



CERTIFICATE NUMBER

14-HS957185-PDA

DATE

17 March 2014

ABS TECHNICAL OFFICE

Houston SED Machinery

# CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of  
**AUTOMATIONDIRECT - CUMMING**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

PRODUCT: **Automation and Controls System**

MODEL: **P3000**

This Product Design Assessment (PDA) Certificate 14-HS957185-PDA, dated 17/Mar/2014 remains valid until 16/Mar/2019 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

Tim Kimble

Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned manufacturing process without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

## **AUTOMATIONDIRECT**

3505 HUTCHINSON ROAD

CUMMING

GA 30040

United States

Telephone: 770-889-2858

Fax: 770-889-7876

Email: jleroy@automationdirect.com

Web: www.automationdirect.com

**Tier: 2**

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**Product:** Automation and Controls System

**Model:** P3000

### **Intended Service:**

Marine & Offshore Application - Programmable Logic Controllers for Shipboard Automation and Control Systems for ACC and ACCU Classed Vessels and Offshore and Industrial Controls.

### **Description:**

Direct Logic Programmable Controllers consist of Power Supply, CPU, Discrete DC I/O, Discrete AC I/O, Analog I/O, Motion Speed Counter Input, Ziplink Modules. See attached "pdf" for equipment list and part numbers.

### **Ratings:**

Power Supply P3-01DC: 24 to 48 VDC;

Maximum Input Power : 67 W;

Operating Temperature: 0°C to 60°C (32°F to 140°F);

Power Supply P3-01AC: 100 to 240 VAC; 50 to 60 Hz;

Maximum Input Power : 72W;

Operating Temperature: 0°C to 60°C (32°F to 140°F);

### **Service Restrictions:**

Unit Certification is required for this product.

- 1) Tests and approval are for hardware only. Each particular application/configuration is to be specifically approved.
- 2) When product is marked for use in hazardous location, certificate/document is to be submitted to ABS upon request.

### **Comments:**

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

### **Notes / Drawings / Documentation:**

#### **Supporting Data:**

UL Online Certification NRAQ.E157382 Programmable Controllers dated 2012-07-16, NRAQ2.E15738220 dated 10-11-19;

CE Declaration of Conformity dated 24 July 2009;

CE EC Declaration of Conformity dated 11/28/2011;

UL Online Certification NRAG E200031 Programmable Controllers for use in Hazardous Locations;

See attached Component Parts List for Automation Direct Productivity 3000 Product Line.

Parc Test Report No. 5208 dated 20 January 2014, 18 sheets;

ETC Electronic Test and Calibration LTD dated 5 Dec 2013, 20 sheets;

Bae Systems Certificate Number 14027 dated 3 February 2014, 5 sheets;

Bae Systems Certificate Number 14006 dated January 13,2014, 8 sheets;

Electronic Test & Calibration Ltd. Electromagnetic Compatibility Testing dated 16 January 2014;

\*P3000 Report Set;

### **Term of Validity:**

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**STANDARDS**

**ABS Rules:**

2014 Steel Vessels Rules 1-1-4/3.1-1-A3, 7, 4-9-8/7, 4-9-8/13, 4-9-8/Table 1 & Table 2 & 4-9-3/5;

**National:**

NA

**International:**

EN61131-2:2007, 3rd Ed; EN 6100-4-2, -3, -4,-5, -6, -8, -11, EN61000-3-2, EN 60068-2-2,-6, -1-30;

**Government Authority:**

NA

**EUMED:**

NA

**Others:**

NA