



**asefa**

association  
de stations d'essais françaises  
d'appareils électriques

Certifié conforme à l'original

le 01 JUL 1997

Le bureau de gestion de l'ASEFA

G.GOSSE



# Certificate of Conformity

LOVAG - Certificate No. FR 97-068

**Apparatus** : PROTECTED STARTER

**Designation** : MS325-9+DLA9

### Manufacturer or responsible vendor

ABB CONTROL  
10, rue Ampère - BP 114  
69685 CHASSIEU - FRANCE

**Tested for:** A B B CONTROL

**Tested by:** ASEFA platform G03

This Certificate applies only to the apparatus tested. The responsibility for conformity of any apparatus having the same designation with that tested rests with the manufacturer or responsible vendor.

This certificate has been prepared according to LOVAG (Low Voltage Agreement Group) Objectives and Operating Principles of mutual recognition. The responsible certification body as member of LOVAG issues a Certificate of Conformity with the above mentioned Standard(s) following the exclusive use of LOVAG Test Instructions wherever applicable.

Only integral reproduction of this Certificate or reproductions of this page accompanied by any page(s) on which are stated the tests performed and the assigned rated characteristics of the apparatus tested, are permitted without written permission from the LOVAG Signatory responsible for this Certificate.

The apparatus, constructed in accordance with the description mentioned in the Test Report listed on this Certificate has been subjected to the series of proving tests in accordance with IEC 947-4-1 (1990.05), corrigendum (Dec. 91) and amendment 1 (1994.11), EN 60 947.4.1 (1992.01) and amendment A1 (1995.01), test sequence III (§ 8.3.4)

The results are shown in the Test Report in accordance to LOVAG. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the characteristic assigned by the manufacturer as stated below.

$U_i = 1\ 000\ V$                        $I_e = 9\ A$   
 $U_e = 400\ V$                          $"r" = 1\ kA$   
 $U_e = 400\ V$                          $I_q = 10\ kA$   
 $U_e = 500\ V$                          $I_q = 25\ kA$   
frequency : 50 Hz  
type "1" co-ordination

This document includes Report No.: G03-97-110

Issue Date: 1997-05-13

### Responsible Certification Body

I. HELLER

Authorized Signature

Date: 01 JUL 1997

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# Certificate of Conformity

LOVAG-Certificate No. FR 97-069

**Apparatus** : PROTECTED STARTER**Designation** : MS325-2.5 + DLA9**Manufacturer or responsible vendor**ABB CONTROL  
10, rue Ampère - BP 114  
69695 CHASSIEU - FRANCE**Tested for:** A B B CONTROL**Tested by:** ASEFA platform G03

This Certificate applies only to the apparatus tested. The responsibility for conformity of any apparatus having the same designation with that tested rests with the manufacturer or responsible vendor.

This certificate has been prepared according to LOVAG (Low Voltage Agreement Group) Objectives and Operating Principles of mutual recognition. The responsible certification body as member of LOVAG issues a Certificate of Conformity with the above mentioned Standard(s) following the exclusive use of LOVAG Test Instructions wherever applicable.

Only integral reproduction of this Certificate or reproductions of this page accompanied by any page(s) on which are stated the tests performed and the assigned rated characteristics of the apparatus tested, are permitted without written permission from the LOVAG Signatory responsible for this Certificate.

The apparatus, constructed in accordance with the description mentioned in the Test Report listed on this Certificate has been subjected to the series of proving tests in accordance with IEC 947-4-1 (1990.05), corrigendum (Dec. 91) and amendment 1 (1994.11), EN 60 947.4.1 (1992.01) and amendment A1 (1995.01), test sequence III (5.8.3.4)

The results are shown in the Test Report in accordance to LOVAG. The values obtained and the general performance are considered to comply with the above Standard(s) and to justify the characteristic assigned by the manufacturer as stated below.

$U_i = 1\ 000\ V$                        $I_e = 2.5\ A$   
 $U_e = 400\ V$                          $"r" = 1\ kA$   
 $U_e = 400\ V$                          $I_q = 10\ kA$   
 $U_e = 500\ V$                          $I_q = 25\ kA$   
frequency : 50 Hz  
type "2" co-ordination

This document includes Report No.: G03-97-107

Issue Date: 1997-05-09

**Responsible Certification Body**  
I. HELLER

Authorized Signature

Date: 01 JUL 1997