

## Type Approval Certificate Extension

This is to certify that Certificate No. 05/20002 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

**PRODUCER** ABB Stotz-Kontakt GmbH  
Hauptstrasse 14-16  
78132 Hornberg  
Germany

**PLACE OF PRODUCTION** Relpol Baltija  
Krokuvos g. 5-1  
09314 Vilnius  
Lithuania

**DESCRIPTION** Plug-in Relay and Socket

|    |   |     |    |   |     |     |
|----|---|-----|----|---|-----|-----|
| CR | X | XXX | XX | X | (L) | (G) |
|    | ① | ②   | ③  | ④ |     |     |

|                               | Code | Description      |
|-------------------------------|------|------------------|
| ① Type                        | M    | Miniature Relays |
|                               | U    | Universal Relays |
| ② Rated Supply Voltage in [V] | 012  | Only DC          |
|                               | 024  |                  |
|                               | 048  |                  |
|                               | 110  |                  |
|                               | 120  | Only AC          |
|                               | 220  | Only DC          |
|                               | 230  | Only AC          |
| ③ Current Type                | AC   |                  |
|                               | DC   |                  |

**Certificate No.** 05/20002 (E1)  
**Issue Date** 05 August 2008  
**Expiry Date** 31 March 2013  
**Sheet** 1 of 2

  
Thorsten Wolff  
Hamburg Design Support Centre  
Lloyd's Register EMEA

Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS

## TYPES CONTINUED

|                      | Code | Description                                  |
|----------------------|------|--|
| ④ Number of contacts | 2    | 2 change over contacts;<br>not for CR-M type |
|                      | 3    | 3 change over contacts;<br>not for CR-M type |
|                      | 4    | 4 change over contacts                       |
| Indication Light     | (L)  | LED Light                                    |
| Contact treatment    | (G)  | Gold plated; only for CR-M type              |

## APPLICATION

Marine, offshore and industrial applications for use in environmental categories ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 1996.

*"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 attached Design Appraisal Document No. ETS 19332-08 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

All other details remain as the previous Certificate No. 05/20002 to which this extension should be attached.

Certificate No. 05/20002 (E1)  
 Issue Date 05 August 2008  
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 Sheet 2 of 2



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 Hamburg Design Support Centre  
 Lloyd's Register EMEA

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Part 2

Relays - Magnetic

| Producer/<br>Licence No.   | Type                        | Standard                                 | Utilization<br>Category | Contact Rating               |                                 |                              |                                    |                                   |                           | Category/<br>Additional Tests | Remarks       | Cert. No. |
|--|-----------------------------|--|-------------------------|------------------------------|---------------------------------|------------------------------|------------------------------------|-----------------------------------|---------------------------|-------------------------------|---------------|-----------|
|  |                             |  |                         | A.C. (50/60Hz)               |                                 | D.C.                         |                                    | Thermal<br>Current Ith<br>Amperes |                           |                               |               |           |
|  |                             |  |                         | Operational<br>Voltage<br>Ue | Operating<br>Current<br>Amperes | Operational<br>Voltage<br>Ue | Operating<br>Current Ie<br>Amperes |                                   | Time<br>Constant<br>Secs. |                               |               |           |
| ABB Stotz-Kontakt<br>GmbH<br>Hauptstrasse 14-16<br>78132 Hornberg<br>Germany | Plug-in Relay and<br>Socket | EN 61810-1<br>: 2004<br>UL 508 :<br>1999 |                         |                              |                                 |                              |                                    |                                   | EN V2,<br>EN V3<br>(1996) | Expires: 31 March<br>2013     | 05/20002 (E1) |           |
|  | CR-M<br>CR-U                |  |                         | 250                          | 6                               | 250                          | 6                                  |                                   |                           |                               |               |           |
|  |                             |  |                         | 250                          | 10                              | 250                          | 10                                 |                                   |                           |                               |               |           |

*16/08.08.08*