



## (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 01 ATEX 3214**



(4) Equipment: three-phase motor of the type series eD.. 180...

(5) Manufacturer: SEW-EURODRIVE

(6) Address: D-76646 Bruchsal

(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 99-30134.

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

**EN 50014:1997 + A1 + A2**

**EN 50019:1994**

(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 and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.


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

 **II 2 G EEx e II T1, T2, T3 oder T4**

Zertifizierungsstelle Explosionsschutz

Braunschweig, February 21, 2001

By order:

  
Dr.-Ing. U. Engel  
Regierungsdirektor



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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 01 ATEX 3214**

(15) Description of equipment

Three-phase motors of the type series eD.. 180... 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 the manufacturer's application.

(16) Report PTB Ex 99-30134

(17) Special conditions for safe use

not applicable

(18) Essential health and safety requirements

met by standards

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Braunschweig, February 21, 2001

# Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

DATA SHEET 02 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 3214

Manufacturer: SEW-EURODRIVE, D-76646 Bruchsal

for the three-phase asynchronmotor type series eD.V 180 L4

## 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 on the output shaft:			16						kW
Voltage:	190	230	440	500	690				V
Current:	66	54	28.5	25	18.1				A
Power factor:			0.80						
Frequency:			60						Hz
Speed: (motor)			1770						min <sup>-1</sup>
Duty Type:			S1						
I <sub>A</sub> /I <sub>N</sub> ratio:			7.0						
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 $t_E$ :	18	18	8	s

Report PTB Ex 01-30012

Zertifizierungsstelle Explosionsschutz  
By order

Braunschweig, February 21, 2001

  
Dr.-Ing. U. Engel  
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