

CERTIFICATE OF CONFORMITY



- 1.
2. DEMKO No. 96D.119340
3. This certificate is issued for Squirrel-cage motors
type M2AA 200 ML . . .
- 4a. Manufactured by ABB Motors AB, S-721 70 Västerås, Sweden.
- 4b. and submitted by The manufacturer
5. This electrical apparatus and any acceptable variation thereto is specified in the Appendix to this certificate and the documents therein referred to.
6. DEMKO being an Approval Certification Body in accordance with Article 14 of the Council Directive of the European Communities of 18th December 1975, document 76/117/EEC, confirms that the apparatus has been found to comply with the harmonized European Standards:

EN 50014 incl. amd. 1 - 5
EN 50019 incl. amd. 1 - 5
7. The apparatus marking shall include the code:

EEx e II T3
8. The supplier of the electrical apparatus referred to in this certificate has the responsibility to ensure that the apparatus conforms to the specification laid down in the Appendix to this certificate and has satisfied routine verifications and tests specified therein.
9. The apparatus may be marked with the Distinctive Community Mark specified in Annex II to the Council Directive of 16 January 1984, document 84/47/EEC. A facsimile of this mark is printed at the top of this certificate. The marking of the equipment shall be visible, legible and durable.

For and on behalf of DEMKO

J. Nittegaard
Department Manager



Herlev, 1996-07-02

This certificate is only allowed to be rendered in entirety and without alterations.



APPENDIX
to Certificate of Conformity No. 96D.119340

THIS APPROVAL APPLIES TO

Squirrel-cage motors,
three-phased
For mounting on a base or a flange
Protection by enclosure: IP 55
Ambient temperature area: $+20\text{ °C} < T_{\text{amb}} < +50\text{ °C}$
max. $3 \times 690\text{ V} \sim 50/60\text{ Hz}$
marked: "ABB Motors AB"
01) type: M2AA 200MLA-2
02) type: M2AA 200MLB-2
03) type: M2AA 200MLA-4
04) type: M2AA 200MLA-6
05) type: M2AA 200MLB-6
06) type: M2AA 200MLA-8
protected for use in potentially explosive atmosphere
(increased safety)
EEx e II T3

Manufactured by:
ABB Motors AB
S-721 70 Västerås
Sweden

Submitted by:
ABB Motors AB
S-721 70 Västerås
Sweden

The product type has been tested in accordance with the European Standard EN 50014 incl. amd. 1 - 5 and EN 50019 incl. amd. 1 - 5.

The approval applies to products, strictly identical with the submitted and approved product type. If you make any alteration of the product, including the marking, you are obliged to inform DEMKO about this by letter.

FURTHER CONDITIONS RELATING TO THE APPROVAL

The approval does not include cable entry devices. Any cable or conduit entries certified to EN 50014 and EN 50019 can be used. To keep the IP-classification the cable entry device must be at least of the classification IP 55.

APPENDIX
to Certificate of Conformity No. 96D.119340



When the motor is installed with a vertical shaft it must be secured by an extra shield that foreign matters cannot fall vertically down into the fan opening. This extra shield will be delivered by the manufacturer.

The motors are as standard mounted with built-in PTC-thermistors for use in connection with a protection device according to the manufacturers instruction.

The below tables state the power consumption [kW], number of rotations per minute [r/min], rated current (I_N) [A], starting current conditions (I_A/I_N) and the time (t_E) [s]. The windings of the motors will be designed for any actual voltage up to 690 V. This will only have influence on the rated current I_N .

RATING FOR MOTORS AT 400V, 50 Hz.

EEx e II T3 - Ambient temperature of max. 40°C.

Motor type	kW	r/min	I_N [A]	I_A/I_N	t_E [s]
M2AA 200MLA-2	24	2955	42	7.7	6.5
M2AA 200MLB-2	27	2955	47	8.4	5.5
M2AA 200MLA-4	26	1470	49	6.5	6.0
M2AA 200MLA-6	18.5	980	35	6.9	15
M2AA 200MLB-6	22	980	42	7.3	13.5
M2AA 200MLA-8	15	735	30	7.2	17

EEx e II T3 - Ambient temperature of max. 50°C.

Motor type	kW	r/min	I_N [A]	I_A/I_N	t_E [s]
M2AA 200MLA-2	22	2960	39	8.4	6.5
M2AA 200MLB-2	25	2960	43	9.1	5.5
M2AA 200MLA-4	24	1475	45	7.0	6.5
M2AA 200MLA-6	18.5	980	35	6.9	14
M2AA 200MLB-6	22	980	42	7.3	12
M2AA 200MLA-8	15	735	30	7.2	16

A subsidiary of



Underwriters Laboratories Inc. ®

APPENDIX
to Certificate of Conformity No. 96D.119340



RATING FOR MOTORS AT 460 V, 60 Hz.

EEx e II T3 - Ambient temperature of max. 40°C.

Motor type	kW	r/min	I _N [A]	I _A /I _N	t _E [s]
M2AA 200MLA-2	24	3560	37	8.7	6.0
M2AA 200MLB-2	29	3555	43	9.1	5.0
M2AA 200MLA-4	28	1775	45	7.0	5.5
M2AA 200MLA-6	21	1180	34	7.2	14
M2AA 200MLB-6	25	1180	41	7.6	12
M2AA 200MLA-8	17	885	29	7.4	17

EEx e II T3 - Ambient temperature of max. 50°C.

Motor type	kW	r/min	I _N [A]	I _A /I _N	t _E [s]
M2AA 200MLA-2	22	3565	34	9.5	5.5
M2AA 200MLB-2	27	3560	41	9.7	5.0
M2AA 200MLA-4	26	1775	42	7.6	5.5
M2AA 200MLA-6	21	1180	34	7.2	11
M2AA 200MLB-6	25	1180	41	7.6	9.5
M2AA 200MLA-8	17	885	29	7.4	16

DRAWINGS

Description	Number	Year, Week
Assembly Drawing, M2AA 200	3GZV 101 004-1	95 40
Earthing Device	3GZV 382 001-A, Rev. 2	95 13
Terminal Fittings	3GZV 281 002-2, Rev. 1	95 15
Terminal Cover	3GZV 274 001, Rev. 1	94 07
Terminal Board	3GZP 284 001-F	94 08
N-Bearing Application	3GZV 241 001-L, Rev. 1	94 31
D-Bearing Application	3GZV 241 001-R, Rev. 1	94 31
N-Endshield	3GZV 203 003, Rev. 2	94 35

A subsidiary of




Underwriters Laboratories Inc. ®

APPENDIX
to Certificate of Conformity No. 96D.119340



DRAWINGS (cont.)

Description	Number	Year, Week
D-Endshield	3GZV 213 006, Rev. 2	94 35
Fan Cover	3GZV 314 001-B, Rev. 2	94 51
Protective Cover	3GZV 312 001-B	94 16
Fan - 2-pole	3GZV 304 001-3	94 04
Fan - 4-8 pole	3GZV 304 001-4	94 04
Rating Plate. EXE	3GZV 194 001-4, Rev. 2	95 35

The approval entitles the licensee to provide the product with the registered approval mark  and the Epsilon-x mark.

For and on behalf of DEMKO

Herlev, 1996-07-02

J. Nittegaard
Department Manager

Examiner:
L. Fernando

This appendix is only allowed to be rendered in entirety and without alterations.

