



(1) **EC-TYPE-EXAMINATION CERTIFICATE**
(Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

PTB 02 ATEX 3070

(4) Equipment: three-phase motor of the type series 1 M.. 28.-...

(5) Manufacturer: Siemens AG
Automation and Drives Standard Drives

(6) Address: 91056 Erlangen, Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report PTB Ex 02-32082.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014:1997 + A1 + A2

EN 50019:2000

(10) 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.

(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment 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.

(12) The marking of the equipment shall include the following:

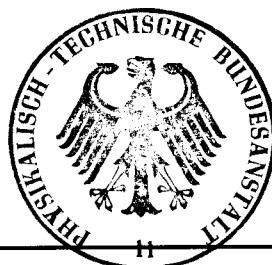
II 2 G EEx e II T1, T2, T3 or T4

Zertifizierungsstelle Explosionsschutz

Braunschweig, November 05, 2002

By order:

Dr.-Ing. U. Engel
Regierungsdirektor



sheet 1/2

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 02 ATEX 3070**

(15) Description of equipment

Three-phase motors of the type series 1 M.. 28.-... of the type of protection Increased Safety "e", whose mechanical construction has been specified in the test report according to clause 16 below and whose electrical design has been specified in an associated data sheet, each according to the manufacturer's application.

(16) Report PTB Ex 02-32082

(17) Special conditions for safe use

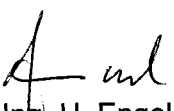
not applicable

(18) Essential health and safety requirements

met by standards

Zertifizierungsstelle Explosionsschutz

By order:


Dr.-Ing. U. Engel
Regierungsdirektor



Braunschweig, November 05, 2002

Braunschweig und Berlin

DATA SHEET 16 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 02 ATEX 3070

Manufacturer: Siemens AG, Automation and Drives Standard Drives
91056 Erlangen, Germany

for the three-phase asynchronous motor type series 1MA6 280-4...

Ratings

This certificate is valid for the following designs providing the motors of this type differ only negligibly from the sample tested as regards the electrical and thermal stresses:

Power:		58		kW
Voltage:	190 - 210	437 - 483	655 - 725	V
Current:	225	97	65	A
Power factor:		0.83		
Frequency:		60		Hz
Speed:		1788		min ⁻¹
Duty Type:		S1		
I _A /I _N ratio:		6.3		
Thermal class:		B or F		

In addition to the above-mentioned voltages, intermediate values are also permissible. The associated currents are to be converted in the inverse ratio to the voltages. The mains voltage may vary by up to $\pm 5\%$ and the mains frequency by up to $\pm 2\%$ from the rated values, in keeping with range A according to IEC 34-1.

Temperature monitoring

For the selection of a current dependent time-lag protective device, the times t_E were determined as follows:

Temperature class:	T1	T2	T3	
Time t_E :	35	35	9	s

Report PTB Ex 03-33143

Zertifizierungsstelle Explosionsschutz

By order


Dr.-Ing. F. Liensch
Oberregierungsrat



Braunschweig, June 04, 2002