Type Approval Certificate

Germanischer Lloyd

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.	**3280406 HH**
Company	**Saia-Burgess Controls AG** **Bahnhofstrasse 18** **3280 Murten, SWITZERLAND**
Product Description	**Programmable Controller**
Type	**PCD3**
Environmental Category	**C; EMC1**
Technical Data / Range of Application	**PCD3.M5440 / M5540 with Ethernet TCP/IP** **PLC with 512 Kbytes of user memory, max. 1023 digital I / O, 2 interrupts, Run/Stop switch; Web-Server; Backup option with CD7.R500 Flash Card; Data protection 1…3 years with lithium battery; USB Port for PG5; RS 232, RS 485 for Profi-S-Net and RS 485 for S-Bus,** **PCD3.M5447 / M5547 programmable with Siemens Step 7** **PCD3.M5340 with switchable RS422/RS485 Serial Interface** **PCD3.M6340 / M6347 as PCD3.M5540 / M5547 with Communication CAN** **PCD3.M6240 as PCD3.M5440 with Communication CAN** **PCD3.M3020 / M3230/ M3330 /PCD3.M3120** **PLC with 128/256/256 Kbytes of user memory; Backup with internal Flash memory, RS 485 for Profi-S-Net or S-Bus** **USB port for PG5; Max. 64 / 1023 / 1023 digital I / O, 2 interrupts, Web-Server;** **PCD3.M3330 and PCD3.M3120 with Ethernet TCP/IP** **PCD3.T660: PCD3 Ethernet RIO Head station (as PCD3.M3330)** **Versions: PCD3.T665, PCD3.T666; PCD3.T667 compatible with Siemens Step 7**
Test Standard	**Guidelines for the Performance of Type Approvals VI-7-2, Edition 2003** **Regulations for the Use of Computers and Computer Systems**
Documents	**Test report :5286 dated 31-10-2005; PCD3.M5740 dated 27-06-2005 PCD3.M5540 dated 13-06-2005; MP-EPCD 3-001 dated 29-09-2005 and 13353 dated 18-11-2005; No. 09033-MP_TATR-PCD3 COMPACT dated 03-02-2010; Manual 26/789 Version E5 dated 31-01-2005 and 26/861 dated 10-07-2009**
Remarks	**None**
Valid until	**2016-09-22**

Type Approval Symbol GL GL

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

Hamburg, 2011-09-23

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PCD3.M2030V6 : Compact PLC with 512 kBytes user program memory,
20 dig. IN, 12 dig. OUT, 4 analogue IN, 2 analogue OUT. Expandable to max. 102 I/O's
PCD3.M2130V6 : as M2030, with Ethernet TCP/IP; PCD3.M2137V6 : as M2130, programmable with Siemens Step 7
PCD3.M2330A4Tx : Compact PLC with 512 kBytes memory, 8 dig. IN, 2 dig. OUT, 4 analogue IN, with Ethernet TCP/IP
PCD3.M2230A4T5: as PCD3.M2330A4T5, but w/o TCP/IP
PCD3.M3 Batterieprint : Holder for Lithium Battery and Led for CPU Status; PCD3.R010 : Battery Module for PCD3.M3xxx
PCD3.R500, R5xxx : Flash memory module, 1 Mbyte onto slot 0-3, for PCD3.M3xx0, as backup for the user program
PCD3.R550M04 and PCD3.R551M04 : 4MB flash memory module with file system for Saia PCD3.M3xxx
PCD3.R560 and PCD3.R561 : BACnet modules for Saia® PCD2.M5xx0 / PCD3.Mxxx0
PCD3.R600 Basic module for SD flash memory card
PCD7.R500, R5xxx : Flash memory module, 1 Mbyte, plug-in, for PCD3.M5x4x as backup for the user program
PCD3.T26x / PCD3.T76x : Profibus DP RIO head station with 4 I/O module slots, Profibus DP / Profi-Snet; connection and integral web server, 24 VDC supply
BASE UNITS MODULE: PCD3.C100/C110 : Extension housing with 4 resp. 2 I/O module sockets;
PCD3.C200 : 24 VDC power supply
COMMUNICATION MODULES (Serial Interface Module):
PCD3.F110, F121, F130, F150 : RS 422 / RS 485, RS232, current loop 20 mA, RS 485; PCD3.F1xxR500 : F1xx with Flash memory for user program backup; PCD3.F180 : for Belimo MP-BUS, max. 8 actuators and sensors connectable; PCD3.F210 RS 422 / RS 485 & opt. PCD7.F1xx; PCD3.F221 RS 232 & opt. PCD7.F1xx; PCD3.F281 Belimo MP-Bus & optional PCD7.F1xx
PCD3.K010 : Extension plug PCD3 to PCD3; PCD3.K1xx, PCD2.K1xx :Extension cable PCD3 to PCD3, PCD2 to PCD3
ANALOGUE INPUT / OUTPUT MODULE:
PCD3.W10x : 4 analogue inputs (0...10 V, +/-10V, 0...20mA, +/-20mA)
PCD3.W11x : 4 analogue inputs (Pt100, Ni100, Pt1000, Ni1000)
PCD3.W2xx : 8 analogue inputs (0...10 V, 0...20mA, Pt1000)
PCD3.W3xx : 8 analogue inputs (0...10 V, 0...20mA, Pt/Ni100, Pt1000)
PCD3.W3x5 : 7 inputs with galvanic isolation, (0...10 V, 0...20mA)
PCD3.W4xx : 4 analogue outputs, (0...10 V, 0...20mA)
PCD3.W5xx : 4 analogue in-/ outputs, (0...10 V, 0...20mA)
PCD3.W525 : 4 analogue inputs / 2 analogue outputs, (0...10 V, 0...20mA)
PCD3.W6xx : 4 analogue outputs, (0...10 V, +/-10V, 0...20mA)
PCD3.W6x5: 6/4/6 outputs, with galvanic isolation, (0...10 V, +/-10V, 0...20mA)
PCD3.W7x0 : 1/2 analogue weighing systems for up to 4 resp. 6 weighing cells
PCD3.W745 : 4 analogue inputs for sensor types RTD Thermocouple
PCD3.W800 : Analogue manual control module with 3 outputs 0..10 V with or 1 output 0..10 V without manual control

Valid until **2016-09-22**

Type Approval Symbol

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Digital Input / Output Module:

PCD3.A200 : 4 relays, 250 VAC/2 A, 'make' contact , contact protection;
PCD3.A210 : 4 relays, 250 VAC/2 A, 'break' contact, contact protection
PCD3.A220 : 2 x 3 relays, 250 VAC/2 A, 'make' contact, without contact protection
PCD3.A251: 8 relays, 48 VAC/2 A or 50 V DC/2 A with 6 change-over contacts+2 make-contacts
PCD3.A300 : 6 outputs, transistors, 10..32 V DC/2 A; PCD3.A400 : 8 outputs, transistors, 5..32 V DC/0.5 A
PCD3.A410 : 8 outputs, transistors, 5..32 V DC/0.5 A, electrically isolated from PCD2 bus
PCD3.A460 : 16 outputs, transistors, 10..32 V DC/0.5 A, ribbon cable connector for PCD2.K2xx
PCD3.A465 : 16 outputs, transistors, 10..32 V DC/0.5 A, connection for spring terminals
PCD3.A810: Digital manual control module with 4 relays outputs: - 2 'changeover' contacts, - 2 'make' contacts
PCD3.A860: Light and shades control module with 2 relays outputs 250 VAC/12A and 2 digital inputs 24 V DC
PCD3.B100: Digital input/output module, 2 inputs, 2 outputs and 4 configurable inputs/outputs, inputs : 24 V DC / delay 8 ms, outputs: breaking capacity 0.5 A / 5..32 V DC
PCD3.E110 : 8 inputs, 24 V DC, source and sink operation, 8 ms input delay;
PCD3.E111 : As E110 with 0.2 ms input delay; PCD3.E161 As E160 with 0.2 ms input delay
PCD3.E116 : 8 inputs, 5 V DC,source and sink operation, 0.2 ms input delay
PCD3.E160 and PCD3.E165 : 16 inputs, 24 V DC, source and sink operation, 8 ms input delay
PCD3.E166 : 16 inputs, 24 V DC, source and sink operation, 0.2 ms input delay
PCD3.E500 : 6 inputs, 110..240 VAC, electrically isolated, source operation
PCD3.E610 : 8 inputs, 24 V DC, electrically isolated, source and sink operation, 8 ms delay

Motion Module

PCD3.H100 Intelligent counting module, 1 counting channel, 20 kHz, 2 inputs
PCD3.H110 Intelligent fast counting module,1counting channel, 100 kHz, 2 inputs
PCD3.H150 Absolute encoder module with SSI interface and 4 outputs 24 VDC/0.5 A
PCD3.H210 Module for one stepper motor axis
PCD3.H310 Module for 1 servomotor axis, encoder input, 24 V DC/100 kHz, setpoint output ±10V (12 Bit)
PCD3.H311 Module for 1 servomotor axis, encoder 5 V DC/100 kHz, setpoint output ±10V (12 Bit)

Tests and Evidence according Requirement Class 3
Each designation may be followed by Zxx, where xx are digits for customer specific product design
Additional Documents: 10017-DX-GL_TAC_3238406; 10018-DX-GL_TAC_3238406 and 10022-DX-GL_TAC_3238406 Version 03 dated 22-09-2011

Valid until **2016-09-22**

Type Approval Symbol GL

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

Hamburg, 2011-09-23

Germanischer Lloyd Marco Rinkel Andrea Grün

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