



**[1] TYPE EXAMINATION CERTIFICATE****[2] Equipment Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC****[3] Type Examination Certificate Number: Nemko 05ATEX3135****[4] Equipment: Asynchronous motors****[5] Applicant: ABB Automation Technologies AB****[6] Address: LV Motors  
Örjansgränd 10  
SE-721 70 Västerås  
Sweden****[7] This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.****[8] Nemko AS, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements that relate to the design of Category 3 equipment, which is intended for use in potentially explosive atmospheres. These Essential Health and Safety Requirements are given in Annex II to European Union Directive 94/9/EC of 23 March 1994.****[9] The examination and test results are recorded in confidential report no. 66898Ex01-03****[10] Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:****CENELEC EN 60079-15: 2003  
CENELEC EN 50014: 1997 +A1:1999, A2:1999  
CENELEC EN 50281-1-1: 1998  
IEC 60079-15: 2001  
IEC 61241-0:2004  
IEC 61241-1:2004  
CENELEC EN 61241-1:2004****[11] If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.****[12] This TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.****[13] The marking of the equipment shall include the following:** **II 3 G EEx nA II T3**  
 **II 3 D T125°C****Ex tD A22 T125°C**

Oslo, 2006-05-24

**p.p. Rolf Hoel  
Certification Department***This certificate and its schedules may only be reproduced in its entirety and without any change*

## [14] Schedule

### [15] TYPE EXAMINATION CERTIFICATE No **Nemko 05ATEX3135**

#### [16] Description of Equipment

This Certificate covers a series of non-sparking and IP55 dust protected asynchronous motors with cast iron housing.

Duty type: S1.

Motors at intermitted duty: S2 ... S8, S10 according to the specification stated in the descriptive documents are accepted.

Ambient temperature is between  $-20^{\circ}\text{C}$  and  $40^{\circ}\text{C}$ , but operation at  $40$  to  $60^{\circ}\text{C}$  is permissible provided that documented tests are carried out to ensure conformity as described in the descriptive documents.

Motors with frequency converter must be supplied and loaded according to the manufacturers Technical Description, 3GZV100075 clause 9.2.5.

A second rating plate will be mounted on the motor, mentioning the voltage, current and load conditioning in function of the frequency range, as well as the relevant converter characteristic.

The frequency converter type **ABB ACS 800** has been type tested according to the derating curve in the Technical files, and can be used with these motors.

#### Ingress Protection Code

IP55 according to EN 60529.

	Type designation	Pole	Speed r/min	Output kW	Voltage V	Freq. Hz
1	M3BP160MA	2	2930 3530	11 12.5	380-415 440	50 60
2	M3BP160M	2	2920 3520	15 17.5	380-415 440	50 60
3	M3BP160L	2	2925 3525	18.0 20.5	380-415 440	50 60
4	M3BP160M	4	1465 1750	11 12.5	380-415 440	50 60
5	M3BP160L	4	1455 1755	15 18	380-415 440	50 60
6	M3BP160M	6	970 1170	7.5 8.6	380-415 440	50 60
7	M3BP160L	6	970 1170	11 12.5	380-415 440	50 60
8	M3BP160MA	8	715 865	4 4.6	380-415 440	50 60
9	M3BP160M	8	710 865	5.5 6.3	380-415 440	50 60
10	M3BP160L	8	715 860	7.5 8.6	380-415 440	50 60
11	M3BP180M	2	2930 3530	22 26.5	380-415 440	50 60
12	M3BP180M	4	1470 1770	18.5 22	380-415 440	50 60
13	M3BP180L	4	1470 1765	22 26	380-415 440	50 60

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	Type designation	Pole	Speed r/min	Output kW	Voltage V	Freq. Hz
14	M3BP180L	6	970 1175	15 17	380-415 440	50 60
15	M3BP180L	8	720 870	11 13	380-415 440	50 60
16	M3BP200MLA	2	2955 3555	30 35	380-415 440	50 60
17	M3BP200MLB	2	2950 3550	37 43	380-415 440	50 60
18	M3BP200MLC	2	2950 3550	45 52	380-415 440	50 60
19	M3BP200MLB	4	1475 1775	30 35	380-415 440	50 60
20	M3BP200MLA	6	985 1185	18.5 21	380-415 440	50 60
21	M3BP200MLB	6	980 1180	22 25	380-415 440	50 60
22	M3BP200MLA	8	740 890	15 17	380-415 440	50 60
23	M3BP200MLB	8	735 885	18.5 21	380-415 440	50 60
24	M3BP225SMB	2	2960 3560	45 52	380-415 440	50 60
25	M3BP225SMC	2	2960 3565	55 63	380-415 440	50 60
26	M3BP225SMA	4	1480 1785	37 42	380-415 440	50 60
27	M3BP225SMB	4	1480 1785	45 52	380-415 440	50 60
28	M3BP225SMC	4	1480 1785	51 59	380-415 440	50 60
29	M3BP225SMB	6	985 1185	30 34	380-415 440	50 60
30	M3BP225SMC	6	985 1185	37 42	380-415 440	50 60
31	M3BP225SMA	8	730 880	18.5 21	380-415 440	50 60
32	M3BP225SMB	8	730 880	22 25	380-415 440	50 60
33	M3BP250SMA	2	2970 3570	55 63	380-415 440	50 60
34	M3BP250SMB	2	2970 3570	75 86	380-415 440	50 60
35	M3BP250SMA	4	1480 1780	55 63	380-415 440	50 60
36	M3BP250SMB	4	1480 1780	68 78	380-415 440	50 60
37	M3BP250SMA	6	985 1185	37 42	380-415 440	50 60
38	M3BP250SMB	6	985 1185	45 52	380-415 440	50 60
39	M3BP250SMA	8	735 885	30 34	380-415 440	50 60
40	M3BP250SMB	8	735 885	37 42	380-415 440	50 60

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[17] Report No. 66898Ex01-03

**Descriptive Documents**

Name/Title	Drawing No.	Rev.	Date	Sheets
Technical file for ATEX Certification M3BP 160	3GZV 100055-16	0	2005.05.20	1
Technical file for ATEX Certification M3BP 180	3GZV 100055-17	0	2005.05.20	1
Technical file for ATEX Certification M3BP 200	3GZV 100055-18	0	2005.05.20	1
Technical file for ATEX Certification M3BP 225	3GZV 100055-19	0	2005.05.20	1
Technical file for ATEX Certification M3BP 250	3GZV 100055-20	0	2005.05.20	1

[18] **Special Conditions for Safe Use**  
None

[19] **Essential Health and Safety Requirements**  
See item 10

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