CI592, AI531, AI 731F, CD522, CD 722F, DA501, DA 701F, CM579 PNIO/ETHCAT

Additional documents:

- Test Protocols: Klima Tests of ABB Stotz-Kontakt GmbH, No. V2010039 ABB Stotz-Kontakt GmbH
- Test Report: EMV Rhein-Neckar GmbH No. 3893-365 dated 26.06.2006
- Test Report: EMV Rhein-Neckar GmbH No. 3893-399 dated 21.07.2010
- Test Report: EMV Rhein-Neckar GmbH No. 3893-3105 dated 26.09.2011
- Test Report: EMV Rhein-Neckar GmbH No. 3893-3113a dated 19.12.2012
- Test Report: paconsult No. 11-3684 dated 19.08.2011 & No. 12-4737 (Rev. 1) dated 15.10.2012
- Technical Report: TÜV SÜD Rail No. AH884732T (Rev. 1.2) dated 07.02.2013;
- Certificate No. Z10 13 01 83652 001 of TÜV SÜD; GL Software Questionnaire – Requirement Class 4
- Technical Documentation; Software & Hardware Development Documentation

Valid until **2016-12-07**

Page **3 of 4**

File No. **I.B.07**

Hamburg, 2014-05-14

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Additional documents:

GL Inspection Report dated 18.09.2013
MEMO AN 02 2014-APR dated 04.02.2014

Additional production site (only TU515, TU516):

WELCO WONG'S TECHNOLOGY (Shenzhen) Ltd.
Wanfeng Industrial Estate,
34 The East of Wanzhang Pu,
Shajing, Bao'an, Shenzhen, Guangdong,
P. R. CHINA

Valid until **2016-12-07**

Page **4 of 4**

File No. **I.B.07**

Hamburg, 2014-05-14

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