

certificate of conformity n° 098-01

english version - original in french

issued to : ABB CONTROL
10 rue Ampère
69380 - CHASSIEU
FRANCE

for the apparatus : Free air three-pole contactor

reference : BC 9-3D-10
manufacturer : ABB Control

according to standard(s) : Standards IEC 60947-4-1 (1990-05), corrigendum (1991-12), amendment 1 (1994-11) and amendment 2 (1996-08) - EN 60947-4-1 (1992-01) amendment 1 (1995-01) and amendment 2 (1997-06) - NFEN 60947-4-1(1993-02) amendment 1 (1995-04) and amendment 2 (1997-12). Verification of admissible Temperature-rise for the maximum operational current. Verification of operation and dielectric withstand according to Test sequence I. Verification of overload current according to Test sequence IV.

rated characteristics :

$U_i = 690 \text{ V}$ $U_{imp} = 6 \text{ kV}$ $I_{th} / I_{the} = 26 \text{ A} / 20 \text{ A}$

Operational voltage : $U_e(\text{V})$	≤ 240	$> 240 \leq 415$	$> 415 < 440$	$> 440 \leq 500$	$> 500 \leq 690$
Operational current : $I_e(\text{A})$ AC-1	22	22	22	22	22
$I_e(\text{A})$ AC-3	9	9	9	7	6
$I_e(\text{A})$ AC-4	9	9	9	7	6

relevant document(s) :

record of proving test n° G11 2001166a

conclusion :

The relevant document(s) enable to state that the apparatus, asserted by the applicant as representing the type referenced, comply with requirement of standards used for rated characteristics presented above.

Fontenay-aux-Roses, on September 11, 2001

The chairman of ASEFA,



J. HELLER

certificate of conformity n° 101-01
 english version - original in french

issued to : ABB CONTROL
 10 rue Ampère
 89680 - CHASSIEU
 FRANCE

for the apparatus : three-pole contactor

reference : BC 9-30-10
 manufacturer : ABB Control

according to standard(s) : Standards IEC 60947-4-1 (1990-05), corrigendum (1991-12), amendment 1 (1994-11) and amendment 2 (1996-08) - EN 60947-4-1 (1992-01) amendment 1 (1995-01) and amendment 2 (1997) - Verification of tests sequences II (AC4) and III (AC1).

rated characteristics :

Main circuit 3-pole $U_i = 690\text{ V}$ - 50 Hz $I_{th} = 26\text{ A}$

Sequence II

Operational voltage: U_e (V)	≤ 440	$> 440 \text{ \& } \leq 500$	$> 500 \text{ \& } \leq 690$
Operational current: I_e (A) AC3	9	7	6
I_e (A) AC4	9	7	6

Sequence III (AC1)

$U_e = 500\text{ V}$ $I_e = 22\text{ A}$ $I_r = 3\text{ kA}$ $I_q = 25\text{ kA}$

SCPD : fuses FERRAZ SHAWMUT 25 AgG ref. C 213603

Co-ordination type 1

Electrical control circuit : $U_s = 220\text{ V}$ $U_i = 690\text{ V}$

Auxiliary circuits : $I_{e\max} = 6\text{ A}$ 50Hz $U_i = 690\text{ V}$

relevant document(s) :

record of proving test n° G03 01178a

conclusion :

The relevant document(s) enable to state that the apparatus, asserted by the applicant as representing the type referenced, comply with requirement of standards used for rated characteristics presented above.

Fontenay-aux-Roses, on September 28, 2001

The chairman of ASEFA,



I. HELLER