

## DATA SHEET 15 TO EC-TYPE-EXAMINATION CERTIFICATE PTB 03 ATEX 3087

**Manufacturer:** SÜD-ELECTRIC AG  
Westring 1-7, 85614 Kirchseeon/Eglharting, Deutschland

for Drehstrommotor Typ MD\_-\_3110-NCK-\_\_

### 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 for cooling temperature 50 °C:	0.35					kW
Voltage:	110	230	400	500	690	V
Current:	6.0	2.85	1.64	1.31	0.95	A
Power factor:	0.47					
Frequency:	50					Hz
Speed: (motor)	468					min <sup>-1</sup>
Duty Type:	S1					
I <sub>A</sub> /I <sub>N</sub> ratio:	2.6					
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 $t_E$ :	420	420	360	60	s

If temperature sensors (PTC thermistors DIN 44082-M100) are used together with a tripping device tested for its function in accordance with directive 94/9/EC the requirements of EN 60079-7:2007, subclause 4.7.4 are also met for motors in locked rotor condition up to temperature class T4. At rated voltage and starting from cold state (20 °C) the tripping time will be  $t_A = 300$  s.

### Assessment and test report PTB Ex 10-30157

Zertifizierungssektor Explosionsschutz  
On behalf of PTB:

Braunschweig, September 23, 2010

  
Dr.-Ing. F. Lienesch  
Regierungsdirektor

