

NIPPON KAIJI KYOKAI

Certificate OF TYPE APPROVAL

Manufacturer: SELCO A/S

Place of manufacturing: Betonvej 10, DK-4000 Roskilde, Denmark

Product description: Generator Protection, Control and Power

Management System

Model: S6000 IO/P Module, S6100 S/LS Module,

S6500 UI Module, S6610 PM Module

Approval No.: 07 A 013

Specification & documents: As shown on the attached sheet (-1/2)

Testing items: As shown on the attached sheet (-2/2)

THIS IS TO CERTIFY that the above mentioned model of the product has been type approved with **Approval No. 07A013** by the NIPPON KAIJI KYOKAI in accordance with the requirements specified in Part 7, Chapter 1 of Guidance for the approval and type approval of materials and equipment for marine use and relevant Society's Rules.

This certificate will remain in force until the 15th March 2013.

Issued at Tokyo on the 16th March 2007.

S. Ogawa General Manager, Machinery Department

NIPPON KAUI KYOKAI

Attached sheet - 1 / 2 to Certificate No. TA07104M

Specification & documents:

1. Ratings (Primary/Backup Supply): DC 24V, Isolated

2. Component and reference drawing:

| Component | Drawing |
|--|---|
| S6000 IO/P Module (for protection of the generator and non essential load trip) | Data Sheet User's Manual based on Software Version 3-2-X RS232 Setup (Rev. 13-9-2006) |
| S6100 S/LS Module (for synchronizing and active/reactive load sharing) | Data Sheet User's Manual based on Software Version 3-5-X RS232 Setup (Rev. 13-9-2006) |
| S6500 UI Module (for indication of measurements and change of settings of modules) | Data Sheet User's Manual based on Software Version 1-4-X |
| S6610 PM Module (for power management) | Data Sheet User's Manual based on Software Version 1-0-X RS232 Setup (Rev. 13-9-2006) |

<Note> Software Version X-Y-Z

X: Major changes, Y: Medium changes, Z: Minor changes

3. Type Approval Test Report etc.:

DELTA Test report: DANAK-197219, P/J No.E501273-1 (16 Oct., 2003)

DELTA Test report: DANAK-198449, P/J No.A503163-1 (28 July, 2006)

Function test report for S6000 IO/P Module (Rev. 10.04.2006)

Function test report for S6100 S/LS Module (Rev. 10.04.2006)

Function test report for S6610 PM Module (Rev. 08.01.2007)

Description of SIGMA production (Rev. 17.09.2006)

NIPPON KAIJI KYOKAI

Attached sheet -2/2 to Certificate No. TA07104M

Testing items : Applied testing items are marked with X.

| ENVIRONMENTAL TESTS | | Mark |
|---|-------------------------|------|
| External examination | | X |
| Operation test and performance test | | X |
| Electric power supply failure test | | X |
| Power supply fluctuation test | Electric | X |
| | Pneumatic and Hydraulic | |
| Insulation resistance test | | X |
| High voltage test | | X |
| Pressure test (Pneumatic and Hydraulic) | | |
| Dry heat test | | X |
| Damp heat test | | X |
| Vibration test | | X |
| Inclination test | | |
| Cold test | | X |
| Salt mist test | | |
| Electrostatic discharge immunity test | | X |
| Radiated radio frequency immunity test | | X |
| Conducted low frequency immunity test | | X |
| Conducted high frequency immunity test | | X |
| Burst/Fast transient immunity test | | X |
| Surge immunity test | | |
| Radiated emission test | | |
| Conducted emission test | | |