

## DATA SHEET 12 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 3087

**Manufacturer:** SÜD-ELECTRIC AG, 85614 Kirchseeon, Germany

for three phase asynchron motor type MDK-R3085-N4N

### 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 by ambient temperature 50 °C:			1.7				kW
Voltage:	110	230	400	460	690		V
Current:	13.1	6.3	3.6	3.15	2.1		A
Power factor:			0.81				
Frequency:			60				Hz
Speed: (motor)			1740				min <sup>-1</sup>
Duty Type:			S1				
I <sub>A</sub> /I <sub>N</sub> ratio:			6.9				
Thermal class:			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 60034-1.

### 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	T4	
Time $t_E$ :	30	30	25	10	s

### Test report PTB Ex 07-36211

Zertifizierungsstelle Explosionsschutz

By order

Dr.-Ing. F. Lienesch  
Oberregierungsrat



Braunschweig, April 16, 2007